

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার  
প্রধানমন্ত্রীর কার্যালয়  
পুরাতন সংসদ ভবন, ঢাকা।



পত্র সংখ্যা ...০৭.০৯.০০০০.০৬৮.০২৪.১০.২০(অংশ-১)- ৩৫৫ (২১)

২৯ ফাল্গুন ১৪২৭ বঙ্গাব্দ  
তারিখ ..... ১৪ মার্চ ২০২১ খ্রিস্টাব্দ

বিষয় : 'বঙ্গবন্ধু শেখ মুজিব শিল্পনগর (বিএসএমএসএন) উন্নয়ন' শীর্ষক প্রকল্প বাস্তবায়নের প্রশাসনিক অনুমোদন।

উপর্যুক্ত বিষয়ে নির্দেশক্রমে জানানো যাচ্ছে যে, 'বঙ্গবন্ধু শেখ মুজিব শিল্পনগর (বিএসএমএসএন) উন্নয়ন' শীর্ষক প্রকল্পটি ০৩-০২-২০২১ তারিখে অনুষ্ঠিত একদৈনিক সভায় অনুমোদিত হয়েছে। প্রকল্পটি মোট ৪৩৪৭.২১০২ কোটি টাকা (চার হাজার তিনশত সাতচল্লিশ কোটি একুশ লক্ষ দুই হাজার) [তয়াম্বে জিওবি ৩৭১.৭৪২০ কোটি টাকা এবং প্রকল্প ঋণ (বিশ্বব্যাংক) ৩৯৬৭.৪৬৮২ কোটি টাকা] অধারনে বাস্তবায়িত হবে।

২। প্রকল্পটির অনুমোদিত মেয়াদকাল ০১ জানুয়ারি ২০২১ হতে ৩১ ডিসেম্বর ২০২৫ পর্যন্ত।


৩। প্রকল্পটির অনুমোদিত অঙ্গ ও অঙ্গাভিত্তিক বিস্তারিত ব্যয় বিভাজন নিম্নরূপ :

(লক্ষ টাকায়)

ক্রম	অঙ্গের নাম	সংখ্যা/পরিমাণ	জিওবি	প্রকল্প ঋণ	মোট ব্যয়
	(ক) রাজস্ব ব্যয় :	-	-	-	-
	<b>Basic Pay &amp; Allowances</b>	-	-	-	-
১.	Basic Pay (Officers)	১১ জন	৩১৩.৫০	০.০০	৩১৩.৫০
২.	Education allowance	১১ জন	৬.০০	০.০০	৬.০০
৩.	Housing rent allowance	১১ জন	১৫৭.০০	০.০০	১৫৭.০০
৪.	Medical allowance	১১ জন	৯.০০	০.০০	৯.০০
৫.	Mobile/cellphone allowance	১১ জন	১৮.০০	০.০০	১৮.০০
৬.	Residential telephone encashment allowance	১১ জন	৫২.৫০	০.০০	৫২.৫০
৭.	Festival allowance	১১ জন	১০.৫০	০.০০	১০.৫০
৮.	Rest and recreation allowance	১১ জন	১.০০	০.০০	১.০০
৯.	Refreshment allowance	১১ জন	১.০০	০.০০	১.০০
১০.	Bangla new year allowance	১১ জন	৫.৫০	০.০০	৫.৫০
১১.	Other allowances	১১ জন	১০.০০	০.০০	১০.০০
	<b>Administrative Expenses</b>	-	-	-	-
১২.	Entertainment Expenses	খোক	০.০০	১০০.০০	১০০.০০
১৩.	Transport Hiring (Vehicle Rent)	৮ টি	০.০০	১৭০৭.৬০	১৭০৭.৬০
১৪.	<b>Seminar and Conference</b>	-	-	-	-
	i) Seminar and conference	খোক	০.০০	২০০.০০	২০০.০০
	ii) Investment promotion (Foreign)	খোক	০.০০	৬৯০.৫০	৬৯০.৫০
১৫.	Electricity	খোক	১৫০.০০	০.০০	১৫০.০০
১৬.	Water	খোক	৫০.০০	০.০০	৫০.০০
১৭.	Telex/Fax/Internet	খোক	৫০.০০	০.০০	৫০.০০
১৮.	Postage	খোক	২০.০০	০.০০	২০.০০
১৯.	Telephone	খোক	২০.০০	০.০০	২০.০০
২০.	Machine and Equipment Rental	খোক	০.০০	১০০.০০	১০০.০০
২১.	Advertising Expenses	খোক	০.০০	৪০০.০০	৪০০.০০
২২.	Books and Periodicals	খোক	৫০.০০	০.০০	৫০.০০
২৩.	Publication	খোক	০.০০	১০০.০০	১০০.০০
২৪.	Office Building Rental	৬০ মাস	০.০০	৯০০.০০	৯০০.০০
২৫.	Conveyance Expenditure	খোক	৫০.০০	০.০০	৫০.০০
২৬.	Outsourcing (Project Employee)	৯২ জন	০.০০	১৪৬৪.০২	১৪৬৪.০২
২৭.	Venue Rental	খোক	০.০০	২০১.০০	২০১.০০
২৮.	<b>Training</b>	-	-	-	-

ক্রম	অংশের নাম	সংখ্যা/পরিমাণ	জিভরি	প্রকল্প ঋণ	মোট ব্যয়
	i) Foreign Training & study tour	থোক	০.০০	৬০০.০০	৬০০.০০
	ii) Local Training	থোক	০.০০	২০০.০০	২০০.০০
	iii) Voucher Program	থোক	০.০০	১২৭৫০.০০	১২৭৫০.০০
২৯.	Petrol, Oil & Lubricant (Speed Boat- 1 & Motorcycle-27)	২৮ টি	৪৯৬.২০	০.০০	৪৯৬.২০
৩০.	Travel Expenses	থোক	১২০.০০	০.০০	১২০.০০
৩১.	Medical & Surgical Supplies	থোক	৫০.০০	০.০০	৫০.০০
৩২.	Sanitation materials	থোক	৫০.০০	০.০০	৫০.০০
৩৩.	Medicin & Vaccines	থোক	৫০.০০	০.০০	৫০.০০
৩৪.	Computer consumables	থোক	৫০.০০	০.০০	৫০.০০
৩৫.	Printing & Binding	থোক	০.০০	১০০.০০	১০০.০০
৩৬.	Stamps & Seals	থোক	২০.০০	০.০০	২০.০০
৩৭.	Other Stationary	থোক	২৫০.০০	০.০০	২৫০.০০
৩৮.	Map	থোক	৫০.০০	০.০০	৫০.০০
৩৯.	Consultancy	-	-	-	-
	i) Consultancy (Firm)	২৬ আইটেম	০.০০	৩৩১৭৫.৫০	৩৩১৭৫.৫০
	ii) Individual Consultants	৪৮ জন	০.০০	৭৫৯৪.২০	৭৫৯৪.২০
	<b>Repair &amp; Maintenance</b>	-	-	-	-
৪০.	Motor Vehicles (Motorcycle)	২৭ টি	১০.০০	০.০০	১০.০০
৪১.	Computer	থোক	৫০.০০	০.০০	৫০.০০
৪২.	Water vehicle	থোক	২০.০০	০.০০	২০.০০
৪৩.	Transport maintenance expense	৪ টি	১২০.০০	০.০০	১২০.০০
	<b>Grant Program</b>	-	-	-	-
৪৪.	Grant Program	থোক	০.০০	১৭০০০.০০	১৭০০০.০০
	<b>Custom Duty &amp; VAT</b>	-	-	-	-
৪৫.	Custom Duty	থোক	৮০০০.০০	০.০০	৮০০০.০০
৪৬.	VAT and others	থোক	২০০০.০০	০.০০	২০০০.০০
	<b>উপ-মোট (রাজস্ব ব্যয়) (ক):</b>	-	১২৩১৮.২০	৭৭২৮২.৮২	৮৯৬০১.০২
	<b>(খ) মূলধন ব্যয় :</b>	-	-	-	-
	-	-	-	-	-
৪৭.	Motor Vehicles (Motorcycle)	২৭টি	৩৮.০০	০.০০	৩৮.০০
৪৮.	Speed Boat	১ টি	৪০.০০	০.০০	৪০.০০
৪৯.	ICT Equipment	-	-	-	-
	i) Video Conference system	থোক	০.০০	১০০.০০	১০০.০০
	ii) Multimedia Projectors	১টি	০.০০	৩৫.০০	৩৫.০০
	iii) Smart City Equipment: BSMSN (Hardware, software equipment's)	থোক	০.০০	৪০০.০০	৪০০.০০
৫০.	Computer Accessories: Desktop-60, Laptop-35, Tab-10, Printer-60, Photocopier-10, and Scanner-15	১৯০টি	০.০০	৩৫০.০০	৩৫০.০০
৫১.	Camera and accessories	থোক	০.০০	৫.০০	৫.০০
৫২.	Testing Laboratories with supply & installation	থোক	০.০০	৪৫০.০০	৪৫০.০০
৫৩.	Office Equipments	থোক	০.০০	৩৩.০০	৩৩.০০
৫৪.	Furniture and Fixtures	থোক	০.০০	৪১৬.০০	৪১৬.০০
	<b>Software</b>	-	-	-	-
৫৫.	Computer Softwar	থোক	০.০০	১০০.০০	১০০.০০
৫৬.	Financial Management System (Database)	থোক	০.০০	১০০.০০	১০০.০০

ক্রম	অংশের নাম	সংখ্যা/পরিমাণ	ক্রিওরি	প্রকল্প খণ	মোট ব্যয়
৫৭.	Non-residential Building		০.০০		
	i) Resilient Site upgrade and Building Development	১.২৭ লক্ষ বর্গ মি.	০.০০	৫০০০.০০	৫০০০.০০
	ii) Construction of Investors Club	৬০০ বর্গ মি.	০.০০	৩০০০.০০	৩০০০.০০
	iii) Furnished OSS Centre for BSMSN	প্রোক	০.০০	১০০০.০০	১০০০.০০
	iv) Mosque	১৫৮০ বর্গ মি.	০.০০	২০০০.০০	২০০০.০০
	v) Emergency Response Centre	৩০০০ বর্গ মি.	০.০০	২৫০০.০০	২৫০০.০০
	vi) Construction of Skills Development Center	১০২৫*৩ বর্গ মি.	১৫০০.০০	০.০০	১৫০০.০০
	vii) Construction of Child Care & Emergency Health Care Center	১০২৫*৩ বর্গ মি.	১৫০০.০০	০.০০	১৫০০.০০
৫৮.	Road Network	৩০ কি.মি.	০.০০	৪০৬০০.০০	৪০৬০০.০০
৫৯.	Drainage structures (Storm Water)	৩১ কি.মি.	০.০০	২১২০০.০০	২১২০০.০০
৬০.	Sanitation & Water Supply (Sower Network & Water Supply Network)	৪০ কি.মি.	০.০০	১৮৭০০.০০	১৮৭০০.০০
৬১.	Excavation (Channel Lining)	১০ কি.মি.	০.০০	৫০৮৫.০০	৫০৮৫.০০
৬২.	Telecommunication systems	২৫ কি.মি.	০.০০	১৭০০.০০	১৭০০.০০
৬৩.	Power Network	২০ (33 kva) কি.মি., 13.5 (11 kva) কি.মি.	০.০০	১৬৫০০.০০	১৬৫০০.০০
৬৪.	Gas pipeline network	২৮ কি.মি.	০.০০	১৭০০০.০০	১৭০০০.০০
৬৫.	<b>Other Building &amp; Structure</b>	-	-	-	-
	i) Security and Support Amenities	৪০ কি.মি.	০.০০	১২৭৫০.০০	১২৭৫০.০০
	ii) Central Effluent Treatment Plant (PPP)	৪৮ এমএলডি	০.০০	২০৪০০.০০	২০৪০০.০০
	iii) Desalination plant (PPP)	৩০ এমএলডি	০.০০	৩৮২৫০.০০	৩৮২৫০.০০
	iv) Steam network (PPP)	১২.১৪ কি.মি.	০.০০	৬৮০০.০০	৬৮০০.০০
	v) Solid Waste Management (PPP)	১০০ একর	০.০০	১২৭৫০.০০	১২৭৫০.০০
	vi) Biogas plant, waste sorting and material recovery facility (PPP)	৪০ একর	০.০০	৬৮০০.০০	৬৮০০.০০
	vii) Rooftop and floating solar (PPP)	১০+৬০ রোপা ওয়াট	০.০০	৫৯৫০০.০০	৫৯৫০০.০০
	viii) Environmental Lab & Monitoring System	২৮০ বর্গ মি.	০.০০	৭৯০.০০	৭৯০.০০
৬৬.	Land Development	১০০ লক্ষ ঘন মি.	০.০০	২৫৫০০.০০	২৫৫০০.০০
	উপ-মোট (মূলধন ব্যয়) (খ):	-	৩০৭৮.০০০	৩১৯৪৬৪.০০	৩২২৫৪২.০০
(গ)	ফিজিক্যাল কনট্রিনেজেন্সি	২%	৬৪৫১.০০	০.০০	৬৪৫১.০০
(ঘ)	গ্রাইস কনট্রিনেজেন্সি	৫%	১৬১২৭.০০	০.০০	১৬১২৭.০০
	সর্বমোট (ক+খ+গ+ঘ):	-	৩৭৯৭৪.২০	৩৯৬৭৪৬.৮২	৪৩৪৭২১.০২

  
 (আনিসপুর রহমান)  
 পরিচালক-১

ফোন: ৫৫০২৯৪২১

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বিতরণ কার্যার্থে:

(জেষ্ঠাতার ক্রমানুসারে নয়)

১. সদস্য (সিনিয়র সচিব), সাধারণ অর্থনীতি বিভাগ, পরিকল্পনা কমিশন, শের-ই বাংলা নগর, ঢাকা।
২. সিনিয়র সচিব, অর্থ বিভাগ, বাংলাদেশ সচিবালয়, ঢাকা।
৩. সচিব, জনপ্রশাসন মন্ত্রণালয়, বাংলাদেশ সচিবালয়, ঢাকা।
৪. সদস্য (সচিব), কার্যক্রম বিভাগ, পরিকল্পনা কমিশন, শের-ই বাংলা নগর, ঢাকা।
৫. সচিব, অর্থনৈতিক সম্পর্ক বিভাগ, শের-ই বাংলা নগর, ঢাকা।
৬. সচিব, বাস্তবায়ন পরিবীক্ষণ ও মূল্যায়ন বিভাগ, শের-ই বাংলা নগর, ঢাকা।
৭. সদস্য, শিল্প ও শক্তি বিভাগ, পরিকল্পনা কমিশন, শের-ই বাংলা নগর, ঢাকা।
৮. প্রধান, শিল্প ও শক্তি বিভাগ, পরিকল্পনা কমিশন, শের-ই বাংলা নগর, ঢাকা।
৯. নির্বাহী চেয়ারম্যান, বাংলাদেশ অর্থনৈতিক অঞ্চল কর্তৃপক্ষ (বেজা), আব্দুল মোমেন বিজনেস ডিস্ট্রিক্ট (লেভেল-২২), ১১১ বীর উত্তম সি আর দত্ত রোড, ঢাকা-১২০৫।
১০. চীফ একাউন্টস এ্যান্ড ফিন্যান্স অফিসার, প্রধানমন্ত্রীর কার্যালয়, হিসাব ভবন, সেগুনবাগিচা, ঢাকা।
১১. বাজেট অফিসার, প্রধানমন্ত্রীর কার্যালয়, তেজগাঁও, ঢাকা।
১২. সিনিয়র সিস্টেম এনালিস্ট, পরিকল্পনা বিভাগ, ঢাকা।

অফিস কপি/মাণ্ডার কপি

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একই তারিখ ও সারকে স্থলাভিষিক্ত  
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার  
পরিকল্পনা বিভাগ  
এনইসি-একনেক ও সমন্বয় অনুবিভাগ  
একনেক শাখা-১  
শেরে বাংলা নগর, ঢাকা।

অতি জরুরি  
বিশেষ বাতক মারফত

স্মারক : ২০.০০.০০০০.৪১১.১৪.০১৬.২১-৫৩

তারিখ: ১১ ফাল্গুন ১৪২৭ বঙ্গাব্দ  
২৪ ফেব্রুয়ারি ২০২১ খ্রি:

বিষয় : একনেক কর্তৃক অনুমোদিত “বঙ্গবন্ধু শেখ মুজিব শিল্পনগর (বিসএমএসএন) উন্নয়ন” সীর্ষক প্রকল্প অনুমোদন।  
সূত্র : একনেক সভার কার্যবিবরণী নম্বর- ২০.০০.০০০০.৪১১.০৬.০৩.২১-২০, তারিখ: ১৫.০২.২০২১

উপর্যুক্ত বিষয় ও সূত্রের পরিস্রাঙ্কিতে নির্দেশক্রমে জানানো যাচ্ছে যে প্রধানমন্ত্রীর কার্যালয়ের আওতায় বাংলাদেশ অর্থনৈতিক অঞ্চল কর্তৃপক্ষ (বেজা) কর্তৃক বাস্তবায়নের জন্য প্রস্তাবিত “বঙ্গবন্ধু শেখ মুজিব শিল্পনগর (বিসএমএসএন) উন্নয়ন” সীর্ষক প্রকল্পটি ০৩.০২.২০২১ তারিখে অনুষ্ঠিত একনেক সভায় অনুমোদিত হয়। প্রকল্পটি মোট ৪৩৪৭.২১০২ কোটি টাকা (চার হাজার তিনশত সাতচল্লিশ কোটি একশ লক্ষ দুই হাজার) [তন্মধ্যে ক্রিওবি ৩৭৯.৭৪২০ কোটি টাকা এবং প্রকল্প ঋণ (বিষয়সংক্র) ৩৯৬৭.৪৬৮২ কোটি টাকা] অর্থায়নে বাস্তবায়িত হবে।

- ২। প্রকল্পটির অনুমোদিত মেয়াদকাল ০১ জানুয়ারি ২০২১ হতে ৩১ ডিসেম্বর ২০২৫।  
৩। প্রকল্পটির অনুমোদিত অঙ্গ ও অঙ্গাভিত্তিক বিস্তারিত ব্যয় বিভাজন নিম্নরূপ :

(লক্ষ টাকায়)

ক্র:নং	অঙ্গের নাম	সংখ্যা/ পরিমাণ	ক্রিওবি	প্রকল্প ঋণ	মোট ব্যয়
(ক)	রাজস্ব ব্যয় :				
	Basic Pay & Allowances				
১.	Basic Pay (Officers)	১১ জন	৩১৩.৫০	০.০০	৩১৩.৫০
২.	Education allowance	১১ জন	৬.০০	০.০০	৬.০০
৩.	Housing rent allowance	১১ জন	১৫৭.০০	০.০০	১৫৭.০০
৪.	Medical allowance	১১ জন	৯.০০	০.০০	৯.০০
৫.	Mobile/cellphone allowance	১১ জন	৯.০০	০.০০	৯.০০
৬.	Residential telephone encashment allowance	১১ জন	১৮.০০	০.০০	১৮.০০
৭.	Festival allowance	১১ জন	৫২.৫০	০.০০	৫২.৫০
৮.	Rest and recreation allowance	১১ জন	১০.৫০	০.০০	১০.৫০
৯.	Refreshment allowance	১১ জন	১.০০	০.০০	১.০০
১০.	Bangla new year allowance	১১ জন	৫.৫০	০.০০	৫.৫০
১১.	Other allowances	১১ জন	১০.০০	০.০০	১০.০০
	Administrative Expenses				
১২.	Entertainment Expenses	থোক	০.০০	১০০.০০	১০০.০০
১৩.	Transport Hiring (Vehicle Rent)	৮ টি	০.০০	১৭০৭.৬০	১৭০৭.৬০
১৪.	Seminar and Conference				
	i) Seminar and conference	থোক	০.০০	২০০.০০	২০০.০০
	ii) Investment promotion (Foreign)	থোক	০.০০	৬৯০.৫০	৬৯০.৫০
১৫.	Electricity	থোক	১৫০.০০	০.০০	১৫০.০০
১৬.	Water	থোক	৫০.০০	০.০০	৫০.০০
১৭.	Telex/Fax/Internet	থোক	৫০.০০	০.০০	৫০.০০
১৮.	Postage	থোক	২০.০০	০.০০	২০.০০
১৯.	Telephone	থোক	২০.০০	০.০০	২০.০০
২০.	Machine and Equipment Rental	থোক	০.০০	১০০.০০	১০০.০০
২১.	Advertising Expenses	থোক	০.০০	৪০০.০০	৪০০.০০
২২.	Books and Periodicals	থোক	৫০.০০	০.০০	৫০.০০
২৩.	Publication	থোক	০.০০	১০০.০০	১০০.০০
২৪.	Office Building Rental	৬০ মাস	০.০০	৯০০.০০	৯০০.০০
২৫.	Conveyance Expenditure	থোক	৫০.০০	০.০০	৫০.০০
২৬.	Outsourcing (Project Employee)	৯২ জন	০.০০	১৪৬৪.০২	১৪৬৪.০২

গণক:১/৪




ক্র.নং	অংশের নাম	সংখ্যা/ পরিমাণ	জিওরি	প্রকল্প খণ	স্ট্রট ব্যয়
২৭.	Venue Rental	থোক	০.০০	২০১.০০	২০১.০০
২৮.	<b>Training</b>				
	i) Foreign Training & study tour	থোক	০.০০	৬০০.০০	৬০০.০০
	ii) Local Training	থোক	০.০০	২০০.০০	২০০.০০
	iii) Voucher Program	থোক	০.০০	১২৭৫০.০০	১২৭৫০.০০
২৯.	Petrol, Oil & Lubricant (Speed Boat-1 & Motorcycle-27)	২৮ টি	৯৯৬.২০	০.০০	৯৯৬.২০
৩০.	Travel Expenses	থোক	১২০.০০	০.০০	১২০.০০
৩১.	Medical & Surgical Supplies	থোক	৫০.০০	০.০০	৫০.০০
৩২.	Sanitation materials	থোক	৫০.০০	০.০০	৫০.০০
৩৩.	Medicin & Vaccines	থোক	৫০.০০	০.০০	৫০.০০
৩৪.	Computer consumables	থোক	৫০.০০	০.০০	৫০.০০
৩৫.	Printing & Binding	থোক	০.০০	১০০.০০	১০০.০০
৩৬.	Stamps & Seals	থোক	২০.০০	০.০০	২০.০০
৩৭.	Other Stationary	থোক	২৫০.০০	০.০০	২৫০.০০
৩৮.	Map	থোক	৫০.০০	০.০০	৫০.০০
৩৯.	Consultancy				
	i) Consultancy (Firm)	২৬ আইটেম	০.০০	৩৩১৭৫.৫০	৩৩১৭৫.৫০
	ii) Individual Consultants	৪৮ জন	০.০০	৭৫৯৪.২০	৭৫৯৪.২০
	<b>Repair &amp; Maintenance</b>				
৪০.	Motor Vehicles (Motorcycle)	২৭ টি	১০.০০	০.০০	১০.০০
৪১.	Computer	থোক	৫০.০০	০.০০	৫০.০০
৪২.	Water vehicle	থোক	২০.০০	০.০০	২০.০০
৪৩.	Transport maintenance expense	৪ টি	১২০.০০	০.০০	১২০.০০
	<b>Grant Program</b>				
৪৪.	Grant Program	থোক	০.০০	১৭০০০.০০	১৭০০০.০০
	<b>Custom Duty &amp; VAT</b>				
৪৫.	Custom Duty	থোক	৮০০০.০০	০.০০	৮০০০.০০
৪৬.	VAT and others	থোক	২০০০.০০	০.০০	২০০০.০০
		উপ-স্ট্রট (রাজস্ব ব্যয়) (ক):	-	১২৩১৮.২০	৭৭২৮২.৮২
<b>(খ) মূল্যদান ব্যয় :</b>					
	<b>Goods</b>				
৪৭.	Motor Vehicles (Motorcycle)	২৭ টি	৩৮.০০	০.০০	৩৮.০০
৪৮.	Speed Boat	১ টি	৪০.০০	০.০০	৪০.০০
৪৯.	ICT Equipment				
	i) Video Conference system	থোক	০.০০	১০০.০০	১০০.০০
	ii) Multimedia Projectors	১ টি	০.০০	৩৫.০০	৩৫.০০
	iii) Smart City Equipment: BSMMSN (Hardware, software equipment's)	থোক	০.০০	৪০০.০০	৪০০.০০
৫০.	Computer Accessories: Desktop-60, Laptop-35, Tab-10, Printer-60, Photocopier-10, and Scanner-15	১৯০ টি	০.০০	৩৫০.০০	৩৫০.০০
৫১.	Camera and accessories	থোক	০.০০	৫.০০	৫.০০
৫২.	Testing Laboratories with supply & installation	থোক	০.০০	৪৫০.০০	৪৫০.০০
৫৩.	Office Equipments	থোক	০.০০	৩৩.০০	৩৩.০০
৫৪.	Furniture and Fixtures	থোক	০.০০	৪১৬.০০	৪১৬.০০
	<b>Software</b>				
৫৫.	Computer Softwar	থোক	০.০০	১০০.০০	১০০.০০
৫৬.	Financial Management System (Database)	থোক	০.০০	১০০.০০	১০০.০০

*স্বাক্ষর*

ক্র:নং	অংশের নাম	সংখ্যা/ পরিমাণ	জিভরি	প্রকল্প খণ	মোট ব্যয়
৫৭.	Non-residential Building		০.০০		
	i) Resilient Site upgrade and Building Development	১.২৭ লক্ষ বর্গ মি.	০.০০	৫০০০.০০	৫০০০.০০
	ii) Construction of Investors Club	৬০০ বর্গ মি.	০.০০	৩০০০.০০	৩০০০.০০
	iii) Furnished OSS Centre for BSMMSN	খোক	০.০০	১০০০.০০	১০০০.০০
	iv) Mosque	১৫৮০ বর্গ মি.	০.০০	২০০০.০০	২০০০.০০
	v) Emergency Response Centre	৩০০০ বর্গ মি.	০.০০	২৫০০.০০	২৫০০.০০
	vi) Construction of Skills Development Center	১০২৫*৩ বর্গ মি.	১৫০০.০০	০.০০	১৫০০.০০
	vii) Construction of Child Care & Emergency Health Care Center	১০২৫*৩ বর্গ মি.	১৫০০.০০	০.০০	১৫০০.০০
৫৮.	Road Network	৩০ কি.মি.	০.০০	৪০৬০০.০০	৪০৬০০.০০
৫৯.	Drainage structures (Storm Water)	৩১ কি.মি.	০.০০	২১২০০.০০	২১২০০.০০
৬০.	Sanitation & Water Supply (Sower Network & Water Supply Network)	৪০ কি.মি.	০.০০	১৮৭০০.০০	১৮৭০০.০০
৬১.	Excavation (Channel Lining)	১০ কি.মি.	০.০০	৫০৮৫.০০	৫০৮৫.০০
৬২.	Telecommunication systems	২৫ কি.মি.	০.০০	১৭০০.০০	১৭০০.০০
৬৩.	Power Network	২০ (33 kva) কি.মি., 13.5 (11 kva) কি.মি.	০.০০	১৬১৫০.০০	১৬১৫০.০০
৬৪.	Gas pipeline network	২৮ কি.মি.	০.০০	১৭০০০.০০	১৭০০০.০০
৬৫.	<b>Other Building &amp; Structure</b>				
	i) Security and Support Amenities	৪০ কি.মি.	০.০০	১২৭৫০.০০	১২৭৫০.০০
	ii) Central Effluent Treatment Plant (PPP)	৪৮ এরএলাডি	০.০০	২০৪০০.০০	২০৪০০.০০
	iii) Desalination plant (PPP)	৩০ এরএলাডি	০.০০	৩৮২৫০.০০	৩৮২৫০.০০
	iv) Steam network (PPP)	১২.১৪ কি.মি.	০.০০	৬৮০০.০০	৬৮০০.০০
	v) Solid Waste Management (PPP)	১০০ একর	০.০০	১২৭৫০.০০	১২৭৫০.০০
	vi) Biogas plant, waste sorting and material recovery facility (PPP)	৪০ একর	০.০০	৬৮০০.০০	৬৮০০.০০
	vii) Rooftop and floating solar (PPP)	১০+৬০ মেগা ওয়াট	০.০০	৫৯৫০০.০০	৫৯৫০০.০০
	viii) Environmental Lab & Monitoring System	২৮০ বর্গ মি.	০.০০	৭৯০.০০	৭৯০.০০
৬৬.	Land Development	১০০ লক্ষ ঘন মি.	০.০০	২৫৫০০.০০	২৫৫০০.০০
	উপ-মোট (মূলধন ব্যয়) (খ):	-	৩০৭৮.০০০	৩১৯৪৬৪.০০	৩২২৫৪২.০০
(গ)	ফিজিক্যাল কন্ট্রোলস	২%	৬৪৫১.০০	০.০০	৬৪৫১.০০
(ঘ)	গ্রাইস কন্ট্রোলস	৫%	১৬১২৭.০০	০.০০	১৬১২৭.০০
	সর্বমোট (ক+খ+গ+ঘ):	-	৩৭৯৭৪.২০	৩৯৬৭৪৬.৮২	৪৩৪৭২১.০২

81 অনুমোদিত ভিপিপি'র প্রত্যেক পাতায় স্বাক্ষরিত) এক প্রত্ন এডভান্সে পরবর্তী ব্যবস্থা গ্রহণের জন্য সংযোজিত হল।

মুখ্য সচিব  
প্রাধানস্বত্রীর কার্যালয়  
তেজগাঁও, ঢাকা।

  
(নিশাত আহান)  
সিনিয়র সহকারী সচিব  
ফোন: ৯১৮০৮৮৩

স্মারক : ২০.০০.০০০০.৪১১.১৪.০১৬.২১-৫৩


তারিখ: ১১ মাস্থান ১৪২৭ বঙ্গাব্দ  
২৪ ফেব্রুয়ারি ২০২১ খ্রি:

সদয় অবগতি ও প্রয়োজনীয় ব্যবস্থা গ্রহণের জন্য অনুলিপি জ্যেষ্ঠতার ক্রমানুসারে নয়):

- ১। সদস্য সিনিয়র সচিব, সাধারণ অর্থনীতি বিভাগ, পরিকল্পনা কমিশন, শের-ই বাংলা নগর, ঢাকা।
- ২। সিনিয়র সচিব, অর্থ বিভাগ, বাংলাদেশ সচিবালয়, ঢাকা।
- ৩। সচিব, জনপ্রশাসন মন্ত্রণালয়, বাংলাদেশ সচিবালয়, ঢাকা।
- ৪। সদস্য (সচিব), কার্যক্রম বিভাগ, পরিকল্পনা কমিশন, শের-ই বাংলা নগর, ঢাকা।
- ৫। সচিব, অর্থনৈতিক সম্পর্ক বিভাগ, শের-ই বাংলা নগর, ঢাকা।
- ৬। সচিব, বাস্তবায়ন পরিবীক্ষণ ও মূল্যায়ন বিভাগ, শের-ই বাংলা নগর, ঢাকা।
- ৭। সচিব, শিল্প ও শক্তি বিভাগ, পরিকল্পনা কমিশন, শের-ই বাংলা নগর, ঢাকা।
- ৮। প্রধান, শিল্প ও শক্তি বিভাগ, পরিকল্পনা কমিশন, শের-ই বাংলা নগর, ঢাকা।
- ৯। নির্বাহী চেয়ারম্যান, বাংলাদেশ অর্থনৈতিক অঞ্চল কর্তৃপক্ষ (বেজা), আব্দুল মোনাম বিজনেস ডিভিউক্ট (লেভেল-১২), ১১১ বীর উত্তম সি. আর দত্ত রোড, ঢাকা-১২০৫।
- ১০। চীফ একাউন্টস এ্যান্ড ফিন্যান্স অফিসার, প্রধানমন্ত্রীর কার্যালয়, হিসাব ভবন, সেগুনবাগিচা, ঢাকা।
- ১১। সিনিয়র সিস্টেম এনালিস্ট, পরিকল্পনা বিভাগ, ঢাকা (পরিকল্পনা বিভাগের ওয়েব পেইজে প্রকাশের অনুরোধ করা হল)।

সদয় অবগতির জন্য অনুলিপি:

- ১। মাননীয় মন্ত্রীর একান্ত সচিব, পরিকল্পনা মন্ত্রণালয়, শের-ই বাংলা নগর, ঢাকা।
- ২। সচিব মহোদয়ের একান্ত সচিব, পরিকল্পনা বিভাগ, শের-ই বাংলা নগর, ঢাকা।
- ৩। যুগ্মপ্রধান মহোদয়ের ব্যক্তিগত কর্মকর্তা, এনইসি-একেনেক ও সমন্বয় অনুবিভাগ, পরিকল্পনা বিভাগ, শের-ই বাংলা নগর, ঢাকা।

  
২৪.০২.২০২১  
(নিশান্ত জাহান)  
সিনিয়র সচিব  
ফোন: ৯১৮০৮৮৩

পৃষ্ঠা-৪/৪



Re-recast: 19 November 2020  
2<sup>nd</sup> PEC: 12 November 2020  
Re-recast: 05 October 2020  
Recast: 23 August 2020  
PEC: 15 June 2020  
PNC: 13 April 2020

**GOVERNMENT OF THE PEOPLE'S REPUBLIC OF BANGLADESH**

**DEVELOPMENT PROJECT PROPOSAL (DPP)**

**বঙ্গবন্ধু শেখ মুজিব শিল্পনগর (বিএসএমএসএন) উন্নয়ন প্রকল্প**

**BANGABANDHU SHEIKH MUJIB SHILPA NAGAR (BSMSN)  
DEVELOPMENT PROJECT**

**PRIME MINISTER'S OFFICE  
BANGLADESH ECONOMIC ZONES AUTHORITY**

**NOVEMBER 2020**





গণপ্রজাতন্ত্রী বাংলাদেশ সরকার  
প্রধানমন্ত্রীর কার্যালয়  
পুরাতন সংসদ ভবন, ঢাকা।



পত্র সংখ্যা ...০৭.০৯.০০০০০.০৬৮.০২৪.১০.২০(অংশ-১)- ৩৫৫ (২১)

তারিখ ..... ২৯ ফাল্গুন ১৪২৭ বঙ্গাব্দ  
১৪ শ্রাব্দ ২০২১ খ্রিস্টাব্দ

বিষয় : 'বঙ্গবন্ধু শেখ মুজিব শিল্পনগর (বিএসএমএসএন) উন্নয়ন' শীর্ষক প্রকল্প বাস্তবায়নের প্রশাসনিক অনুমোদন।

উপর্যুক্ত বিষয়ে নির্দেশক্রমে জানানো যাচ্ছে যে, 'বঙ্গবন্ধু শেখ মুজিব শিল্পনগর (বিএসএমএসএন) উন্নয়ন' শীর্ষক প্রকল্পটি ০৩-০২-২০২১ তারিখে অনুষ্ঠিত একদৈনিক সভায় অনুমোদিত হয়েছে। প্রকল্পটি মোট ৪৩৪৭.২১০২ কোটি টাকা (চার হাজার তিনশত সাতচল্লিশ কোটি একশ লক্ষ দুই হাজার) [তয়সো জিওবি ৩৭১.৭৪২০ কোটি টাকা এবং প্রকল্প ঋণ (বিশ্বব্যাংক) ৩৯৬৭.৪৬৮২ কোটি টাকা] অধারনে বাস্তবায়িত হবে।

২। প্রকল্পটির অনুমোদিত মেয়াদকাল ০১ জানুয়ারি ২০২১ হতে ৩১ ডিসেম্বর ২০২৫ পর্যন্ত।


৩। প্রকল্পটির অনুমোদিত অঙ্গ ও অঙ্গাভিত্তিক বিস্তারিত ব্যয় বিভাজন নিম্নরূপ :

(লক্ষ টাকায়)

ক্রম	অঙ্গের নাম	সংখ্যা/পরিমাণ	জিওবি	প্রকল্প ঋণ	মোট ব্যয়
	(ক) রাজস্ব ব্যয় :	-	-	-	-
	<b>Basic Pay &amp; Allowances</b>	-	-	-	-
১.	Basic Pay (Officers)	১১ জন	৩১৩.৫০	০.০০	৩১৩.৫০
২.	Education allowance	১১ জন	৬.০০	০.০০	৬.০০
৩.	Housing rent allowance	১১ জন	১৫৭.০০	০.০০	১৫৭.০০
৪.	Medical allowance	১১ জন	৯.০০	০.০০	৯.০০
৫.	Mobile/cellphone allowance	১১ জন	১৮.০০	০.০০	১৮.০০
৬.	Residential telephone encashment allowance	১১ জন	৫২.৫০	০.০০	৫২.৫০
৭.	Festival allowance	১১ জন	১০.৫০	০.০০	১০.৫০
৮.	Rest and recreation allowance	১১ জন	১.০০	০.০০	১.০০
৯.	Refreshment allowance	১১ জন	১.০০	০.০০	১.০০
১০.	Bangla new year allowance	১১ জন	৫.৫০	০.০০	৫.৫০
১১.	Other allowances	১১ জন	১০.০০	০.০০	১০.০০
	<b>Administrative Expenses</b>	-	-	-	-
১২.	Entertainment Expenses	খোক	০.০০	১০০.০০	১০০.০০
১৩.	Transport Hiring (Vehicle Rent)	৮ টি	০.০০	১৭০৭.৬০	১৭০৭.৬০
১৪.	<b>Seminar and Conference</b>	-	-	-	-
	i) Seminar and conference	খোক	০.০০	২০০.০০	২০০.০০
	ii) Investment promotion (Foreign)	খোক	০.০০	৬৯০.৫০	৬৯০.৫০
১৫.	Electricity	খোক	১৫০.০০	০.০০	১৫০.০০
১৬.	Water	খোক	৫০.০০	০.০০	৫০.০০
১৭.	Telex/Fax/Internet	খোক	৫০.০০	০.০০	৫০.০০
১৮.	Postage	খোক	২০.০০	০.০০	২০.০০
১৯.	Telephone	খোক	২০.০০	০.০০	২০.০০
২০.	Machine and Equipment Rental	খোক	০.০০	১০০.০০	১০০.০০
২১.	Advertising Expenses	খোক	০.০০	৪০০.০০	৪০০.০০
২২.	Books and Periodicals	খোক	৫০.০০	০.০০	৫০.০০
২৩.	Publication	খোক	০.০০	১০০.০০	১০০.০০
২৪.	Office Building Rental	৬০ মাস	০.০০	৯০০.০০	৯০০.০০
২৫.	Conveyance Expenditure	খোক	৫০.০০	০.০০	৫০.০০
২৬.	Outsourcing (Project Employee)	৯২ জন	০.০০	১৪৬৪.০২	১৪৬৪.০২
২৭.	Venue Rental	খোক	০.০০	২০১.০০	২০১.০০
২৮.	<b>Training</b>	-	-	-	-

ক্রম	অংশের নাম	সংখ্যা/পরিমাণ	জিভরি	প্রকল্প ঋণ	মোট ব্যয়
	i) Foreign Training & study tour	থোক	০.০০	৬০০.০০	৬০০.০০
	ii) Local Training	থোক	০.০০	২০০.০০	২০০.০০
	iii) Voucher Program	থোক	০.০০	১২৭৫০.০০	১২৭৫০.০০
২৯.	Petrol, Oil & Lubricant (Speed Boat- 1 & Motorcycle-27)	২৮ টি	৪৯৬.২০	০.০০	৪৯৬.২০
৩০.	Travel Expenses	থোক	১২০.০০	০.০০	১২০.০০
৩১.	Medical & Surgical Supplies	থোক	৫০.০০	০.০০	৫০.০০
৩২.	Sanitation materials	থোক	৫০.০০	০.০০	৫০.০০
৩৩.	Medicin & Vaccines	থোক	৫০.০০	০.০০	৫০.০০
৩৪.	Computer consumables	থোক	৫০.০০	০.০০	৫০.০০
৩৫.	Printing & Binding	থোক	০.০০	১০০.০০	১০০.০০
৩৬.	Stamps & Seals	থোক	২০.০০	০.০০	২০.০০
৩৭.	Other Stationary	থোক	২৫০.০০	০.০০	২৫০.০০
৩৮.	Map	থোক	৫০.০০	০.০০	৫০.০০
৩৯.	Consultancy	-	-	-	-
	i) Consultancy (Firm)	২৬ আইটেম	০.০০	৩৩১৭৫.৫০	৩৩১৭৫.৫০
	ii) Individual Consultants	৪৮ জন	০.০০	৭৫৯৪.২০	৭৫৯৪.২০
	<b>Repair &amp; Maintenance</b>	-	-	-	-
৪০.	Motor Vehicles (Motorcycle)	২৭ টি	১০.০০	০.০০	১০.০০
৪১.	Computer	থোক	৫০.০০	০.০০	৫০.০০
৪২.	Water vehicle	থোক	২০.০০	০.০০	২০.০০
৪৩.	Transport maintenance expense	৪ টি	১২০.০০	০.০০	১২০.০০
	<b>Grant Program</b>	-	-	-	-
৪৪.	Grant Program	থোক	০.০০	১৭০০০.০০	১৭০০০.০০
	<b>Custom Duty &amp; VAT</b>	-	-	-	-
৪৫.	Custom Duty	থোক	৮০০০.০০	০.০০	৮০০০.০০
৪৬.	VAT and others	থোক	২০০০.০০	০.০০	২০০০.০০
	<b>উপ-মোট (রাজস্ব ব্যয়) (ক):</b>	-	১২৩১৮.২০	৭৭২৮২.৮২	৮৯৬০১.০২
	<b>(খ) মূলধন ব্যয় :</b>	-	-	-	-
	-	-	-	-	-
৪৭.	Motor Vehicles (Motorcycle)	২৭টি	৩৮.০০	০.০০	৩৮.০০
৪৮.	Speed Boat	১ টি	৪০.০০	০.০০	৪০.০০
৪৯.	ICT Equipment	-	-	-	-
	i) Video Conference system	থোক	০.০০	১০০.০০	১০০.০০
	ii) Multimedia Projectors	১টি	০.০০	৩৫.০০	৩৫.০০
	iii) Smart City Equipment: BSMSN (Hardware, software equipment's)	থোক	০.০০	৪০০.০০	৪০০.০০
৫০.	Computer Accessories: Desktop-60, Laptop-35, Tab-10, Printer-60, Photocopier-10, and Scanner-15	১৯০টি	০.০০	৩৫০.০০	৩৫০.০০
৫১.	Camera and accessories	থোক	০.০০	৫.০০	৫.০০
৫২.	Testing Laboratories with supply & installation	থোক	০.০০	৪৫০.০০	৪৫০.০০
৫৩.	Office Equipments	থোক	০.০০	৩৩.০০	৩৩.০০
৫৪.	Furniture and Fixtures	থোক	০.০০	৪১৬.০০	৪১৬.০০
	<b>Software</b>	-	-	-	-
৫৫.	Computer Softwar	থোক	০.০০	১০০.০০	১০০.০০
৫৬.	Financial Management System (Database)	থোক	০.০০	১০০.০০	১০০.০০

ক্রম	অংশের নাম	সংখ্যা/পরিমাণ	ক্রিওরি	প্রকল্প খণ	মোট ব্যয়
৫৭.	Non-residential Building		০.০০		
	i) Resilient Site upgrade and Building Development	১.২৭ লক্ষ বর্গ মি.	০.০০	৫০০০.০০	৫০০০.০০
	ii) Construction of Investors Club	৬০০ বর্গ মি.	০.০০	৩০০০.০০	৩০০০.০০
	iii) Furnished OSS Centre for BSMSN	প্রোক	০.০০	১০০০.০০	১০০০.০০
	iv) Mosque	১৫৮০ বর্গ মি.	০.০০	২০০০.০০	২০০০.০০
	v) Emergency Response Centre	৩০০০ বর্গ মি.	০.০০	২৫০০.০০	২৫০০.০০
	vi) Construction of Skills Development Center	১০২৫*৩ বর্গ মি.	১৫০০.০০	০.০০	১৫০০.০০
	vii) Construction of Child Care & Emergency Health Care Center	১০২৫*৩ বর্গ মি.	১৫০০.০০	০.০০	১৫০০.০০
৫৮.	Road Network	৩০ কি.মি.	০.০০	৪০৬০০.০০	৪০৬০০.০০
৫৯.	Drainage structures (Storm Water)	৩১ কি.মি.	০.০০	২১২০০.০০	২১২০০.০০
৬০.	Sanitation & Water Supply (Sower Network & Water Supply Network)	৪০ কি.মি.	০.০০	১৮৭০০.০০	১৮৭০০.০০
৬১.	Excavation (Channel Lining)	১০ কি.মি.	০.০০	৫০৮৫.০০	৫০৮৫.০০
৬২.	Telecommunication systems	২৫ কি.মি.	০.০০	১৭০০.০০	১৭০০.০০
৬৩.	Power Network	২০ (33 kva) কি.মি., 13.5 (11 kva) কি.মি.	০.০০	১৬৫০০.০০	১৬৫০০.০০
৬৪.	Gas pipeline network	২৮ কি.মি.	০.০০	১৭০০০.০০	১৭০০০.০০
৬৫.	<b>Other Building &amp; Structure</b>	-	-	-	-
	i) Security and Support Amenities	৪০ কি.মি.	০.০০	১২৭৫০.০০	১২৭৫০.০০
	ii) Central Effluent Treatment Plant (PPP)	৪৮ এমএলডি	০.০০	২০৪০০.০০	২০৪০০.০০
	iii) Desalination plant (PPP)	৩০ এমএলডি	০.০০	৩৮২৫০.০০	৩৮২৫০.০০
	iv) Steam network (PPP)	১২.১৪ কি.মি.	০.০০	৬৮০০.০০	৬৮০০.০০
	v) Solid Waste Management (PPP)	১০০ একর	০.০০	১২৭৫০.০০	১২৭৫০.০০
	vi) Biogas plant, waste sorting and material recovery facility (PPP)	৪০ একর	০.০০	৬৮০০.০০	৬৮০০.০০
	vii) Rooftop and floating solar (PPP)	১০+৬০ রোপা ওয়াট	০.০০	৫৯৫০০.০০	৫৯৫০০.০০
	viii) Environmental Lab & Monitoring System	২৮০ বর্গ মি.	০.০০	৭৯০.০০	৭৯০.০০
৬৬.	Land Development	১০০ লক্ষ ঘন মি.	০.০০	২৫৫০০.০০	২৫৫০০.০০
	উপ-মোট (মূলধন ব্যয়) (খ):	-	৩০৭৮.০০০	৩১৯৪৬৪.০০	৩২২৫৪২.০০
(গ)	ফিজিক্যাল কনট্রিনেজেন্সি	২%	৬৪৫১.০০	০.০০	৬৪৫১.০০
(ঘ)	গ্রাইস কনট্রিনেজেন্সি	৫%	১৬১২৭.০০	০.০০	১৬১২৭.০০
	সর্বমোট (ক+খ+গ+ঘ):	-	৩৭৯৭৪.২০	৩১৬৭৪৬.৮২	৪০৪৭২১.০২

  
 (আনিসপুর রহমান)  
 পরিচালক-১

ফোন: ৫৫০২৯৪২১

ই-মেইল: dir-1@pmo.gov.bd

বিতরণ কার্যার্থে:

(জেষ্ঠাতার ক্রমানুসারে নয়)

১. সদস্য (সিনিয়র সচিব), সাধারণ অর্থনীতি বিভাগ, পরিকল্পনা কমিশন, শের-ই বাংলা নগর, ঢাকা।
২. সিনিয়র সচিব, অর্থ বিভাগ, বাংলাদেশ সচিবালয়, ঢাকা।
৩. সচিব, জনপ্রশাসন মন্ত্রণালয়, বাংলাদেশ সচিবালয়, ঢাকা।
৪. সদস্য (সচিব), কার্যক্রম বিভাগ, পরিকল্পনা কমিশন, শের-ই বাংলা নগর, ঢাকা।
৫. সচিব, অর্থনৈতিক সম্পর্ক বিভাগ, শের-ই বাংলা নগর, ঢাকা।
৬. সচিব, বাস্তবায়ন পরিবীক্ষণ ও মূল্যায়ন বিভাগ, শের-ই বাংলা নগর, ঢাকা।
৭. সদস্য, শিল্প ও শক্তি বিভাগ, পরিকল্পনা কমিশন, শের-ই বাংলা নগর, ঢাকা।
৮. প্রধান, শিল্প ও শক্তি বিভাগ, পরিকল্পনা কমিশন, শের-ই বাংলা নগর, ঢাকা।
৯. নির্বাহী চেয়ারম্যান, বাংলাদেশ অর্থনৈতিক অঞ্চল কর্তৃপক্ষ (বেজা), আব্দুল মোমেন বিজনেস ডিস্ট্রিক্ট (লেভেল-২২), ১১১ বীর উত্তম সি আর দত্ত রোড, ঢাকা-১২০৫।
১০. চীফ একাউন্টস এ্যান্ড ফিন্যান্স অফিসার, প্রধানমন্ত্রীর কার্যালয়, হিসাব ভবন, সেগুনবাগিচা, ঢাকা।
১১. বাজেট অফিসার, প্রধানমন্ত্রীর কার্যালয়, তেজগাঁও, ঢাকা।
১২. সিনিয়র সিস্টেম এনালিস্ট, পরিকল্পনা বিভাগ, ঢাকা।

অফিস কপি/মাণ্ডার কপি

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একই অধিবেশন ও সারকে স্থলাভিষিক্ত  
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার  
পরিচালনা বিভাগ  
এনইসি-একমেক ও সযশয় অনুবিভাগ  
একমেক শাখা-১  
শেরে বাংলা নগর, ঢাকা।

অডি অফিসি  
বিশেষ বাহক মারফত

স্মারক : ২০.০০.০০০০.৪১১.১৪.০১৬.২১-৫৩

তারিখ: ১১ ফাল্গুন ১৪২৭ বঙ্গাব্দ  
২৪ কেবুল্যারি ২০২১ খ্রি:

বিষয় : একমেক কর্তৃক অনুমোদিত “বঙ্গবন্ধু শেখ মুজিব শিল্পনগর (বিএসএমএসএন) উন্নয়ন” শীর্ষক প্রকল্প অনুমোদন।

সূত্র : একমেক সভার কার্যবিবরণী নম্বর- ২০.০০.০০০০.৪১২.০৬.০৩.২১-২০, তারিখ: ১৫.০২.২০২১

উপর্যুক্ত বিষয় ও সূত্রের পরিপ্রেক্ষিতে নির্দেশক্রমে জানানো যাচ্ছে যে প্রধানমন্ত্রীর কার্যালয়ের আওতায় বাংলাদেশ অর্থনৈতিক  
প্রকল্প কর্তৃপক্ষ (বেজা) কর্তৃক বাস্তবায়নের জন্য প্রত্যাহিত “বঙ্গবন্ধু শেখ মুজিব শিল্পনগর (বিএসএমএসএন) উন্নয়ন” শীর্ষক প্রকল্পটি  
০৩.০২.২০২১ তারিখে অনুষ্ঠিত একমেক সভায় অনুমোদিত হয়। প্রকল্পটি মোট ৪৩৪৭.২২০২ কোটি টাকা (চার হাজার তিনশত সাতচল্লিশ  
কোটি একশ গুণ দুই হাজার) [তন্মধ্যে জিওবি ৩৭৯.৭৪২০ কোটি টাকা এবং প্রকল্প ঋণ (বিশ্বব্যাংক) ৩৯৬৭.৪৬৮২ কোটি টাকা] অর্থায়নে  
বাস্তবায়িত হবে।

২। প্রকল্পটির অনুমোদিত মেসারসকাল ০১ জানুয়ারি ২০২১ হতে ৩১ ডিসেম্বর ২০২৫।

৩। প্রকল্পটির অনুমোদিত অংশ ও অর্থনৈতিক বিআইএন নিম্নরূপ :

(গুণক টাকায়)

ক্র:নং	অংশের নাম	সংখ্যা/পরিমাপ	জিওবি	প্রকল্প ঋণ	মোট ব্যয়
	(ক) রাজস্ব ব্যয় :				
	Basic Pay & Allowances				
১.	Basic Pay (Officers)	১১ জন	৩১৩.৫০	০.০০	৩১৩.৫০
২.	Education allowance	১১ জন	৬.০০	০.০০	৬.০০
৩.	Housing rent allowance	১১ জন	১৫৭.০০	০.০০	১৫৭.০০
৪.	Medical allowance	১১ জন	৯.০০	০.০০	৯.০০
৫.	Mobile/cellphone allowance	১১ জন	৯.০০	০.০০	৯.০০
৬.	Residential telephone encashment allowance	১১ জন	১৮.০০	০.০০	১৮.০০
৭.	Festival allowance	১১ জন	৫২.৫০	০.০০	৫২.৫০
৮.	Rest and recreation allowance	১১ জন	১০.৫০	০.০০	১০.৫০
৯.	Refreshment allowance	১১ জন	২.০০	০.০০	২.০০
১০.	Bangla new year allowance	১১ জন	৫.৫০	০.০০	৫.৫০
১১.	Other allowances	১১ জন	১০.০০	০.০০	১০.০০
	Administrative Expenses				
১২.	Entertainment Expenses	খোক	০.০০	১০০.০০	১০০.০০
১৩.	Transport Hiring (Vehicle Rent)	৮ টি	০.০০	১৭০৭.৬০	১৭০৭.৬০
১৪.	Seminar and Conference				
	i) Seminar and conference	খোক	০.০০	২০০.০০	২০০.০০
	ii) Investment promotion (Foreign)	খোক	০.০০	৬৯০.৫০	৬৯০.৫০
১৫.	Electricity	খোক	১৫০.০০	০.০০	১৫০.০০
১৬.	Water	খোক	৫০.০০	০.০০	৫০.০০
১৭.	Telex/Fax/Internet	খোক	৫০.০০	০.০০	৫০.০০
১৮.	Postage	খোক	২০.০০	০.০০	২০.০০
১৯.	Telephone	খোক	২০.০০	০.০০	২০.০০
২০.	Machine and Equipment Rental	খোক	০.০০	১০০.০০	১০০.০০
২১.	Advertising Expenses	খোক	০.০০	৪০০.০০	৪০০.০০
২২.	Books and Periodicals	খোক	৫০.০০	০.০০	৫০.০০
২৩.	Publication	খোক	০.০০	১০০.০০	১০০.০০
২৪.	Office Building Rental	৬০ মাস	০.০০	৯০০.০০	৯০০.০০
২৫.	Conveyance Expenditure	খোক	৫০.০০	০.০০	৫০.০০
২৬.	Outsourcing (Project Employee)	৯২ জন	০.০০	১৪৬৪.০২	১৪৬৪.০২

গণ:১/৯



ক্র.সং	অফিসের নাম	সংখ্যা/ পরিমাণ	মিটারি	প্রকার ধরণ	মোট ব্যয়
২৭.	Venue Rental	১০ক	০.০০	২০১.০০	২০১.০০
২৮.	Training				
	i) Foreign Training & study tour	১০ক	০.০০	৬০০.০০	৬০০.০০
	ii) Local Training	১০ক	০.০০	২০০.০০	২০০.০০
	iii) Voucher Program	১০ক	০.০০	১২৭৫০.০০	১২৭৫০.০০
২৯.	Petrol, Oil & Lubricant (Speed Boat- 1 & Motorcycle-27)	২৮ টি	৪৯৬.২০	০.০০	৪৯৬.২০
৩০.	Travel Expenses	১০ক	১২০.০০	০.০০	১২০.০০
৩১.	Medical & Surgical Supplies	১০ক	৫০.০০	০.০০	৫০.০০
৩২.	Sanitation materials	১০ক	৫০.০০	০.০০	৫০.০০
৩৩.	Medicin & Vaccines	১০ক	৫০.০০	০.০০	৫০.০০
৩৪.	Computer consumables	১০ক	৫০.০০	০.০০	৫০.০০
৩৫.	Printing & Binding	১০ক	০.০০	১০০.০০	১০০.০০
৩৬.	Stamps & Seals	১০ক	২০.০০	০.০০	২০.০০
৩৭.	Other Stationary	১০ক	২৫০.০০	০.০০	২৫০.০০
৩৮.	Map	১০ক	৫০.০০	০.০০	৫০.০০
৩৯.	Consultancy				
	i) Consultancy (Firm)	২৬ আর্টিকেল	০.০০	৩৩১৭৫.৫০	৩৩১৭৫.৫০
	ii) Individual Consultants	৪৮ জন	০.০০	৭৫৯৪.২০	৭৫৯৪.২০
	Repair & Maintenance				
৪০.	Motor Vehicles (Motorcycle)	২৭ টি	১০.০০	০.০০	১০.০০
৪১.	Computer	১০ক	৫০.০০	০.০০	৫০.০০
৪২.	Water vehicle	১০ক	২০.০০	০.০০	২০.০০
৪৩.	Transport maintenance expense	৪ টি	১২০.০০	০.০০	১২০.০০
৪৪.	Grant Program	১০ক	০.০০	১৭০০০.০০	১৭০০০.০০
	Custom Duty & VAT				
৪৫.	Custom Duty	১০ক	৮০০০.০০	০.০০	৮০০০.০০
৪৬.	VAT and others	১০ক	২০০০.০০	০.০০	২০০০.০০
	টাকা-মোট (সাক্ষর ব্যয়) (ক):	-	১২৩১৮.২০	৭৭২৮২.৮২	৮৯৬০১.০২
(খ) মূল্যবান বস্তু :					
	Goods				
৪৭.	Motor Vehicles (Motorcycle)	২৭ টি	৩৮.০০	০.০০	৩৮.০০
৪৮.	Speed Boat	১ টি	৪০.০০	০.০০	৪০.০০
৪৯.	ICT Equipment				
	i) Video Conference system	১০ক	০.০০	১০০.০০	১০০.০০
	ii) Multimedia Projectors	১ টি	০.০০	৩৫.০০	৩৫.০০
	iii) Smart City Equipment: BSM/MSN (Hardware, software equipment's)	১০ক	০.০০	৪০০.০০	৪০০.০০
৫০.	Computer Accessories: Desktop-60, Laptop-35, Tab-10, Printer-60, Photocopier-10, and Scanner-15	১৯০ টি	০.০০	৩৫০.০০	৩৫০.০০
৫১.	Camera and accessories	১০ক	০.০০	৫.০০	৫.০০
৫২.	Testing Laboratories with supply & installation	১০ক	০.০০	৪৫০.০০	৪৫০.০০
৫৩.	Office Equipments	১০ক	০.০০	৩৩.০০	৩৩.০০
৫৪.	Furniture and Fixtures	১০ক	০.০০	৪১৬.০০	৪১৬.০০
	Software				
৫৫.	Computer Softwar	১০ক	০.০০	১০০.০০	১০০.০০
৫৬.	Financial Management System (Database)	১০ক	০.০০	১০০.০০	১০০.০০

পৃষ্ঠা-১/৪

স্বাক্ষর



ক্র.সং	কাজের নাম	সরকারি পরিমাণ	ক্রিডবি	টেকসয় অর্থ	মোট ব্যয়
৬৭.	Non-residential Building		০.০০		
	i) Resilient Site upgrade and Building Development	১.২৭ লক্ষ বর্গ মি.	০.০০	৫০০০.০০	৫০০০.০০
	ii) Construction of Investors Club	৬০০ বর্গ মি.	০.০০	৩০০০.০০	৩০০০.০০
	iii) Furnished OSS Centre for BSMSN	৬০০ বর্গ মি.	০.০০	১০০০.০০	১০০০.০০
	iv) Mosque	১৫৮০ বর্গ মি.	০.০০	২০০০.০০	২০০০.০০
	v) Emergency Response Centre	৩০০০ বর্গ মি.	০.০০	২৫০০.০০	২৫০০.০০
	vi) Construction of Skills Development Center	১০২৫*৩ বর্গ মি.	১৫০০.০০	০.০০	১৫০০.০০
	vii) Construction of Child Care & Emergency Health Care Center	১০২৫*৩ বর্গ মি.	১৫০০.০০	০.০০	১৫০০.০০
৬৮.	Road Network	৩০ কি.মি.	০.০০	৪০৬০০.০০	৪০৬০০.০০
৬৯.	Drainage structures (Storm Water)	৩১ কি.মি.	০.০০	১১২০০.০০	১১২০০.০০
৭০.	Sanitation & Water Supply (Sewer Network & Water Supply Network)	৪০ কি.মি.	০.০০	১৮৭০০.০০	১৮৭০০.০০
৭১.	Excavation (Channel Lining)	১০ কি.মি.	০.০০	৫০৮৫.০০	৫০৮৫.০০
৭২.	Telecommunication systems	২৫ কি.মি.	০.০০	১৭০০.০০	১৭০০.০০
৭৩.	Power Network	২০ (33 kva) কি.মি., 13.5 (11 kva) কি.মি.	০.০০	১৬১৫০.০০	১৬১৫০.০০
৭৪.	Gas pipeline network	১৮ কি.মি.	০.০০	১৭০০০.০০	১৭০০০.০০
৭৫.	Other Building & Structure				
	i) Security and Support Amenities	৪০ কি.মি.	০.০০	১২৭৫০.০০	১২৭৫০.০০
	ii) Central Effluent Treatment Plant (PPP)	৪৮ এমএলডি	০.০০	২০৪০০.০০	২০৪০০.০০
	iii) Desalination plant (PPP)	৩০ এমএলডি	০.০০	৩৮২৫০.০০	৩৮২৫০.০০
	iv) Steam network (PPP)	১২.১৪ কি.মি.	০.০০	৬৮০০.০০	৬৮০০.০০
	v) Solid Waste Management (PPP)	১০০ একর	০.০০	১২৭৫০.০০	১২৭৫০.০০
	vi) Biogas plant, waste sorting and material recovery facility (PPP)	৪০ একর	০.০০	৬৮০০.০০	৬৮০০.০০
	vii) Rooftop and floating solar (PPP)	১০+৬০ মেগা ওয়াট	০.০০	৫৯৫০০.০০	৫৯৫০০.০০
	viii) Environmental Lab & Monitoring System	১৮০ বর্গ মি.	০.০০	৭৯০.০০	৭৯০.০০
৬৬.	Land Development	১০০ একর ঘন মি.	০.০০	২৫৫০০.০০	২৫৫০০.০০
	উপ-মোট (মূলধন ব্যয়) (খ):	-	৩০৭৮.০০০	৩১৯৪৬৪.০০	৩২২৫৪২.০০
(গ)	স্বত্বিকাল কন্ট্রোলিং	২%	৬৪৫১.০০	০.০০	৬৪৫১.০০
(ঘ)	গ্রাইন কন্ট্রোলিং	৫%	১৬১২৭.০০	০.০০	১৬১২৭.০০
	সর্বমোট (ক+খ+গ+ঘ):	-	৩৭৯৭৪.২০	৩৯৬৪৪৬.৮২	৪৩৪৭২১.০২

৪১ অনুমোদিত ডিপিপি'র প্রত্যেক পাতায় স্বাক্ষরিত) এক প্রত্ন এডভান্সে পরবর্তী ব্যবস্থা গ্রহণের জন্য সংযোজিত হল।

মুখ্য সচিব  
প্রাধান্যসূত্র কার্যালয়  
তেজগাঁও, ঢাকা।

শ্র.০৪

(নিশাজ জাহান)  
সিনিয়র সহকারী সচিব  
ফোন: ৯১৮০৮৮৩

১২.০২.২০২০

স্মারক : ২০.০০.০০০০.৪২১.১৪.০১৬.১১-৫৩


তারিখ: ১১ মার্চ ১৪২৭ বঙ্গাব্দ  
২৪ ফেব্রুয়ারি ২০১১ খ্রি:

সদয় অবপণ্ডিত ও প্রয়োজনীয় ব্যবস্থা গ্রহণের জন্য অনুরোধ (জ্যেষ্ঠতার ক্রমানুসারে নয়) :

- ১। সদস্য (সিনিয়র সচিব), সাধারণ অধিনিতি বিভাগ, পরিকল্পনা কমিশন, শের-ই বাংলা নগর, ঢাকা।
- ২। সিনিয়র সচিব, অর্থ বিভাগ, বাংলাদেশ সচিবালয়, ঢাকা।
- ৩। সচিব, জনপ্রশাসন মন্ত্রণালয়, বাংলাদেশ সচিবালয়, ঢাকা।
- ৪। সদস্য (সচিব), কার্যক্রম বিভাগ, পরিকল্পনা কমিশন, শের-ই বাংলা নগর, ঢাকা।
- ৫। সচিব, অর্থনৈতিক সম্পর্ক বিভাগ, শের-ই বাংলা নগর, ঢাকা।
- ৬। সচিব, বাস্তবায়ন পরিবীক্ষণ ও মূল্যায়ন বিভাগ, শের-ই বাংলা নগর, ঢাকা।
- ৭। সদস্য, শিল্প ও শক্তি বিভাগ, পরিকল্পনা কমিশন, শের-ই বাংলা নগর, ঢাকা।
- ৮। প্রধান, শিল্প ও শক্তি বিভাগ, পরিকল্পনা কমিশন, শের-ই বাংলা নগর, ঢাকা।
- ৯। নির্বাহী চেয়ারম্যান, বাংলাদেশ অর্থনৈতিক অঞ্চল কর্তৃপক্ষ (বেঙ্গল), আব্দুল মোমেন বিজনেস ডিস্ট্রিক্ট (জেডএল-১২), ১১১ ধীর উত্তম বি. আর দত্ত রোড, ঢাকা-১২০৫।
- ১০। চিফ একাউন্টস এ্যান্ড ফিন্যান্স অফিসার, প্রধানমন্ত্রীর কার্যালয়, হিসাব ভবন, সেগুনবাগিচা, ঢাকা।
- ১১। সিনিয়র সিস্টেম এনালিস্ট, পরিকল্পনা বিভাগ, ঢাকা (পরিকল্পনা বিভাগের ওয়ের পেইজে প্রকাশের অনুরোধ করা হল)।

সদয় অবপণ্ডিতর জন্য অনুরোধ:

- ১। মাননীয় মন্ত্রীর একান্ত সচিব, পরিকল্পনা মন্ত্রণালয়, শের-ই বাংলা নগর, ঢাকা।
- ২। সচিব মহোদয়ের একান্ত সচিব, পরিকল্পনা বিভাগ, শের-ই বাংলা নগর, ঢাকা।
- ৩। যুগ্মপ্রধান মহোদয়ের ব্যক্তিগত কর্মকর্তা, এনইসি-একসেক ও সদস্য অনুরোধ, পরিকল্পনা বিভাগ, শের-ই বাংলা নগর, ঢাকা।

  
28.02.2011  
(নিশান্ত আহান)  
সিনিয়র সচিব  
ফোন: ৯১৮০৮৮৩

পৃষ্ঠা-৪/৪

## প্রত্যয়ন

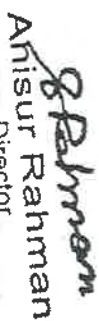
(Certification)

প্রত্যয়ন করা যাচ্ছে যে, অতোচ্য প্রকল্প হুকে প্রদত্ত প্রকল্পের মোট প্রাক্কলিত ব্যয়, ব্যয়ের অংশভিত্তিক বিভাজন, আর্থিক ও বাস্তব (Physical) লক্ষ্যমাত্রার বিষয়াদি, এসংক্রান্ত সকল তথ্য ও ঊর্নাত পরীক্ষা নিরীক্ষা করা হয়েছে এবং সঠিকভাবে নির্ধারণ করা হয়েছে। প্রকল্পটির মূল লক্ষ্য ও উদ্দেশ্য এবং ফলাফল সম্পর্কিত বিষয়াদি সরকারের ৭ম পঞ্চবার্ষিক পরিকল্পনা, এমটিবিএফ (MTBF), জাতীয় অগ্রাধিকার, উন্নয়নের মূলনীতি, পরিকল্পনা এবং সম্পদ পরিস্থিতির সঙ্গে সংগতিপূর্ণ আছে।

(It is being certified that the total estimated expenditure of the project, item-wise expenditure, financial and physical targets, and all the corresponding data have been examined and properly determined. The main objective of the project and the matter of impacts are related to the 7th Five Year Plan, MTBF, National Priority, Principles of Development, Planning and Resources of the Government.)

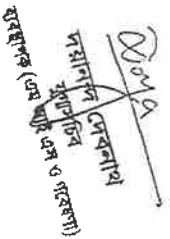
  
Md. Anisur Rahman

ড. আব্বাস কায়কভাদি  
প্রধানমন্ত্রীর মুখা সচিব  
প্রধানমন্ত্রীর কার্যালয়  
তেজগাঁও, ঢাকা।

  
Anisur Rahman  
Director

Prime Minister's Office  
Govt. of the People's Republic of Bangladesh

স্বাধীনতা সড়ক  
তেজগাঁও (ডঃ কারি)  
উপ-কার্যালয় (ডঃ কারি)  
নিম্ন ও শান্তি বিভাগ  
পরিকল্পনা কমিশন, পরিকল্পনা সচিবালয়

  
দায়িত্ব প্রকল্প  
স্বাধীনতা সড়ক  
তেজগাঁও (ডঃ কারি)

(i)





MTBF Information

1. Ministry/Division : Prime Minister's Office
2. Name of the Project : Bangabandhu Sheikh Mujib Shilpa Nagar  
(BSMSN) Development Project
3. MTBF Projection for 3 (three) years :  
(Million Taka)

2020-21	2021-22	2022-23
38390.50	41730.80	45486.50
4. MTBF allocation in FY 2020-21 : 38390.50 Million Taka
5. MTBF allocation for Development Expenditure in FY 2020-21 : 32171.80 Million Taka
6. Number of ongoing Project(s) : 15 nos.
7. ADP allocation for ongoing project(s) in FY 2020-21 : 31171.80 Million Taka
8. Number of Project(s) to be completed in FY 2020-21 : 5 nos.
9. Required ADP allocation for targeted project(s) to be completed in FY 2020-21 : Not Applicable
10. Remaining ADP allocation in FY 2020-21 : 1000.00 Million Taka
11. Number of Project(s) placed in Planning Commission for approval and required ADP allocation for them in FY 2020-21 : 6 nos. (17351.70 Million Taka)
12. Required ADP allocation for proposed project in FY 2020-21 : 294.55 Million Taka
13. Is there any remaining allocation at the development budget of FY 2020-21 under MTBF that is required for the proposed Project? : Not Applicable
14. Is the Project listed in ADP 2020-21? : Yes



Signature of the Concerned Official of  
Ministry/Division

*Anisur*  
Anisur Rahman  
Director  
Prime Minister's Office  
Govt. of the People's Republic of Bangladesh


ড. আব্দুল কাইয়ুম  
স্বরাষ্ট্র সচিব  
প্রধানমন্ত্রীর কার্যালয়  
গণসংজ্ঞাতন্ত্রী বাংলাদেশ সরকার  
ঢাকা ১

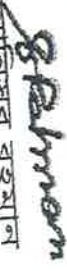


**"Bangabandhu Sheikh Mujib Shilpa Nagar (BSMSN) Development Project".**  
**শীর্ষক প্রকল্পের উপর গত ১২/১১/২০২০ খ্রি: তারিখে অনুষ্ঠিত 'প্রকল্প মূল্যায়ন কমিটি (২য় পিইসি)' সভার**  
**সিদ্ধান্তের প্রতিলিপন**

ক্র. নং	পিইসি সভার সিদ্ধান্ত	বেছা কর্তৃক প্রতিলিপন
১।	<p>প্রকল্পের আওতায় ৮ (আট) টি যানবাহন ভাড়ায় সংগ্রহ এবং প্রয়োজনীয় ছালাসীসহ ২৭টি মোটরসাইকেল ক্রয়ের সংস্থান রেখে ডিপি পুনর্গঠন করতে হবে।</p>	<p>পিইসি সভার সুপারিশ মোতাবেক প্রকল্পে ৮ টি যানবাহন ভাড়া সংস্থান রাখা হয়েছে এবং সে মোতাবেক প্রয়োজনীয় ছালাসী, ভাড়া ও চালকের খরচ ব্যবদ এ খাতে খোট ব্যয় প্রাক্কলন করা হয়েছে ১৭০৭.৬০ লক্ষ টাকা ডিপিপি অনুচ্ছেদ নং-৯.০)। এছাড়া প্রকল্পে ২৭টি মোটরসাইকেল এবং ১টি স্পিডবোর্ড ক্রয়ের সংস্থান রাখা আছে। অর্থ বিভাগের জনবল নির্ধারণ সংক্রান্ত আন্তঃমন্ত্রণালয় কমিটির সুপারিশ মোতাবেক প্রকল্পে ১ জন স্পিডবোর্ড চালক নিয়োগের সংস্থান রয়েছে (সংযুক্তি-৮)। সে অনুযায়ী ডিপিপি-তে ২৭টি মোটরসাইকেল ও ১টি স্পিডবোর্ডের জন্য প্রয়োজনীয় ছালাসী খরচ ব্যবদ মোট ৪৯৬.২০ লক্ষ টাকা বরাদ্দ রাখা হয়েছে। যানবাহন ভাড়া এবং মোটরসাইকেল ও স্পিডবোর্ড এর ছালাসী সংক্রান্ত বিস্তারিত ব্যয় বিভাজন ডিপিপি-তে সংযোজন করা হয়েছে (সংযুক্তি-২৮)।</p>
২।	<p>Investment Promotion (Foreign) এবং Foreign Training &amp; Study Tour ও Local Training খাতসমূহের সম্ভাব্য বিষয়/কার্যক্রম, দেশ/অঞ্চল এবং অংশগ্রহণকারী প্রতিষ্ঠান/ব্যক্তির সংখ্যা ও বিবরণসহ বিস্তারিত বিভাজন ডিপিপিতে প্রদান করতে হবে।</p>	<p>সভার সুপারিশ মোতাবেক প্রকল্পের আওতায় গৃহীত Investment Promotion (Foreign), Foreign Training &amp; Study Tour এবং Local Training খাত ৩টির বিস্তারিত ব্যয় বিভাজনসহ সম্ভাব্য বিষয়/কার্যক্রম, দেশ/অঞ্চল এবং অংশগ্রহণকারী প্রতিষ্ঠান/ব্যক্তির সংখ্যা উল্লেখ সংক্রান্ত বর্ণনা ডিপিপি-তে সংযোজন করা হয়েছে (সংযুক্তি-২৯)।</p>
৩।	<p>ক্রয় সংক্রান্ত বিধি-বিধান অনুসরণপূর্বক ক্রয় পরিকল্পনা যথাযথভাবে প্রণয়ন করতে হবে।</p>	<p>প্রকল্পের ক্রয়-পরিকল্পনা পুনরায় পর্যালোচনাপূর্বক বিধি-বিধান অনুসারে তা চূড়ান্ত করা হয়েছে (সংযোজনী-৩)।</p>
৪।	<p>অর্থ বিভাগ কর্তৃক অনুমোদিত কাটাগরিভিত্তিক আউটসোর্সিং সেবাগ্রহণ খাতের বিস্তারিত বিভাজন প্রদান করতে হবে। Venue Rental খাতের ব্যয় হ্রাস করে যৌক্তিক পর্যায়ে নির্ধারণ করতে হবে এবং এর স্কেসপাট ডিপিপিতে উল্লেখ করতে হবে।</p>	<p>অর্থ বিভাগের জনবল নির্ধারণ সংক্রান্ত আন্তঃমন্ত্রণালয় কমিটির সুপারিশ মোতাবেক কাটাগরিভিত্তিক আউটসোর্সিং সেবাগ্রহণ খাতের মোট ৯২ জন কর্মকর্তা/কর্মচারির বিপরীতে প্রাক্কলিত ব্যয়ের বিস্তারিত বিভাজন ডিপিপি-তে সংযোজন করা হয়েছে (সংযুক্তি-৮ ও সংযুক্তি-৩০)। এছাড়া Venue Rental খাতের ব্যয় হ্রাস করে প্রস্তাবিত ৪১৪.০০ লক্ষ টাকার স্থলে ২০১.০০ লক্ষ টাকা নির্ধারণ করা হয়েছে এবং স্কেসপাট বর্ণনাসহ ব্যয়ের বিস্তারিত বিভাজন ডিপিপি-তে সংযোজন করা হয়েছে (সংযুক্তি-৩১)।</p>

(ii)

  
 Md. Faruk  
 মহাপরিচালক  
 বাংলাদেশ  
 স্থাপত্যিক  
 সংস্থা (এস ও পিএসসি)

  
 Md. Zahman  
 জননির্ভর রহমান  
 পরিচালক-১  
 প্রধানমন্ত্রীর কার্যালয়  
 বাংলাদেশ সরকার



ক্র. নং	পিইপি সভার সিদ্ধান্ত	বেঞ্চা কর্তৃক প্রতিপালন
০১	Voucher Program এর আওতায় প্রশিক্ষণের বিষয়, মডিউল, প্রতিষ্ঠান এবং প্রশিক্ষণার্থী নির্বাচন প্রক্রিয়া সম্পর্কে ডিপিজিপিতে উল্লেখ করতে হবে। নিম্ন প্রতিষ্ঠানসমূহকে sustainable করার লক্ষ্যে need basis নির্ধারণপূর্বক Grant Program কার্যক্রমটি বাস্তবায়নের বিষয়ে বিবরণসহ সুস্পষ্ট কর্মকৌশল ডিপিজিপিতে সংযুক্ত করতে হবে।	সভার সুপারিশ মোতাবেক Voucher Program এবং Grant Program সংক্রান্ত বর্ণনা সংশোধন/পরিমার্জনপূর্বক তা ডিপিজিপিতে সংযোজন করা সহ Voucher Program এর আওতায় প্রশিক্ষণের বিষয়, মডিউল, প্রতিষ্ঠান এবং প্রশিক্ষণার্থী নির্বাচন প্রক্রিয়া ও Grant Program বাস্তবায়নের সুস্পষ্ট কর্মকৌশল বর্ণনা করা হয়েছে (সংযুক্তি-৭)।
০২	পিপিপি পদ্ধতিতে বাস্তবায়নের জন্য প্রত্যাশিত অবকাঠামোসমূহের বেসরকারি অংশের ব্যয় প্রাক্কলন ডিপিজিপির ৯.০ নম্বর অনুচ্ছেদের ফুটনোটে উল্লেখ করতে হবে। পিপিপি অবকাঠামোসমূহ বাস্তবায়নে প্রত্যাশিত সরকারি-বেসরকারি সংস্থানের ব্যয়ে সামঞ্জস্যতা (synchronization) বজায় রাখতে হবে।	পিইপির সুপারিশ মোতাবেক পিপিপি পদ্ধতিতে বাস্তবায়নের জন্য প্রত্যাশিত অবকাঠামোসমূহের বেসরকারি অংশের ব্যয় প্রাক্কলন ডিপিজিপির ৯.০ নম্বর অনুচ্ছেদের ফুটনোটে উল্লেখ করা হয়েছে। উল্লেখ্য, প্রকল্পের আওতায় মোট ৬টি কম্পোনেন্ট পিপিপি মডেলে বাস্তবায়নের প্রস্তাব করা হয়েছে এবং এতে মোট ব্যয় প্রাক্কলন করা হয়েছে ৩৬২৫০০.০০ লক্ষ টাকা। তন্মধ্যে সরকারি অংশ হিসেবে সংস্থান রাখা হয়েছে ১৪৪৫০০.০০ লক্ষ টাকা এবং বেসরকারি বিনিয়োগের প্রাক্কলন করা হয়েছে ২১৮০০০.০০ লক্ষ টাকা। উল্লেখ্য, পিপিপির কম্পোনেন্টের বিতরণিত ব্যয় প্রাক্কলন ডিপিজিপিতে সংযোজন করা হয়েছে (সংযুক্তি-৪, ক্রমিক নং ১৬-২২)। এছাড়া পিপিপি কম্পোনেন্টসমূহ বাস্তবায়নের একটি কর্মকৌশল ডিপিজিপিতে সংযোজন করা হয়েছে (সংযুক্তি-৩৪)।
০৩	প্রকল্পে প্রত্যাশিত মাসজিদ্ কত লোকের সমাগম হবে, তার সম্ভাব্য সংখ্যা ও মাসজিদের ধারণক্ষমতা বিবেচনায় গণপূর্ত অধিদপ্তরের রেন্ট নিউজিল অনুযায়ী উক্ত মাসজিদের নির্মাণ ব্যয় প্রাক্কলন করতে হবে।	সভার সুপারিশ মোতাবেক মাসজিদ্ লোকসমাধিমের সংখ্যা, মাসজিদের ধারণ ক্ষমতা ইত্যাদি উল্লেখসহ গণপূর্ত অধিদপ্তরের রেন্ট নিউজিল বিবেচনায় নিম্নে মাসজিদের নির্মাণ ব্যয় প্রাক্কলন করা হয়েছে (সংযুক্তি-৪, ক্রমিক নং ১৬-৪)। উল্লেখ্য, প্রকল্পের 'Non-residential Building' খাতের 'Mosque' উপ-খাতের বিপরীতে এ অংশে মোট ব্যয় বরাদ্দ রাখা হয়েছে ২০০০.০০ লক্ষ টাকা (ডিপিপি অনুচ্ছেদ নং-৯.০)।
০৪	গ্যাস, বিদ্যুৎ এবং টেলিকমিউনিকেশন সংযোগের বিষয়ে সংশ্লিষ্ট প্রতিষ্ঠান থেকে প্রত্যয়নসহ প্রাক্কলন সংগ্রহের ব্যবস্থা গ্রহণ করতে হবে। Environment lab and Monitoring System নির্মাণের জন্য প্রাক্কলিত ব্যয়ের বিতরণিত বিবরণীসহ প্রয়োজনীয় বাস্তবায়ন গাইডলাইন, জনবল ও পরিচালনা পদ্ধতি সম্পর্কে ডিপিজিপিতে উল্লেখ করতে হবে।	প্রকল্পের আওতায় প্রত্যাশিত Gas Pipeline Network, Power Network এবং Telecommunication Systems অংশ ৩টির প্রাক্কলন সংশ্লিষ্ট সংস্থার সাথে আলোচনা ও পরামর্শক্রমে নির্ধারণ করা হয়েছে। সভার সুপারিশ মোতাবেক উক্ত অংশসমূহের ব্যয় প্রাক্কলনের যথাযথ যাচাই সংক্রান্ত প্রত্যয়ন প্রদানের জন্য ইতোমধ্যে সংশ্লিষ্ট সংস্থা বরাবর বেঞ্চা হতে পত্র প্রেরণ করা হয়েছে (সংযুক্তি-৩২)। এছাড়া প্রকল্পের আওতায় Environment lab and Monitoring System নির্মাণের জন্য প্রাক্কলিত ব্যয়ের বিতরণিত বিবরণী ডিপিজিপিতে সংযোজন করা আছে (সংযুক্তি-৪, ক্রমিক নং ২২)। অধিকন্তু, সভার পরামর্শ মোতাবেক Environmental Lab and Monitoring System বাস্তবায়নে জনবল ও পরিচালনা পদ্ধতি সংক্রান্ত একটি বর্ণনা ডিপিজিপিতে সংযোজন করা হয়েছে (সংযুক্তি-৩৩)।

স্বাক্ষরিত  
 ডায়েরী নং: ১৩৪৪/১৬  
 তারিখ: ০৩ এপ্রিল ২০২৩

স্বাক্ষরিত  
 ডায়েরী নং: ১৩৪৪/১৬  
 তারিখ: ০৩ এপ্রিল ২০২৩

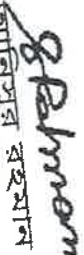



স্বাক্ষরিত  
 ডায়েরী নং: ১৩৪৪/১৬  
 তারিখ: ০৩ এপ্রিল ২০২৩



ক্র. নং	পিছিস সভার সিদ্ধান্ত	বেঙ্গা কর্তৃক প্রতিপালন
৯।	ডিপিপি'র সকল অংশ সঠিক অর্থনৈতিক কোডে প্রণয়ন করতে হবে। প্রকল্পের আওতায় প্রণীতব্য মাস্টারপ্ল্যান অনুযায়ী প্রকল্পভূত্ব পরিবেশ সংক্রান্ত কার্যক্রম বাস্তবায়নে প্রয়োজনীয় অর্থের সংস্থান রাখতে হবে।	প্রকল্পের সকল অংশের অর্থনৈতিক কোড সঠিকভাবে ডিপিপি-তে প্রতিফলিত করা হয়েছে। এছাড়া প্রকল্পে পরিবেশ সংক্রান্ত কার্যক্রম হিসেবে Solid Waste Management Plant, Biogas Plant, Central Effluent Treatment Plant ইত্যাদি কার্যক্রম অর্ন্তভূত করা আছে (ডিপিপি অনুচ্ছেদ নং-৯.০)।
১০।	ডিপিপি'র লগরেডের OVI, MOV, IA, input, output ও goal সঠিকভাবে নির্ধারণ করতে হবে এবং সুনির্দিষ্ট, সময়সীমাবদ্ধ ও পরিমাপযোগ্য তথ্যাদির ভিত্তিতে লগরেড প্রণয়ন করতে হবে।	সভার সুপারিশ মোতাবেক লগরেডটি প্রয়োজনীয় সংশোধন/পরিমার্জনপূর্বক লগরেডের OVI, MOV, IA, input, output ও goal সুনির্দিষ্ট, সময়সীমাবদ্ধ ও পরিমাপযোগ্য তথ্যাদির ভিত্তিতে সঠিকভাবে প্রণয়ন করা হয়েছে (ডিপিপি অনুচ্ছেদ ১০.০০)।

  
 ময়নুল হোসেন (পেচনামা)  
 মুগ্ধাঙ্গিক  
 যারখানক (৫ম অর ও কবেকা)

  
 আলিসুন্ন বহমান  
 পরিচালক-১  
 প্রধানমন্ত্রীর কার্যালয়  
 গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

  
 মোঃ মৌনুল হোসেন  
 উপ-প্রধান (৫: ৭।১)  
 বিদ্যা ও শক্তি বিভাগ  
 পরিকল্পনা কমিশন, পরিসংখ্যান সচিবালয়






"Private Investment and Digital Entrepreneurship (PRIDE) for BEZA Project" শীর্ষক প্রকল্পের উপর গত ১৫/০৬/২০ তারিখে অনুষ্ঠিত 'প্রথম সুপারিশ কমিটি (পিইসি)'র সিদ্ধান্তের প্রতিবেদন

সভায় গৃহীত সিদ্ধান্ত	প্রতিবেদন
<p>৪.১। প্রকল্পের শিরোনাম প্রকল্পের কার্যক্রমের সংশোধন সংক্রমে পুনঃনির্ধারণ করতে হবে।</p>	<p>৪.১। প্রত্যাবৃত্ত প্রকল্পটির অর্থায়ন বিবরণীর প্রাথমিক Private Investment and Digital Entrepreneurship (PRIDE) এর আওতার বাস্তবায়ন করা হবে। এ পরিপ্রেক্ষিতে প্রকল্পটির শিরোনাম রাখা হয়েছিল "Private Investment and Digital Entrepreneurship (PRIDE) for BEZA Project". তবে পরিকল্পনা কমিশনের পিইসি সভায় প্রকল্পটির শিরোনাম প্রকল্পের কার্যক্রমের সাথে সামঞ্জস্য রেখে পুনঃনির্ধারণ করার সুপারিশ করার প্রকল্পটির শিরোনাম পরিবর্তন করে "Bangabandhu Sheikh Mujib Shilpa Nagar (BSMSN) Development Project" রাখা হয়েছে।</p>
<p>৪.২। প্রকল্পের স্বাক্ষর অর্জনের জন্য বর্ণিত উদ্দেশ্য আরও সুনির্দিষ্ট, পরিমাপযোগ্য, অর্জনযোগ্য, প্রাসংগিক ও সময়সীমাবদ্ধভাবে উপস্থাপন করতে হবে। একইভাবে বণ্ড প্রোগ্রামে সুনির্দিষ্ট, সময়সীমিত ও পরিমাপযোগ্য তথ্যাদি উল্লেখ করতে হবে। বণ্ড প্রোগ্রামের ইনপুট ও আউটপুটের ক্ষেত্রে সুনির্দিষ্ট তথ্য প্রদানপূর্বক প্রকল্পের Goal হিসেবে National Goal অর্থাৎ চরমান ৭ম পঞ্চবার্ষিকী পরিকল্পনা/এসজিএ এবং আসন্ন ৮ম পঞ্চবার্ষিকী পরিকল্পনা/এসজিএ এবং আসন্ন ৮ম পঞ্চবার্ষিকী পরিকল্পনা (২০২৬-২০২৭)/এসজিএ এবং আসন্ন ৮ম পঞ্চবার্ষিকী পরিকল্পনা (২০২১-২০২৫)-এর সংশ্লিষ্টতা স্থাপনপূর্বক তা পুনর্গঠন করতে হবে;</p>	<p>৪.২। পিইসি সভার সুপারিশ মোতাবেক প্রকল্পের উদ্দেশ্য আরো সুনির্দিষ্টভাবে বর্ণনা করা হয়েছে এবং তা যথাযথভাবে পুনর্গঠিত জিওপি.তে প্রতিফলিত করা হয়েছে (অনুচ্ছেদ নং-৩.০)। জগদেবপুর ইনপুট ও আউটপুট আরো সুনির্দিষ্টভাবে বর্ণনা করা হয়েছে। এছাড়া বণ্ডপ্রোগ্রামে তথ্যাদি পরিমাপযোগ্য, প্রাসংগিক ও সময়সীমাবদ্ধভাবে বর্ণনা করারসহ তা National Goal এর সাথে সামঞ্জস্য রেখে উপস্থাপন করা হয়েছে (অনুচ্ছেদ-১০.০)। অধিকন্তু প্রকল্পের পুনর্গঠিত জিওপি.তে প্রেক্ষিত পরিকল্পনা, পঞ্চবার্ষিকী পরিকল্পনা এবং এসজিএ বিয়য়ক তথ্যাদি সুনির্দিষ্টভাবে প্রতিফলিত করা হয়েছে (অনুচ্ছেদ নং-২৪.১ ও ২৬.০)।</p>
<p>৪.৩। প্রত্যাবৃত্ত প্রকল্পটির একই প্রকল্প এলাকায়</p>	<p>৪.৩। প্রত্যাবৃত্ত প্রকল্পটি চট্টগ্রাম জেলার নিরসরাই ও দীতাবুড়</p>



  
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সভায় গৃহীত সিদ্ধান্ত

প্রতিপালন

<p>জনমান সমাজতীয় "Bangladesh Economic Zone Development (Phase-1)" শীর্ষক প্রকল্পের উদ্দেশ্য ও কার্যাবলির সাথে প্রস্তাবিত প্রকল্পের কোন বৈতত্য রয়েছে কি না, প্রকল্পটির ভৌত ও পরামর্শক সেবা সংক্রান্ত কার্যাবলির বিবরণ, প্রধান প্রধান অংশের ভৌত/মিঞ্জিক্যান অংশটি সংক্রান্ত অর্থাদি এবং দুটি প্রকল্পের মন্বয়নের পরিকল্পনা পুনর্গঠিত ডিপিপি'তে সংযোজন করতে হবে। একইসাথে প্রস্তাবিত প্রকল্পের Exit Plan সংক্রান্ত অর্থাদিও পুনর্গঠিত ডিপিপি'তে সংযোজন করতে হবে।</p>	<p>উপজেলা এবং ফেনী জেলার সোনাপাড়া উপজেলার বিস্তৃত ৩০,০০০ একর এলাকা নিয়ে গঠিত "বঙ্গবন্ধু শেখ মুজিব শিল্প নগর" এর বিভিন্ন জোনে বাস্তবায়ন করা হবে। উল্লেখ্য, নাকীর গ্রাম অনুসারে বঙ্গবন্ধু শেখ মুজিব শিল্প নগরকে তিনটি অর্থনৈতিক অঞ্চলের আওতায় গ্রাম ২৫টি জোনে বিভক্ত করা হয়েছে। প্রাথমিক অবস্থায় মিরনরাই অর্থনৈতিক অঞ্চলের জোন-১ এবং পারিশিষ্টিক অন্যান্য জোনের অবকাঠামোগত উন্নয়নের জন্য 'Bangladesh Economic Zone Development Project (Phase-1)' শীর্ষক প্রকল্পটি গ্রহণ করা যায় যা বিশ্ব ব্যাংকের অর্থায়নে বাস্তবায়িত হচ্ছে। অপরদিকে প্রস্তাবিত প্রকল্পের আওতায়ও বঙ্গবন্ধু শেখ মুজিব শিল্প নগরের জোন ২এ ও জোন ২বি এর উন্নয়নের গাণশিষ্টিক গারিশিষ্টিক অন্যান্য জোনে অবকাঠামো উন্নয়ন করা হবে। উল্লেখ্য, জনমান প্রকল্প এবং প্রস্তাবিত নতুন প্রকল্পের মধ্যে কভারজ কোন বৈতত্য নেই। যদিও বা কিছু কিছু অংশ একই জোনে বাস্তবায়ন করা হচ্ছে যা হবে অপর জোনের তেইনেক/অবস্থান সম্পূর্ণভাবে ভিন্ন ভিন্ন এবং একটি হতে অপরটি সম্পূর্ণভাবে আলাদা। জনমান প্রকল্প-১ প্রকল্প এবং প্রস্তাবিত গ্রাহিত প্রকল্পের মধ্যে ভৌত/মিঞ্জিক্যান কার্যক্রমের তুলনামূলক বর্ণনা পুনর্গঠিত ডিপিপি-তে সে-আউট গ্রাফের মাধ্যমে উপস্থাপন করা হয়েছে (অনুচ্ছেদ-১৪.১ ও সংযুক্তি-১৮)। আরো উল্লেখ্য যে, প্রস্তাবিত প্রকল্পটির বাস্তবায়ন সমাপ্তিহেতু এর অবকাঠামোগত অর্থনৈতিক অঞ্চল/জোন পরিচালনার কার্যক্রম জোরের আওতায় সৃজিত জনবলের মাধ্যমে অর্থাৎ রাখা হবে (অনুচ্ছেদ নং-১৩.০ ও সংযুক্তি-১০)।</p>
<p>৪.৫। প্রস্তাবিত ডিপিপি'র ২০নং অনুচ্ছেদে সমসাজতীয় অস্থান্য জনমান প্রকল্পের প্রধান প্রধান আইটেমের সাথে তুলনামূলক বিবরণসহ ছকটি প্রস্তুত করতে হবে।</p>	<p>৪.৫। পিইসির সভার সুপারিশ মোতাবেক ডিপিপি'র ২০ নং অনুচ্ছেদে যথাযথভাবে পূরণ করা হয়েছে।</p>
<p>৪.৬। প্রকল্পের সম্ভাব্যতা সমীক্ষা পরিচালনাপূর্বক প্রকল্পের নির্বাহী সরসংস্করণ ও সুপারিশ ডিপিপি-তে সংযুক্ত করতে হবে। এছাড়া ১২% ডিসকাউন্ট রেট প্রকল্পের আর্থিক ও অর্থনৈতিক আয়-ব্যয় বিশ্লেষণ করে ফলাফল পুনর্গঠিত ডিপিপি-</p>	<p>৪.৬। সুপারিশ মোতাবেক প্রকল্পের সম্ভাব্যতা সমীক্ষার সার সংস্করণ ডিপিপি-তে সংযোজন করা সহ (অনুচ্ছেদ-১৬ ও সংযুক্তি-২০)। আর্থিক ও অর্থনৈতিক আয়-ব্যয় বিশ্লেষণের ফলাফল ডিপিপি-তে যথাযথভাবে প্রতিফলিত করা হয়েছে (অনুচ্ছেদ-১৭.০ ও সংযুক্তি-২১)।</p>

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 ডায়েরী নং-১১৩৩  
 ১৩/০৬/১৯  
 ১৩/০৬/১৯

সভার গৃহীত বিষয়	প্রতিপালন
<p>তে প্রদান করতে হবে।</p> <p>৪.৭। জিএবি হতে ১% সুদে ৩৮৬.২৭ কোটি ঋণ গ্রহণের বিষয়ে পূর্বেই অর্থ বিভাগের সম্মতি গ্রহণ করতে হবে। একইসাথে বিধিমাধ্যমে গৃহীত ঋণ ব্যবহারের দক্ষতা নিয়মানুযায়ী অর্থ বিভাগের সঙ্গে একটি Subsidiary Loan Agreement (SLA) করতে হবে। এছাড়া, বিধিমাধ্যমে হতে গৃহীত ঋণের বিপরীতে ঋণ পরিশোধ সংক্রান্ত Amortization Schedule পুনর্গঠিত জিপিপি-তে সংযুক্ত করতে হবে।</p>	<p>৪.৭। প্রকল্পের জিএবি অংশের অর্থায়ন অর্থ বিভাগ হতে ১% হার সুদে ঋণ গ্রহণের প্রস্তাব গত ১৫/০৭/২০২০ তারিখে প্রধানমন্ত্রীর কার্যক্রমের মাধ্যমে অর্থ বিভাগে প্রেরণ করা হয়েছে (সংযুক্তি-২৬)। আশা করা যাচ্ছে অতিক্রমে এ বিষয়ে অর্থ বিভাগের অনাপত্তি পাওয়া যাবে। অপরদিকে বিধি মাধ্যমে হতে ঋণ গ্রহণের বিপরীতে ঋণ পরিশোধ সংক্রান্ত Amortization Schedule পুনর্গঠিত জিপিপি-তে সংযুক্ত করা হয়েছে (সংযুক্তি-২৩)। উল্লেখ্য, প্রকল্পটি বাস্তবায়নের পূর্বে পিইসি সভার সুপারিশ মোতাবেক নিয়মানুযায়ী অর্থ বিভাগের সংশ্লিষ্ট Subsidiary Loan Agreement (SLA) করা হবে।</p>
<p>৪.৮। অর্থ বিভাগের অনুরণ নির্ধারণ সংক্রান্ত কমিটির সভার কার্যবিবরণী সংযুক্তিকরণসহ উক্ত সভার সুপারিশের আলোকে প্রকল্পের অনুরণ কাঠামো ও নিয়োগ পদ্ধতি নির্ধারণ করতে হবে।</p>	<p>৪.৮। প্রকল্পের অনুরণ সংক্রান্ত সভার নির্ধারণের বিষয়ে গত ০৫/০৭/২০২০ তারিখে অর্থ বিভাগে ‘অনুরণ নির্ধারণ সংক্রান্ত আন্তঃসংগঠনীয় কমিটি’ এর সভা অনুষ্ঠিত হয় এবং সভার সুপারিশ মোতাবেক প্রকল্পের অনুরণ কাঠামো ও নিয়োগ পদ্ধতি নির্ধারণ করে তা পুনর্গঠিত জিপিপি-তে প্রতিফলিত করা হয়েছে (অনুস্মরণ নং-১১.১ ও সংযোজনী-২)। পিইসি সভার সুপারিশ মোতাবেক অনুরণ সভার কার্যবিবরণী পুনর্গঠিত জিপিপি-তে সংযুক্ত করা হয়েছে (সংযুক্তি-৮)।</p>
<p>৪.৯। বিশ্ববাংকের অর্থায়নে কেকাঁর মাধ্যমে বাংলাদেশ ‘Economic Zone Development (Phase-1) Project (2nd Revised)’ এবং ‘Support to Capacity Building of BEZA Project (2nd Revised)’ শীর্ষক প্রকল্পসমূহের অনুরণ উন্নয়ন প্রকল্পে অনুরণ নিয়োগ বিষয়ে অর্থ বিভাগ হতে কার্যক্রম দীর্ঘায়নের আলোকে প্রস্তাবিত ‘Private Investment and Digital Entrepreneurship (PRIDE)’ শীর্ষক প্রকল্পের Project Implementation Unit (PIU) এর অনুরণ হিসাব সন্মুখের নিয়োগ/স্থানান্তরের সুযোগ নেই। এছাড়া, প্রস্তাবিত ১৫২ জন জনস্বল্পের Project Allowance</p>	<p>৪.৯। প্রকল্পের অনুরণ সংক্রান্ত সভার নির্ধারণের বিষয়ে সংক্রান্ত অংশটুকু পুনর্গঠিত জিপিপি হতে বাতিল করা হয়েছে। এছাড়া প্রস্তাবিত প্রকল্পের আওতায় বিয়োজিত অনুরণের জন্য Project Allowance দেওয়ার যে প্রস্তাব জিপিপি-তে উল্লেখ করা হয়েছে তা প্রদানের পূর্বে নিয়মানুযায়ী অর্থ বিভাগের সম্মতি গ্রহণ করা হবে।</p>

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সভার গৃহীত সিদ্ধান্ত	প্রতিপালন
হিসেবে অভিরিক্ত ২০% ভাতা প্রদানের প্রস্তাবে অর্থ বিভাগ হতে সম্মতি প্রদানপূর্বক অর্থ বিভাগের অনুমোদনপত্র জিপিপি-তে সংযুক্ত করতে হবে।	
৪.১০। প্রস্তাবিত প্রকল্পের আওতায় বিভিন্ন কাক ৫৫ (পেজার) জন যুক্তি পরামর্শক নিয়োগের যে প্রস্তাব করা হয়েছে অর্থাৎ Medical Officer, Nurse/Paramedics, Lab Technician, Junior IT Consultant, Junior Audit Consultant সংক্রান্ত পদসমূহের জনবল পরামর্শক হিসেবে নিয়োগ না দিয়ে প্রকল্প জনবল হিসেবে নিয়োগ প্রদান করতে হবে।	৪.১০। পিইসি সভার সুপারিশ মোতাবেক উপরোক্ত পদসমূহ (Medical Officer, Nurse/Paramedics, Lab Technician, Junior IT Consultant, Junior Audit Consultant) পরামর্শক হিসেবে নিয়োগের প্রস্তাব না করে তা প্রকল্প জনবল হিসেবে নিয়োগের প্রস্তাব করা হয়েছে এবং এ বিষয়ে অর্থ বিভাগের জনবল নির্ধারণ সংক্রান্ত অগ্রনিন্দিত কার্যক্রমের সুপারিশ অনুসরণ করে তা যথাযথভাবে জিপিপি-তে প্রতিফলিত করা হয়েছে (অনুচ্ছেদ-১১.১ ও সংযোজনী-২)।

৪.১১। বেজার নিজস্ব PPP Guideline প্রণয়ন বিষয়ে জিপিপি-তে প্রদত্ত অংশটিপূর্ণ অর্থসমূহ খাব দিতে হবে। বেজার প্রয়োজনানুসারে PPP Guideline এ কিছু সংযোজনের প্রয়োজন Public Private Partnership (PPP) Authority এর মাধ্যমে প্রদর্শনপত্র অর্থাৎ যথাযথ কর্তৃপক্ষের অনুমোদন গ্রহণ করতে হবে/PPP Guideline সংশোধনের বিধিবিধি প্রক্রিয়া অবলম্বন করতে হবে। এছাড়া, PPP বিষয়ে বেজার স্টাফদের প্রশিক্ষণ প্রদানের ক্ষেত্রে PPP কর্তৃপক্ষের মাধ্যমে প্রশিক্ষণের আয়োজন করতে হবে।	৪.১১। পিইসি সভার আলোচনাও পরামর্শ মোতাবেক PPP Guideline প্রণয়ন সংক্রান্ত অংশটি জিপিপি হতে খাব দিয়া হয়েছে।
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৪.১২। পরামর্শপূর্বক কার্য নিয়োগের মাধ্যমে একটি National Master Plan for BEZA প্রণয়নের যে প্রস্তাব করা হয়েছে তার Scope of Work সংশোধন করতে হবে। National Master Plan for BEZA প্রণয়ন বিষয়ে জিপিপি হতে অগ্রনিন্দিত কার্যক্রম অংশগুণিতা খাব দিতে মোট প্রণয়নের যৌক্তিকতা যথাযথভাবে উপস্থাপন করা হয়েছে।	৪.১২। সুপারিশ মোতাবেক National Master Plan for BEZA এর Scope of Work সংশোধন করা হয়েছে এবং এ বিষয়ে জিপিপি হতে অগ্রনিন্দিত কার্যক্রম অংশগুণিতা খাব দিতে মোট প্রণয়নের যৌক্তিকতা যথাযথভাবে উপস্থাপন করা হয়েছে (সংযুক্তি-৬)।
৪.১৩। প্রস্তাবিত প্রকল্পের আওতায় যে ৬ ধরনের	৪.১৩। প্রকল্পের আওতায় গৃহীত ৬ ধরনের PPP কর্মসূচির

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 পিইসি সভার কার্যক্রম, পিইসি সভার কার্যক্রম

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 পিইসি সভার কার্যক্রম, পিইসি সভার কার্যক্রম

সভায় গৃহীত সিদ্ধান্ত	বীভিগলন
<p>জৈত অবকাঠামোগুলো Public Private Partnership (PPP) ব্যবস্থায় নির্মাণের প্রস্তাব করা হয়েছে যে সকল অবকাঠামোর সোট আনুমানিক ব্যয় (সেরকারি ও বেসরকারি অংশ) এবং প্রত্যাশিত প্রকল্প যতে প্রতিটি আশের বিপরীতে কত টাকা ব্যয় হবে (সেরকারি অংশ) তার একটি তালিকা জিপপিগ-তে সংযুক্ত করতে হবে।</p>	<p>ধারণাগত ব্যয় পুনর্গঠিত জিপপিগ-তে সংযুক্ত করা হয়েছে (সংযুক্তি-৪)। উল্লেখ্য, প্রকল্প বাস্তবায়নকালীন উপরোক্ত জিপপিগ কন্সোল্টেন্টসমূহের সরকারি অংশ ও বেসরকারি অংশের ব্যয় ডেভেলপার নিয়োনের মাধ্যমে চূড়ান্ত করা সম্ভব হবে। তাই এ পর্যায় জিপপিগ অবকাঠামোসমূহের সরকারি অংশ ও বেসরকারি অংশের ব্যয় আলাদা করে দেখানো হয়নি।</p>
<p>৪.১৪। প্রত্যাশিত প্রকল্পের আওতায় অন্যান্য যে সকল অবকাঠামো যেমন, ড্রেনেজ সিস্টেম, পানি সরবরাহ ব্যবস্থা, Channel Lining ইত্যাদির নকশা এবং বিভিন্ন আর্থনিক ভবন যেমন, Investor's Club, Furnished OSS Centre for BSMNS, Emergency Response Centre, Skill Development Centre, Child Care &amp; Emergency Health Centre, Mosque ইত্যাদি প্রত্যাশিত ভবনের লে.আউট প্লান ও এলিভেশন জিপপিগ-তে সংযুক্ত করতে হবে। এছাড়া, প্রত্যাশিত রাস্তার ক্রস-সেকশন, ডিজাইন লাইফ, ফিউচুরেগেড ইন্সট্রাক্শনেন্ট সিস্টেম এরকম লোড (সিইএসএএল) এবং রাস্তার মেইনটেনেন্স সিউইশ সংক্রান্ত তথ্য পুনর্গঠিত জিপপিগ-তে সংযুক্ত করতে হবে।</p>	<p>৪.১৪। পিইসি সভার সুপারিশ মোতাবেক বর্ণিত কন্সোল্টেন্টসমূহের যেমন: ড্রেনেজ সিস্টেম, পানি সরবরাহ ব্যবস্থা, Channel Lining ইত্যাদির নকশা এবং বিভিন্ন আর্থনিক ভবন যেমন, Investor's Club, Furnished OSS Centre for BSMNS, Emergency Response Centre, Skill Development Centre, Child Care &amp; Emergency Health Centre, Mosque ইত্যাদি বিতরিত রাম প্রাক্করণসহ নকশা ও লে.আউট প্লান জিপপিগ-তে সংযোজন করা হয়েছে। এছাড়া রাস্তার ক্রস-সেকশন, ডিজাইন লাইফ ইত্যাদি পুনর্গঠিত জিপপিগ-তে প্রদর্শন করা হয়েছে (সংযুক্তি-৪)।</p>
<p>৪.১৫। বেসা'র বিদ্যমান আইন "BSMNS Development Company (BSDC)" কোম্পানি বা এ জাতীয় কোম্পানি গঠনের সুযোগ না থাকলে বেসা'র আইন প্রয়োজনীয় সংশোধন এনে এরূপ কোম্পানি গঠনের পরামর্শ গ্রহণ করতে হবে।</p>	<p>৪.১৫। সভার সুপারিশ মোতাবেক প্রয়োজনীয় ব্যবস্থা গ্রহণ করা হবে।</p>
<p>৪.১৬। প্রকল্পের আওতায় বিভিন্ন বিষয়ে ২৭টি পরামর্শকর্ষ ও অপর ৫৫ জন ব্যক্তি পরামর্শকর্ষ TOR যথাযথভাবে সংশোধন করে উপযুক্ত কর্তৃপক্ষের অনুমোদন গ্রহণপূর্বক জিপপিগ-তে</p>	<p>৪.১৬। প্রকল্পের আওতায় প্রত্যাশিত পরামর্শকর্ষকর্ষ ও ব্যক্তি পরামর্শকর্ষ Terms of Reference (TOR) যথাযথভাবে সংশোধন করাপূর্বক জিপপিগ-তে সংযুক্ত করা হয়েছে (সংযুক্তি-৫ ও সংযুক্তি-৬)। এছাড়া প্রকল্পের আওতায় গৃহীত সকল</p>



**Arisur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

(\*)  
 ১৭/১১/১৬  
 সচিব, বাংলাদেশ জলবিদ্যুৎ উন্নয়ন কর্তৃপক্ষ  
 জাতীয় সংসদ ভবন, ঢাকা  
 ১০০০  
 ১৭/১১/১৬  
 সচিব (সে. অফ. প্রকল্প পরিচালনা)

সভায় গৃহীত সিদ্ধান্ত	প্রতিগালন
সংযুক্ত করণতে হবে: এছাড়া, প্রকল্পের আওতায় প্রস্তাবিত বিভিন্ন তৌত নির্মাণ কাজসমূহের প্রাথমিক ব্যয় হালনাগাদ রেট সিডিউল অনুযায়ী যথাযথ হয়েছে কি না তা পরীক্ষ করতে হবে: এবং	তৌত শাক্কর ব্যয় প্রাক্করন হালনাগাদ রেট সিডিউল অনুযায়ী প্রায়ন করা হয়েছে (সংযুক্তি-৩)।
৪.১৭। প্রস্তাবিত ডিকপিপ'র বিভিন্ন অংশে অন্য প্রকল্পের বর্ণনা হতে অপ্রাসঙ্গিকতার কারণে কপি-পেস্ট করে সংযুক্ত অংশগুলো চিহ্নিত করে বাদ দিতে হবে। এছাড়া, একই অংশের পুনরাবৃত্তিসমূহও পরিহার করতে হবে।	৪.১৭। প্রকল্পের ডিকপিপি পর্যালোচনারূপক অপ্রাসঙ্গিক অংশসমূহ বাদ দেয়ার অংশের পুনরাবৃত্তি পরিহার করা হয়েছে এবং সে মোজাবেক পুনর্গঠিত ডিকপিপি তুড়ান্ন করা হয়েছে।

*(Signature)*



**Anisur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

*(Signature)*

সংসদীয় কার্যালয়  
 গণপ্রজাতন্ত্রী বাংলাদেশ  
 ১০০, ১০১ নং নতুন বিজ্ঞান  
 পরিদপন, গণপ্রজাতন্ত্রী বাংলাদেশ

(১১)

*(Signature)*  
 সিনিয়র সহকারী  
 প্রোগ্রামিং ও ডাটাবেস  
 নং-১০



**“Bangabandhu Sheikh Mujib Shilpa Nagar (BSMSN)  
Development Project”** শীর্ষক প্রকল্পের পুনর্গঠিত ডিপিপি বিলম্বে পরিকল্পনা কমিশনে

প্রেরণের কারণ অবহিতকরণ।

বিধ খাংকের অর্থায়নে IDA ঋণ PRIDE এর আওতায় বাংলাদেশ অর্থনৈতিক অঞ্চল কর্তৃপক্ষ (বেজা) কর্তৃক বাস্তবায়নের জন্য প্রস্তাবিত “Private Investment and digital Entrepreneurship (PRIDE) for BEZA Project” শীর্ষক প্রকল্পটি অনুমোদনের জন্য প্রস্তাব করা হলে প্রকল্পটির উপর গত ১৫/০৬/২০২০ তারিখে পরিকল্পনা কমিশনে পিইসি সভা অনুষ্ঠিত হয়। পিইসি সভায় প্রকল্পটির বিষয়ে মোট ১৭ (সেতের) টি সুপারিশ/পর্যবেক্ষণ প্রদান করা হয়। তন্মধ্যে একটি অন্যতম সিদ্ধান্ত ছিল প্রকল্পের শিরোনাম প্রকল্পের কার্যক্রমের সঙ্গে সামঞ্জস্য রেখে পুনঃনির্ধারণ করা। সে পরিস্থিতিতে প্রকল্পটির নতুন নামকরণ করা হয় “Bangabandhu Sheikh Mujib Shilpa Nagar (BSMSN) Development Project”।

এছাড়া পুনর্গঠিত ডিপিপির সাথে অর্থ বিভাগের জনবল নির্ধারণ সংক্রান্ত আন্তঃমন্ত্রণালয় কমিটির সুপারিশ সম্বলিত কার্যবিবরণী সংযোজন করার বিষয়েও পিইসি সভায় সিদ্ধান্ত গৃহীত হয়। উল্লেখ্য, প্রকল্পটির উপর জনবল নির্ধারণ সংক্রান্ত আন্তঃমন্ত্রণালয় কমিটির সভা গত ০৫/০৭/২০২০ তারিখে অর্থ বিভাগে অনুষ্ঠিত হয়। এতে করে প্রকল্পের ডিপিপি পুনর্গঠনে কিছুটা সময় অপেক্ষা করতে হয়। অধিকতর পিইসি সভার অন্যান্য সুপারিশ/পর্যবেক্ষণ অনুসারে প্রকল্পের ডিপিপি পুনর্গঠন করতে অতিরিক্ত সময়ের প্রয়োজন পড়ে।

এ পরিস্থিতিতে পিইসি সভার সুপারিশ/পর্যবেক্ষণ মোতাবেক প্রকল্পের ডিপিপি পুনর্গঠন করে তা অনুমোদনের জন্য প্রেরণ করতে অতিরিক্ত সময়ের প্রয়োজন হওয়ায় ডিপিপি প্রেরণে বিলম্ব হয়।

এমতাবস্থায়, পিইসি সভার সুপারিশ মোতাবেক প্রণীত পুনর্গঠিত ডিপিপি অনুসারে (প্রাক্কলিত ব্যয়: ৪৩৬৭০৪.১০ লক্ষ টাকা এবং বাস্তবায়নকাল: ০১ জানুয়ারি ২০২১ হতে ৩১ ডিসেম্বর ২০২৫ পর্যন্ত) প্রকল্পটি অনুমোদনের প্রয়োজনীয় ব্যবস্থা গ্রহণের জন্য বিশেষভাবে অনুরোধ করা হলো।

  
Md. Nurul Hossain  
সহকারী সিনিয়র সিসিও  
সিসিও (৩২২/৩২২-৩১০/১৫৫০)

  
Md. Nurul Hossain  
সহকারী সিনিয়র সিসিও  
সিসিও (৩২২/৩২২-৩১০/১৫৫০)

ড. আহমদ কায়কাউস  
মুখ্য সচিব  
প্রধানমন্ত্রীর কার্যালয়  
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার  
ঢাকা।



পরিকল্পনা কমিশনের শিল্প ও শক্তি বিভাগের ১৫ সেপ্টেম্বর ২০২০ তারিখের ২০.০৫.০০০০.৫৫১.১৪.০৩১.২০২০.১৩৫ সংখ্যক স্মারকমূলে প্রদত্ত পর্যবেক্ষণের প্রতিপালন


১	২	৩	৪	৫
পিইসি সভার সিদ্ধান্ত নং	পিইসি সভার সিদ্ধান্ত	পিইসি সভার সিদ্ধান্তের প্রতিপালন (ইতোপূর্বে)	পরিকল্পনা কমিশনের স্তমভ/পর্যবেক্ষণ	বর্তমান পর্যবেক্ষণের প্রতিপালন
৪.২	<p>প্রকল্পের লক্ষ্য অর্জনের জন্য বর্ণিত উদ্দেশ্য আরও সুনির্দিষ্ট, পরিমাপযোগ্য, অর্জনযোগ্য, প্রাসংগিক ও সময়াবদ্ধভাবে উপস্থাপন করতে হবে। একইভাবে লগ ফ্রেমেও সুনির্দিষ্ট, সময়াবদ্ধ ও পরিমাপযোগ্য তথ্যাদি উল্লেখ করতে হবে। লগ ফ্রেমের ইনপুট ও আউটপুটের ক্ষেত্রে সুনির্দিষ্ট তথ্য প্রদানপূর্বক প্রকল্পের Goal হিসাবে National Goal অর্থাৎ চলমান ৭ম পঞ্চবার্ষিকী পরিকল্পনা/এসডিজি এবং আসন্ন ৮ম পঞ্চবার্ষিকী পরিকল্পনা অনুযায়ী Goal নির্ধারণ করতে হবে। এছাড়া, প্রস্তাবিত ডিপিপি'র সাথে ২য় প্রেক্ষিত পরিকল্পনা (২০২১-২০৪১), ৭ম পঞ্চবার্ষিকী পরিকল্পনা (২০১৬-২০২০)/এসডিজি এবং আসন্ন ৮ম পঞ্চবার্ষিকী পরিকল্পনা (২০২১-২০২৫)-এর সংশ্লিষ্টতা স্থাপনপূর্বক তা পুনর্গঠন করতে হবে;</p>	<p>পিইসি সভার সুপারিশ মোতাবেক প্রকল্পের উদ্দেশ্য আরো সুনির্দিষ্টভাবে বর্ণনা করা হয়েছে এবং তা যথাযথভাবে পুনর্গঠিত ডিপিপি-তে প্রতিফলিত করা হয়েছে (অনুচ্ছেদ নং-৩.০)। লগফ্রেমের ইনপুট ও আউটপুট আরো সুনির্দিষ্টভাবে বর্ণনা করা হয়েছে। এছাড়া লগফ্রেমে তথ্যাদি পরিমাপযোগ্য, প্রাসঙ্গিক ও সময়াবদ্ধভাবে বর্ণনা করা সহ তা National Goal এর সাথে সামঞ্জস্য রেখে উপস্থাপন করা হয়েছে (অনুচ্ছেদ-১০.০)। অধিকতর প্রকল্পের পুনর্গঠিত ডিপিপি-তে প্রেক্ষিত পরিকল্পনা, পঞ্চবার্ষিকী পরিকল্পনা এবং এসডিজি বিষয়ক তথ্যাদি সুনির্দিষ্টভাবে প্রতিফলিত করা হয়েছে (অনুচ্ছেদ নং-১৪.১ ও ২৬.০)।</p>	<p>পিইসি সভার সিদ্ধান্তটি যথাযথভাবে প্রতিফলিত হয়নি। ডিপিপি পরীক্ষান্তে দেখা যায় যে,</p> <p>(ক) প্রকল্পের Main Objective বর্ণনায় Promoting Private Investment বিষয়টি উল্লেখ করতে হবে।</p> <p>(খ) প্রকল্পের Main Objective এ Job Creation থাকলেও Specific Objective-এ তা উল্লেখ নেই। এটি ডিপিপিতে উল্লেখ করতে হবে (অনু: 3.0)।</p> <p>(গ) প্রকল্পে Outsourced Employee এর জন্য পৃথক Compensation রাখার সুযোগ নেই, কারণ টেন্ডারে নির্ধারিত। উক্ত প্রেক্ষিতে আইটেমটি প্রকল্প থেকে বাদ দেয়া যেতে পারে (অনু: 9.0)।</p> <p>(ঘ) 3231301 (iii) কোডে Voucher Program এর মাধ্যমে বিভিন্ন ধরনের কারিগরি প্রশিক্ষণ সম্পন্ন করার কথা বলা হলেও কোন কোন Module এ কি কি প্রশিক্ষণ কোর্স, কতজন প্রশিক্ষণার্থী এবং কোন কোন প্রতিষ্ঠান/বিনিয়োগকারীর মাধ্যমে প্রশিক্ষণ প্রদান করা হবে তার Indicative Outline প্রদান করতে হবে। প্রশিক্ষণের গুণগতমাণ নিশ্চিত করার স্বার্থে কারিগরি প্রশিক্ষণ প্রদানকারী প্রতিষ্ঠান নির্বাচনের ক্ষেত্রে প্রতিষ্ঠিত সরকারি, আধা-সরকারি, স্বায়ত্বশাসিত প্রতিষ্ঠানসমূহকে অগ্রাধিকার প্রদানের বিষয়টি ডিপিপিতে উল্লেখ করতে হবে</p>	<p>(ক) প্রকল্পের Main Objective বর্ণনায় 'To promote private investment' এর পরিবর্তে 'Promoting private investment' উল্লেখ করা হয়েছে (অনু: 3.0, ডিপিপি পৃষ্ঠা-০১)।</p> <p>(খ) পর্যবেক্ষণ মোতাবেক প্রকল্পের Specific Objective-এ Job Creation বিষয়ে অনুচ্ছেদ উল্লেখ করা হয়েছে (অনু: 3.0, ডিপিপি পৃষ্ঠা-০১)।</p> <p>(গ) প্রকল্পের প্রস্তাবনা হতে Outsourced Employee এর জন্য যে Compensation এর সংস্থান রাখা হয়েছিল তা ডিপিপি থেকে বাদ দেয়া হয়েছে (অনু: 9.0, ডিপিপি পৃষ্ঠা-০৩)।</p> <p>(ঘ) পর্যবেক্ষণ অনুসারে প্রকল্পের আওতায়, প্রস্তাবিত Voucher Program বিষয়ে প্রশিক্ষণ কোর্স, প্রশিক্ষণার্থীর সংখ্যা, প্রশিক্ষণের বিষয় এবং প্রশিক্ষণ প্রদানকারী প্রতিষ্ঠানের নাম উল্লেখপূর্বক Appendix-VII সংশোধন করে ডিপিপিতে সংযোজন করা হয়েছে (Appendix-VII, ডিপিপি পৃষ্ঠা-৪৭৬)।</p>

**Anisur Rahman**  
Director  
Prime Minister's Office  
Govt. of the People's Republic of Bangladesh



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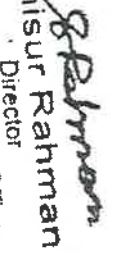

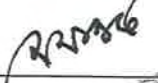
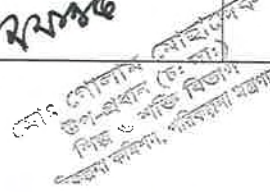

বোর্ড কোর্সের প্রোগ্রামের  
উপ-প্রোগ্রাম (ক: ১।)  
শিল্প ও শক্তি বিভাগ  
পরিকল্পনা কমিশন, পরিকল্পনা মন্ত্রণালয়

পিইসি সভার সিদ্ধান্ত নং	পিইসি সভার সিদ্ধান্ত	পিইসি সভার সিদ্ধান্তের প্রতিপালন (ইতোপূর্বে)	পরিকল্পনা কমিশনের মতামত/পর্যবেক্ষণ	বর্তমান পর্যবেক্ষণের প্রতিপালন
১	২	৩	৪	৫
	 <p style="text-align: center;"> <b>Anisur Rahman</b>            Director            Prime Minister's Office            Govt. of the People's Republic of Bangladesh         </p>		<p>(Appendix-VII)।</p> <p>(ঙ) Grant Program (ট: ১৭০ কোটি), Customs Duty (ট: ৮০ কোটি) এবং VAT (ট: ২০ কোটি)- কম্পোনেন্ট ৩টি Repair and Maintenance এর অন্তর্ভুক্ত নয় বিধায় এগুলোকে আলাদা করে দেখাতে হবে।</p> <p>(চ) ডিপিপি পৃষ্ঠা ১২৪ এ উল্লিখিত Land Development Work এর ক্ষেত্রে Supporting Landscape এর আলোকে প্রকল্প এলাকার মাটি ভরাটের ক্ষেত্রে মাটির পরিমাণ নির্ধারণের যৌক্তিকতা ডিপিপিতে উল্লেখ করতে হবে।</p> <p>(ছ) অনুচ্ছেদ ১৫.৪ এর Activity III ও VIII পরস্পর পরিপূরক বিধায় তাদেরকে একসাথে দেখাতে হবে এবং Activity তালিকায় Job Creation বিষয়ে Activities উল্লেখ করতে হবে।</p>	<p>(ঙ) পর্যবেক্ষণ অনুসারে Grant Program, Customs Duty এবং VAT কম্পোনেন্ট ৩টি Repair and Maintenance সাব-হেড থেকে পৃথক করে উপস্থাপন করা হয়েছে (অনু: ৭.০; ডিপিপি পৃষ্ঠা-০৩)।</p> <p>(চ) প্রকল্পের আওতায় প্রস্তাবিত ভূমি উন্নয়ন (Land Development) কাজের মাটির পরিমাণ নির্ধারণের যৌক্তিকতা উল্লেখপূর্বক Appendix-IV এর 23 নং সংযোজনী সংশোধন/পরিমার্জন করা হয়েছে (Appendix-IV-23, ডিপিপি পৃষ্ঠা-১৪৪)।</p> <p>(ছ) পর্যবেক্ষণ অনুসারে Activity দু'টি একত্রিত করে Activity III-এ দেখানো হয়েছে এবং Activity তালিকায় Job Creation বিষয়ে নতুন Activity অনুচ্ছেদ ১৫.৪ এর Activity IX-এ সংযোজন করা হয়েছে (ডিপিপি পৃষ্ঠা-১৯)।</p>
8.8	<p>প্রস্তাবিত প্রকল্পটির একই প্রকল্প এলাকায় চলমান সমজাতীয় “Bangladesh Economic Zone Development Project (Phase-1)”-শীর্ষক প্রকল্পের উদ্দেশ্য ও কার্যাবলির সাথে প্রস্তাবিত প্রকল্পের কোন দ্বৈততা রয়েছে কি না, প্রকল্পটির ভৌত ও পরামর্শক সেবা সংক্রান্ত কার্যাবলির বিবরণ, প্রধান প্রধান অঙ্গের ভৌত/ফিজিক্যাল অগ্রগতি সংক্রান্ত তথ্যাদি এবং দু'টি প্রকল্পের সমন্বয়ের পরিকল্পনা পুনর্গঠিত ডিপিপি'তে সংযোজন করতে হবে। একইসাথে প্রস্তাবিত প্রকল্পের Exit Plan সংক্রান্ত তথ্যাদিও</p>	<p>প্রস্তাবিত প্রকল্পটি চট্টগ্রাম জেলার মিরসরাই ও সীতাকুন্ড উপজেলা এবং ফেনী জেলার সোনাপাড়া উপজেলার বিস্তৃত ৩০,০০০ একর এলাকা নিয়ে গঠিত “বঙ্গবন্ধু শেখ মুজিব শিল্প নগর” এর বিভিন্ন জোনে বাস্তবায়ন করা হবে। উল্লেখ্য, মাস্টার প্ল্যান অনুসারে বঙ্গবন্ধু শেখ মুজিব শিল্প নগরকে তিনটি অর্থনৈতিক অঞ্চলের আওতায় প্রায় ২৫টি জোনে বিভক্ত করা হয়েছে। প্রাথমিক অবস্থায় মিরসরাই অর্থনৈতিক অঞ্চলের জোন-১ এবং পারিপার্শ্বিক অন্যান্য জোনের অবকাঠামোগত উন্নয়নের জন্য</p>	<p>পিইসি সভার সিদ্ধান্ত ৪.৪ এ চলমান ও প্রস্তাবিত ২টি প্রকল্পের মধ্যে সম্পাদিত কার্যক্রমের সমন্বয় ও Exit Link সুস্পষ্টভাবে উল্লেখ করতে হবে।</p>	<p>চলমান ‘Bangladesh Economic Zone Development Project (Phase-1)’ এবং প্রস্তাবিত ‘Bangabandhu Sheikh Mujib Shilpa Nagar (BSMSN) Development Project’ শীর্ষক প্রকল্প দু'টির কার্যক্রম সম্পূর্ণভাবে দ্বৈততা পরিহারপূর্বক সমন্বয়ের মাধ্যমে বাস্তবায়ন করা হচ্ছে/হবে। উল্লেখ্য, বর্তমান চলমান প্রকল্পটির আওতায় গৃহীত সকল ভৌত কার্যক্রমের বাস্তবায়ন প্রায় শেষ পর্যায়ে এবং প্রকল্পটি জানুয়ারি ২০২১ এ সমাপ্তির জন্য নির্ধারিত। আরো উল্লেখ্য যে, প্রস্তাবিত নতুন প্রকল্পটির বাস্তবায়ন জানুয়ারি ২০২১ হতে শুরুর প্রস্তাব</p>

২৭/০৪/১৬

গণপ্রজাতন্ত্রী বাংলাদেশ  
উপ-প্রধান (সি: দাঃ)  
শিল্প ও সড়ক বিভাগ  
পরিকল্পনা কমিশন, পরিকল্পনা মন্ত্রণালয়

সি: দাঃ  
সি: দাঃ  
সি: দাঃ  
সি: দাঃ  
সি: দাঃ

পিইসি সভার সিদ্ধান্ত নং	পিইসি সভার সিদ্ধান্ত	পিইসি সভার সিদ্ধান্তের প্রতিপালন (ইতোপূর্বে)	পরিকল্পনা কমিশনের মতামত/পর্যবেক্ষণ	বর্তমান পর্যবেক্ষণের প্রতিপালন
১	২	৩	৪	৫
	<p>পুনর্গঠিত ডিপিপি'তে সংযোজন করতে হবে;</p> <p style="text-align: center;">   <b>Anisur Rahman</b>            Director            Prime Minister's Office            Govt of the People's Republic of Bangladesh         </p> <p style="text-align: center;">  </p>	<p>'Bangladesh Economic Zone Development Project (Phase-1)' শীর্ষক প্রকল্পটি গ্রহণ করা হয় যা বিশ্ব ব্যাংকের অর্থায়নে বাস্তবায়িত হচ্ছে। অপরদিকে প্রস্তাবিত প্রকল্পের আওতায়ও বঙ্গবন্ধু শেখ মুজিব শিল্প নগরের জোন ২এ ও জোন ২বি এর উন্নয়নের পাশাপাশি পারিপার্শ্বিক অন্যান্য জোনে অবকাঠামো উন্নয়ন করা হবে। উল্লেখ্য, চলমান প্রকল্প এবং প্রস্তাবিত নতুন প্রকল্পের মধ্যে কাজের কোন দ্বৈততা নেই। যদিও বা কিছু কিছু অংশ একই জোনে বাস্তবায়ন করা হচ্ছে বা হবে তবে তাদের চেইনেজ/অবস্থান সম্পূর্ণভাবে ভিন্ন ভিন্ন এবং একটি হতে অপরটি সম্পূর্ণভাবে আলাদা। চলমান ফেইজ-১ প্রকল্প এবং প্রস্তাবিত প্রাইড প্রকল্পের মধ্যে ভৌত/ফিজিক্যাল কার্যক্রমের তুলনামূলক বর্ণনা পুনর্গঠিত ডিপিপি-তে লে-আউট প্ল্যানের মাধ্যমে উপস্থাপন করা হয়েছে (অনুচ্ছেদ-১৪.১ ও সংযুক্তি-১৮)। আরো উল্লেখ্য যে, প্রস্তাবিত প্রকল্পটির বাস্তবায়ন সমাপ্তিতে এর অবকাঠামোসহ অর্থনৈতিক অঞ্চল/জোন পরিচালনার কার্যক্রম বেজার আওতায় সৃজিত জনবলের মাধ্যমে অব্যাহত রাখা হবে (অনুচ্ছেদ নং-১৩.০ ও সংযুক্তি-১০)।</p>		<p>করা হয়েছে। প্রকল্প দুটির সমাপ্তির পর প্রকল্পের আওতায় নির্মিত অবকাঠামোসমূহ বেজার আওতায় নিয়োজিত জনবলের মাধ্যমে পরিচালন ও রক্ষণাবেক্ষণ করা হবে।</p>
৪.৫	<p>প্রস্তাবিত ডিপিপি'র ২০ নং অনুচ্ছেদে সমজাতীয় অন্যান্য চলমান প্রকল্পের প্রধান প্রধান আইটেমের সাথে তুলনামূলক বিবরণসহ ছকটি পূরণ করতে হবে;</p> <p style="text-align: center;">    </p>	<p>পিইসির সভার সুপারিশ মোতাবেক ডিপিপি'র ২০ নং অনুচ্ছেদ যথাযথভাবে পূরণ করা হয়েছে।</p> <p style="text-align: center;">   <b>দরশন শর্মা দেবনাথ</b>            মুগ্ধাচিব            ব্যবস্থাপক (এম আই এস ও গবেষণা)         </p>	<p>ডিপিপি পৃ: ২২ অনুচ্ছেদ ২০ এ প্রদত্ত সমজাতীয় প্রকল্পের সাথে প্রস্তাবিত প্রকল্পের প্রধান আইটেমের ব্যয় প্রাক্কলনের যে একক প্রদান করা হয়েছে সেখানে প্রদত্ত রাস্তা নির্মাণ ব্যয় এবং এ নির্মাণ ব্যয়ের বিস্তারিত বিভাজন (ডিপিপি পৃষ্ঠা ৭৭-৭৯) ও ক্রস সেকশন (ডিপিপি পৃষ্ঠা ৮৮-৮৯) পরীক্ষান্তে</p>	<p>পর্যবেক্ষণ অনুসারে সমজাতীয় প্রকল্পের সাথে প্রস্তাবিত প্রকল্পের প্রধান আইটেমের ব্যয় প্রাক্কলনের তুলনামূলক বিবরণীটি সংশোধন করা হয়েছে (অনু: ২০, ডিপিপি পৃষ্ঠা-২১)। এছাড়া প্রকল্পের আওতায় প্রস্তাবিত রাস্তা নির্মাণ ব্যয়ের প্রাক্কলনটি যাচাই-বাহাই পূর্বক সংশোধন</p>

(১৭)



পিইসি সভার সিদ্ধান্ত নং	পিইসি সভার সিদ্ধান্ত	পিইসি সভার সিদ্ধান্তের প্রতিপালন (ইতোপূর্বে)	পরিকল্পনা কমিশনের মতামত/পর্যবেক্ষণ	বর্তমান পর্যবেক্ষণের প্রতিপালন	
১	২	৩	৪	৫	
৪.৭	জিওবি হতে ১% সুদে ৩৮৬.২৭ কোটি ঋণ গ্রহণের বিষয়ে পূর্বেই অর্থ বিভাগের সম্মতি গ্রহণ করতে হবে। একইসাথে বিশ্বব্যাংক হতে গৃহীত ঋণ ব্যবহারের লক্ষ্যে নিয়মানুযায়ী অর্থ বিভাগের সঙ্গে একটি Subsidiary Loan Agreement (SLA) করতে হবে। এছাড়া, বিশ্বব্যাংক হতে গৃহীত ঋণের বিপরীতে ঋণ পরিশোধ সংক্রান্ত Amortization Schedule পুনর্গঠিত ডিপিপি-তে সংযুক্ত করতে হবে;	প্রকল্পের জিওবি অংশের অর্থায়নে অর্থ বিভাগ হতে ১% হার সুদে ঋণ গ্রহণের প্রস্তাব গত ১৫/০৭/২০২০ তারিখে প্রধানমন্ত্রীর কার্যালয়ের মাধ্যমে অর্থ বিভাগে প্রেরণ করা হয়েছে (সংযুক্তি-২৬)। আশা করা যাচ্ছে অচিরেই এ বিষয়ে অর্থ বিভাগের অনাপত্তি পাওয়া যাবে। অপরদিকে বিশ্ব ব্যাংক হতে ঋণ গ্রহণের বিপরীতে ঋণ পরিশোধ সংক্রান্ত Amortization Schedule পুনর্গঠিত ডিপিপি-তে সংযুক্ত করা হয়েছে (সংযুক্তি-২৩)। উল্লেখ্য, প্রকল্পটি বাস্তবায়নের পূর্বে পিইসি সভার সুপারিশ মোতাবেক নিয়মানুযায়ী অর্থ বিভাগের সঙ্গে Subsidiary Loan Agreement (SLA) করা হবে।	দেখা যায় যে, অনেক আইটেমের (যেমন- মাটি খনন) জন্য অতিরিক্ত ব্যয় প্রাক্কলন করা হয়েছে। তাছাড়া, ২৬ কি:মি (২ লেন) এবং ৪ কি:মি (৪ লেন) উভয় সড়ক নির্মাণের জন্য ট্রাফিক সাইন ও ট্রাফিক পোস্টের সংখ্যা যথাক্রমে ৮৪টি করে উল্লেখ করা হয়েছে। স্বাভাবিক ভাবেই ৪ কি:মি (৪ লেন) এবং ২৬ কি: মি: (২ লেন) সড়কের ক্ষেত্রে ট্রাফিক সাইন এবং পোস্টের সংখ্যা একই হওয়ার সুযোগ নেই।	প্রকল্পের জিওবি অংশের অর্থায়নে অর্থ বিভাগ হতে ১% হার সুদে ঋণ গ্রহণের ক্ষেত্রে অর্থ বিভাগের সম্মতি ডিপিপি-তে সন্নিবেশ করা হয়নি। এটি সন্নিবেশ করে সে অনুযায়ী ঋণ পরিশোধ সংক্রান্ত সিডিউলটি নির্ধারণ করতে হবে। তাছাড়া, জিওবি ঋণ পরিশোধের গ্রেস পিরিয়ডের সময়কাল ৫ বছর উল্লেখ করতে হবে।	করা হয়েছে। উল্লেখ্য, রাস্তা নির্মাণ খাতে বর্তমান প্রাক্কলিত ব্যয় দাঁড়িয়েছে ৪০৬০০.০০ লক্ষ টাকা। আরো উল্লেখ্য যে, রাস্তা নির্মাণ (Road Network) কাজের পরিমাণ ও ব্যয় নির্ধারণের যৌক্তিকতা Appendix-IV-এর ৮ নং সংযোজনীতে সন্নিবেশ করা হয়েছে (Appendix-IV-8, ডিপিপি পৃষ্ঠা-৭৯)।
৪.৯	বিশ্বব্যাংকের অর্থায়নে বেজা'র মাধ্যমে বাস্তবায়নধীন "Bangladesh Economic Zone Development (Phase-1) Project (2nd Revised)" এবং "Support to Capacity Building of BEZA Project (2nd Revised)"-শীর্ষক প্রকল্পসমূহের জনবল উন্নয়ন প্রকল্পে জনবল নিয়োগ বিষয়ে অর্থ	প্রকল্পের জনবলের সংক্রান্ত সরাসরি নিয়োগ/স্থানান্তর সংক্রান্ত অংশটুকু পুনর্গঠিত ডিপিপি হতে বাদ দেয়া হয়েছে। এছাড়া প্রস্তাবিত প্রকল্পের আওতায় নিয়োজিত জনবলের জন্য Project Allowance দেওয়ার যে প্রস্তাব ডিপিপি-তে উল্লেখ করা হয়েছে তা প্রদানের পূর্বে নিয়মানুযায়ী অর্থ বিভাগের সম্মতি গ্রহণ করা হবে।	পিইসি সভার সিদ্ধান্ত অনুযায়ী Project Allowance হিসেবে অতিরিক্ত ২০% ভাতা প্রদানের বিষয়ে অর্থ বিভাগের সম্মতি গ্রহণপূর্বক তা ডিপিপি-তে সংযুক্ত করা হয়নি। এ বিষয়ে অর্থ বিভাগের সম্মতি গ্রহণপূর্বক তা ডিপিপি-তে সংযুক্ত করতে হবে এবং সে অনুযায়ী ডিপিপি-তে অর্থের সংস্থান রাখতে হবে।	Project Allowance হিসেবে অতিরিক্ত ২০% ভাতা প্রদানের যে সংস্থান রাখা হয়েছিল তা প্রকল্প প্রস্তাব হতে বাদ দেয়া হয়েছে (অনু: ৭.০, ডিপিপি পৃষ্ঠা-০৩)।	

০২/০৮/২০  
দায়িত্ব দেবনাথ  
মুদ্রিত  
- (এক হার এস ও গবেষণা)

০২/০৮/২০  
নোঃ সেক্রেটারী  
উপ-প্রধান (সি: দা):  
শিল্প ও শক্তি বিভাগ  
পরিকল্পনা কমিশন, পরিকল্পনা মন্ত্রণালয়

পিইসি সভার সিদ্ধান্ত সিদ্ধান্ত নং	পিইসি সভার সিদ্ধান্ত	পিইসি সভার সিদ্ধান্তের প্রতিপালন (ইতোপূর্বে)	পরিকল্পনা কমিশনের মতামত/পর্যবেক্ষণ	বর্তমান পর্যবেক্ষণের প্রতিপালন
১	২	৩	৪	৫
	বিভাগ হতে জারিকৃত নীতিমালার আলোকে প্রস্তাবিত "Private Investment and Digital Entrepreneurship (PRIDE)"-শীর্ষক প্রকল্পের Project Implementation Unit (PIU) এর জনবল হিসাবে সরাসরি নিয়োগ/স্থানান্তরের সুযোগ নেই। এছাড়া, প্রস্তাবিত ১৫২ জন জনবলের Project Allowance হিসেবে অতিরিক্ত ২০% ভাতা প্রদানের প্রস্তাবে অর্থ বিভাগ হতে সম্মতি গ্রহণপূর্বক অর্থ বিভাগের অনুমোদনপত্র ডিপিপিতে সংযুক্ত করতে হবে;			
৪.১৩	প্রস্তাবিত প্রকল্পের আওতায় যে ৬ ধরনের ভৌত অবকাঠামোগুলো Public Private Partnership (PPP) ব্যবস্থায় নির্মাণের প্রস্তাব করা হয়েছে সে সকল অবকাঠামোর মোট আনুমানিক ব্যয় (সরকারি ও বেসরকারি অংশ) এবং প্রস্তাবিত প্রকল্প হতে প্রতিটি অঙ্কের বিপরীতে কত টাকা ব্যয় হবে (সরকারি অংশ) তার একটি তালিকা ডিপিপি-তে সংযুক্ত করতে হবে;	প্রকল্পের আওতায় গৃহীত ৬ ধরনের PPP কম্পোনেন্টের ধারণাগত ব্যয় পুনর্গঠিত ডিপিপি-তে সংযুক্ত করা হয়েছে (সংযুক্তি-৪)। উল্লেখ্য, প্রকল্প বাস্তবায়নকালীন উপরোক্ত পিপিপি কম্পোনেন্টসমূহের সরকারি অংশ ও বেসরকারি অংশের ব্যয় ডেভেলপার নিয়োগের মাধ্যমে চূড়ান্ত করা সম্ভব হবে। তাই এ পর্যায়ে পিপিপি অবকাঠামোসমূহের সরকারি অংশ ও বেসরকারি অংশের ব্যয় আলাদা করে দেখানো হয়নি।	পিইসি সভার সিদ্ধান্তটি যথাযথভাবে অনুসরণ করা হয়নি। সরকারি অংশের ব্যয় উল্লেখ করা হলেও বেসরকারি অংশের ব্যয় উল্লেখ করা হয়নি। বিদ্যমান পিপিপি আইন এবং নীতিমালা অনুযায়ী পিপিপি'র আওতায় নির্মিতব্য অবকাঠামোসমূহের সরকারি ও বেসরকারি অংশের ব্যয় নির্ধারণ করতে হবে।	প্রকল্পের আওতায় Public Private Partnership (PPP) ব্যবস্থায় যে সকল ভৌত অবকাঠামো নির্মাণের প্রস্তাব করা হয়েছে সে সকল অবকাঠামোর সরকারি ও বেসরকারি অংশের ব্যয় প্রাক্কলনের পরিমাণ (আনুমানিক) নির্ধারণ করে সংশ্লিষ্ট অংগসমূহের ব্যয় প্রাক্কলন বিবরণী সংশোধন করা হয়েছে (Appendix-IV-16 হতে Appendix-IV-21, ডিপিপি পৃষ্ঠা-২৩০ হতে ২৪১)। উল্লেখ্য, পিপিপি পদ্ধতিতে কাজ বাস্তবায়নে PPP Authority-এর সরাসরি সম্পৃক্ততার মাধ্যমে বিদ্যমান পিপিপি আইন এবং নীতিমালা অনুযায়ী প্রাইভেট পার্টনার নির্বাচন করে পিপিপি অবকাঠামোসমূহ বাস্তবায়ন করা হবে।
৪.১৪	প্রস্তাবিত প্রকল্পের আওতায় অন্যান্য যে সকল অবকাঠামো যেমন, ড্রেনেজ সিস্টেম, পানি সরবরাহ ব্যবস্থা, Channel Lining ইত্যাদির নকশা এবং বিভিন্ন আবাসিক ভবন যেমন, Investor's Club, Furnished OSS Centre for BSMSN, Emergency Response Centre,	পিইসি সভার সুপারিশ মোতাবেক বর্ণিত কম্পোনেন্টসমূহের (যেমন: ড্রেনেজ সিস্টেম, পানি সরবরাহ ব্যবস্থা, Channel Lining ইত্যাদির নকশা এবং বিভিন্ন আবাসিক ভবন যেমন, Investor's Club, Furnished OSS Centre for BSMSN, Emergency Response Centre,	রাস্তার নকশা (দুইলেন/চারলেন/ব্রিজ-কালভার্ট) বিবেচনায় নিয়ে সড়কের ইঞ্জিনিয়ারিং এন্টিমেট ডিপিপিতে সংযুক্ত করতে হবে। ডিপিপিতে রাস্তা, ব্রিজ, কালভার্ট ও অন্যান্য অংশের ব্যয় পৃথকভাবে তুলনা ও প্রদর্শন করতে হবে। এছাড়া রাস্তার ক্ষেত্রে কিউনুলেটিভ ইকুইভেলেন্ট সিঙ্কাল এক্সেল লোড সিইএসএএল), ডিজাইন-লাইফ ইত্যাদি তথ্য প্রদান	পর্যবেক্ষণ অনুসারে রাস্তার নকশা (দুইলেন/চারলেন/ব্রিজ-কালভার্ট) বিবেচনায় নিয়ে সড়কের ইঞ্জিনিয়ারিং এন্টিমেট চূড়ান্ত করা হয়েছে এবং সে মোতাবেক Appendix-IV এর ৮ নং সংযোজনী সংশোধনপূর্বক ডিপিপিতে সংযোজন করা হয়েছে। বিস্তারিত ব্যয় বিবরণীতে রাস্তা, ব্রিজ, কালভার্ট ও

(XVII)

Anisur Rahman  
Director  
Prime Minister's Office  
Govt. of the People's Republic of Bangladesh



দায়িত্ব  
স্বাক্ষরিত  
কর্তৃক

মোঃ গোলাম মোস্তাফিজ  
উপ-প্রোগ্রামার (চি: দাঃ)  
বিজ্ঞ ও শক্তি বিভাগ  
কমিশন, পরিকল্পনা মন্ত্রণালয়



পিইসি সভার সিদ্ধান্ত নং	পিইসি সভার সিদ্ধান্ত	পিইসি সভার সিদ্ধান্তের প্রতিপালন (ইতোপূর্বে)	পরিকল্পনা কমিশনের মতামত/পর্যবেক্ষণ	বর্তমান পর্যবেক্ষণের প্রতিপালন
	২	৩	৪	৫
	Skill Development Centre, Child Care & Emergency Health Centre, Mosque ইত্যাদি প্রস্তাবিত ভবনের লে.আউট প্ল্যান ও এলিভেশন ডিপিপি-তে সংযুক্ত করতে হবে। এছাড়া, প্রস্তাবিত রাস্তার ক্রাস-সেকশন, ডিজাইন লাইফ, কিউমুলেটিভ ইকুইভেলেট সিঙ্গেল এক্সেল লোড (সিইএসএএল) এবং রাস্তার মেইনটেনেন্স সিডিউল সংক্রান্ত তথ্য পুনর্গঠিত ডিপিপি-তে সংযুক্ত করতে হবে;	Skill Development Centre, Child Care & Emergency Health Centre, Mosque ইত্যাদি বিস্তারিত ব্যয় প্রাক্কলনসহ নকশা ও লে.আউট প্ল্যান ডিপিপি-তে সংযোজন করা হয়েছে। এছাড়া রাস্তার ক্ষেত্রে ক্রাস-সেকশন, ডিজাইন লাইফ ইত্যাদি পুনর্গঠিত ডিপিপি-তে প্রদর্শন করা হয়েছে (সংযুক্তি-৪)।	করা হয়নি। এই তথ্য পুনর্গঠিত ডিপিপিতে যথাযথভাবে সন্নিবেশ করতে হবে।	অন্যান্য অংশের ব্যয় পৃথকভাবে প্রদর্শন করা হয়েছে। এছাড়া রাস্তার ক্ষেত্রে কিউমুলেটিভ ইকুইভেলেট সিঙ্গেল এক্সেল লোড (সিইএসএএল), ডিজাইন লাইফ ইত্যাদি তথ্য প্রদান করা হয়েছে (Appendix-IV-8, ডিপিপি পৃষ্ঠা-৭৯)।
৪.১৫	বেজার বিদ্যমান আইনে “BSMSN Development Company (BSDC)” কোম্পানি বা এ জাতীয় কোম্পানি গঠনের সুযোগ না থাকলে বেজার আইনে প্রয়োজনীয় সংশোধন এনে এরূপ কোম্পানি গঠনের পদক্ষেপ গ্রহণ করতে হবে;	সভার সুপারিশ মোতাবেক প্রয়োজনীয় ব্যবস্থা গ্রহণ করা হবে।	পিইসি সভার সিদ্ধান্ত অনুযায়ী “BSMSN Development Company (BSDC)” কোম্পানি গঠনের লক্ষ্যে বেজার আইনে প্রয়োজনীয় সংশোধনের বিষয়ে কোন কার্যক্রম গ্রহণ করা হয়নি। পিইসি সভার সিদ্ধান্ত অনুযায়ী এ আইন সংশোধনের পদক্ষেপ গ্রহণ করতে হবে।	প্রকল্প প্রস্তাবনা হতে “BSMSN Development Company (BSDC)” কোম্পানি গঠনের বিষয়টি বাদ দেয়া হয়েছে। ফলে বেজার বিদ্যমান আইন সংশোধনের কোন প্রয়োজন হবে না।
৪.১৬	প্রকল্পের আওতায় বিভিন্ন বিষয়ে ২৭টি পরামর্শক ফর্ম ও অপর ৫৫ জন ব্যক্তি পরামর্শকের ToR যথাযথভাবে সংশোধন করে উপযুক্ত কর্তৃপক্ষের অনুমোদন গ্রহণপূর্বক ডিপিপি-তে সংযুক্ত করতে হবে। এছাড়া, প্রকল্পের আওতায় প্রস্তাবিত বিভিন্ন ভৌত নির্মাণ কাজসমূহের প্রাক্কলিত ব্যয় হালনাগাদ রেট সিডিউল অনুযায়ী যথার্থ হয়েছে কি না তা পরীক্ষা করতে হবে; এবং	প্রকল্পের আওতায় প্রস্তাবিত পরামর্শক ফর্ম ও ব্যক্তি পরামর্শকের Terms of Reference (ToR) যথাযথভাবে সংশোধন করা পূর্বক ডিপিপি-তে সংযুক্ত করা হয়েছে (সংযুক্তি-৫ ও সংযুক্তি-৬)। এছাড়া প্রকল্পের আওতায় গৃহীত সকল ভৌত কাজের ব্যয় প্রাক্কলন হালনাগাদ রেট সিডিউল অনুযায়ী প্রণয়ন করা হয়েছে (সংযুক্তি-৪)।	(ক) PMC-17 তে যোগ্যতা ও অভিজ্ঞতাসহ Training Need Assessment (TNA) এর জন্য পরামর্শক নিয়োগের ToR আরো সুনির্দিষ্ট ও বিস্তারিতভাবে উল্লেখ করা আবশ্যিক। এতে প্রাসঙ্গিক যোগ্যতাও সুনির্দিষ্ট করতে হবে (Appendix-VI);	(ক) পর্যবেক্ষণ অনুসারে পরামর্শকের যোগ্যতা ও অভিজ্ঞতা সুনির্দিষ্ট করারসহ Training Need Assessment (TNA) এর জন্য পরামর্শক নিয়োগের ToR সুনির্দিষ্ট করা পূর্বক তা সংশোধন করা হয়েছে। উল্লেখ্য, PMC-17 প্যাকেজটি সুনির্দিষ্ট করার জন্য দু'টি লটে বিভক্ত করে ToR সংশোধন করা হয়েছে (Appendix-VI এর 19/29 ও 20/29, ডিপিপি পৃষ্ঠা- ৪৩৪ ও ৪২৬)।
			(খ) Consulting Firm নিয়োগে ToR বর্ণনায় International Competitive Bidding (ICB) এর বিষয়টি (প্রয়োজ্য ক্ষেত্রে) যথাযথভাবে উল্লেখ করতে হবে (Appendix-VI);	(খ) পর্যবেক্ষণ অনুসারে Consulting Firm নিয়োগে ToR বর্ণনায় International Competitive Bidding (ICB) এর বিষয়টি (প্রয়োজ্য ক্ষেত্রে) যথাযথভাবে উল্লেখ করে ToR সংশোধন করা হয়েছে (Appendix-VI, ডিপিপি পৃষ্ঠা-২৯৩ হতে ৪৭০)।

Govt of the People's Republic of Bangladesh  
Prime Minister's Office  
Director  
Anisur Rahman

স্বাস্থ্য ও পরিবার কল্যাণ মন্ত্রণালয়  
সিদ্ধান্ত  
স্বাক্ষর  
যথাস্থান (স্বাক্ষর ও মর্যাদা)

২২/১১/১৬  
স্বাক্ষর  
মোহাম্মদ মোহাম্মদ  
উপ-প্রধান (সি: দাঃ)  
শিল্প ও শক্তি বিভাগ  
পরিকল্পনা মন্ত্রণালয়



পিইসি সভার সিদ্ধান্ত নং	পিইসি সভার সিদ্ধান্ত	পিইসি সভার সিদ্ধান্তের প্রতিপালন (ইতোপূর্বে)	পরিকল্পনা কমিশনের মতামত/পর্যবেক্ষণ	বর্তমান পর্যবেক্ষণের প্রতিপালন
১	২	৩	৪	৫
			(গ) International Competitive Bidding এর ক্ষেত্রে ToR এ International Consultant নিয়োগের বিষয়টি উল্লেখ করতে হবে;	(গ) পর্যবেক্ষণ অনুসারে পরামর্শক প্রতিষ্ঠান নিয়োগে ICB এর ক্ষেত্রে International Consultant এর বিষয়টি (প্রযোজ্য ক্ষেত্রে) উল্লেখ করা হয়েছে (Appendix-VI, ডিপিপি পৃষ্ঠা-২৯৩ হতে ৪৭০)।

বিঃদ্রঃ পরিকল্পনা কমিশনের শিল্প ও শক্তি বিভাগের ১৫ সেপ্টেম্বর ২০২০ তারিখের ২০.০৫.০০০০.৫৫১.১৪.০৩১.২০২০.১৩৫ সংখ্যক স্মারকমূলে প্রদত্ত পর্যবেক্ষণ সংক্রান্ত পত্রের অনুলিপি ডিপিপি'তে সংযোজন করা হয়েছে (Appendix-XXVII, ডিপিপি পৃষ্ঠা-৬০১)।

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## ABBREVIATIONS AND ACRONYM

ADP	Annual Development Program
APA	Alternate Procurement Arrangements
BASIS	Bangladesh Association of Software and Information Services
BETF	Bank Executed Trust Fund
BEZA	Bangladesh Economic Zones Authority
BGMEA	Bangladesh Garment Manufacturers and Exporters Association
BHTPA	Bangladesh Hi-Tech Park Authority
BICF	Bangladesh Investment Climate Fund
BIFFL	Bangladesh Infrastructure Finance Fund Limited
BMSMSN	Bangabandhu Sheikh Mujib Shilpa Nagar
CCU	Central Coordination Unit
CERC	Contingent Emergency Response Component
CETP	Common Effluent Treatment Plant
CEIZ	Chinese Economic and Industrial Zone
CF	Counterpart Financing
CPF	Country Partnership Framework
DPP	Development Project Proposal
DPA	Direct Project Aid
DPC	Development Policy Credit
DRM	Disaster Risk Management
E&S	Environmental and Social
ECA	Environmental Conservation Act
EDGE	Excellence in Design for Greater Efficiencies
EIP	Eco-Industrial Park
EPZ	Export Processing Zone
ERD	Economic Relations Division
ESA	Environmental and Social Assessment
ESF	Environmental and Social Framework
ESCP	Environmental and Social Commitment Plan



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ESMF	Environmental and Social Management Framework
ESRS	Environmental and Social Review Summary
ESS	Environmental and Social Standards
EZ/ EZs	Economic Zone/ Zones
FD	Finance Division
FE	Foreign Exchange
FDI	Foreign Direct Investment
FI	Financial Intermediaries
GDP	Gross Domestic Product
GIZ	Deutsche Gesellschaft für Internationale Zusammenarbeit
GoB	Government of Bangladesh
HTP	Hi-Tech Park
ICT	Information and Communication Technology
IBRD	International Bank for Reconstruction and Development
IDA	International Development Association
IDCOL	Infrastructure Development Company Limited
IFC	International Finance Corporation
ILO	International Labor Organization
IPF	Investment Project Financing
IA	Implementing Agency
IT	Information Technology
ITeS	Information Technology-enabled Services
IUFRR	Interim-Unaudited Financial Report
LEED	Leadership in Energy and Environmental Design
LMP	Labor Management Procedures
M&E	Monitoring & Evaluation
MPA	Multiphase Programmatic Approach
MTBF	Medium Term Budgetary Framework
NGO	Non-Government Organization
OSS	One Stop Shop



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<b>PAD</b>	Project Appraisal Document
<b>PDO</b>	Project Development Objective
<b>PEZ</b>	Private Economic Zones
<b>PEC</b>	Project Evaluation Committee
<b>PPP</b>	Public Private Partnership
<b>PIU</b>	Project Implementation Unit
<b>PMO</b>	Prime Minister's Office
<b>PRIDE</b>	Private Investment and Digital Entrepreneurship Project
<b>PSDSP</b>	Private Sector Development Support Project
<b>PSC</b>	Project Steering Committee
<b>RAP</b>	Resettlement Action Plan
<b>RETF</b>	Recipient Executed Trust Fund
<b>RPA</b>	Reimbursable Project Aid
<b>RPF</b>	Resettlement Policy Framework
<b>SCD</b>	Systematic Country Diagnostic
<b>SDG</b>	Sustainable Development Goal
<b>SEP</b>	Stakeholder Engagement Plan
<b>SME</b>	Small and Medium-sized Enterprise
<b>SORT</b>	Systematic Operations Risk-Rating Tool
<b>SOU</b>	Special Operational Unit
<b>SPV</b>	Special Purpose Vehicle
<b>SREDA</b>	Sustainable and Renewable Energy Development Authority
<b>STP</b>	Software Technology Parks
<b>TOR</b>	Term of Reference
<b>TF</b>	Trust Fund
<b>TVET</b>	Technical and Vocational Education and Training
<b>VC</b>	Venture Capital
<b>WBG</b>	World Bank Group



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(f.v.)



# DEVELOPMENT PROJECT PROFORMA/PROPOSAL (DPP)

## PART-A

### Project Summary

- 1.0 Project Title : Bangabandhu Sheikh Mujib Shilpa Nagar (BSMSN)  
Development Project
- 2.0 2.1 Sponsoring : Prime Minister's Office (PMO)  
Ministry/Division
- 2.2 Implementing Agency : Bangladesh Economic Zones Authority (BEZA)
- 2.3 Concerned Division of : Industry and Power  
Planning Commission

- 3.0 Objectives and Targets of : I. General Objectives: Promoting private investment and the Project job creation in economic zones of BSMSN and mainstreaming the environmental sustainability in the development of economic zones in Bangladesh.

### II. Specific Objectives:

- i) Developing various infrastructures in Zone-2A & Zone-2B including surrounding zones of BSMSN to create an enabling environment for private investment;
- ii) Enabling a greener and resilient BSMSN that will showcase the benefits of incorporating resilience and sustainability concepts in the development of economic zones; and
- iii) Creating new employment opportunity by attracting investment in the economic zones of BSMSN.

### 4.0 Project Implementation Period

4.1 Commencement Date : 01 January 2021

4.2 Date of Completion : 31 December 2025

### 5.0 5.1 Estimated Cost : (Taka in Lac)

Total	:	434721.02
GOB	:	37974.20
PA	:	396746.82
Own Fund	:	--
Others	:	--

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আবিন্দুল বহমান



5.2 Exchange Rate with : 1 US\$ = 85.00 Taka (Date: 06/02/2020)  
Date (Source: Bangladesh Bank)

স্বাক্ষরিত (স্বঃ পঃ) :  
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বাংলাদেশ জি.জি. অথরিটি কার্যালয়

6.0 Mode of Financing :

6.1 Mode of Financing with :

Source:

	GOB (FE)	PA (RPA)	Own Fund (FE)	Others (Specify)	PA Source
Loan/Credit	37974.20 (0.00)	396746.82 (396746.82)			IDA/World Bank
Grant	0.00	0.00			
Equity	0.00	0.00			
Others (Specify)	0.00	0.00			
Total:	37974.20 (0.00)	396746.82 (396746.82)			--

(Taka in Lac)

N. B.: The GOB loan is proposed with 1% interest rate from the Government.

6.2 Year wise Estimated Cost :

Financial Year (FY)	GOB (FE)	PA		Own Fund (FE)	Others (Specify)	Total
		RPA	DPA			
1	2	3	4	5	6	7
FY 1: 2020-21 (Jan.-Jun. 2021)	1269.82 (0.00)	1675.75				2945.57
FY 2: 2021-22	7619.24 (0.00)	80700.56				88319.80
FY 3: 2022-23	7579.24 (0.00)	78951.56				86530.80
FY 4: 2023-24	7579.24 (0.00)	78951.56				86530.80
FY 5: 2024-25	7579.24 (0.00)	78951.56				86530.80
FY 6: 2025-26 (Jul.-Dec. 2025)	6347.42 (0.00)	77515.83				83863.25
Grand Total:	37974.20 (0.00)	396746.82				434721.02

(Taka in Lac)

7.0 Location of the Project :

Division	District	Upazila	
		1	2
Chattoogram	Chattoogram	Feni	Mirsarai Sonagazi

Notes:

- All physical works will be implemented in Mirsarai EZ and Feni EZ of BSMSN (mainly 2A & 2B zones and other surrounding zones) as mentioned above in the DPP (Appendix D);
- The index map (lay-out plan for all physical components) of the project is shown in Appendix II;
- The non-physical activities such as Environment and Social Study, Feasibility Study, Master Plan etc. will be conducted for various economic zones/sites under BEZA including BSMSN, and
- The location map of the project is shown in Appendix III.

8.0 Location wise Cost Breakdown (As per

: Please see Annexure I.



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গণপ্রজাতন্ত্রী বাংলাদেশ  
প্রকল্প পরিচালক-১  
গণপ্রজাতন্ত্রী বাংলাদেশ

9.0 Estimated Cost Summary

(Taka in Lac)

Economic Code	Economic Sub-Code	Description	Unit	Quantity	Total Cost	GOB (FE)	Project Aid				Own Fund (FE)	Others	% of Total Project Cost	
							RPA		DPA					
							Through GOB	Special Account**	Through PD	Through DP				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
<b>(a) Recurrent Expenditure:</b>														
<b>Basic Pay &amp; Allowances</b>														
3111	3111101	Basic Pay (Officers)	Nos.	11	313.50	313.50	-	-	-	-	-	-	-	0.07
	3111306	Education allowance	Nos.	11	6.00	6.00	-	-	-	-	-	-	-	0.00
	3111310	Housing rent allowance	Nos.	11	157.00	157.00	-	-	-	-	-	-	-	0.04
	3111311	Medical allowance	Nos.	11	9.00	9.00	-	-	-	-	-	-	-	0.00
	3111312	Mobile/cellphone allowance	Nos.	11	9.00	9.00	-	-	-	-	-	-	-	0.00
	3111313	Residential telephone encashment allowance	Nos.	11	18.00	18.00	-	-	-	-	-	-	-	0.00
	3111325	Festival allowance	Nos.	11	52.50	52.50	-	-	-	-	-	-	-	0.01
	3111328	Rest and recreation allowance	Nos.	11	10.50	10.50	-	-	-	-	-	-	-	0.00
	3111331	Refreshment allowance	No.	1	1.00	1.00	-	-	-	-	-	-	-	0.00
	3111335	Bangla new year allowance	Nos.	11	5.50	5.50	-	-	-	-	-	-	-	0.00
	3111338	Other allowances	Nos.	11	10.00	10.00	-	-	-	-	-	-	-	0.00
<b>Administrative Expenses</b>														
3211	3211106	Entertainment Expenses	LS	LS	100.00	-	-	100.00	-	-	-	-	-	0.02
	3211107	Transport Hiring (Vehicle Rent)	Nos.	8	1,707.60	-	-	1,707.60	-	-	-	-	-	0.39
	3211111	Seminar and Conference												
		i) Seminar and conference	N/A	LS	200.00	-	-	200.00	-	-	-	-	-	0.05
		ii) Investment promotion (Foreign)	N/A	LS	690.50	-	-	690.50	-	-	-	-	-	0.16
	3211113	Electricity	N/A	LS	150.00	150.00	-	-	-	-	-	-	-	0.03
	3211115	Water	N/A	LS	50.00	50.00	-	-	-	-	-	-	-	0.01
	3211117	Telex/Fax/Internet	N/A	LS	50.00	50.00	-	-	-	-	-	-	-	0.01
	3211119	Postage	N/A	LS	20.00	20.00	-	-	-	-	-	-	-	0.00
	3211120	Telephone	N/A	LS	20.00	20.00	-	-	-	-	-	-	-	0.00
	3211121	Machine and Equipment Rental	N/A	LS	100.00	-	-	100.00	-	-	-	-	-	0.02
	3211125	Advertising Expenses	N/A	LS	400.00	-	-	400.00	-	-	-	-	-	0.09
	3211127	Books and Periodicals	N/A	LS	50.00	50.00	-	-	-	-	-	-	-	0.01
	3211128	Publication	N/A	LS	100.00	-	-	100.00	-	-	-	-	-	0.02
	3211129	Office Building Rental	Month	60	900.00	-	-	900.00	-	-	-	-	-	0.21
	3211130	Conveyance Expenditure	N/A	LS	50.00	50.00	-	-	-	-	-	-	-	0.01
	3211131	Outsourcing (Project Employee)	Nos.	92	1,464.02	-	-	1,464.02	-	-	-	-	-	0.34
	3211133	Venue Rental	N/A	LS	201.00	-	-	201.00	-	-	-	-	-	0.05
<b>Training &amp; Study Tour</b>														

003

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার  
 প্রধানমন্ত্রীর কার্যালয়  
 পলিটেকনিক-১  
 গাজীপুর সরকার



*Doya*  
 দায়িত্ব দেবনাথ  
 মুহাসিব  
 - ১ম ফাই এস ও গবেষণা

*৭/১/১৬*  
 উপস্থাপন (সং: ৯০)  
 পিও ও পিও বিভাগ  
 পঞ্চনা কামিনী, গুলিফলা নতুনগাঁও

(Taka in Lac)

Economic Code	Economic Sub-Code	Description	Unit	Quantity	Total Cost	GOB (FE)	Project Aid				Own Fund (FE)	Others	% of Total Project Cost	
							RPA		DPA					
							Through GOB	Special Account**	Through PD	Through DP				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
3231	3231301	Training												0.14
		i) Foreign Training & study tour	N/A	LS	600.00	-	-	600.00	-	-	-	-	-	0.05
		ii) Local Training	N/A	LS	200.00	-	-	200.00	-	-	-	-	-	2.93
		iii) Voucher Program	N/A	LS	12,750.00	-	-	12,750.00	-	-	-	-	-	
		<u>Petrol &amp; Gas</u>												0.11
3243	3243101	Petrol, Oil & Lubricant (Speed Boat- 1 & Motorcycle-27)	Nos.	28	496.20	496.20	-	-	-	-	-	-	-	0.03
		<u>Travel Expenses</u>												0.03
3244	3244101	Travel Expenses	N/A	LS	120.00	120.00	-	-	-	-	-	-	-	0.01
		<u>Medical &amp; Sanitation</u>												0.01
3252	3252105	Medical & Surgical Supplies	N/A	LS	50.00	50.00	-	-	-	-	-	-	-	0.01
	3252108	Sanitation materials	N/A	LS	50.00	50.00	-	-	-	-	-	-	-	0.01
	3252109	Medicin & Vaccines	N/A	LS	50.00	50.00	-	-	-	-	-	-	-	0.01
		<u>Stationary, Printing &amp; Stamps</u>												0.01
3255	3255101	Computer consumables	N/A	LS	50.00	50.00	-	-	-	-	-	-	-	0.02
	3255102	Printing & Binding	N/A	LS	100.00	-	-	100.00	-	-	-	-	-	0.00
	3255104	Stamps & Seals	N/A	LS	20.00	20.00	-	-	-	-	-	-	-	0.06
	3255105	Other Stationary	N/A	LS	250.00	250.00	-	-	-	-	-	-	-	0.01
	3255106	Map	N/A	LS	50.00	50.00	-	-	-	-	-	-	-	
		<u>Consultancy Services</u>												7.63
3257	3257101	Consultancy												1.75
		i) Consultancy (Firm)	Item	26	33,175.50	-	-	33,175.50	-	-	-	-	-	1.75
		ii) Individual Consultants	Nos.	48	7,594.20	-	-	7,594.20	-	-	-	-	-	
		<u>Repair &amp; Maintenance</u>												0.00
3258	3258101	Motor Vehicles (Motorcycle)	Nos.	27	10.00	10.00	-	-	-	-	-	-	-	0.01
	3258103	Computer	N/A	LS	50.00	50.00	-	-	-	-	-	-	-	0.00
	3258128	Water vehicle	No.	1	20.00	20.00	-	-	-	-	-	-	-	0.03
	3258140	Transport maintenance expense	Nos.	4	120.00	120.00	-	-	-	-	-	-	-	
		<u>Grant Program</u>												3.91
3632	3632101	Grant Program	N/A	LS	17,000.00	-	-	17,000.00	-	-	-	-	-	
		<u>Custom Duty &amp; VAT</u>												1.84
3821	3821101	Custom Duty	N/A	LS	8,000.00	8,000.00	-	-	-	-	-	-	-	0.46
	3821104	VAT and others	N/A	LS	2,000.00	2,000.00	-	-	-	-	-	-	-	
		Sub total (Recurrent Expenses)			89,601.02	12,318.20	-	77,282.82	-	-	-	-	-	20.61

স্বাক্ষর  
 সায়ানন্দ দেবনাথ  
 যুগ্মসচিব  
 ব্যবস্থাপক (এম আই এস ও গবেষণা)

স্বাক্ষর  
 কোঃ পোলাস মোহাম্মদ  
 উপ-প্রোগ্রামার (সি: ডাঃ)  
 পিল্ল ও শক্তি বিভাগ  
 পরিকল্পনা কমিশন, পরিকল্পনা মন্ত্রণালয়

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার  
 পরিকল্পনা বিভাগ  
 কার্যালয়-১  
 পল্লীশান্তি বস্তি, ঢাকা-১০০০

৩০৭



(Taka in Lac)

Economic Code	Economic Sub-Code	Description	Unit	Quantity	Total Cost*	GOB (FE)	Project Aid				Own Fund (FE)	Others	% of Total Project Cost	
							RPA		DPA					
							Through GOB	Special Account**	Through PD	Through DP				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
<b>(b) Capital Expenditure:</b>														
<b>Goods</b>														
4112	4112101	Motor Vehicles (Motorcycle)	Nos.	27	38.00	38.00	-	-	-	-	-	-	-	0.01
	4112102	Speed Boat	No.	1	40.00	40.00	-	-	-	-	-	-	-	0.01
	4112201	ICT Equipment												
		i) Video Conference system	LS	LS	100.00	-	-	100.00	-	-	-	-	-	0.02
		ii) Multimedia Projectors	No.	1	35.00	-	-	35.00	-	-	-	-	-	0.01
		iii) Smart City Equipment: BSMSN (Hardware, software equipment's)	N/A	LS	400.00	-	-	400.00	-	-	-	-	-	0.09
		<b>Computer Accessories:</b>												
	4112202	Desktop-60, Laptop-35, Tab-10, Printer-60, Photocopier-10, and Scanner-15	Nos.	190	350.00	-	-	350.00	-	-	-	-	-	0.08
	4112302	Camera and accessories	N/A	LS	5.00	-	-	5.00	-	-	-	-	-	0.00
	4112306	Testing Laboratories with supply & installation	N/A	LS	450.00	-	-	450.00	-	-	-	-	-	0.10
	4112310	Office Equipments	N/A	LS	33.00	-	-	33.00	-	-	-	-	-	0.01
	4112314	Furniture and Fixtures	N/A	LS	416.00	-	-	416.00	-	-	-	-	-	0.10
		<b>Software</b>												
4113	4113301	Computer Softwar	N/A	LS	100.00	-	-	100.00	-	-	-	-	-	0.02
	4113302	Financial Management System (Database)	LS	Software	100.00	-	-	100.00	-	-	-	-	-	0.02
		<b>Total Goods</b>			<b>2,067.00</b>	<b>78.00</b>	<b>-</b>	<b>1,989.00</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.48</b>
		<b>Works</b>												
4111	4111201	Non-residential Building												
		i) Resilient Site upgrade and Building Development	Lac sqm	1.27	5,000.00	-	-	5,000.00	-	-	-	-	-	1.15
		ii) Construction of Investors Club	sqm	600	3,000.00	-	-	3,000.00	-	-	-	-	-	0.69
		iii) Furnished OSS Centre for BSMSN	N/A	LS	1,000.00	-	-	1,000.00	-	-	-	-	-	0.23
		iv) Mosque	sqm	1580	2,000.00	-	-	2,000.00	-	-	-	-	-	0.46
		v) Emergency Response Centre	sqm	3000	2,500.00	-	-	2,500.00	-	-	-	-	-	0.58
		vi) Construction of Skills Development Center	sqm	1025*3	1,500.00	1,500.00	-	-	-	-	-	-	-	0.35
		vii) Construction of Child Care & Emergency Health Care Center	sqm	1025*3	1,500.00	1,500.00	-	-	-	-	-	-	-	0.35
	4111302	Road Network	Km	30	40,600.00	-	-	40,600.00	-	-	-	-	-	9.34
	4111307	Drainage structures (Storm Water)	Km	31	21,200.00	-	-	21,200.00	-	-	-	-	-	4.88
	4111309	Sanitation & Water Supply (Sower Network & Water Supply Network)	Km	40	18,700.00	-	-	18,700.00	-	-	-	-	-	4.30

স্বাক্ষর (সহ সচিব) ও সচিব  
 প্রধান কার্যালয়  
 জেলা প্রশাসন  
 ঢাকা

স্বাক্ষর  
 সচিব

005

স্বাক্ষর  
 সচিব





(Taka in Lac)

Economic Code	Economic Sub-Code	Description	Unit	Quantity	Total Cost*	GOB (FE)	Project Aid				Own Fund (FE)	Others	% of Total Project Cost	
							RPA		DPA					
							Through GOB	Special Account**	Through PD	Through DP				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
	4111310	Excavation (Channel Lining)	Km	10	5,085.00	-	-	-	5,085.00	-	-	-	-	1.17
	4111312	Telecommunication systems	Km	25	1,700.00	-	-	-	1,700.00	-	-	-	-	0.39
	4111313	Power Network	km	20 (33 KVA) 13.5 (11 KVA)	16,150.00	-	-	-	16,150.00	-	-	-	-	3.72
	4111316	Gas pipeline network	Km	28	17,000.00	-	-	-	17,000.00	-	-	-	-	3.91
	4111317	Other Building & Structure												
		i) Security and Support Amenities	km	40	12,750.00	-	-	-	12,750.00	-	-	-	-	2.93
		ii) Central Effluent Treatment Plant (PPP)	MLD	48	20,400.00	-	-	-	20,400.00	-	-	-	-	4.69
		iii) Desalination plant (PPP)	MLD	30	38,250.00	-	-	-	38,250.00	-	-	-	-	8.80
		iv) Steam network (PPP)	Km	12.14	6,800.00	-	-	-	6,800.00	-	-	-	-	1.56
		v) Solid Waste Management (PPP)	acr	100	12,750.00	-	-	-	12,750.00	-	-	-	-	2.93
		vi) Biogas plant, waste sorting and material recovery facility (PPP)	acr	40	6,800.00	-	-	-	6,800.00	-	-	-	-	1.56
		vii) Rooftop and floating solar (PPP)	MW	10+60	59,500.00	-	-	-	59,500.00	-	-	-	-	13.69
		viii) Environmental Lab & Monitoring System	sqm	280	790.00	-	-	-	790.00	-	-	-	-	0.18
	4111401	Land Development	Lac cum	100	25,500.00	-	-	-	25,500.00	-	-	-	-	5.87
		<b>Total Works</b>			<b>320,475.00</b>	<b>3,000.00</b>	-	-	<b>317,475.00</b>	-	-	-	-	<b>73.72</b>
		<b>Sub Total (Capital):</b>			<b>322,542.00</b>	<b>3,078.00</b>	-	-	<b>319,464.00</b>	-	-	-	-	<b>74.20</b>
		(c) Physical Contingency (@ 2% of Capital Cost)			6,451.00	6,451.00	-	-	-	-	-	-	-	1.48
		(d) Price Contingency (@ 5% of Capital Cost)			16,127.00	16,127.00	-	-	-	-	-	-	-	3.71
		<b>Grand Total (a + b + c + d):</b>			<b>434,721.02</b>	<b>37,974.20</b>	-	-	<b>396,746.82</b>	-	-	-	-	<b>100.00</b>

\* Column 6 = (7+8+9+10+11+12+13)

\*\* DOSA, CONTASA, SAFE, Imprest, etc.

N.B.: 1) It is noted that there are six PPP components under the project which will be implemented following the suitable PPP models with prior approval of the government. The total cost of these six PPP components is estimated to BDT 361250.00 Lakh where the government contribution is amounted to BDT 144500.00 Lakh (proposed to finance through RPA under this project). The remaining amount BDT 216750.00 Lakh is proposed from private investment. A summary of cost estimation and indicative detail cost is append in the DPP (Serial No. 16-21 of Appendix-IV).

2) Some physical components shown in this table under 'Works' of recast DPP are shown as Lump-Sum. It is noted that all the physical components under 'Works' described above will be quantified after Consultant's assessment which could be possible only after commencement of the project.

Note:

- 1) The detailed cost estimation of Investment Promotion (Foreign), Foreign Training & Study Tour and Local Training is attached in Appendix XXIX;
- 2) The detailed cost estimation of Transport Hiring, Outsourcing (Project Employee) & Venue Rental is attached in Appendix XXVIII, Appendix XXX & Appendix XXXI respectively;
- 3) The detailed cost estimation of physical works is attached in Appendix IV;
- 4) The TOR of Consultancy Services (Individual) & Consultancy Services (Firm) is attached in Appendix V & Appendix VI; and
- 5) An outline/methodology of 'voucher program' and 'grant program' is attached in Appendix VII.

*(Signature)*  
 উপ-সচিব (সঃ দাঃ)  
 বিদ্যুৎ ও শক্তি বিভাগ  
 পরিকল্পনা কমিশন, পরিকল্পনা মন্ত্রণালয়

স্বাক্ষরিত (সঃ দাঃ ওঃ সঃ)  
 উপ-সচিব  
 পরিকল্পনা বিভাগ

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গণপ্রজাতন্ত্রী বাংলাদেশ সরকার  
 পরিকল্পনা বিভাগ  
 সচিবালয়



10.0 Log Frame :

10.1 Planned Date for Project Completion : 01 January 2021 - 31 December 2025

10.2 Date of Log Frame Preparation : 18 November 2020

Name of Project: Bangabandhu Sheikh Mujib Shilpa Nagar (BSMSN) Development Project

	Narrative Summary	Objectively Verifiable Indicators (OVI)	Means of Verification (MOV)	Important Assumptions (IA)
	1	2	3	4
Goal	Accelerating the economic growth, employment generation and sustainable compliance practices.	Setting up Economic Zones in BSMSN for establishing industrial units.	<ul style="list-style-type: none"> <li>BBS, FD &amp; other government agencies documents; and</li> <li>Published documents by multilateral agencies, development partners, and any third party agencies.</li> </ul>	--
Objective/Purpose	Promoting private investment and job creation in economic zones of BSMSN and mainstreaming the environmental sustainability in the economic zones of Bangladesh.	<ul style="list-style-type: none"> <li>Ready land and offsite infrastructures for establishing economic zones that offer streamlined business and administrative services, improved connectivity for logistics and utility services, and a stable policy environment for EZ management.</li> <li>Increasing the reliance on renewable energy by installing solar panels in 50% of the industries along with using of solar powered street lights in the major parts of the internal road of EZs. Moreover, ensuring compliance certification for industries in operated zones of BSMSN.</li> </ul>	<ul style="list-style-type: none"> <li>Quarterly/ Annual progress reports generated by BEZA;</li> <li>Survey/ field visit reports generated by consultants;</li> <li>Project progress/ inspection reports generated by project authority; and</li> <li>WB/ third party reports.</li> </ul>	<ul style="list-style-type: none"> <li>Stable fund flow;</li> <li>Stable market price;</li> <li>Capable EPC contractors and PPP developers; and</li> <li>Stable policy communication and Smooth political environment.</li> </ul>

007



*D. M. A.*  
 দায়ানন্দ দেবনাথ  
 ইকসিকিউটিভ  
 ম্যানেজার (এম বাই এস ও পাবলিক)

*A. Rahman*  
 Anisur Rahman  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

*A. Rahman*  
 মোঃ গোলাম মোহাম্মদ  
 উপ-এক্সিকিউটিভ  
 সিনিয়র ও সিনিয়র বিভাগ  
 পরিচালনা কমিশন, পল্লিকরণা মন্ত্রণালয়




	1	2	3	4
	Narrative Summary	Objectively Verifiable Indicators (OVI)	Means of Verification (MOV)	Important Assumptions (IA)
Outputs	<ul style="list-style-type: none"> <li>Private investment and FDI;</li> <li>Green investment, compliance standards and resilience;</li> <li>Employment and women empowerment; and</li> <li>PPP operation and decentralization in EZ management.</li> </ul>	<ul style="list-style-type: none"> <li>Private investment along with FDI increased in BSMSN. The number of foreign investors increased and investing in BSMSN;</li> <li>Environmental compliances maintained and resilience capacity strengthened in operation of EZs at BSMSN. Practices for solar panel installation, rainwater harvesting, certification of compliances and standards, green building operation etc. exhibited;</li> <li>Participation of female workers raised and a large number new employment increased followed by the labor laws practices; and</li> <li>PPP operations for CETP, SWMF, Desalination Plant, Steam Network, MRF (Material Recovery Facility), and Solar Power established in BSMSN.</li> </ul>	<ul style="list-style-type: none"> <li>Project progress reports;</li> <li>IMED reports;</li> <li>ERD/WB records;</li> <li>Audit reports; and</li> <li>Monitoring and evaluation reports.</li> </ul>	<ul style="list-style-type: none"> <li>Stable fund flow;</li> <li>Stable market price;</li> <li>Stable market operation;</li> <li>Timely appointment of consultants/ firms and capable EPC contractors;</li> <li>Capacity of the PPP developers; and</li> <li>Smooth political environment.</li> </ul>
Inputs	(i) Road Network- 30 km and Storm Water Network (Drainage) - 31 km (Zone-2A & 2B).	(i) Constructed (a) 10 km road and 18 km storm water network at Zone-2A from January 2021 to November 2023, (b) 6 km road and 13 km storm water network at Zone-2B from January 2021 to December 2023, and (c) 14 km access road to Zone-2A & 2B from July 2021 to June 2024.	<ul style="list-style-type: none"> <li>BEZA records;</li> <li>Project documents;</li> <li>IMED reports;</li> <li>ERD records; and</li> <li>WB records.</li> </ul>	<ul style="list-style-type: none"> <li>Stable fund flow;</li> <li>Timely approval of project;</li> <li>Timely appointment of project personnel/individual consultants;</li> <li>Coordination within the stakeholders;</li> <li>Stable political and environmental situation; and</li> <li>Availability of</li> </ul>
	(ii) Power Network (1 item), Gas Pipeline (28 km), and Telecommunication Network (25 km) (Zone-2A & 2B).	(ii) Constructed (a) power network (1 item) from May 2021 to March 2024, (b) 28 km gas line network from February 2021 to December 2023 and (c) 25 km telecommunication network from February 2021 to May 2023 at Zone-2A & 2B.		
	(iii) Water Supply & Sewer Network - 40 km (Zone-2A & 2B).	(iii) Constructed (a) 30 km water supply network with fire hydrant from January 2021 to October 2022 and (b) 10 km sewer network from August 2021 to April 2023 at Zone-2A & 2B.		

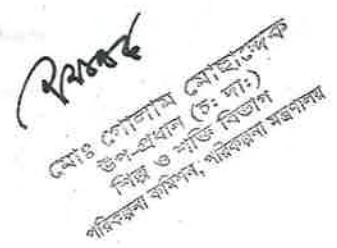
*Anisur*  
 দায়িত্ব পালন  
 মুদ্রাস্বাক্ষর  
 ব্যবস্থাপক (এম জি এন ও গবেষণা)

*Rahman*  
 সিনিয়র সিনিয়র  
 উপ-প্রোগ্রাম (সি: ডাঃ)  
 শিল্প ও শক্তি বিভাগ  
 পরিকল্পনা কমিশন, পরিকল্পনা মন্ত্রণালয়

Narrative Summary 1	Objectively Verifiable Indicators (OVI) 2	Means of Verification (MOV) 3	Important Assumptions (IA) 4
(iv) Resilient Site Development (Zone-6).	(iv) Furnished lump-sum open space and land scraping, greenery along the road, percolation pits etc. for resilient purposes at Zone-6 from September 2021 to November 2024.		relevant experts.
(v) Environmental Monitoring Lab (Zone-6).	(v) Constructed 1 no. environmental lab and monitoring system at Zone-6 from March 2021 to May 2023.		
(vi) Channel Lining- 10 km (Zone 2A & 2B).	(vi) Constructed 10 km canal development and lining at Zone 2A & 2B from January 2021 to December 2023.		
(vii) Security Support Amenities (Zone 2A & 2B and Others).	(vii) Constructed protection wall/fence (1 item), surveillance (1 item) at BSMSN covering Zone-2A & 2B from June 2021 to April 2024.		
(viii) Mosque (Zone 2A) and Emergency Response Centre (Zone 2B).	(viii) Constructed 1 no. mosque at Zone 2A and 1 no. emergency response center at Zone 2B from June 2021 to April 2024.		
(ix) Investor Club (Zone-6).	(ix) Constructed 1 no. investor club at Zone-6 from March 2021 to November 2023.		
(x) OSS Centre for BSMSN (Zone-1).	(x) Furnished OSS center inside the admin building of BEZA (Zone 1) for BSMSN from October 2021 to June 2023.		
(xi) Land Development-100 lac cum (Zone-13).	(xi) Implemented 1 (one) hundred lac cum land development at Zone-13 from December 2021 to October 2024.		
(xii) PPP Structures (4 nos.) – CETP, Desalination Plant, Steam Network, and Rooftop/Floating Solar (Zone 2A & 2B).	(xii) Constructed (a) 48 MLD central effluent treatment plant from May 2021 to October 2024, (b) 30 MLD desalination plant from December 2021 to April 2025, (c) 70 MW rooftop/ ground mounted and floating solar plant from December 2021 to November 2024, and (d) 12.14 km steam network from October 2021 to February 2024 under PPP model at Zone-2A & 2B.		

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 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh


  
 মোঃ গোলাম মোহাম্মদ  
 উপ-সচিব (সি: দাঃ)  
 শিল্প ও শক্তি বিভাগ  
 গরীবকলা ফার্মস, গরীবকলা মহাসড়ক

Director  
Atisur Rahman

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Narrative Summary 1	Objectively Verifiable Indicators (OVI) 2	Means of Verification (MOV) 3	Important Assumptions (IA) 4
(xiii) PPP Structures (2 nos.) – SWMS and Biogas Plant (Zone-23).	(xiii) Constructed (a) 1 no. solid waste management plant from October 2021 to April 2025 and (b) 1 MW biogas plant including waste sorting and material recovery facilities (1 item) from December 2021 to November 2024 under PPP model at Zone-23.		
(xiv) Skill Development Centre (Zone 2A) and Child Care & Health Centre (Zone 2B).	(xiv) Constructed 1 no. skill development center at Zone 2A and 1 no. child care & health center at Zone 2B from April 2022 to April 2025.		
(xv) Study/TAS Firms (Consultant firms).	(xv) Conducted (a) 7 feasibility study for different zones, 1 port feasibility study for BSMSN, 1 national master plan study for economic zone development, and 1 integrating master plan study for BSMSN to integrate Sandwip and Companiganj with Mirsarai, Feni and Sithakundo, (b) conducted EIA/SIA studies, policy & management, monitoring & supervision etc. for BSMSN and other zones and (c) 14 advisory services by appointing TAS firms on PPP, regulatory reform, CETP, port, desalination, smart city, green zone etc. from May 2021 to December 2025.		
(xvi) Capacity Building Programs (Training/Study Tour, Seminar/Workshop, Voucher/Grant program, and Individual Consultancy).	(xvi) Conducted different training programs, study tour and investment promotion seminar in home and abroad for capacity building of BEZA, ensured green and resilience services for at least 150 companies established in BSMSN under grant program, and trained about 20,000 people (including higher level training for 2,000 people) on different trades to ensure skilled manpower in BSMSN under voucher program, and appointed 28 key-experts specialized in different area including 20 non-key personnel as counselor/technician during the project period to strengthen BEZA capacity.		

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11.0 Project Management

: Please see *Annexure II*.

11.1 Proposed Project Management Setup (As per *Annexure III*):

The total manpower of the project recommended by inter-ministerial committee of Finance Division dated 05.07.2020 is 103 nos. whereas 11 nos. come from deputation (Project Director- 1 no., Deputy Project Director- 3 nos., Assistant Project Director- 3 nos., Executive Engineer- 3 nos. and Account Officer- 1 no.) and remaining 92 nos. in various positions are the outsourcing employees (*Appendix VIII*). The project team, headed by the Project Director, will be treated as Project Implementation Unit (PIU) and have the sole responsibility to implement the project.

11.2 Implementation Arrangement

: The project will be implemented by BEZA and the regular progress reports of the project will be presented to the Project Steering Committee (PSC) on at least a semi-annual basis. The committee will be made up as per government instruction stated in the guideline of project approval process. Beyond that a Central Coordination Unit (CCU) will be established by the Economic Relations Division (ERD) of the Ministry of Finance to prepare IJFRs, coordinate inputs and monitor progress. BEZA, with the help of WBG team, will prepare the Project Operation Manual (POM) that will be reviewed and cleared by the World Bank ahead of project effectiveness and the manual will guide major activities. Furthermore, the Project Implementation Unit (PIU) described above will be the core management to implement the project and the detailed project management setup is shown in *Appendix IX*.

12.0 Financial and Procurement Plan

12.1 Procurement Plan : Procurement plan is shown in *Annexure- III (a), III (b) & III (c)*  
(As per *Annexure III(a), III(b) & III(c)*)

12.2 Year wise Financial & Physical plan is shown in *Annexure IV*  
and Physical Target

13.0 After completion, whether the output of the project needs to be transferred to the revenue budget

: Yes

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আইসিআই  
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*Arifur Rahman*

13.1 If yes, briefly narrate the institutional arrangement and technical & financial requirement for operational and maintenance

: On completion of the project, the outputs/activities need to be maintained and it will be done by BEZA under its revenue setup. Furthermore, there are more other projects in BSMMSN beside this project and all the outputs/activities including this project will be regulated under BEZA. It is noted that the Bangabandhu Sheikh Mujib Shilpa Nagar (BSMMSN) is formed by the territory of three economic zones called Mirsarai EZ, Feni EZ and Sitakundu EZ. An organizational setup for Mirsarai EZ is already formed under revenue framework of BEZA to maintain and operate this zone (*Appendix X*). All other institutional arrangements will also be established under BEZA as and when necessary for operational and maintenance purpose of BSMMSN.

13.2 If not, briefly narrate the institutional arrangement and financial requirement for operation and maintenance

: Not applicable



Signature of the Officer Responsible for the  
Preparation of the DPP with Seal and Date

**Doyananda Debnath**  
Joint Secretary  
Manager (MIS & Research)  
Bangladesh Economic Zones Authority  
Prime Minister's Office

**Doyananda Debnath**  
Joint Secretary  
Manager (MIS & Research)  
Bangladesh Economic Zones Authority  
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**Ahisur Rahman**  
Director  
Prime Minister's Office  
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ফোন ও অফিস ফ্যাক্স  
স্বাক্ষরিত, স্বাক্ষরিত

## PART-B

### Project Details

#### 14.0 Background Information and Linkages

##### 14.1 Background with Problem Statement:

Bangladesh has made rapid social and economic progress in recent decades and the country could attain middle-income status in the coming decade if it maintains its economic growth momentum. In 2018, the gross domestic product (GDP) per capita in purchasing power parity terms reached US\$3,879. The annual growth rate increased from an average of 4.5 percent in the 1990s, to 6.2 percent in the 2000s, and it reached 7.2 percent in 2010-18. A combination of strong human development programs, a vibrant private sector and large inflows of financial remittances have contributed to the development record. More recently, exports have grown somewhat slower and the total number of garment jobs has hardly changed. Three out of five Bangladeshi workers find themselves in vulnerable employment. Most women remain in the household instead of entering the labor market.

Bangladesh needs to increase private investment—and especially foreign investment—to raise productivity levels, diversify exports and accelerate economic transformation. Bangladesh is not attracting near enough foreign direct investment (FDI) to help propel a new phase of economic transformation. Inflows of FDI remained low and static in 2015-17 at US\$2.2 billion per year. Bangladesh would have much to gain from the capital, technology, innovation and managerial knowhow that may accompany FDI. But it is well behind emerging economies in the region such as Cambodia, India, Myanmar and Vietnam when it comes to FDI inflows per capita or as a share of GDP. Without an emerging market for serviced industrial land, Bangladesh is unlikely to attract the private investment it needs to transform manufacturing and industrial production. Investment decisions by industrial groups in Bangladesh are today often linked to economic zones that promise to bridge this gap.

The GoB has taken bold steps to address the challenges of entry barriers and access to serviced industrial land for Greenfield investors and efficient workspaces for service providers to complement economy-wide reforms. One of the legislative accomplishments in the last decade was the creation of Bangladesh Economic Zones Authority (BEZA) to spearhead the push towards industrialization with greater involvement of the private sector. The Bangladesh Economic Zones Authority Act 2010 created a semi-autonomous agency—the Bangladesh Economic Zones Authority (BEZA) under the Prime Minister's Office—tasked to oversee the expansion of economic zones (EZs) in the country. The objective was to move away from the old export processing zones (EPZs) regime under the Bangladesh Export Processing Zones Authority (BEPZA), which is publicly owned, developed and operated, and introduce a modern regime that relies more on private capital and expertise. BEZA tenants thus serve both domestic and foreign markets with associated opportunities to establish backward and forward economic linkages.



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To date, however, BEZA has been significantly more successful in developing and connecting land suited for Greenfield investors, which is a highly complex challenge in Bangladesh, and attracting the kind of foreign investors needed for transformational change. BEZA is therefore more likely to offer a compelling service to electronics manufacturers as well. In the interest of making effective use of public resources and increasing the likelihood of attaining GoB policy objectives, the World Bank Group has advised BEZA to continue to focus on developing the market for serviced industrial land what will effectively address binding constraints to private sector investment and growth.

BEZA was established to lay the foundation for a market of serviced industrial land to attract private investment and create jobs in manufacturing and industry. After a slow start it has built significant momentum. The first years following the adoption of the BEZA Act in 2010 were dedicated to issue regulations, establish the physical structure of the institution, recruit a core management team, and put in place basic operational structures. This process was slow and managed mostly by seconders from other government departments. But by this time BEZA became fully operational and started to build up a public land bank. It issued its first license for a private economic zone (PEZ) in August 2016. BEZA issued 4 more PEZ licenses in 2017, 2 in 2018 and 3 in 2019. BEZA also leased its first public land plots through an open competitive bidding process to developers in Mongla (Dec. 2015) and in Mirsarai (Dec. 2017).

On the other hand, in May 2019, a joint venture was announced between BEZA and Sunimomo Corporation to develop an economic zone over two phases on 500 acres southeast of Dhaka. This follows on similar interest shown by Korean and Chinese groups. BEZA is in discussions with other producers of similar global brands and it announced a venture with Adani Group of India in October 2019 to establish an economic zone for Indian investors in Bangabandhu Sheikh Mujib Shilpa Nagar (BSMSN). Anchor investments of this kind signal that foreign multinationals are looking to enter Bangladesh.

BEZA's vision of licensing 100 EZs and creating 10 million jobs by 2030 is ambitious and the GoB is adamant that industrial expansion takes place in economic zones. The GoB's policy of concentrating industrial and manufacturing agglomerations in dedicated economic zones has as much to do with safeguarding agricultural production and food security objectives as it have with economic policy and job creation objectives. The GoB's long-term goals are to some extent backed up by BEZA's actions. Over a relatively short period of time it has built one of the largest public land banks in the country, issued 13 licenses to economic zones, attracted private investments worth US\$ 3 billion, and developed an investment pipeline of US\$ 18 billion. It has quickly become the indispensable partner to manufacturers and industrialists. There are signs that Bangladesh may be on the cusp of becoming a new frontier market for market-seeking foreign investment and possibly for efficiency-seeking foreign investment too. But old concerns and perceptions about Bangladesh's ability to accommodate and partner with foreign investors must continuously be addressed.



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Thus BEZA needs to tackle some considerable capacity constraints to build upon its early success. BEZA has gained a reputation as an accessible and committed partner to private investors—domestic as well as international—and it plays a leading coordinating role between government entities. It is regarded as a positive change agent that is genuinely striving to improve Bangladesh's investment climate. Investors stress the need for BEZA to maintain its momentum in the implementation of its agenda. But after five years of hyperactive development and rapid business growth BEZA faces some considerable capacity constraints. The institution needs to strengthen its core expertise and urgently build capacity in areas critical to its continuing success, including in planning, asset and financial (pricing) management, social and environmental safeguards management, monitoring and regulatory enforcement, and in proactively inviting and structuring private participation.

Moreover, it needs to avoid distractions to its core functions and focus on securing and realizing the most strategic developments that are underway. Adopting a more strategic and structured approach to leverage partnerships with the private sector is essential to improve service delivery and reduce the investment requirements on behalf of the GoB. Strategic public investments should gravitate towards locking in high quality projects by credible investors that can help diversify the economy and generate employment. In this regard, BEZA should review and update the numerical targets in BEZA's vision and mission statements to focus on quality rather than quantity; and ensure that private developers create a dynamic market for serviced industrial land with BEZA helping to address government and private market failures.

The demand for serviced industrial land is highest along the emerging national economic corridor between metropolitan Dhaka and Cox's Bazar, with focus on south-east Dhaka, Mirsarai-Feni and Moheshkhali. The biggest undertaking along this corridor is the ongoing work to develop economic zones in Mirsarai-Siakunda-Feni i.e. Bangabandhu Sheikh Mujib Shilpa Nagar (BSMSN). The GoB has in the last four years invested around US\$ 500 million in developing and connecting the site. The first phase of this development covers an area of nearly 2000 acres in three plots referred to as Zone-1, Zone-2A and Zone-2B. The Zone-1 (548 acres) is leased to a joint venture of a few large domestic firms. On the other hand, Zone-2A (939 acres) is allocated to 27 unit investors/ industrial tenants mainly in light industry/ manufacturing and Zone-2B (474 acres) has been allocated to 77 unit investors mainly in textiles and garment companies with the help of the Bangladesh Garment Manufacturers and Exporters Association (BGMMEA). The land for plots Zone-2A and Zone-2B has been raised and will be ready for development and construction in mid-2020. A super-dike, breakwater and a new access road to the Dhaka-Chattogram highway are also almost completed to make functional the BSMSN.

BSMSN is conceived as an agglomeration of economic zones that will be developed in phases under its recently revised Land Use Plan (*Appendix XI*). The response by investors and private industry has been strong and expectations are high. The location is in many ways ideal as it covers a relatively large land area without settlements between



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১৩৬-এস/১৩৬-এস/১৩৬-এস

the Bay of Bengal and the country's main transport corridor Dhaka-Chattogram Highway.

Notably, BEZA stated the development work firstly targeting Zone-1 and these initial activities were taken under 'Bangladesh Economic Zones Development Project (Phase-1)' financed by IDA through 'Bangladesh Private Sector Development Support Project (PSDSI)'. Though the project was initially targeted only development for Zone-1, the development works goes beyond this zone and implemented in different areas under periphery of BSMSN. The physical works that are taken under Phase-1 project are mainly land development, road, bridge/culvert, embankment/super-dike, sluice gate etc. and the project is targeted to complete in January 2021 (*Appendix XII*).

It is mentionable that BEZA has turned into a strong and capable implementing partner since the start of its function in 2014. BEZA's rapid growth has naturally led to staff and consultants playing catch up in some areas to respond to numerous assignments and constant negotiations with public and private partners. Extensive consultations with its stakeholders paint a clear picture of an authority with high standards of integrity, a dedication to deliver results, and a work ethic that is at the forefront of government entities in Bangladesh.

The World Bank thus targets indeed for further support to BEZA on this journey and sanctioned a loan amounted to US\$ 470 million (total amount is US\$ 500 million or EUR 459,800,000) towards BEZA under 'Bangladesh Private Investment and Digital Entrepreneurship Project (PRIDE)' for development of BSMSN (*Appendix XIII*). Noted that this IDA loan is mainly allotted for infrastructure development of Zone-2A & Zone-2B by putting a clear roles and responsibilities in technical areas such as resilient infrastructure, PPP transactions, investment facilitation and promotion. The PRIDE negotiation between the Government of Bangladesh and the International Development Association (IDA) of World Bank was held at the Bank's office in Dhaka on 11 May 2020 (*Appendix XIV*) following the inter-ministerial negotiation meeting dated 3 May 2020 held in ERD (*Appendix XV*).

The PRIDE which is precisely to support BEZA has the following 3 (three) components mentioned in the agreed Project Appraisal Document (PAD):

- Component 1: Creating an enabling Environment for Private Investment and Sustainability;
- Component 2: Developing a Greened and Climate Resilient BSMSN; and
- Component 3: Creating a Dynamic Private Market for serviced Industrial Land.

After getting the sanction of PRIDE; from IDA, BEZA formulated a project (DPP) entitled "Private Investment and Digital Entrepreneurship (PRIDE) for BEZA Project" for infrastructure development in 2A & 2B zones along with surrounding zones of BSMSN to attract unit investors to establish industry. The DPP was considered in the 'Project Scrutiny Committee (PSC)' meeting held on 13 April 2020 at Prime Minister's Office (*Appendix XVI*). Further the 'Project Evaluation Committee (PEC)' meeting was held on 15 June 2020 in the Planning Commission and the project is recommended for



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approval (*Appendix XVII*). The DPP is recasted according to PEC recommendation and the project cost is estimated to BDT 436704.10 Lac (GoB- 39711.60 Lac Taka + PA- 396992.50 Lac Taka). The project implementation period is proposed from January 2021 to December 2025. Moreover, the project is considered by the 'Project Evaluation Committee (PEC)' for 2<sup>nd</sup> time and the meeting was held on 12 November 2020 (*Appendix XXXV*). The present recast DPP is now estimated to BDT 434721.02 Lac (GoB- 37974.20 Lac Taka + PA- 396746.82 Lac Taka) according to PEC recommendation.

The project targets development of various infrastructures in Zone-2A & Zone-2B along with other surrounding zones of BSMSN including consultancy services. The physical works that are planned to implement under 'Bangabandhu Sheikh Mujib Shilpa Nagar (BSMSN) Development Project' are mainly road network, investor club, emergency response center, skill development center, drainage structure, water, power and gas networks, land development, PPP components etc. The project area covers mainly zones 1, 2A, 2B, 6, 13 and 23 of BSMSN (*Appendix XVIII*).

It is noted that, however, the project was named initially as 'Private Investment and Digital Entrepreneurship (PRIDE) for BEZA Project'; it is renamed as 'Bangabandhu Sheikh Mujib Shilpa Nagar (BSMSN) Development Project' because of decision taken in PEC meeting for renaming the project according to its scope.

This project will concrete the way of industrialization to comprehend the Five Year Plans and Perspective Plans (Vision 2021 & 2041) of the Government. Mentionable, the project is directly linked to the strategic goals (SG 2: Turning Bangladesh into a middle income country and SG 4: Industrial development in Bangladesh towards competitive world) of Vision 2021 and the universal goals (SDG 9: Build resilient infrastructure, promote inclusive and sustainable industrialization, and foster innovation) of SDG 2030.

It is already mention that the ongoing project 'Bangladesh Economic Zones Development Project (Phase-1)' and the proposed 'Bangabandhu Sheikh Mujib Shilpa Nagar (BSMSN) Development Project' are totally separate project. However, in some cases, the development area under these two projects is same. It is further mentionable that the components of these two projects are different and aligned the each other. After the completion of these two projects the operation and maintenance of the zones including all infrastructures developed under project will be managed by BEZA.

#### 14.2 Linkages (to Other Projects & Institutions):

Bangladesh Economic Zones Authority was established by the 'Bangladesh Economic Zones Act 2010' for the development of economic zones in all potential areas including backward and underdeveloped regions with a view to encouraging rapid economic development through increased diversified industry, employment, production and export. The Vision 2021 clearly spells out the goal of truing Bangladesh into a middle income country by 2021 with equitability and inclusiveness. The technical framework designed to achieve growth and related dimensions of the macro economy shows that the economy needs to grow at a consistently high rate over the next eleven years for the vision to be



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realized. Accordingly, the Perspective Plan targets annual real GDP growth rate to rise to 8.0 per cent by 2017, and further to double digit growth rate by 2021, significantly improving living standards of the population by drastically reducing unemployment and poverty, riding on substantially higher output and export growth.

#### 14.3 Poverty Situation:

It is expected that the project will play significant role in poverty alleviation through employment generation. The benefits included: (a) direct employment creation and income generation (b) export growth and export diversification (c) foreign exchange earnings (d) foreign direct investment etc. will help the country to reduce poverty and achieve economic development through industrialization.

#### 15.0 Project Description

The Government of Bangladesh (GOB) has taken up an initiative to provide industrial land and infrastructure to increase private and foreign investment to support its development goals. BEZA aims to establish economic zones in all potential areas including backward and underdeveloped regions with a view to encouraging rapid economic development through increased and diversified industries, employment, production and export enhancement. Beside the on-going 'Bangladesh Economic Zones Development Project (Phase-1)' supported by IDA under PSDSP, the World Bank agrees to finance further to another new project entitled 'Bangabandhu Sheikh Mujib Shilpa Nagar (BSMSN) Development Project' under PRIDE for setting up of BSMSN. Notably, PSDSP also supported the preparation of master plan to setup BSMSN which is at the final stage of completion (*Appendix XIX*). BSMSN will be built up on an area of around 30,000 acres at Mirsarai, Sitakunda and Sonagazi Upazilas that is being developed under PSDSP. The PRIDE will build upon the foundation laid by PSDSP and strengthened capacity to start delivering by BEZA on their mandates. It is also noted that the project appraisal has been conducted by the World Bank. The independent feasibility study (feasibility for Zone-1 and pre-feasibility for Zone-2 of Mirsarai EZ) is also conducted for this project during the pre-appraisal phase (*Appendix XX*). The economic and financial analysis is also piloted following the feasibility and appraisal reports available and the analysis shows positive viability of the project (*Appendix XXI*).

#### 15.1 Objectives:

The objective of the project is to promote private investment and job creation in economic zones of BSMSN and mainstream the environmental sustainability in the development of economic zones in Bangladesh.

#### 15.2 Outcomes:

The outcome of the project has to be defined as:

- Enabling environment for private investment in economic zones of BSMSN;
- Greener and resilient BSMSN that will showcase the benefits of incorporating concepts of resilience and sustainability in the development of economic zones;
- Mainstreaming of sustainable and climate resilient practices in economic zones;
- Economic decentralization by establishing of SPV for PPPs (short term) and for BSMSN (long term); and



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ডায়েরী নং: ১০৬৩/১৭  
শিল্পায়ন প্রাধিকারক

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শিল্পায়ন প্রাধিকারক

গণপ্রজাতন্ত্রী বাংলাদেশ  
শিল্পায়ন প্রাধিকারক-১  
স্বাক্ষরিত: ১৫.০৬.১৭  
শিল্পায়ন প্রাধিকারক

➤ Direct private investment in economic zones of BSMSN.

### 15.3 Outputs

The project is targeted to achieve the following outputs:

- Private investment and FDI;
- Green investment, compliance standards and resilience;
- Employment and women empowerment;
- PPP operation and decentralization in EZ management; and
- Efficient management in BEZA and BSMSN.

### 15.4 Activities:

To achieve the above mentioned objective/outcomes the following activities will be implemented under the project:

- Conducting studies for different purposes such as feasibility, master plan, EIA/SIA, policy and regulatory reform etc.;
- Preparing an inventory of local micro, small and medium-sized enterprises around BSMSN;
- Developing a national framework for Green Economic Zones to strengthen compliance mechanisms for economic zones development, resilient buildings, energy-efficient production etc.;
- Hiring Transaction Advisory Services (TAS);
- Implementing infrastructures in BSMSN such as Road Network (30Km), Storm Water Network (31Km), Power & Telecommunication Network, Water Supply & Sewer Network (40Km), Gas Pipeline Network (28Km), Resilient Site Up-gradation and Building Development, Security and Support Amenities etc.;
- Establishing PPPs for Common effluent treatment plant, Desalination plant, Rooftop and floating solar, Steam network, Biogas plant, and waste sorting & material recovery facility;
- Implementation of landfilling in BSMSN;
- Implementing capacity building and investment facilitation and promotion programs; and
- Creating new employment opportunity in the economic zones of BSMSN.

The time-bound action plan to implement the proposed activities is shown in DPP (Appendix XXII).

15.5 Sex disaggregated data for target : The project will secure the benefit to both population & constraints faced by men and women equally.

15.6 Population Coverage : The project will secure the benefit to the regional as well as national level.

16.0 Whether any pre-appraisal/feasibility study/ pre-investment study were done before formulation of this project? If so, : The preparation of master plan to setup BSMSN is at the final stage of completion (Appendix XIX). The independent feasibility study (feasibility for Zone-1 and pre-feasibility for



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attach summary of findings & recommendations (if not, mention the causes)

Zone-2 of Mirsarai E2) is also conducted for this project (*Appendix XX*).

17.0 Financial Analysis (*Attach calculation sheet*)

The economic and financial analysis is piloted following the feasibility and appraisal reports available and the analysis shows positive viability of the project (*Appendix XXI*). The output of financial and economic analysis is follows:

17.1 Net Present Value (NPV) :  
(*considering 12% discount rate*)  
(i) Financial : US\$ 324.08 million  
(ii) Economic : US\$ 9929 million

17.2 Benefit-Cost Ratio (BCR) :  
(*considering 12% discount rate*)  
(i) Financial : 2.43  
(ii) Economic : 3.00

17.3 Internal Rate of Return (IRR) :  
(i) Financial : 25.71%  
(ii) Economic : 32.00%

18.0 Lessons Learnt from Similar Nature of Project

18.1 Indicate which issues lead to make project successful

: The experience from PSDSP and other similar projects, it is suggested that incorporating concepts of efficiency, resilience and sustainability at the heart of planning and development of economic zones will help boost the competitiveness of Bangladeshi industries and combat negative externalities. Moreover, the experience also shows that it is essential to bundle and package civil works activities into contracts of a size that can attract credible construction companies. Therefore, the project will seek to ensure timely delivery of works to international standards by bundling works activities into fewer but larger procurement packages, so they attract reputed contractors that take part in international competitive bidding.



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মন্ত্রণালয় সেক্রেটারি  
মুদ্রাসিদ্ধ  
করসংসদ (ক্র.সং. ৩৭ ও ৩৯/৯০)

*Q. J. Akter*  
সিনিয়র সিস্টেম এনালিস্ট  
প্রোগ্রামিং সিস্টেম  
সিস্টেম এনালিস্ট, সিস্টেম এনালিস্ট

18.2 Indicate which : Not Applicable.  
issues did not work well

19.0 Basis of Item wise Cost Estimate and Date:

Sl.	Major Items	Unit	Unit Cost (Lac Taka)	Basis	Source	Date
1	2	3	4	5	6	7
1.	Road Network	Km	1393.33	RHD	Schedule 2018	
2.	Drainage structures	km	683.87	PWD	Schedule 2018	
SL	Major Items	Unit	Unit Cost (Lac Taka)	Basis	Source	Date
1	2	3	4	5	6	7
3.	Sanitation & Water Supply	Km	467.50	PWD	Schedule 2018	
4.	Excavation (Channel Lining)	km	508.50	BWDB	Schedule 2018	
5.	Land Development	Lac cum	255.00	BWDB	Schedule 2018	

20.0 Comparative Cost of Major Items of Similar Other Projects:

Sl	Major Items	Unit	Unit Cost of the Item (Taka in Lac)			Remarks
			Proposed Project	Similar Ongoing Project <sup>5</sup>	Similar Completed Project <sup>6</sup>	
1	2	3	4	5	6	7
1.	Road Network (2 Lane)	Km	893.00	915.00	N/A	The design of proposed road network is different and the comparison is made only 2 lane road.
2.	Land Development	Lac cum	255.00	258.00	N/A	

\* Name of similar ongoing project(s): The road network estimation is compared to the similar project named 'Abu-turab (Barakia) to Mirsarai Economic Zone connecting road, Chittagaong Division, RHD' (Ref: Annexure-IV-8) and the land development estimation is compared to the project named "Bangladesh Economic Zones Development Project (Phase-1)" implemented by BEZA.  
\*\* Name of the similar completed project(s): None

**Road Network:** The road implemented under "Bangladesh Economic Zones Development Project (Phase-1)" is 2-lane where the proposed road network to be implemented under "Bangabandhu Sheikh Mujib Shilpa Nagar (BSMSN) Development Project" is 4-lane (4 km) and 2-lane (26 km) including 5 bridges/culverts. Therefore, the unit rate for road construction under "Bangabandhu Sheikh Mujib Shilpa Nagar (BSMSN) Development Project" is different from ongoing "Bangladesh Economic Zones Development Project (Phase-1)".

**Land Development:** The land development under proposed "Bangabandhu Sheikh Mujib Shilpa Nagar (BSMSN) Development Project" is near to "Bangladesh Economic Zones Development Project (Phase-1)" where the land development work rate is taka 258 per cum. Thus the development rate is proposed for taka 255 per cum under "Bangabandhu Sheikh Mujib Shilpa Nagar (BSMSN) Development Project".

21.0 Detailed Annual : Attached in Annexure V.  
Phasing of Cost (As per Annexure V)

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22.0 Specification/Design of  
Major Items

: The estimated cost of physical work is prepared based on preliminary designs of work components. The detailed costing including indicative design is enclosed in the DPP (*Appendix IV*). It is noted that the estimated cost of physical works is computed following the respective agencies rates of schedule (e.g. BWDB, R&H, LGED, DPHE etc.). Furthermore, the Terms of Reference (TOR) of consultancy services (both individual and firm) is also enclosed in the DPP (*Appendix V & VI*) along with an outline of voucher program and grant program (*Appendix VII*).

23.0 Amortization Schedule  
for Projects having  
involvement of Loan  
from Government (as per  
*Annexure VI*)

: Attached in *Annexure VI*.

N. B.: Moreover, the amortization schedule for project having involvement of loan from IDA under PRIDE is enclosed in the recast DPP (*Appendix XXIII*).

24.0 The effect/impact, adaptation and specific mitigation measures thereof, if any, on:  
24.1 Other  
projects/existing  
installation

: The experience from PSDSP and other projects is that it is essential to bundle and package civil works activities into contracts of a size that can attract credible construction companies. If the contractors (normally small contractors) tend to struggle to deliver the works on time and to adequate standard the project falls at a risk for timely implementation. Because, a significant delay by one contractor put the entire time schedule at risk for the development of the economic zone. Therefore, the project will seek to ensure timely delivery of works to international standards by bundling works activities into fewer but larger procurement packages, so they attract reputed contractors that take part in international competitive bidding.

24.2 Environmental  
sustainability like land,  
water, air, bio-diversity,  
ecosystem services (if  
the project is 'Red  
Category' attach the  
EIA document)

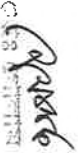
: The proposed project is classified under red category as per Environmental Conservation Rules, 1997. Thus it has carried out a detailed EIA study along with EMP for the proposed project as per Environmental Conservation Rules, 1997 (*Appendix XXIV*) and obtained approval of DOE for the project (*Appendix XXV*). The physical environment focus is on climate, topography, soil, geology, water resources, water quality, flooding and drainage, and the ecological sensitivity of the area. The EMP covered all the mitigation measures, implementation responsibilities and monitoring plans, to address the adverse impacts. A detailed set of mitigation measures have been compiled in view of the likely impacts associated with the proposed off-site development in BSMSN. The EMP consists of a set of



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#### 24.3 Future disaster management, climate change

mitigation, monitoring and institutional measures to be taken during the design, construction and operation (post-construction) stages of the project. The IEMP has been designed keeping in view the regulatory and other requirements to ensure minimum disturbance.

: All reasonable precaution/ mitigation/ training measures shall be taken as detailed in the IEMP to reduce the worker's and public risk exposure from man-made hazards, spills of flammable liquids, accidental release of toxic substances, terrorist activities, threat, hostage incident, loss of water supply etc. which may take place at IZ, site as well as natural hazards like flood, cyclone and earthquake, etc. since its located in cyclone prone area.

#### 24.4 Gender, women, children, person with disability/excluded groups needs

: Women are mostly engaged in household work. Thus, employment opportunities for women created by the proposed EZ directly or indirectly are expected to provide them better socioeconomic status. Through employment, women will be empowered economically by being self-reliant and may become more socially aware. This could lead to their having more decision making power in their respective families and communities. This will also encourage the parents to send their children to school and withdraw them from wage earning activities. At the same time girl's education due to parent's better economic condition and awareness will prevent early and child marriage as girl's education will automatically retain them in school and will create social awareness and relieve the pressure of marrying them off at an early age. Since, development activities in different IZs of the project will be decentralized both skilled and unskilled women/underprivileged/minorities will be engaged for their income generation. This financial support/income will help to child education, improvement of child malnutrition and mortality.

#### 24.5 Employments

: The population that will enjoy the great benefits and positive impacts of jobs being created by the advent of this zone. The private owners of agricultural land will be compensated according to standard provisions. As the IZ will provide job opportunities and better wages, the poor population will benefit from that. The project will make provision for the agricultural landowners and agricultural labor to be given priority in employment and recruitment in

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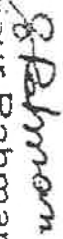
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the EZ. Job opportunities would increase for local community during construction & operation phase of the Economic Zone. Moreover, there would be a huge employment opportunity associated with development and operation of the industries. By 2040, the expected employment in BSMSN area will be 641459 (Source: BSMSN Master Plan, 2019).

#### 24.6 Poverty alleviation

: There are both direct and indirect benefits included in Economic Zone. The direct benefits are quite straightforward and include: (a) direct employment creation and income generation (b) export growth and export diversification (c) foreign exchange earnings (d) foreign direct investment and Government revenues. The impact of these benefits is obviously amplified in the economy of Bangladesh. The indirect benefits are much difficult to measure, but are far more important to the long-term contributions from zone development. These include: (a) indirect employment creation through backward and forward industries (b) skills upgrading (c) female employment (d) technology transfer (e) "demonstration effect" arising from application of "best practices" (f) regional development. It is expected that BEZA will play significant role in poverty alleviation through employment generation as well as women empowerment in the project. Diversification in livelihood through industrialization and related trades will create direct employment and indirect employment in the zone area. Industries include textile, ceramics, and food processing etc. which are suitable for women and do not require high skill. So, this will enormously benefit a cross section of the population and both genders. On the other hand heavy duty industries require high skill labor, so some skilled people will migrate to zone, that will eventually generate more economic activities.

  
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#### 24.7 Organizational arrangement/setup

: A Project Implantation Unit (PIU) will be established under BEZA for implementation of the project. It will work under direct supervision of Executive Member (Planning and Development) of BEZA. The Project Implementation Unit (PIU) is enclosed in the DPP (*Appendix IX*).


The PIU will be responsible for:

- managing the project efficiently and effectively;
- preparing the work plan;
- preparing the financial and procurement plan;



  
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- d. preparing and submitting quarterly progress reports, financial report and forecasting progress based on a six-month estimated expenditure and approved work plan;
- e. maintaining all records of the project;
- f. facilitate audits and responding to audit objections;
- g. arrange and conduct all meetings;
- h. arrange and conduct all procurement contracts;
- i. preparing background documents, project briefings, media briefings etc. and provide information to all stakeholders.
- j. operate and maintain bank account to operate the financial transactions of the project.

Moreover, after implementation of the project it will be administered by an organizational setup of BFE/A (Appendix X).

#### 24.8 Institutional Productivity

: Productivity will improve as the workers will be able to learn by doing. The workers will be trained in their respective trade to improve skills and productivity. A pool of skilled workers will be available through transfer of technology in a competitive environment.

#### 24.9 Regional disparities

: Implementation of the project will create employment, generate income for the workers and improve the welfare of the working families. People from all areas of the country will be able to work in the economic zones. Ancillary industries will be established surrounding the economic zones creating more employment in those industries. Regional disparities will be minimized when economic zones will be fully operational. Since, development activities in different EZs of the project will be decentralized both skilled and unskilled women/underprivileged/minorities will be engaged for their income generation. Ultimately the whole country will be benefited through the project.

#### 24.10 Populations

: According to the Census 2011 report, the total population in Misarai upazila 398716. Total HH of the Upazila is 7954 & total land area is 119324 acres. According to the Census 2011 report, the total population in Ichakhali Union is 27980, Mouladiah Union is 23406 and Saherkhali Union is 16912. Land area of these three unions are 15754, 2626 and 8609 acres respectively. In Ichakhali, Moghadia and Saherkhali unions of Misarai upazila, majority of the population falls within the age group of 15-49. The percentage of young population is quite high than the

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dependent population implying that the majority of the population belongs to the employable age group, which is vital for fueling the economic growth of the local area.

25.0 Whether environmental clearance under the ECA 1995 (Revised 2010) has been obtained? (If yes, attach the certificate. If not, mention the causes) : Environmental clearance of the proposed project as per requirement of ECA 1995 (revised 2010) has been obtained from DoE (Appendix XXV).

26.0 Specific linkage with Perspective Plan/ Five Years Plan/ SDGs/ Ministry/ Sector Priority (if needed, attach the respective documents)

The project is directly linked with the Vision 2021, Seventh Five Year Plan and Perspective plan of the government. These documents have solid development targets for Bangladesh along with higher per capita income, higher standard of living, better education and more equitable socio-economic environment. The project will immensely assist in achieving the SDGs by eradicating poverty through income generation of the workers, developing global partnership with the international investors and ensuring environmental sustainability.

#### Linkages:

- (i) This project will concrete the way of industrialization to comprehend the national policy documents such as the Five Year Plans and Perspective Plans (Vision 2021 & 2041) of the Government as mentioned strategic goals: a) turning Bangladesh into a middle income country, and b) industrial development in Bangladesh towards competitive world (SG 2 & SG 4 of Vision 2021);
- (ii) The project has also direct link to the universal Sustainable Development Goals 2030- build resilient infrastructure, promote inclusive and sustainable industrialization, and foster innovation (SDG 9).
- (iii) The project has the link with MTBF and ADP too. The MTBF budget for BEZA is shown in DPP (attached in covering pages). Furthermore, the project is listed in ADP 2020-21 (without allocation).

#### 27.0 Vision and Mission:

27.1 Contribution of the Project in achieving the Vision, Mission of the Ministry/Division and Implementing Agency

: Bangladesh can implement Economic Zones (EZs) as a way of catalyzing the desired the desired private sector investment to propel the economy towards 8% rate (towards double digit) of GDP growth. EZs have normally the following attributes: (a) geographically delimited area;

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স্বয়ংসহ (স্ব-সহায়িতা ও প.সহায়িতা)

(b) single management; (c) eligibility of benefits based upon physical location within the zone; and (d) separate customs area and streamline procedures. Through EZs, government aim to develop and diversify exports to create jobs, and to pilot new policies and approaches (for example, in customs, legal, labor, and public-private partnership aspects). The other big advantage is opportunity to streamline regulatory processes and providing efficient one-stop service as well as ensuring compliance with all regulatory requirements like labor, environment, building code, work place safety etc. It is also intended to realize agglomeration benefits from concentrating industries in one geographical area. These benefits include efficiencies in government supervision of enterprises, provision of off-site infrastructure, improved environment controls.

**27.2 Relation of the Project with the Allocation of Business of the Sponsoring Ministry/Division**

: It is the Economic Zones (EZs) that have helped many countries (China, East and Asia for example) in overcoming similar business environment and investment climate related constraints. EZs were established by China to serve as "demonstration area" for policy reforms and to encourage foreign investment. Bangladesh is to some extent scarce in both business environment and infrastructure and EZs could be a way out over the short to medium term attracting FDI while sourcing from the domestic supply chain, and boosting exports through integration into Global Supply Chains (GVCs). Owing to the limitations of the EPZ model in terms of creating spill over to the domestic economy, in 2010 the Government passed the Bangladesh Economic Zones Act 2010. Economic Zones (EZs) unlike EPZs do not just focus on the manufacturing of export oriented products. Government has already started development work to establish 30 EZs (including private EZs) with a long term plan of establishing 100 EZs all over the country within next 5 years.

**28.0 Whether private sector/local government or NGO's participation is considered? (if yes, describe how they will be involved)**

: The private sector, local government and NGOs will be involved in the subsequent activities of this project.

**29.0 Major Conditionality**

: The project will be implemented under PRIDE sponsored



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for Foreign Aid by IDA. The negotiated financial agreement is enclosed in the DPP (Appendix XIII).

30.0 Involvement of Compensation, Rehabilitation/ Resettlement (indicate the magnitude and cost, if applicable) : Not Applicable.

31.0 Risk Analysis and Mitigation Measures (identify risks during implementation & operation):

**Overall Risk and Explanation:** The overall risk rating for the project is substantial due to: (a) political and governance; (b) technical design of project; (c) institutional capacity for implementation and sustainability; and (d) environment and social.

**Mitigation:** The design of the project plays to the strengths of the implementing agency while mitigating risks associated with their weaknesses. It also incorporates mechanisms to address risks identified by interest groups and stakeholders in extensive consultations during the scoping stage as follows:

(i) **Political and governance:** The project is introducing some mitigation strategies to promote good governance and reduce incentives for land speculation. Most important, the operation will support the professionalization of zone management via the recruitment of credible international developers and operators who bring industry best practices.

(ii) **Technical design:** There are three main challenges: first, supports a series of policy, regulatory/procedural and institutional reforms; second, the work to sort out solid waste and waste water management in Mirsarai will be time-consuming and requires the establishment of new institutions since the project will seek to push the technical frontier from a Bangladeshi perspective; and third, implementation of the PPP agenda may encounter pockets of suspicion and worries about capture. A holistic, end-to-end approach with a flexible approach and targeted models will reduce the risk. The World Bank Group is also in a position to provide extensive technical assistance to BEZA.

(iii) **Institutional capacity:** BEZA is an experienced counterpart and capable implementing agency. It is familiar working with safeguard policies. However, this project is an ambitious program that requires a significant expansion of BEZA's capacity to handle complex operations. In this connection, BEZA's program will need to be revised, expanded, and functional competence developed in the coming years. The project will support this agenda.

(iv) **Environment and social:** Notable activities under BEZA may include some land filling by dredging operation, the construction of shared infrastructure facilities within BSMSN, and a feasibility study for the construction of a sea port. There will be environmental concerns during the construction stage due to potential dredging, the design and construction of water and waste water treatment



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facilities, facilities for solid waste management and construction of other shared facilities such as internal roads, power connectivity, and on-site and off-site infrastructure. Mostly light but potentially some heavy industries will set up with medium to high potential of environmental pollution. These future private investments will have significant environmental and social impacts in and around the project area if appropriate measures are not taken. Potentially, both the positive and negative impacts will not be limited to the project's footprint area rather will be spread over the adjacent areas. A regional environmental and social assessment (RESSA) with cumulative impacts will reveal the potential impacts on the project's area of influence. Moreover, the time management of the project and critical chain management technique will be applied to mitigate the impacts.

### 32.0 Other Important Details (*Technical or otherwise*):

**32.1 Sustainability of the Project Benefit** : The project will be able to create sustainable benefit for the nation through local and foreign Private Investment at BSMMSN in terms of creating spill over to the domestic economy.

**32.2 Project Steering Committee (PSC) Formation and TOR** : The PSC will be chaired by the Principal Secretary of PM office. It will consist of the following members:

1. Principal Secretary, Prime Minister's Office
2. Executive Chairman, BEZA
3. Executive Member (Planning and Development), BEZA
4. Director General-1, Prime Minister's Office
5. General Manager, Planning & Development, BEZA.
6. Representative of Planning Commission (respective sector) (not below the rank of Joint Chief)
7. Representative of Programming Division (not below the rank of Joint Chief)
8. Representative of IMED (not below the rank of Director General)
9. Representative of ERD (not below the rank of Joint Secretary)
10. Representative of General Economic Division (GED)
11. Representative of NEC-ECNEC of Planning Division
12. Representative of Finance Division (not below the rank of Joint Secretary)
13. Manager (MIS & Research), BEZA
14. Project Director of the project
15. Director-1, PMO (will act as Member-Secretary of the committee)

The main responsibilities of the PSC will be as follows:

- a. review the implementation status of the project in accordance with the DPP and gives policy guidelines;
- b. provide guideline for timely implantation of the project;
- c. give decision for coordination and information

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Govt. of the People's Republic of Bangladesh

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*Anisur Rahman*  
পরিচালক (সহ) প্রকল্প পরিচালনা  
প্রকল্প পরিচালনা  
স্বরাষ্ট্র মন্ত্রণালয়, বাংলাদেশ সচিবালয়

- d. sharing among all relevant ministries and agencies;
- d. suggest policy decision to manage the risks of the project;
- c. the committee may co-opt member, if necessary.

Each member of the committee will get TK. 5000.00 as honorarium for attending meeting. The PSC will meet at least once for each 3-month.

### 32.3 Project Implementation Committee (PIC) Formation and TOR

: The PIC will be chaired by the Executive Chairman of Bangladesh Economic Zones Authority. It will consist of the following members:

1. Executive Chairman, BEZA
2. Executive Member (Planning & Development), BEZA
3. Representative of Planning Commission (respective sector)
4. Representative of IMED
5. Director-1, PMO
6. Representative of Finance Division
7. Representative of Programming Division
8. Representative of NEC-ECNEC of Planning Division
9. Representative of ERD
10. Representative of GED
11. General Manager (Planning & Development), BEZA
12. Manager (MIS & Research), BEZA
13. Manager (Planning & Development), BEZA
14. Project Director of the project (will act as Member-Secretary of the committee)

The main responsibilities of the PIC will be as follows:

- a. to review annual work plans and budgets (whether the project implementation is on track)
- b. to review the implementation status of the project in accordance with the DPP
- c. to liaise with the project Director and monitor flow of fund and physical progress
- d. provide guideline for timely implantation of the project
- e. to ensure coordination and information sharing among all relevant ministries and agencies
- f. to manage the risks of the project
- g. the committee may co-opt member, if necessary

Each member of the committee will get TK. 3000.00 as honorarium for attending meeting. The PIC will meet at least once for each 3-month.

*Ahisiur Rahman*  
Director's Office

Prime Minister's Office  
Govt. of the People's Republic of Bangladesh



*02/04*  
স্বাক্ষরিত/প্রেরিত  
মন্ত্রণালয়/স্বাক্ষরিত  
তারিখ: (সে. স্ব. স্ব. ও নংসহ)

030

*Rashed*  
স্বাক্ষরিত/প্রেরিত  
মন্ত্রণালয়/স্বাক্ষরিত  
তারিখ: (সে. স্ব. স্ব. ও নংসহ)



32.4 Others, if any

: The project was initially estimated to BDT 436704.10 Lakh (GoB: BDT 39711.60 Lakh + RPA: BDT 396992.50 Lakh) according to 1<sup>st</sup> PEC meeting held in 15<sup>th</sup> June 2020 (*Appendix- XVII*). But the project was again considered in the 2<sup>nd</sup> PEC meeting was held in 12<sup>th</sup> November 2020 (*Appendix- XXXV*). According to 2<sup>nd</sup> PEC, the recast DPP is now estimated to BDT 434721.02 Lakh (GoB: BDT 37974.20 Lakh + RPA: BDT 396746.82 Lakh).

*Signature of the Head of the*

*Executive Agency with Seal and Date*

*Signature of the Secretary of the*

*Sponsoring Ministry/Division with Seal and Date*

**(Paban Chowdhury)**  
Executive Chairman (Secretary)  
Bangladesh Economic Zones Authority  
Prime Minister's Office, Dhaka.

**(Paban Chowdhury)**  
Executive Chairman (Secretary)  
Bangladesh Economic Zones Authority  
Prime Minister's Office, Dhaka.

ড. আব্দুল কায়ম কাউশ  
মুখ্য সচিব  
অর্থনৈতিক কার্যালয়  
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার  
ঢাকা।

*P. Choudhury*  
সিনিয়র সচিব  
অর্থনৈতিক জোন  
প্রতিষ্ঠান (সি.সি.সি. অফিসে)

*Ahissur Rahman*  
Director  
Prime Minister's Office  
Govt. of the People's Republic of Bangladesh

*Ahissur Rahman*  
সিনিয়র সচিব  
প্রধানমন্ত্রীর কার্যালয়  
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার  
ঢাকা।

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## Location wise Cost Breakdown

Sl.	Division	District	Upazila	Major Items (Component with Quantity)	Estimated Cost (Taka in Lac)	Comment
1.	2	3	4	5	6	7
1.				Land Development – 100 lac cum	25500.00	Zone-13
2.				Construction of Investors Club	3000.00	Zone-6
3.				Furnished OSS Centre for BSMSN	1000.00	--
4.				Skills Development Center	1500.00	Zone-2A
5.				Road network – 14 km	19507.00	Part
6.				Storm Water Network – 10 km	6838.00	Part
7.				Power Network	8075.00	Part
8.				Water Supply Network 15 km	7012.00	Part
9.				Gas Network -- 14 km	8500.00	Part
10.				Telecommunication System - 10 km	680.00	Part
11.				CIETP - 48 MLD	20400.00	Zone-2A
12.				Chanel Lining- 10 km	5085.00	Zone-2A & 2B
13.				Solid Waste Management Plant	12750.00	Zone-23
14.				Rooftop & Floating Solar – 40 MW	34000.00	Part
15.				Road Network – 16 km	22293.00	Part
16.				Storm Water Network – 21 km	14362.00	Part
17.				Power Network	8075.00	Part
18.				Water Supply Network – 25 km	11688.00	Part
19.				Gas Network -- 14 km	8500.00	Part
20.				Telecommunication System- 15 km	1020.00	Part
21.				Desalination Plant -- 30 MLD	38250.00	Zone-2A
22.				Rooftop & Floating Solar – 30 MW	25500.00	Part

N. B.: The detailed layout plan (index map) of physical activities under this project is shown in Appendix I.

*Qusar*  
 ডায়েরী  
 প্রোগ্রাম  
 পরিচালক (সহ)  
 প্রোগ্রামিং ও  
 মনিটরিং

*Anisur Rahman*  
 Anisur Rahman  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

*Qusar*  
 ডায়েরী  
 প্রোগ্রাম  
 পরিচালক (সহ)  
 প্রোগ্রামিং ও  
 মনিটরিং

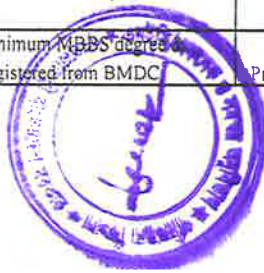
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## Project Management Setup (personal from revenue and outsourcing)

Sl. No	Name of the Post	No. of Post	Qualifications	Mode of Recruitment	Pay Scale/ Consolidated Pay	Pay Grade	Responsibilities/ Accountabilities	Remarks
1	2	3	4	5	6	7	8	9
Deputation (11 Nos.)								
1	Project Director	1	Master degree or equivalent	Deputation	Tk.66,000.00-75,490.00	2/3	Overall duties to implement the project. Working as head of PIU body.	Minimum 15 years work experience in government service.
2	Deputy Project Director	3	Master degree in any discipline or equivalent degree.	Deputation	Tk.43,000.00-69,850.00	5/6	Assist the PD for ensuring compliance with the fiduciary requirements of GOB and the IDA. Assist the PD in preparing the Work Plans and Budgets. Assist the PD in the execution of the activities approved by the PSC. Assist the PD in ensuring proper coordination of all project activities. Any other task assigned by the authority.	Minimum 10 years work experience in government service.
3	Executive Engineer	3	Minimum BSc Engineering (Civil/Electrical/Mechanical) degree from a recognized University or equivalent.	Deputation	Tk.43,000.00-69,850.00	5	Review & validate design drawing, estimate tender document of all Civil works under the project & submit to Authority for approval. Any other relevant work assigned by PD/Higher Authority.	Minimum 7 years work experience in government service.
4	Assistant Project Director	3	Master degree in any discipline or equivalent degree.	Deputation	Tk. 35500.00-67010.00	6-9	Perform day to day administrative works related to project implementation. Provide logistics support in arranging meetings, other relevant works related to the project. Assist the Project Director/Deputy Project Director in discharging all administrative functions related to project implementation. Carry out any other responsibility assigned by the Project Director/Deputy Project Director.	Minimum 2 years work experience in government service.
5	Accounts Officer	1	Master degree in any discipline or equivalent degree.	Deputation	Tk. 35500.00-67010.00	6-9	Maintain Project Accounts. Assist the Project Director/Deputy Project Director in preparing different financial reports for submission to higher authorities. Perform Budget and accounts related functions. Assist the Project Director in discharging all accounting functions related to project implementation. Carry out any other responsibility assigned by the Authority.	Minimum 2 years work experience in government service.
Outsourcing Employees (92 Nos)								
6	Assistant Engineer	12	Minimum BSc Engineering in Civil/Electrical/Chemical/Mechanical or equivalent.	Service Procurement	Tk 39,633.00	Special Service-I	Work under the guidance of XEN. Assist the XEN in preparing drawing, design, estimate of engineering works under the project including supervision of works in the field. Any other work assigned by PD, XEN & higher authority.	Preferred who has minimum 5 years work experience in relevant work.
7	Assistant Architect	1	Minimum Bachelor of Architecture or equivalent.	Service Procurement	Tk 39,633.00	Special Service-I	Architectural drawing, design of building and its related works. Assist XEN in preparing total layout plan of EZs. Any other work assigned by PD, XEN & higher authority.	Preferred who has minimum 5 years work experience in relevant work.
8	Medical Officer	2	Minimum MBBS degree & Registered from BMDC	Service Procurement	Tk. 39,633.00	Special Service-I	Provide professional service and willing positive attitude to the patient. Counselling the patient attendant and any other relevant job.	Preferred who has minimum 2 years work experience in relevant work.



ডায়েরী নং ১৫২  
১৫২ নং ৫১৭ ও ৫১৮

২২৪৪৬  
উপ-কোষ (সি: সা:)  
শিল্প ও শক্তি বিভাগ  
পরিকল্পনা কমিশন, পরিকল্পনা মন্ত্রণালয়

033

Anisur Rahman

Director  
Prime Minister's Office  
Govt. of the People's Republic of Bangladesh

Anisur Rahman  
Director

Prime Minister's Office  
Govt. of the People's Republic of Bangladesh



1	2	3	4	5	6	7	8	9
			Qualifications	Mode of Recruitment	Pay Scale/ Consolidated Pay	Pay Grade	Responsibilities/ Accountabilities	Remarks
9	Junior IT Officer	1	Minimum Bachelor degree from Computer Science or equivalent.	Service Procurement	Tk. 39,633.00	Special Service-1	Provide installation & maintenance of all computer & troubleshooting. Maintenance of service room & IT infrastructure. Update website with contents. Any other work assigned by Authority	Preferred who has minimum 2 years work experience in relevant work.
10	Junior Audit Officer	1	Minimum Bachelor in Commerce (preferably Accounting).	Service Procurement	Tk. 39,633.00	Special Service-1	Lead establishment of internal audit system. Develop annual internal audit plan. Lead exit meeting to discuss audit findings. Conduct field visit for audit related works. Develop extranet & internal audit plan. Any other work assigned by Authority	Preferred who has minimum 2 years work experience in relevant work.
11	Nurse	2	Minimum Diploma in Nursing Science & Midwifery	Service Procurement	Tk. 27,013.00	Special Service-2	Assist the Medical Officer providing health related services to the patient and any other relevant job.	Preferred who has minimum 2 years work experience in relevant work.
12	Sub-Assistant Engineers	18	Minimum Diploma in Civil/Electrical/Chemical/Mechanical or equivalent.	Service Procurement	Tk. 27,013.00	Special Service-2	Supervise Construction works in the field in conformity with drawing, specification under guidance of AE, XEN, and PD. Prepare & maintain records of executed works in measurement Book. Prepare & certify contractor's bills. Any other work assigned by Authority	Preferred who has minimum 3 years work experience in relevant work.
13	Draftsman	2	Minimum Diploma in Civil Engineering/Architecture or equivalent.	Service Procurement	Tk. 27,013.00	Special Service-2	Supervise construction works in the field in conformity with drawing, specification under guidance of AE, XEN, and PD. Any other work assigned by Authority	Preferred who has minimum 3 years work experience in relevant work.
14	Estimator	2	Minimum Diploma in Civil Engineering or equivalent.	Service Procurement	Tk. 27,013.00	Special Service-2	Prepare estimation of construction works as per drawing, specification under guidance of AE, XEN, and PD. Any other work assigned by Authority	Preferred who has minimum 3 years work experience in relevant work.
15	Surveyor	3	Minimum Diploma in Engineering, Surveying Technology or equivalent.	Service Procurement	Tk. 27,013.00	Special Service-2	Conduct field survey, data processing and map drawing of all civil works and prepare specification under guidance of AE, XEN, and PD. Any other work assigned by Authority	Preferred who has minimum 3 years work experience in relevant work.
16	Lab Technician	2	Minimum Bachelor degree in Environmental Science/ Chemistry/ Biochemistry/ Microbiology or equivalent.	Service Procurement	Tk. 21,113.00	Special Service-3	Manage the disposal of hazardous materials. Ensure the proper cleanup of polluted sites. Assist all environmental monitoring, sampling, testing, reporting and documentation services. Any other work assigned by Authority	Preferred who has minimum 2 years work experience in relevant work.
17	Data Entry Operator	2	HSC or equivalent with computer training certificate	Service Procurement	Tk. 19,110.00	Category-1	Assist the Project Director, Executive Engineer, Assistant Engineer, Accounts Officer/others providing all secretarial jobs (including typing, documentation, receipt and dispatch of all letters and documents).	Preferred who has minimum 3 years work experience in relevant work.
18	Computer Operator	8	HSC or equivalent with computer training certificate	Service Procurement	Tk. 19,110.00	Category-1	Assist the Project Director, Executive Engineer, Assistant Engineer, Accounts Officer/others providing all secretarial jobs (including typing, documentation, receipt and dispatch of all letters and documents).	Preferred who has minimum 3 years work experience in relevant work.
19	Store keeper	1	HSC or equivalent.	Service Procurement	Tk. 19,110.00	Category-1	Maintaining inventories and keeping records Perform a variety of tasks in receiving, storing, accounting for distributing Any other work assigned by Authority	Preferred who has minimum 3 years work experience in relevant work.

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*Roya*  
দায়ানন্দ দেবনাথ  
সুপারভাইজিং  
ব্যবস্থাপক (এম আই এন ও গবেষণা)

*Roy*  
সেতার সৌন্দর্য সৌন্দর্যসূচক  
উপ-প্রধান (সি: দা:)  
শিল্প ও শক্তি বিভাগ  
পত্রিকাদা কমিশন, পত্রিকাদা মন্ত্রণালয়

Sl. No.	Name of the Post	No. of Post	Qualifications	Mode of Recruitment	Pay Scale/ Consolidated Pay	Pay Grade	Responsibilities/ Accountabilities	Remarks
1	2	3	4	5	6	7	8	9
20	Electrician	3	HSC pass with certificate of Electricity License Board or Electric trade course pass.	Service Procurement	Tk. 19,110.00	Category-1	Supervise and maintain the electrical works in the office of the BEZA project office. Inform the authority about any electrical fault in the office and EZs sites. Supervise and maintaining the electrical appliances such as AC, Refrigerator etc. of the office EZ sites as per direction of Authority. Any other work assigned by the Authority	Preferred who has minimum 3 years work experience in relevant work.
21	Plumber	2	HSC pass with plumber trade course pass in any institute.	Service Procurement	Tk. 18,610.00	Category-2	Supervise and maintain all water pipeline, water tank and others such as bibcock pillar cock, stop cock and sanitary fittings of the office EZ sites as per direction of authority. Any other work assigned by the Authority	Preferred who has minimum 3 years work experience in relevant work.
22	Speed Boat Driver	1	SSC or Equivalent & valid license in driving	Service Procurement	Tk. 18,610.00	Category-2	Have to drive and maintain the project's Speed Boats.	Preferred who has minimum 3 years work experience in relevant work.
23	Duplicate Machine Operator	1	SSC or Equivalent	Service Procurement	Tk. 18,610.00	Category-2	Duplicate Machine Operator to different office. Any other activity as directed by the Project Director or designated officer.	Preferred who has minimum 3 years work experience in relevant work.
24	Chain Man	3	SSC or Equivalent	Service Procurement	Tk. 17,610.00	Category-5	Assist to the Surveyer/Sub-Assistant Engineer. Any other work assigned by the authority.	Preferred who has minimum 3 years work experience in relevant work.
25	Office Attendant	11	SSC or Equivalent	Service Procurement	Tk. 17,610.00	Category-5	To furnish all office attending tasks. Any other work assigned by the authority.	Preferred who has minimum 3 years work experience in relevant work.
26	Security Guard	13	Minimum class VIII passed	Service Procurement	Tk. 17,610.00	Category-5	Guarding the office premises of the authority against there, forceful unauthorized entrance. Preserving the installations of authority from per daters. Working under guidance of assistant Manager AE, SAE etc. Any other security related works of the authority.	Preferred who has minimum 3 years work experience in relevant work and Must possess good physique.
27	Cleaner	2	Minimum class VIII passed	Service Procurement	Tk. 17,610.00	Category-5	Sweeping regularly the office, dormitory, rest house floors toilets urinals etc. Any other security related works of authority.	Preferred who has minimum 3 years work experience in relevant work.

- N.B. (i) The proposed management setup will work as Project Implementation Unit (PIU) stated in DPP.  
(ii) All project employee (Deputation & Outsourcing) will be offered 20% Project Allowance as compensation for working in this project.  
(iii) The manpower mentioned here is finalized based on inter-ministerial meeting dated 05 July 2020 (Appendix-VII).

Govt. of the People's Republic of Bangladesh  
Prime Minister's Office  
Director  
Anisur Rahman



*Diya*  
সিনিয়র সিস্টেম অ্যান্ড ইনফর্মেশন  
সিস্টেম অফিসার (এম এম এল ও গবেষণা)

*১৭/০৭/২০*  
মোঃ মোস্তাফিজ মোস্তাফিজ  
উপ-প্রধান (সি-সি)  
শিল্প ও শক্তি বিভাগ  
পরিকল্পনা কমিশন, পরিকল্পনা মন্ত্রণালয়

### Total Procurement Plan for Development Project/Programme

Ministry/Division  
Agency  
Procuring Entity Name & Code  
Project/Programme Name and Code

Prime Minister's Office  
Bangladesh Economic Zones Authority (BEZA)  
Bangladesh Economic Zones Authority (BEZA)  
Bangabandhu Sheikh Mujib Shilpa Nagar (BSMSN) Development Project

Annexure - III (a)  
Project Cost (Taka in Lac)  
Total: 434.721.02  
GOB : 37.974.20  
PA : 396.746.82

Own Fund: -

#	Procurement Package GOODS	Unit	Quantity	Procurement Method & Type	Contract Approving Authority	Source of Fund	Estimated Cost	Indicative Dates		
								Invitation for Tender	Signing of Contract	Completion of Contract
1	2	3	4	5	6	7	8	9	10	11
	GOODS (Funded by CI)									
GD1-BSMSN-BEZA	Furniture and Fixtures	N/A	LS	OTM (NCB)	PD	IDA	416.00	15/07/2021	13/09/2021	13/10/2021
GD2-BSMSN-BEZA	Office Equipment	LS	LS	OTM (NCB)	PD	IDA	33.00	15/01/2021	14/02/2021	16/03/2021
GD3-BSMSN-BEZA	Multimedia Projectors	LS	LS	OTM (NCB)	PD	IDA	35.00	15/02/2021	17/03/2021	16/04/2021
GD4-BSMSN-BEZA	Computer and Accessories (Desktop-60, Laptop-35, Tab-10, Printer-60, Photocopier-10, and Scanner-15)	Set	1	OTM (NCB)	PD	IDA	250.00	10/02/2021	12/03/2021	11/04/2021
GD5-BSMSN-BEZA	Smart City Equipment : BSMSN (Hardware, software equipment's)	LS	LS	OTM (NCB)	PD	IDA	502.00	25/08/2021	24/09/2021	24/10/2021
GD6-BSMSN-BEZA	Testing Laboratories with Supply & Installation	LS	LS	OTM (NCB)	PD	IDA	450.00	15/11/2021	15/12/2021	14/01/2022
GD7-BSMSN-BEZA	Computer Software	LS	LS	OTM (NCB)	PD	IDA	100.00	15/02/2021	17/03/2021	15/04/2021
GD8-BSMSN-BEZA	Financial Management System (Database)	LS	LS	OTM (NCB)	PD	IDA	100.00	15/02/2021	17/03/2021	16/04/2021
GD9-BSMSN-BEZA	Video Conference system	LS	LS	OTM (NCB)	PD	IDA	100.00	15/10/2021	14/11/2021	14/12/2021
GD10-BSMSN-BEZA	Camera & Accessories	LS	LS	RFQ	PD	IDA	5.00	15/01/2021	14/02/2021	16/03/2021
	GOODS (Funded by GoB)									
GD11-BSMSN-BEZA	Motor Vehicle (Motorcycle)	Nos.	27	OTM (NCB)	PD	GOB	38.00	07/02/2021	09/03/2021	08/04/2021
GD12-BSMSN-BEZA	Speed Boat	No.	1	OTM (NCB)	PD	GOB	40.00	01/08/2021	31/08/2021	30/09/2021
	Total of Goods						2,069.00			

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Director  
Prime Minister's Office  
Govt. of the People's Republic of Bangladesh



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উপ-সচিব (সি.সি.)  
শিল্প ও শক্তি বিভাগ  
পরিকল্পনা কমিশন, পরিকল্পনা মন্ত্রণালয়



Total Procurement Plan for Development Project/Programme

Annexure III (b)

Ministry/Division:  
Agency:  
Procuring Entity Name & Code:  
Project Name & Code:

Prime Minister's Office  
Bangladesh Economic Zones Authority (BEZA)  
Bangladesh Economic Zones Authority (BEZA)  
Bangabandhu Sheikh Mujib Shilpa Nagar (BSMSN) Development Project

Project Cost (Taka in Lac)  
Total: 434721.02  
GOB: 37974.20  
PA: 396746.82  
Own Fund:

Package No.	Procurement Package  WORKS	Unit	Quantity	Procurement Method & Type	Contract Approving Authority	Source of Fund	Estimated Cost (Taka in Lac)	Indicative Dates			
								Invitation for Prequalification (if applicable)	Invitation for Tender	Signing of Contract	Completion of Contract
1	2	3	4	5	6	7	8	9	10	11	12
	Works (Funded by C-2)										
WD1-BSMSN- BEZA	Road and Storm Water Network for Mirsarai-2A EZ	km	9 (Road) & 18 (Drain)	OTM (ICB)	CCGP	IDA	19000.00	N/A	02/01/2021	01/06/2021	30/11/2023
WD2-BSMSN- BEZA	Road and Storm Water Network for Mirsarai-2B EZ	km	9 (Road) & 13 (Drain)	OTM (ICB)	CCGP	IDA	21000.00	N/A	12/01/2021	11/06/2021	10/12/2023
WD3-BSMSN- BEZA	Access Road for Mirsarai-2A & 2B EZ	km	12	OTM (ICB)	CCGP	IDA	21800.00	N/A	20/07/2021	17/12/2021	16/06/2024
WD4-BSMSN- BEZA	Power Network	km	20 (22 KVA), 13.5 (11 KVA)	OTM (ICB)	CCGP	IDA	16150.00	N/A	02/05/2021	29/09/2021	29/03/2024
WD5-BSMSN- BEZA	Water treatment plant, Water Supply with Fire hydrant	km	30	OTM (ICB)	CCGP	IDA	17000.00	N/A	25/01/2021	25/04/2021	17/10/2022
WD6-BSMSN-BEZA	Sewer Network	km	10	OTM (NCB)	PD	IDA	1700.00	N/A	04/08/2021	02/11/2021	26/04/2023
WD7-BSMSN-BEZA	Gas pipeline network	km	28	OTM (Deligated)	CCGP	IDA	17000.00	N/A	02/02/2021	02/07/2021	31/12/2023
WD8-BSMSN-BEZA	Telecommunication network	km	25	OTM (Deligated)	PD	IDA	1700.00	N/A	12/02/2021	13/05/2021	13/05/2023
WD9-BSMSN-BEZA	Resilient Site Development (open Space/ Land scaping, Greenery along road; Percolation Pits, etc.) (Lot-1)	Lac sqm	1.27	OTM (NCB)	Ministry	IDA	5000.00	N/A	02/09/2021	01/12/2021	30/11/2024
	Environmental Lab and monitoring system (Lot-2)	sqm	280	OTM (NCB)	PD	IDA	790.00	N/A	01/03/2021	30/05/2021	30/05/2023
	Canal development and lining (Lot-3)	km	10	OTM (NCB)	Ministry	IDA	5085.00	N/A	01/10/2021	30/12/2021	30/12/2023
WD10-BSMSN-BEZA	Security and Support Amenities(protection wall/fence, surveillance (Lot-1)	km	40	OTM (NCB)	CCGP	IDA	12750.00	N/A	01/06/2021	29/10/2021	28/04/2024
	Mosque (Lot-2)	sqm	1580	OTM (NCB)	HOPE	IDA	2000.00	N/A	02/06/2021	30/10/2021	29/04/2024
	Emergency Response Centre (Lot-3)	sqm	3000	OTM (NCB)	HOPE	IDA	2500.00	N/A	03/06/2021	31/10/2021	30/04/2024
	Construction of Investors Club (Lot-4)	sqm	600	OTM (NCB)	Executive Board	IDA	3000.00	N/A	01/03/2021	30/05/2021	28/11/2023
	Furnished OSS Centre (Lot-5)	N/A	N/A	OTM (NCB)	PD	IDA	1000.00	N/A	01/10/2021	30/12/2021	23/06/2023



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Package No.	Procurement Package WORKS*	Unit	Quantity	Procurement Method & Type	Contract Approving Authority	Source of Fund	Estimated Cost (Taka in Lac)	Indicative Dates			
								Invitation for Prequalification (if applicable)	Invitation for Tender	Signing of Contract	Completion of Contract
1	2	3	4	5	6	7	8	9	10	11	12
WD11-BSMSN-BEZA	Land Development	million cum	10	OTM (ICB)	CCGP	IDA	25500.00	N/A	01/12/2021	30/04/2022	28/10/2024
WD12-BSMSN-BEZA	Central Effluent Treatment Plant	MLD	48	OTM (ICB)	CCGP	IDA	20400.00	01/05/2021	10/10/2021	05/10/2022	04/10/2024
WD13-BSMSN-BEZA	Desalination Plant	MLD	30	OTM (ICB)	CCGP	IDA	38250.00	01/12/2021	11/04/2022	06/04/2023	05/04/2025
WD14-BSMSN-BEZA	Rooftop, ground mounted and floating solar	MW	70	OTM (ICB)	CCGP	IDA	59500.00	01/12/2021	12/02/2022	07/02/2023	03/11/2024
WD15-BSMSN-BEZA	Steam network	km	12.14	OTM (ICB)	Ministry	IDA	6800.00	01/10/2021	13/02/2022	08/02/2023	08/02/2024
WD16-BSMSN-BEZA	Solid Waste Management	acr	100	OTM (ICB)	CCGP	IDA	12750.00	01/10/2021	11/04/2022	06/04/2023	05/04/2025
WD17-BSMSN-BEZA	Biogas plant	acr	40	OTM (ICB)	Ministry	IDA	3400.00	01/12/2021	28/02/2022	23/02/2023	19/11/2024
WD18-BSMSN-BEZA	Waste sorting and material recovery facility	m3/year	40000	OTM (ICB)	Ministry	IDA	3400.00	01/12/2021	28/02/2022	23/02/2023	19/11/2024
WD19-BSMSN-BEZA	Office Building Rental	Months	60	NCS	Ministry	IDA	900.00	N/A	01/12/2020	01/01/2021	31/12/2025
WD20-BSMSN-BEZA	Mechinary & Equipment rental	N/A	LS	NCS	PD	IDA	100.00	N/A	01/12/2020	01/01/2021	31/12/2025
	Works (Funded by GoB)										
WD01-GoB-BSMSN-BEZA	Construction of Skills Development Center	sqm	1025*3	OTM (NCB)	Executive Board, BEZA	GoB	1500.00	N/A	11/04/2022	06/04/2023	05/04/2025
WD02-GoB-BSMSN-BEZA	Construction of Child Care & Emergency Health Care Center for BSMSN	sqm	1025*3	OTM (NCB)	PD	GoB	1500.00	N/A	11/04/2022	06/04/2023	05/04/2025
	Total of Works						321475.00				

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*Doyra*  
দায়িত্ব পালন  
স্বাক্ষর (এম এম/এল ও গবেষণা)

*Abdullah*  
আব্দুল্লাহ  
পরিচালক-১  
প্রশাসনিক কার্যালয়  
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

*Abdullah*  
আব্দুল্লাহ  
উপ-পরিচালক (সি: দা:)  
শিল্প ও শক্তি বিভাগ  
পল্লীকল্যাণ কমিশন, পরিকল্পনা মন্ত্রণালয়

**Total Procurement Plan for Development Project/Programme**

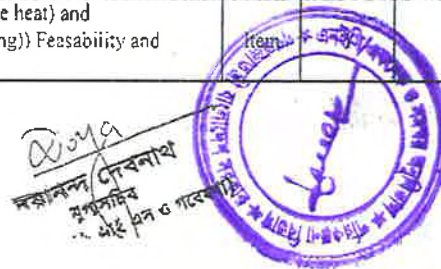
Annexure - III (c)

Ministry/Division	:	Prime Minister's Office	
Agency	:	Bangladesh Economic Zones Authority (BEZA)	Project Cost (Taka in Lac)
Procuring Entity Name & Code	:	Bangladesh Economic Zones Authority (BEZA)	Total: 434,721.02
Project/Programme Name and Code	:	Bangabandhu Sheikh Mujib Shilpa Nagar (BSMSN) Development Project	GOB : 37,974.20
			PA : 396,746.82
			Own Fund: -

Package No.	Description of Procurement Package as per DPP	Unit	Quantity	Procurement Method & (Type)	Contract Approving Authority	Source of Funds	Est. Cost (in Lakh Taka)	Indicative Dates			
								Invitation for EOI	Issue of RFP	Signing of Contract	Completion of Contract
1	SERVICES	3	4	5	6	7	8	9	10	11	12
	Services (Consultancy Firm)										
	Component-1 (Funded by C-1)										
PMC1-BSMSN-BEZA	National Master Plan for BEZA	Item	1	QCBS (ICB)	Ministry	IDA	1400.00	15/12/2021	24/03/2021	25/04/2021	31/05/2023
PMC2-BSMSN-BEZA	Feasibility Studies (Lot 1)	Item	1	QCBS (ICB)	PD	IDA	525.00	15/03/2021	24/04/2021	23/07/2021	24/07/2022
	Feasibility Studies (Lot 2)	Item	1	QCBS (ICB)	PD	IDA	525.00	15/03/2022	24/04/2022	23/07/2022	31/12/2025
PMC3-BSMSN-BEZA	Regulatory reform and advisory services	Item	1	QCBS (ICB)	HOPE	IDA	680.00	15/08/2021	24/09/2021	23/12/2021	31/12/2025
PMC4-BSMSN-BEZA	PPP Training Firm (Lot 1)	Item	1	QCBS (ICB)	Ministry	IDA	1500.00	15/05/2021	24/06/2021	22/09/2021	31/12/2025
	PPP Guidelines (Lot 2)	Item	1	QCBS (ICB)	HOPE	IDA	560.00	15/06/2021	25/07/2021	23/10/2021	31/11/2022
PMC5-BSMSN-BEZA	Port Feasibility Study	Item	1	QCBS (ICB)	Ministry	IDA	1150.00	15/05/2021	24/06/2021	23/08/2021	31/05/2022
PMC6-BSMSN-BEZA	Port Transaction Advisor	Item	1	QCBS (ICB)	Ministry	IDA	1300.00	01/01/2023	03/12/2023	15/05/2023	31/02/2025
PMC7-BSMSN-BEZA	IMD for Green Zone Feasibility and Transaction Advisor	Item	1	QCBS (ICB)	Ministry	IDA	1250.00	15/07/2021	24/08/2021	23/10/2021	31/06/2023
PMC8-BSMSN-BEZA	Desalination Transaction Advisor	Item	1	QCBS (ICB)	Ministry	IDA	1000.00	15/07/2021	24/08/2021	23/10/2021	31/05/2023
PMC9-BSMSN-BEZA	Solar Power Generation Feasibility and Transaction Advisor	Item	1	QCBS (ICB)	Ministry	IDA	860.00	15/05/2021	24/06/2021	23/08/2021	31/05/2022
PMC10-BSMSN-BEZA	Solid Waste Management, steam (waste heat) and Biogas/pyrolysis (including waste sorting) Feasibility and Transaction Advisor	Item	1	QCBS (ICB)	Ministry	IDA	800.00	15/05/2021	24/06/2021	23/08/2021	31/05/2023

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*Anisur Rahman*  
**Anisur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of Bangladesh



*Prasanna*  
 প্রসন্ন  
 প্রোগ্রামার (সি. লা.)  
 শিল্প ও সূতি বিভাগ  
 জেলা কার্যালয়, পরিকল্পনা মহাপর্ষদ

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Prime M Gold of the Pack of the	Description of Procurement Package as per DPP	Unit	Quantity	Procurement Method & (Type)	Contract Approving Authority	Source of Funds	Est. Cost (in Lakh Taka)	Indicative Dates			
								Invitation for EOI	Issue of RFP	Signing of Contract	Completion of Contract
1	SERVICES	3	4	5	6	7	8	9	10	11	12
PMC11-BSMSN-BEZA	CETP Transaction Advisory (Phase 2) - Financial Closure support	Item	1	QCBS (ICB)	PD	IDA	950.00	15/05/2021	24/06/2021	23/08/2021	31/07/2023
PMC12-BSMSN-BEZA	BSMSN New City - Infrastructure Planning & Financing modalities, master plan for commercial and residential areas, Smart City	Item	1	QCBS (ICB)	Ministry	IDA	1000.00	15/03/2021	24/04/2021	23/06/2021	31/09/2022
PMC13-BSMSN-BEZA	Monitoring & Supervision Engineer(s) for each PPP Infrastructure	Item	1	QCBS (ICB)	Ministry	IDA	1150.00	15/10/2021	24/11/2021	23/01/2022	31/12/2025
PMC14-BSMSN-BEZA	Master Plan for Sandwip & Companiganj	Item	1	QCBS (ICB)	Ministry	IDA	1011.00	15/06/2021	25/07/2021	23/09/2021	31/08/2023
PMC15-BSMSN-BEZA	Selection of Design and Supervision Consultant (TAS Firm)	Item	1	QCBS (ICB)	CCGP	IDA	7500.00	13/03/2021	24/04/2021	23/06/2021	31/12/2025
PMC16-BSMSN-BEZA	Environmental & Social Consultancy Services (Lot1)	Item	1	QCBS (ICB)	HOPE	IDA	1550.00	15/05/2021	24/06/2021	23/08/2021	31/09/2025
	Environmental & Social Consultancy Services (Lot 2)	Item	1	QCBS (ICB)	HOPE	IDA	200.00	15/04/2021	25/05/2021	24/07/2021	31/10/2022
PMC17-BSMSN-BEZA	Training need assessment for Economic Zones (Lot-1)	Item	1	QCBS (NCB)	PD	IDA	70.00	15/07/2021	24/08/2021	23/10/2021	31/12/2025
	Skills & Social Development Program at BSMSN (Lot-2)	Item	1	QCBS (NCB)	Ministry	IDA	1830.00	15/07/2021	24/08/2021	23/10/2021	31/12/2025
PMC18-BSMSN-BEZA	Produce an inventory of local micro, small and medium-sized enterprises around BSMSN to build a portal (Chattogram)	Item	1	QCBS (NCB)	PD	IDA	127.00	15/08/2021	24/09/2021	23/11/2021	31/11/2022
PMC19-BSMSN-BEZA	Design, Implementation Support and Systems for HR Policy and Financial Management Policy	Item	1	QCBS (ICB)	Ministry	IDA	267.00	15/10/2021	24/11/2021	23/01/2022	31/06/2023
PMC20-BSMSN-BEZA	Supply of Software, Security Solution (Software), CRM and Development of Web Application for BEZA & BSMSN	Item	1	QCBS (NCB)	Executive Board	IDA	498.00	15/05/2021	24/06/2021	23/08/2021	31/09/2023
PMC21-BSMSN-BEZA	Detailed Design of Data Center (Layout, Civil Structure, Topology, Active & Passive Part of Data Centre including Networking, Power, Cooling etc.) at BSMSN.	Item	1	QCBS (NCB)	PD	IDA	220.00	15/07/2021	24/08/2021	23/09/2021	23/03/2022
PMC22-BSMSN-BEZA	Media content and Marketing	Item	1	QCBS (NCB)	PD	IDA	212.50	15/10/2021	24/11/2021	23/01/2022	31/12/2025
PMC23-BSMSN-BEZA	Operation and Maintenance Child Care Centers	Item	1	QCBS (NCB)	PD	IDA	300.00	15/12/2022	24/01/2023	25/03/2023	31/12/2025
PMC24-BSMSN-BEZA	Development Company Policy formulation, development company formation for BSMSN	Item	1	QCBS (NCB)	PD	IDA	405.00	15/10/2022	24/11/2022	23/01/2023	31/09/2025
PMC25-BSMSN-BEZA	Economic analysis of BEZA initiatives (BSMSN transformation and economic contribution)	Item	1	QCBS (NCB)	PD	IDA	85.00	15/06/2023	23/07/2023	23/09/2023	24/04/2024
	Component-3 (Funded by C-3)										
PMC26-BSMSN-BEZA	Voucher and Grant Management Firm	Item	1	QCBS (ICB)	CCGP	IDA	4250.00	15/02/2021	25/03/2021	23/05/2021	31/11/2025
	Sub Total (Firm)						33175.50				

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আনিসুর রহমান  
সিনিয়র  
প্রোগ্রামার কার্যালয়  
জনপ্রজাতন্ত্রী বাংলাদেশ সরকার

আব্দুল মোহাম্মদ  
উপ-প্রধান (স: দাঃ)  
শিল্প ও শক্তি বিভাগ  
পরিকল্পনা কমিশন, পরিকল্পনা মন্ত্রণালয়

Package No.	Description of Procurement Package as per DPP	Unit	Quantity	Procurement Method & (Type)	Contract Approving Authority	Source of Funds	Est.Cost (in Lakh Taka)	Indicative Dates			
	SERVICES							Invitation for EOI	Issue of RFP	Signing of Contract	Completion of Contract
1	2	3	4	5	6	7	8	9	10	11	12
	Individual Consultants										
	Component 1, 2 & 3 (Funded by C-1)										
IC-1 BSMSN-BEZA	Component Coordinator (for Comp. 1 & Comp. 3) (1 no.)	MM	60	QBS (NCB)	PD	IDA	300.00	01.11.2020	16.11.2020	15.01.2021	31.12.2025
IC-2 BSMSN-BEZA	Component Coordinator (for Comp. 2) (1 no.)	MM	58	QBS (NCB)	PD	IDA	290.00	01.11.2020	16.11.2020	15.01.2021	31.12.2025
IC-3 BSMSN-BEZA	PPP Senior Advisors (international) (3 nos.)	Day	900	QBS (ICB)	Ministry	IDA	635.10	01.11.2020	01.12.2020	30.01.2021	31.12.2025
IC-4 BSMSN-BEZA	PPP Senior Adviser (local) (1 no.)	MM	55	QBS (NCB)	PD	IDA	412.50	01.11.2020	16.11.2020	15.01.2021	31.12.2025
IC-5 BSMSN-BEZA	PPP Consultants (local) (2 nos.)	MM	112	QBS (NCB)	PD	IDA	481.60	01.11.2020	16.11.2020	15.01.2021	31.12.2025
IC-6 BSMSN-BEZA	Legal Consultant (1 no.)	MM	58	QBS (NCB)	PD	IDA	290.00	01.11.2020	16.11.2020	15.01.2021	31.12.2025
IC-7 BSMSN-BEZA	Investment Promotion Consultant (1 no.)	MM	55	QBS (NCB)	PD	IDA	275.00	01.11.2020	16.11.2020	15.01.2021	31.12.2025
IC-8 BSMSN-BEZA	Procurement Consultant (2 nos.)	MM	116	QBS (NCB)	HOPE	IDA	580.00	01.11.2020	16.11.2020	15.01.2021	31.12.2025
IC-9 BSMSN-BEZA	Jr. Procurement Consultant (3 nos.)	MM	174	QBS (NCB)	HOPE	IDA	522.00	01.11.2020	16.11.2020	15.01.2021	31.12.2025
IC-10 BSMSN-BEZA	Contract Management Specialist (1 no.)	MM	58	QBS (NCB)	PD	IDA	290.00	01.11.2020	16.11.2020	15.01.2021	31.12.2025
IC-11 BSMSN-BEZA	Junior Contract Management Specialist (1 no.)	MM	58	QBS (NCB)	PD	IDA	174.00	01.11.2020	16.11.2020	15.01.2021	31.12.2025
IC-12 BSMSN-BEZA	Financial Management Specialist (2 nos.)	MM	118	QBS (NCB)	HOPE	IDA	472.00	01.11.2020	16.11.2020	15.01.2021	31.12.2025
IC-13 BSMSN-BEZA	Infrastructure Consultant (for Comp. 2) (1 no.)	MM	55	QBS (NCB)	PD	IDA	220.00	01.11.2020	16.11.2020	15.01.2021	31.12.2025
IC-14 BSMSN-BEZA	Monitoring & Evaluation Consultant (1 no.)	MM	60	QBS (NCB)	PD	IDA	240.00	01.11.2020	16.11.2020	15.01.2021	31.12.2025
IC-15 BSMSN-BEZA	Social Consultant (1 no.)	MM	60	QBS (NCB)	PD	IDA	240.00	01.11.2020	16.11.2020	15.01.2021	31.12.2025
IC-16 BSMSN-BEZA	Social Counselors (15 nos.)	MM	750	QBS (NCB)	PD	IDA	750.00	01.11.2020	16.11.2020	15.01.2021	31.12.2025
IC-17 BSMSN-BEZA	Environmental Consultant (1 no.)	MM	60	QBS (NCB)	PD	IDA	240.00	01.11.2020	16.11.2020	15.01.2021	31.12.2025
IC-18 BSMSN-BEZA	Environmental Counselors (5 nos.)	MM	250	QBS (NCB)	PD	IDA	250.00	01.11.2020	16.11.2020	15.01.2021	31.12.2025
IC-19 BSMSN-BEZA	Occupational Health and Safety Consultant (1 no.)	MM	55	QBS (NCB)	PD	IDA	220.00	01.11.2020	16.11.2020	15.01.2021	31.12.2025

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*Doya*  
 দায়িত্ব পূর্ণতা  
 যুগ্মমন্ত্রী  
 স্বাস্থ্য ও পরিবার কল্যাণ

*Anisur Rahman*  
 Anisur Rahman  
 Director  
 Prime Minister's Office

*মুহাম্মদ*  
 মোঃ মোহাম্মদ হোসেন  
 উপ-প্রধান (সি. ডায়)  
 শিল্প ও শক্তি বিভাগ  
 পরিকল্পনা কমিশন, পরিকল্পনা মন্ত্রণালয়



Package No.	Description of Procurement Package as per DPP	Unit	Quantity	Procurement Method & (Type)	Contract Approving Authority	Source of Funds	Est.Cost (in Lakh Taka)	Indicative Dates			
								Invitation for EOI	Issue of RFP	Signing of Contract	Completion of Contract
	SERVICES	3	4	5	6	7	8	9	10	11	12
IC-20 BSMSN-BEZA	Skills Development Consultant (1 no.)	MM	55	QBS (NCB)	PD	IDA	209.00	01.11.2020	16.11.2020	15.01.2021	31.12.2025
IC-21 BSMSN-BEZA	IT Consultant (1 no.)	MM	55	QBS (NCB)	PD	IDA	192.50	01.11.2020	16.11.2020	15.01.2021	31.12.2025
IC-22 BSMSN-BEZA	Administrative Support Consultant (1 no.)	MM	60	QBS (NCB)	PD	IDA	180.00	01.11.2020	16.11.2020	15.01.2021	31.12.2025
IC-23 BSMSN-BEZA	Junior Architectural Consultant (for Comp. 2) (1 no.)	MM	58	QBS (NCB)	PD	IDA	130.50	01.11.2020	16.11.2020	15.01.2021	31.12.2025
	Sub-total (Individual):						7594.20				
	Non-Consulting Services										
	Manpower Outsourcing (Funded by C-1)										
PS1-BSMSN-BEZA	Manpower (Special Service-1) Outsourcing (Lot-1)	No.	17	NCS	PD	IDA	444.70	03/10/2020	02/11/2020	01/01/2021	31/12/2025
	Manpower (Special Service-2 & 3) Outsourcing (Lot-2)	No.	29	NCS	PD	IDA	509.25	03/10/2020	02/11/2020	01/01/2021	31/12/2025
	Manpower (Category 1-5) Outsourcing (Lot-3)	No.	46	NCS	PD	IDA	551.15	03/10/2020	02/11/2020	01/01/2021	31/12/2025
	Rental of Vehicles (Funded by C-1)										
PS2-BSMSN-BEZA	Rent of Vehicles: Jeep-4, Micro-3 & Pick-up-1	No.	8	NCS	HOPE	IDA	1,707.60	03/10/2020	03/10/2020	01/01/2021	31/12/2025
	Sub-total (Non-Consulting Services)						3,212.70				
	Grand Total:						43982.40				

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*Anisur Rahman*  
Anisur Rahman

Director  
Prime Minister's Office  
Govt. of the People's Republic of Bangladesh

*Roya*  
দায়ানন্দ দেবনাথ  
সুপারভাইজার  
স্বাধীনতা কমিশন (এম আই এম ও গবেষণা)

*Roy*  
মোঃ মোস্তাফিজ মোস্তাফিজ  
উপ-প্রোগ্রামার (সি. এম.)  
শিল্প ও শক্তি বিভাগ  
পরিকল্পনা কমিশন, পরিকল্পনা মহলা







Eco. Code	Economic Sub-code	Description of Component	Unit	Quantity	Total Cost	Wt.-%	Year 1: 2020-21		Year 2: 2021-22		Year 3: 2022-23		Year 4: 2023-24		Year 5: 2024-25	
							Fin. Amount	% of Item	Fin. Amount	% of Item	Fin. Amount	% of Item	Fin. Amount	% of Item	Fin. Amount	% of Item
4111313		Power Network	km	25	16150.00	0.037	2500.00	20.00%	2500.00	20.00%	2500.00	20.00%	2500.00	20.00%	2500.00	20.00%
4111316		Gas pipeline network	km	25	17000.00	0.037	3000.00	20.00%	3000.00	20.00%	3000.00	20.00%	3000.00	20.00%	3000.00	20.00%
4111317		(Other Building & Structure)	km	40	12750.00	0.029	2550.00	20.00%	2550.00	20.00%	2550.00	20.00%	2550.00	20.00%	2550.00	20.00%
		i) Security and Support Annularies	km	45	20400.00	0.047	4080.00	20.00%	4080.00	20.00%	4080.00	20.00%	4080.00	20.00%	4080.00	20.00%
		ii) Central Effluent Treatment Plant (ETP)	MLD	10	36250.00	0.088	7250.00	20.00%	7250.00	20.00%	7250.00	20.00%	7250.00	20.00%	7250.00	20.00%
		iii) Desludger plant (DPP)	MLD	10	6800.00	0.016	1360.00	20.00%	1360.00	20.00%	1360.00	20.00%	1360.00	20.00%	1360.00	20.00%
		iv) Sludge network (SPP)	km	12.11	6800.00	0.016	1360.00	20.00%	1360.00	20.00%	1360.00	20.00%	1360.00	20.00%	1360.00	20.00%
		v) Solid Waste Management (SPP)	ac	100	12750.00	0.039	2550.00	20.00%	2550.00	20.00%	2550.00	20.00%	2550.00	20.00%	2550.00	20.00%
		vi) Biogas plant, waste sorting and material recovery facility (SPP)	ac	40	6800.00	0.016	1360.00	20.00%	1360.00	20.00%	1360.00	20.00%	1360.00	20.00%	1360.00	20.00%
		vii) Roadmap and shading solar (SPP)	MAY	10-60	59500.00	0.137	11900.00	20.00%	11900.00	20.00%	11900.00	20.00%	11900.00	20.00%	11900.00	20.00%
		viii) Environmental Lab & Monitoring System	sqm	280	790.00	0.002	158.00	20.00%	158.00	20.00%	158.00	20.00%	158.00	20.00%	158.00	20.00%
4111401		Land Development	Lac cum	100	25500.00	0.059	5100.00	20.00%	5100.00	20.00%	5100.00	20.00%	5100.00	20.00%	5100.00	20.00%
		Total Works			330475.00	0.737	64,095.00	20.00%	64,095.00	20.00%	64,095.00	20.00%	64,095.00	20.00%	64,095.00	20.00%
		Sub Total (Capital):			322542.00	0.742	63,584.00	20.00%	63,584.00	20.00%	63,584.00	20.00%	63,584.00	20.00%	63,584.00	20.00%
		(c) Physical Contingency (6% of Capital Cost)			6451.00	0.015	1,290.20	20.00%	1,290.20	20.00%	1,290.20	20.00%	1,290.20	20.00%	1,290.20	20.00%
		(d) Price Contingency (6% of Capital Cost)			16127.00	0.047	3,225.40	20.00%	3,225.40	20.00%	3,225.40	20.00%	3,225.40	20.00%	3,225.40	20.00%
		Grand Total (a + b + c + d):			434721.02	1.000	86,319.80	20.32%	86,319.80	20.32%	86,319.80	20.32%	86,319.80	20.32%	86,319.80	20.32%

Weight of Each Item =

Physical Percentage (%) of Item =

Physical Percentage (%) of Total Project =

Weight of Each Item =

Physical Percentage (%) of Item =

Physical Percentage (%) of Total Project =

Each Cost of Each Respective Item

Total Project Cost

Quantity of Item Targeted in Each Year = 100

Total Quantity of Respective Item for Whole Project Period

Weight of Each Item = Physical Percentage (%) of Item

Each Cost of Each Respective Item

Total Project Cost

Quantity of Item Targeted in Each Year = 100

Total Quantity of Respective Item for Whole Project Period

Weight of Each Item = Physical Percentage (%)

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045



Detailed Estimated Cost

Annexure V(a)

Ministry/Division : Prime Minister's Office  
 Agency : Bangladesh Economic Zones Authority (BEZA)  
 Procuring Entity Name & Code : Bangladesh Economic Zones Authority (BEZA)  
 Project/Programme Name and Code : Bangabandhu Sheikh Mujib Shilpa Nagar (BSMSN) Development Project

(Taka in Lac)

Economic Code	Economic sub-code	Description	Unit	Unit Cost	Quantity	Total					Own Fund	Others	Total	% of total project cost	
						GOB	PA			Total					
							(FE)	RPA							DPA
								GOB	Special Account						Through PD
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
<b>(a) Recurrent Expenditure:</b>															
<b>Basic Pay &amp; Allowances</b>															
3111	3111101	Basic Pay (Officers)	Nos.		11	313.50	-	-	-	-	-	-	-	313.50	0.072
	3111306	Education allowance	Nos.		11	6.00	-	-	-	-	-	-	-	6.00	0.001
	3111310	Housing rent allowance	Nos.		11	157.00	-	-	-	-	-	-	-	157.00	0.036
	3111311	Medical allowance	Nos.		11	9.00	-	-	-	-	-	-	-	9.00	0.002
	3111312	Mobile/cellphone allowance	Nos.		11	9.00	-	-	-	-	-	-	-	9.00	0.002
	3111313	Residential telephone encashment allowance	Nos.		11	18.00	-	-	-	-	-	-	-	18.00	0.004
	3111325	Festival allowance	Nos.		11	52.50	-	-	-	-	-	-	-	52.50	0.012
	3111328	Rest and recreation allowance	Nos.		11	10.50	-	-	-	-	-	-	-	10.50	0.002
	3111331	Refreshment allowance	No.		1	1.00	-	-	-	-	-	-	-	1.00	0.000
	3111335	Bangla new year allowance	Nos.		11	5.50	-	-	-	-	-	-	-	5.50	0.001
	3111338	Other allowances	Nos.		11	10.00	-	-	-	-	-	-	-	10.00	0.002
<b>Administrative Expenses</b>															
3211	3211106	Entertainment Expenses	LS		LS	-	-	100.00	-	-	-	-	-	100.00	0.023
	3211107	Transport Hiring (Vehicle Rent)	Nos.		8	-	-	1,707.60	-	-	-	-	-	1,707.60	0.393
	3211111	Seminar and Conference													
		i) Seminar and conference	N/A		LS	-	-	200.00	-	-	-	-	-	200.00	0.046
		ii) Investment promotion (Foreign)	N/A		LS	-	-	690.50	-	-	-	-	-	690.50	0.159
	3211113	Electricity	N/A		LS	150.00	-	-	-	-	-	-	-	150.00	0.035
	3211115	Water	N/A		LS	50.00	-	-	-	-	-	-	-	50.00	0.012
	3211117	Telex/Fax/Internet	N/A		LS	50.00	-	-	-	-	-	-	-	50.00	0.012
	3211119	Postage	N/A		LS	20.00	-	-	-	-	-	-	-	20.00	0.005
	3211120	Telephone	N/A		LS	20.00	-	-	-	-	-	-	-	20.00	0.005
	3211121	Machine and Equipment Rental	N/A		LS	-	-	100.00	-	-	-	-	-	100.00	0.023
	3211125	Advertising Expenses	N/A		LS	-	-	400.00	-	-	-	-	-	400.00	0.092
	3211127	Books and Periodicals	N/A		LS	50.00	-	-	-	-	-	-	-	50.00	0.012
	3211128	Publication	N/A		LS	-	-	100.00	-	-	-	-	-	100.00	0.023
	3211129	Office Building Rental	Month		60	-	-	900.00	-	-	-	-	-	900.00	0.207

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 প্রধানমন্ত্রীর কার্যালয়  
 প্রকৌশলিক  
 জিজ্ঞাস্য (সং-আই-এফ ও গভেষণা)

০১৬

০১৭৭  
 জাতির পিতার স্মরণে  
 পরিচালক-১  
 প্রধানমন্ত্রীর কার্যালয়  
 গণপ্রজাতন্ত্রী বাংলাদেশ সরকার



০১৭৭৬  
 পরিচালক  
 উপ-প্রোগ্রাম (সং-সিঃ)  
 শিল্প ও পলি বিভাগ  
 গণপ্রজাতন্ত্রী বাংলাদেশ সরকার



(Taka in Lac)

Economic Code	Economic sub-code	Description	Unit	Unit Cost	Quantity	Total								% of total project cost	
						GOB (FE)	PA				Own Fund	Others	Total		
							RPA		DPA						
							GOB	Special Account	Through PD	Through DP					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
	3211130	Conveyance Expenditure	N/A		LS	50.00	-	-	-	-	-	-	-	50.00	0.012
	3211131	Outsourcing (Project Employee)	Nos.		92	-	-	1,464.02	-	-	-	-	-	1,464.02	0.337
	3211133	Venue Rental	N/A		LS	-	-	201.00	-	-	-	-	-	201.00	0.046
		<b>Training &amp; Study Tour</b>													
3231	3231301	Training													
		i) Foreign Training & study tour	N/A		LS	-	-	600.00	-	-	-	-	-	600.00	0.138
		ii) Local Training	N/A		LS	-	-	200.00	-	-	-	-	-	200.00	0.046
		iii) Voucher Program	N/A		LS	-	-	12,750.00	-	-	-	-	-	12,750.00	2.933
		<b>Petrol &amp; Gas</b>													
3243	3243101	Petrol, Oil & Lubricant (Speed Boat- 1 & Motorcycle-27)	Nos.		28	496.20	-	-	-	-	-	-	-	496.20	0.114
		<b>Travel Expenses</b>													
3244	3244101	Travel Expenses	N/A		LS	120.00	-	-	-	-	-	-	-	120.00	0.028
		<b>Medical &amp; Sanitation</b>													
3252	3252105	Medical & Surgical Supplies	N/A		LS	50.00	-	-	-	-	-	-	-	50.00	0.012
	3252108	Sanitation materials	N/A		LS	50.00	-	-	-	-	-	-	-	50.00	0.012
	3252109	Medicin & Vaccines	N/A		LS	50.00	-	-	-	-	-	-	-	50.00	0.012
		<b>Stationary, Printing &amp; Stamps</b>													
3255	3255101	Computer consumables	N/A		LS	50.00	-	-	-	-	-	-	-	50.00	0.012
	3255102	Printing & Binding	N/A		LS	-	-	100.00	-	-	-	-	-	100.00	0.023
	3255104	Stamps & Seals	N/A		LS	20.00	-	-	-	-	-	-	-	20.00	0.005
	3255105	Other Stationary	N/A		LS	250.00	-	-	-	-	-	-	-	250.00	0.058
	3255106	Map	N/A		LS	50.00	-	-	-	-	-	-	-	50.00	0.012
		<b>Consultancy Services</b>													
3257	3257101	Consultancy													
		i) Consultancy (Firm)	Item		26	-	-	33,175.50	-	-	-	-	-	33,175.50	7.631
		ii) Individual Consultants	Nos.		48	-	-	7,594.20	-	-	-	-	-	7,594.20	1.747
		<b>Repair &amp; Maintenance</b>													
3258	3258101	Motor Vehicles (Motorcycle)	Nos.		27	10.00	-	-	-	-	-	-	-	10.00	0.002
	3258103	Computer	N/A		LS	50.00	-	-	-	-	-	-	-	50.00	0.012
	3258128	Water vehicle	No.		1	20.00	-	-	-	-	-	-	-	20.00	0.005
	3258140	Transport maintenance expense	Nos.		4	120.00	-	-	-	-	-	-	-	120.00	0.028
		<b>Grant Program</b>													
3632	3632101	Grant Program	N/A		LS	-	-	17,000.00	-	-	-	-	-	17,000.00	3.911
		<b>Custom Duty &amp; VAT</b>													
3821	3821101	Custom Duty	N/A		LS	8,000.00	-	-	-	-	-	-	-	8,000.00	1.840

স্বাস্থ্য ও পরিবার কল্যাণ মন্ত্রণালয়  
আসল  
স্বাক্ষর (স্বাক্ষর ও সীলন)

047

*S. Rahman*  
আনিসুল্লাহ রহমান  
পরিচালক-১  
প্রধানমন্ত্রীর কার্যালয়  
স্বাস্থ্য ও পরিবার কল্যাণ মন্ত্রণালয়  
বাংলাদেশ সরকার

*R. R. R.*  
মোঃ রেজাউল মোহাম্মদ  
উপ-প্রধান (স: দাঃ)  
পিএম ও সিসি বিভাগ  
স্বাস্থ্য কল্যাণ, পরিবার কল্যাণ  
মন্ত্রণালয়

(Taka in Lac)

Economic Code	Economic sub-code	Description	Unit	Unit Cost	Quantity	Total								% of total project cost	
						GOB (FE)	PA				Owa Fund	Others	Total		
							RPA		DPA						
							GOB	Special Account	Through PD	Through DP					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
	3821104	VAT and others	N/A		LS	2,000.00	-	-	-	-	-	-	-	2,000.00	0.460
<b>Sub total (Recurrent Expenses)</b>						<b>12,318.20</b>	<b>-</b>	<b>77,282.82</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>89,601.02</b>	<b>20.611</b>
<b>(b) Capital Expenditure:</b>															
<b>Goods</b>															
4112	4112101	Motor Vehicles (Motorcycle)	Nos.		27	38.00	-	-	-	-	-	-	-	38.00	0.009
	4112102	Speed Boat	No.		1	40.00	-	-	-	-	-	-	-	40.00	0.009
	4112201	ICT Equipment													
		i) Video Conference system	LS		LS	-	-	100.00	-	-	-	-	-	100.00	0.023
		ii) Multimedia Projectors	No.		1	-	-	35.00	-	-	-	-	-	35.00	0.008
		iii) Smart City Equipment: BSMSN (Hardware, software equipment's)	N/A		LS	-	-	400.00	-	-	-	-	-	400.00	0.092
	4112202	Computer Accessories: Desktop-60, Laptop-35, Tab-10, Printer-60, Photocopier-10, and Scanner-15	Nos.		190	-	-	350.00	-	-	-	-	-	350.00	0.081
	4112302	Camera and accessories	N/A		LS	-	-	5.00	-	-	-	-	-	5.00	0.001
	4112306	Testing Laboratories with supply &	N/A		LS	-	-	450.00	-	-	-	-	-	450.00	0.104
	4112310	Office Equipments	N/A		LS	-	-	33.00	-	-	-	-	-	33.00	0.008
	4112314	Furniture and Fixtures	N/A		LS	-	-	416.00	-	-	-	-	-	416.00	0.096
<b>Softwar</b>															
4113	4113301	Computer Softwar	N/A		LS	-	-	100.00	-	-	-	-	-	100.00	0.023
	4113302	Financial Management System (Database)	LS		Software	-	-	100.00	-	-	-	-	-	100.00	0.023
<b>Total Goods</b>						<b>78.00</b>	<b>-</b>	<b>1,989.00</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2,067.00</b>	<b>0.475</b>
<b>Works</b>															
4111	4111201	Non-residential Building													
		i) Resilient Site upgrade and Building Development	Lac sqm		1.27	-	-	5,000.00	-	-	-	-	-	5,000.00	1.150
		ii) Construction of Investors Club	sqm		600	-	-	3,000.00	-	-	-	-	-	3,000.00	0.690
		iii) Furnished OSS Centre for BSMSN	N/A		LS	-	-	1,000.00	-	-	-	-	-	1,000.00	0.230
		iv) Mosque	sqm		1580	-	-	2,000.00	-	-	-	-	-	2,000.00	0.460
		v) Emergency Response Centre	sqm		3000	-	-	2,500.00	-	-	-	-	-	2,500.00	0.575
		vi) Construction of Skills Development Center	sqm		1025*3	1,500.00		-	-	-	-	-	-	1,500.00	0.345
		vii) Construction of Child Care & Emergency Health Care Center	sqm		1025*3	1,500.00		-	-	-	-	-	-	1,500.00	0.345

১৪৪৮৮ (১০) আর ৫৯ ও সংশ্লিষ্ট  
 দায়িত্ব দেয়া  
 উপস্থিত  
 ০২/০৮/১৯

০১৪

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার  
 প্রধানমন্ত্রীর কার্যালয়  
 বাহালাদেপন দায়িত্ব  
 ১৪/০৮/১৯



১৪/০৮/১৯  
 উপ-প্রধান (স: দা:)  
 শিল্প ও শক্তি বিভাগ  
 পরিকল্পনা কমিশন, পরিকল্পনা মন্ত্রণালয়



(Taka in Lac)

Economic Code	Economic sub-code	Description	Unit	Unit Cost	Quantity	Total								% of total project cost	
						GOB (FE)	PA				Own Fund	Others	Total		
							RPA		DPA						
							GOB	Special Account*	Through PD	Through DP					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
	4111302	Road Network	Km		30	-	-	40,600.00	-	-	-	-	-	40,600.00	9.339
	4111307	Drainage structures (Storm Water)	Km		31	-	-	21,200.00	-	-	-	-	-	21,200.00	4.877
	4111309	Sanitation & Water Supply (Sower Network & Water Supply Network)	Km		40	-	-	18,700.00	-	-	-	-	-	18,700.00	4.302
	4111310	Excavation (Channel Lining)	Km		10	-	-	5,085.00	-	-	-	-	-	5,085.00	1.170
	4111312	Telecommunication systems	Km		25	-	-	1,700.00	-	-	-	-	-	1,700.00	0.391
	4111313	Power Network	km		20 (33 KVA) 13.5 (11 KVA)	-	-	16,150.00	-	-	-	-	-	16,150.00	3.715
	4111316	Gas pipeline network	Km		28	-	-	17,000.00	-	-	-	-	-	17,000.00	3.911
	4111317	Other Building & Structure													
		i) Security and Support Amenities	km		40	-	-	12,750.00	-	-	-	-	-	12,750.00	2.933
		ii) Central Effluent Treatment Plant (PPP)	MLD		48	-	-	20,400.00	-	-	-	-	-	20,400.00	4.693
		iii) Desalination plant (PPP)	MLD		30	-	-	38,250.00	-	-	-	-	-	38,250.00	8.799
		iv) Steam network (PPP)	Km		12.14	-	-	6,800.00	-	-	-	-	-	6,800.00	1.564
		v) Solid Waste Management (PPP)	acr		100	-	-	12,750.00	-	-	-	-	-	12,750.00	2.933
		vi) Biogas plant, waste sorting and material recovery facility (PPP)	acr		40	-	-	6,800.00	-	-	-	-	-	6,800.00	1.564
		vii) Rooftop and floating solar (PPP)	MW		10-60	-	-	59,500.00	-	-	-	-	-	59,500.00	13.687
		viii) Environmental Lab & Monitoring System	sqm		280	-	-	790.00	-	-	-	-	-	790.00	0.182
	4111401	Land Development	Lac cum		100	-	-	25,500.00	-	-	-	-	-	25,500.00	5.866
		<b>Total Works</b>						<b>3,000.00</b>						<b>320,475.00</b>	<b>73.720</b>
		<b>Sub Total (Capital):</b>						<b>3,078.00</b>						<b>322,542.00</b>	<b>74.195</b>
		(c) Physical Contingency (@ 2% of Capital Cost)						6,451.00						6,451.00	1.484
		(d) Price Contingency (@ 5% of Capital Cost)						16,127.00						16,127.00	3.710
		<b>Grand Total (a + b + c + d):</b>						<b>37,974.20</b>						<b>434,721.02</b>	<b>100.00</b>

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স্বাধীনতা চেম্বার  
স্বাধীনতা  
স্বাধীনতা (১৯৭১-৭২) এর ৬ নং অধ্যাদেশ

০৩০

*Rahman*  
আনিসুর রহমান  
পরিচালক-১  
প্রধানমন্ত্রীর কার্যালয়  
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

*Rahman*  
উপ-পরিচালক (সি. সাঃ)  
শিল্প ও শক্তি বিভাগ  
পরিচালনা কমিশন, পরিচালনা মন্ত্রণালয়









Economic Code	Economic sub-code	Description	Unit	Unit Cost	Quantity	COB (F)		FA		FY 4: 2023-24		FY 5: 2024-25		FY 6: 2025-26 (Till December 2025)		Total
						COB	Special Account	RPA Special Account	DPFA Through DP	DPFA Through DP	DPFA Through DP	DPFA Through DP	DPFA Through DP	DPFA Through DP	DPFA Through DP	
3871	3821101	Custom Duty & VAT	1	3	6	11	32									800.00
	3821104	VAT and others	N/A		15	400.00										200.00
		Sub total (Requirement Expenses)				2,463.64		15,156.56								15,252.65
<b>(b) Capital Expenditure:</b>																
<b>Goods</b>																
4112	4112101	Motor Vehicles (Motorcycle)	No.	22												
	4112102	Speed Boat	No.	1												
	4112061	ICT Equipment	LS	1												
		i) Video Conference system	LS	1												
		ii) Multimedia Projectors	No	1												
		iii) Smart City Equipment: BSMN (Hardware, software equipment)	N/A	15												
	4112202	Desktop-60, Laptop-35, 13b-10, Printer-60, Computer Accessories, Photocopier-10, and Scanner-15	No.	190												
	4112302	Camera and accessories	N/A	15												
	4112306	Testing Laboratories with supply & installation	N/A	15												
	4112310	Office Equipments	N/A	15												
	4112314	Furniture and fixtures	N/A	15												
	4113	Software	N/A	15												
	4113101	Computer Software	N/A	15												
	4113302	Financial Management System (Database)	LS	15												
		Total Goods														
<b>Non-residential Building:</b>																
4111	4111201	Resilient Site upgrade and Building Development	1 ac sqm	1.27												
		i) Construction of Investors Club	sqm	600												
		ii) Furnished OSS Centre for BSMN	N/A	15												
		iii) Mosque	sqm	1580												
		iv) Emergency Response Centre	sqm	3000												
		v) Construction of Skills Development Center	sqm	1025+3												
		vi) Construction of Child Care & Emergency Health Care Center	sqm	1025+3												
	4111302	Road Network	Km	30												
	4111307	Drainage Structures (Storm Water)	Km	31												
	4111309	Sanitation & Water Supply (Storm Network & Water Supply Network)	Km	40												
	4111310	Excavation (Channel Lining)	Km	10												
	4111312	Telecommunication systems	Km	25												
	4111313	Power Network	Km	25												
	4111316	Gas pipeline network	Km	28												
	4111317	Other Building & Structure	Km	28												
		i) Security and Support Ancillaries	Km	40												
		ii) Central EMU/Train Treatment Plant (PPP)	MMTD	48												
		iii) Desalination plant (PPP)	MLD	30												
		iv) Storm network (PPP)	Km	12.14												
		v) Solid Waste Management (PPP)	ac	100												
		vi) Biogas plant, waste sorting, and nuclear recovery facility (PPP)	ac	40												
		vii) Roof-top and floating solar (PPP)	MW	10.60												
		viii) Environmental Lab & Monitoring System	sqm	280												
	4111401	Land Development	ac cum	100												
		Total Works														
<b>Sub Total (Capital):</b>																
<b>(c) Physical Contingency (02.2% of Capital Cost)</b>																
<b>(d) Price Contingency (02.5% of Capital Cost)</b>																
<b>Grand Total (a + b + c + d)</b>																



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Annexure VI

বাংলাদেশ সরকারের ঋণ খেতাব গৃহীত ঋণ পরিচালনা সংক্রান্ত নির্দেশন  
(Amortization Schedule for GOB Loan)

Name of Project **Bangabandhu Sheikh Mujib Shilpa Nagar (BSMSN) Development Project**

Total Investment **434721.02 LakhTaka**

Loan Portion from Gov **37974.20 Lakh Taka**

Loan Period **20 Years (with 5 years grace period)**

Rate of Interest **1%**

In Lakh Taka

Period	End of The year	Loan installment	Loan at the beginning of the year	Interest Payment	Principal Payment	Loan Outstanding at the end of the year
	1	2	3	4=3*1%	5=2-4	6=3-5
1	2031	2104.35	37974.20	379.74	1724.61	35249.59
2	2032	2104.35	36249.59	362.50	1741.86	34507.73
3	2033	2104.35	34507.73	345.08	1759.27	32748.46
4	2034	2104.35	32748.46	327.48	1776.87	30971.59
5	2035	2104.35	30971.59	309.72	1794.64	29176.95
6	2036	2104.35	29176.95	291.77	1812.58	27364.37
7	2037	2104.35	27364.37	273.64	1830.71	25533.66
8	2038	2104.35	25533.66	255.34	1849.02	23684.65
9	2039	2104.35	23684.65	236.85	1867.51	21817.14
10	2040	2104.35	21817.14	218.17	1886.18	19930.96
11	2041	2104.35	19930.96	199.31	1905.04	18025.92
12	2042	2104.35	18025.92	180.26	1924.09	16101.83
13	2043	2104.35	16101.83	161.02	1943.33	14158.49
14	2044	2104.35	14158.49	141.58	1962.77	12195.72
15	2045	2104.35	12195.72	121.96	1982.40	10213.33
16	2046	2104.35	10213.33	102.13	2002.22	8211.11
17	2047	2104.35	8211.11	82.11	2022.24	6188.87
18	2048	2104.35	6188.87	61.89	2042.46	4146.41
19	2049	2104.35	4146.41	41.46	2062.89	2083.52
20	2050	2104.35	2083.52	20.84	2083.52	0.00
		42087.05		4112.85	37974.20	

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 প্রকল্প পরিচালক (সি.এম.এ.)  
 ঋণ খেতাব গৃহীত ঋণ পরিচালনা  
 বাংলাদেশ সরকার, ঢাকা

*Handwritten signature*  
 প্রধানমন্ত্রীর কার্যালয়  
 বাংলাদেশ সরকার  
 ঢাকা

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**Anisur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh



## Detailed Location of Physical Works

Sl.#	Economic Code	Works	Location
		<b>Non-residential Building</b>	
1.	4111203	Resilient Site upgrade and Building Development	Zone 6
2.	4111203	Construction of Investors Club	Beside Sheikh Hasina Sarcobor
3.	4111201	Furnished OSS Centre for BSMSN	Inside Administrative Building
4.	4111201	Mosque	Beside Access Road for Mirsarai-2A & 2B FZ Near Bhabir mor
5.	4111201	Emergency Response Centre	Inside Mirsarai-2B EZ
6.	4111201	Construction of Skills Development Center	Inside Mirsarai-2A EZ
7.	4111201	Construction of Child Care Emergency Health Care Center for BSMSN	Inside Mirsarai 2A EZ
		<b>Land Filling, Road, Drainage, Sanitation, Utility Networks etc.</b>	
8.	4111302	Road Network	Inside Mirsarai-2A & 2B EZ; Access Road for Mirsarai-2A & 2B FZ;
9.	4111307	Drainage structures (Storm Water)	Inside Mirsarai-2A & 2B EZ
10.	4111309	Sanitation & Water Supply (Sewer Network & Water Supply Network)	Inside 2A, 2B FZ
11.	4111310	Excavation (Channel Lining)	Between Mirsarai-2A & 2B EZ
12.	4111312	Telecommunication systems	Along Access Road for Mirsarai-2A & 2B EZ
13.	4111313	Power Network	Inside Mirsarai-2A & 2B EZ
14.	4111316	Gas pipeline network	Inside Mirsarai-2A & 2B EZ; Access Road for Mirsarai-2A & 2B EZ
15.	4111317	Security and Support Amenities	Sirkundu to Feni
16.	4111401	Land Development	Zone-13
		<b>Other Building &amp; Structure (PPP Components)</b>	
17.	4111317	Central Effluent Treatment Plant (PPP)	2B EZ
18.	4111317	Desalination plant (PPP)	2A FZ
19.	4111317	Steam network (PPP)	Power plant to Access Road of Mirsarai-2B EZ & Inside 2B EZ
20.	4111317	Solid Waste Management (PPP)	Zone 23
21.	4111317	Biogas plant, waste sorting and material recovery facility (PPP)	Zone 23
22.	4111317	Rooflop and floating solar (PPP)	Coastal Embankment beside Mirsarai-2A EZ, beside Icochakhati Channel, Sheikh Hasina Sarcobor, Rooflops in Mirsarai-2A & 2B EZ
23.	4111317	Environmental Lab & Monitoring System	2A EZ

*০৫/১৫*  
 পরামর্শক (স্বাক্ষরিত)  
 পরামর্শক (স্বাক্ষরিত)  
 স্বাক্ষরিত  
 স্বাক্ষরিত (স্বাক্ষরিত ও সিলসহ)



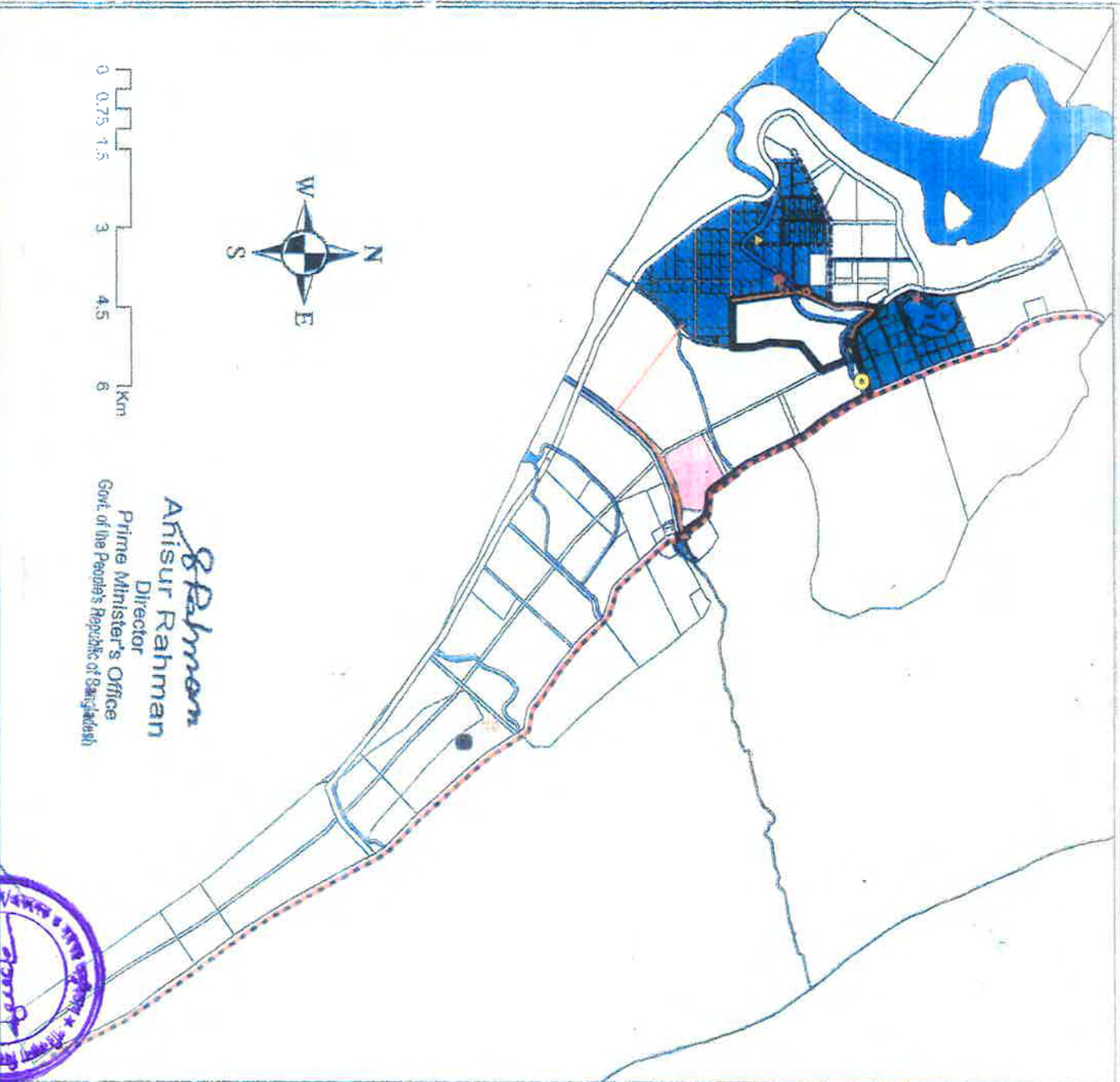
*Arifur Rahman*  
**Arifur Rahman**  
 Director

Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

055

*Arifur*

প্রমুখ কর্মকর্তাদের তালিকা (স্বাক্ষরিত)  
 স্বাক্ষরিত (স্বাক্ষরিত)  
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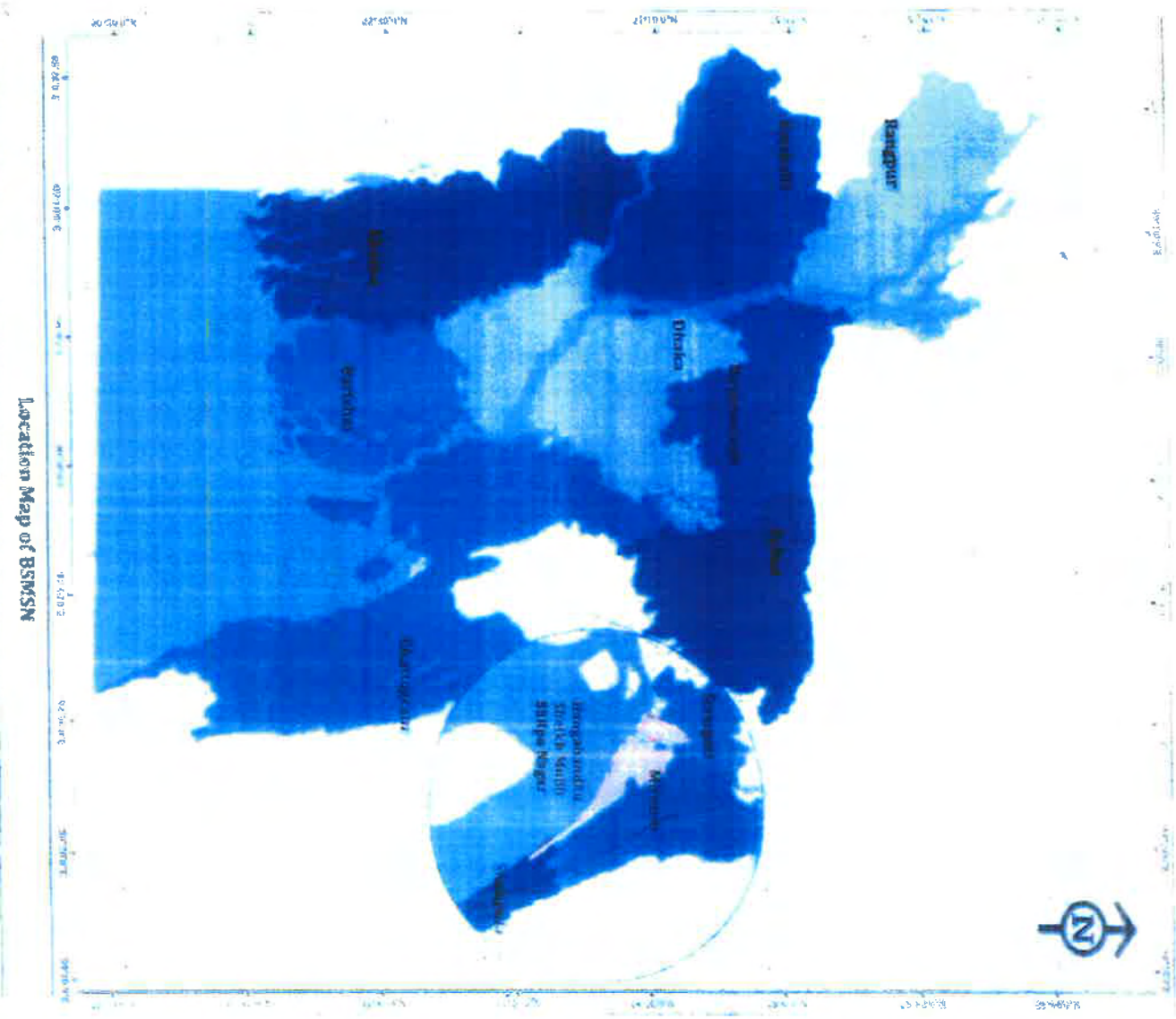
**Anisur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

## Legend

- Solid Waste Management Plant
- Bio-Gas Plant
- CFTP
- ◆ Desalination Plant
- Emergency Response Center
- Investor's Club
- Mosque
- Skill Development Center
- Child Care cum Health Center & Env Lab & Monitoring System
- Gas Pipeline (Access for L.A-43)
- ... Security & Storage Area
- ... Steam Network
- Road Network (Access for 2A, 2, 2B1)
- ▨ Landfill Development
- Resilient site projects
- Solar Power
- ▨ Zone 2A, 2, 2B

*আনিসুর রহমান*  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh





**Legend**

- |              |            |            |
|--------------|------------|------------|
| River        | Barisal    | Mymensingh |
| Sea          | Dhaka      | Rajshahi   |
| Project Area | Chittagong | Rangpur    |
|              | Khulna     | Sylhet     |

Comilla

*Anisur Rahman*  
**Anisur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

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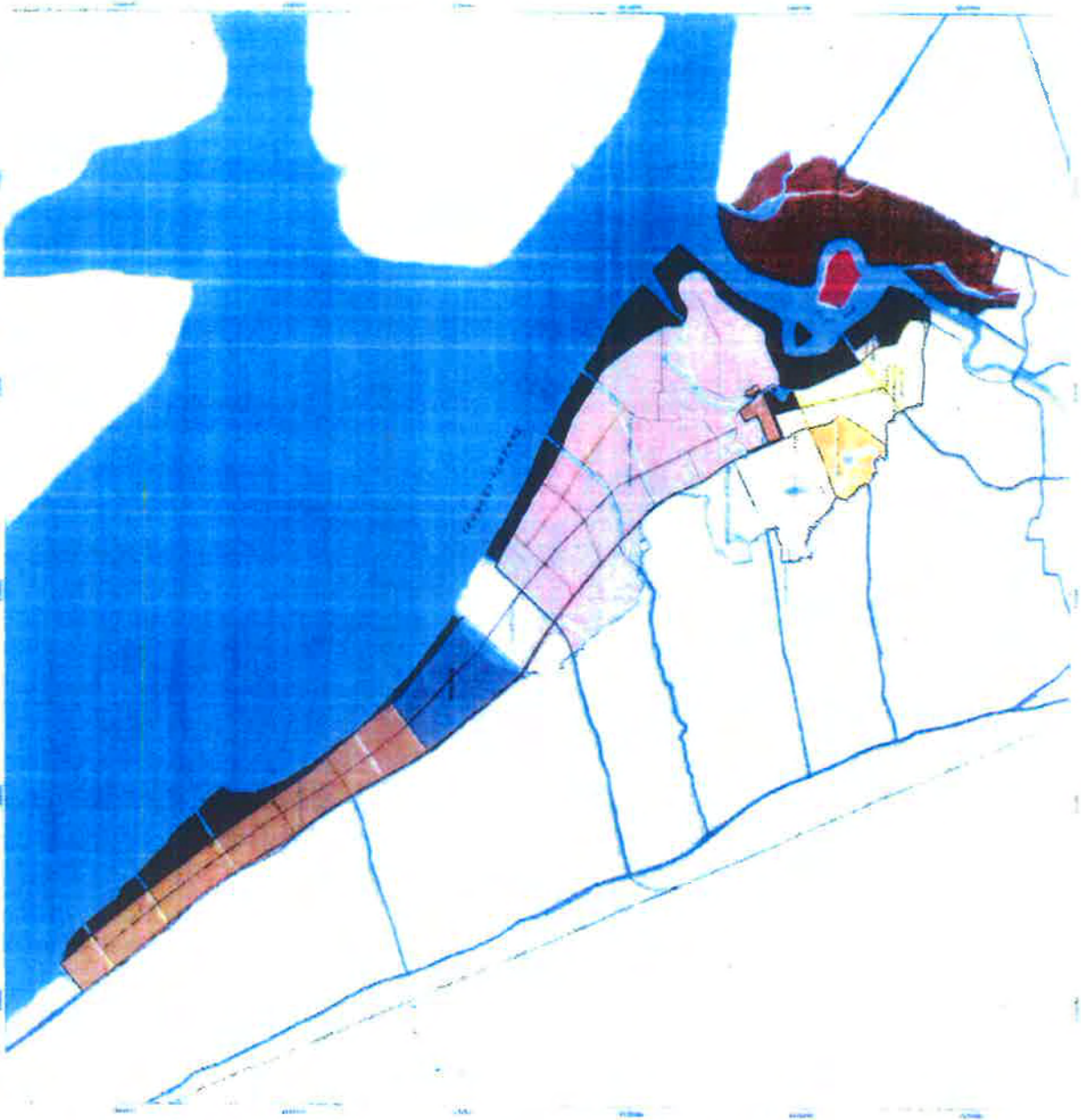
প্রধানমন্ত্রীর কার্যালয়  
 বাংলাদেশ (১৯৭৪ সালের ৩য় আইন)  
 গণপ্রজাতন্ত্রী বাংলাদেশ

১৯৭৪

প্রধানমন্ত্রীর কার্যালয়  
 বাংলাদেশ (১৯৭৪ সালের ৩য় আইন)  
 গণপ্রজাতন্ত্রী বাংলাদেশ



PROPOSED MASTER PLAN FOR BANGABANDHU SHEIKH MUJIB SHEELA NAGAR



**LEGEND**

**BOUNDARIES**

- State Boundary
- District Boundary
- Block Boundary
- Water
- Green
- Blue
- Red
- Black

**SYMBOLS**

- Government Building
- Public Building
- Religious Building
- Health Building
- Education Building
- Industrial Building
- Commercial Building
- Residential Building
- Open Space
- Water Body
- Green Space
- Blue Space
- Red Space
- Black Space

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Minister for  
Urban Planning

স্বরাষ্ট্র মন্ত্রণালয়  
শুভাঙ্গনা  
স্বরাষ্ট্র মন্ত্রণালয়  
(কম্পিউটার ও গ্রাফিক্স)

*Pradeep*

Chief Engineer (Civil Works)  
Bangabandhu Sheela Nagar  
Urban Planning Department  
Government of West Bengal



Baharabandhu Sugar Estate Project

**Legend**

Blue	Lake	Zone 1	Zone 10	Zone 19	Zone 28	Zone 37
Light Blue	Canal	Zone 2	Zone 11	Zone 20	Zone 29	Zone 38
Dark Blue	Water	Zone 3	Zone 12	Zone 21	Zone 30	Zone 39
Green	River/Channel	Zone 4	Zone 13	Zone 22	Zone 31	Zone 40
Light Green	Open Field	Zone 5	Zone 14	Zone 23	Zone 32	Zone 41
Yellow	Open Field	Zone 6	Zone 15	Zone 24	Zone 33	Zone 42
Orange	Open Field	Zone 7	Zone 16	Zone 25	Zone 34	Zone 43
Red	Open Field	Zone 8	Zone 17	Zone 26	Zone 35	Zone 44
Pink	Open Field	Zone 9	Zone 18	Zone 27	Zone 36	Zone 45
Dark Green	Open Field	Zone 10	Zone 19	Zone 28	Zone 37	Zone 46



**Akshay Kumar**  
 Director  
 Project Management Office  
 Baharabandhu Sugar Estate Project

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**Prasanna**  
 Director  
 Baharabandhu Sugar Estate Project  
 Baharabandhu Sugar Estate Project

Appendix-IV

Detailed Estimation including Indicative Design of Component -2 (As per DPP)

(Fig in Lac Taka)

SL#	Work Components	Estimated Cost (Lac Taka)	Annexure No.	DPP Page
1	Resilient Site upgrade and Building Development	5,000.00	4/1	60
2	Construction of Investors Club	3,000.00	4/2	61
3	Furnished OSS Centre for BSMSN	1,000.00	4/3	63
4	Mosque	2,000.00	4/4	64
5	Emergency Response Centre	2,500.00	4/5	67
6	Construction of Skills Development Center	1,500.00	4/6	72
7	Child Care & Emergency Health Care Center	1,500.00	4/7	76
8	Road Network	40,600.00	4/8	79
9	Drainage structures (Storm Water)	21,200.00	4/9	208
10	Sanitation & Water Supply Network	18,700.00	4/10	214
11	Excavation (Channel Lining)	5,085.00	4/11	218
12	Telecommunication systems	1,700.00	4/12	222
13	Power Network	16,150.00	4/13	223
14	Gas pipeline network	17,000.00	4/14	224
15	Security and Support Amenities	12,750.00	4/15	225
16	Central Effluent Treatment Plant (PPP)	20,400.00	4/16	230
17	Desalination plant (PPP)	38,250.00	4/17	233
18	Steam network (PPP)	6,800.00	4/18	235
19	Solid Waste Management (PPP)	12,750.00	4/19	237
20	Biogas plant, waste sorting & material recovery (PPP)	6,800.00	4/20	239
21	Rooftop and floating solar (PPP)	59,500.00	4/21	241
22	Environmental Lab & Monitoring System	790.00	4/22	243
23	Land Development	25,500.00	4/23	244

*A. M. A.*  
 সিনিয়র সিস্টেম এনালিস্ট  
 সিস্টেম এনালিস্ট  
 সিস্টেম এনালিস্ট  
 সিস্টেম এনালিস্ট

060

*A. M. A.*



*A. M. A.*  
**Anisur Rahman**  
 Director

Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

সিস্টেম এনালিস্ট (সিস্টেম এনালিস্ট)  
 সিস্টেম এনালিস্ট (সিস্টেম এনালিস্ট)  
 সিস্টেম এনালিস্ট (সিস্টেম এনালিস্ট)  
 সিস্টেম এনালিস্ট (সিস্টেম এনালিস্ট)



Resilient Site Upgrade

Item No	Description	Unit	Quantity	Rate in Taka	Amount in Taka in Lac
<b>A</b>	<b>Light landscaping works for lawn &amp; light plantation (excl. resort zone &amp; hotel zone)</b>				
1	<b>Earth Preparation</b>				
	Supply & filling of approved quality alluvial loamy silty soil	cum	68,250.00	935.00	638.14
	Preparation of ground to make ready for plantation	sqm	45500	20	9.10
2	<b>Plantation of approved species</b>	sqm	45500	4,500.00	2,047.50
	900mm-1800mm height flowering plants				
	Shrub plants				
	Lawn grass				
	Hedge plants				
3	<b>Tree guard placement</b>	LS	1	2500000	25.00
<b>B</b>	<b>Afforestation works (excl. resort zone &amp; hotel zone) Island area - 15200 sqm. Shore area - 21200 sqm;</b>				
1	<b>Earth Preparation</b>				
	Supply & filling of approved quality alluvial loamy silty soil	cum	54,600.00	935.00	510.51
	Preparation of ground to make ready for plantation	sqm	36,400.00	20	7.28
2	<b>Plantation of approved species</b>	sqm	36,400.00	4,500.00	1,638.00
	1200mm-1800mm height trees				
	Bamboo				
	Shade grass				
3	<b>Tree guard placement</b>	LS	1	2500000	25.00
<b>C</b>	<b>Maintenance works (for 12 months)</b>				
1	Watering	job	1.00	5,000,000.00	50.00
1	Applying fertilizer and weeding	job	1.00	5,000,000.00	50.00
					5,000.53

Total: BDT Fifty crore and fifty three thousand only

Resilient Site Upgrade and Building Development

Annexure IV - 1

*Remarks*  
 ১০-১০-২০২০ (১০.১০.২০)  
 বিজ্ঞান ও প্রযুক্তি বিভাগ  
 মন্ত্রণালয়, গণপ্রজাতন্ত্রী বাংলাদেশ

061

*Anisur Rahman*  
 Director  
 Prime Minister's Office  
 Govt. of the Peoples Republic of Bangladesh

*দায়িত্ব*  
 দায়িত্ব প্রাপ্ত  
 যুগ্মসচিব  
 ব্যবস্থাপক (এম আই এস ও গবেষণা)



*মোঃ কামাল হোসেন চপন*  
 প্রোগ্রামার (এম আই এস ও গবেষণা)

Estimate for Investors Club at BSMISN

Sl.NO	Components	Unit	Lakh BDT
1	Construction of Building	LS	1000.00
2	Providing VVIP Grade Sanitary fittings and Fixtures	LS	200.00
3	High Quality decorative Interior.	LS	500.00
4	Central A/C system.	LS	300.00
5	Swimming pool, landscaping, Greenary, Site Development etc	LS	800.00
6	Providing Utilities.	LS	200.00
	<b>Total</b>		<b>3000.00</b>

*D/SMA*  
 নসিুর রহমান (সি.এম.এ.)  
 সিনিয়র সিস্টেম এনালিস্ট  
 সরকার (সি.এম.এ. অফিস)

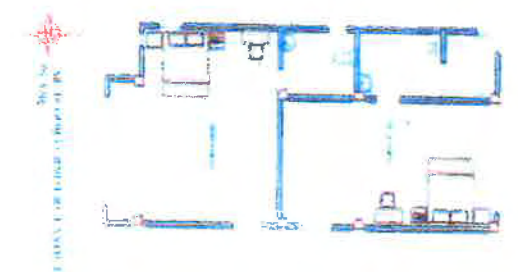
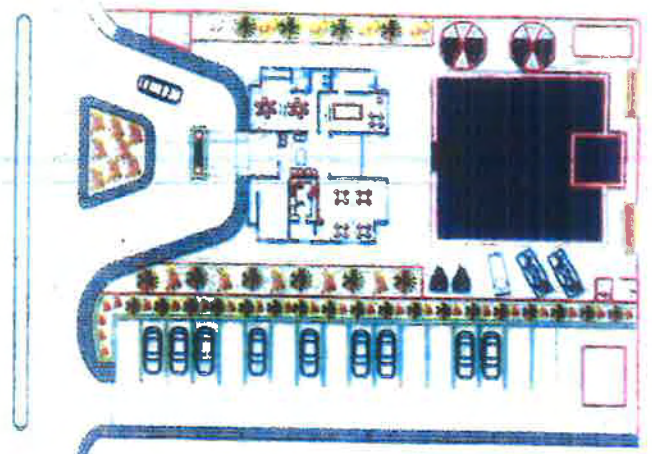
*Dr. VG Hiremath*  
 Dr. VG Hiremath  
 Team Leader  
 aarvee -BETS JV  
 T&S FOR O&S of Infrastructure Works at M/sarai EZ  
 Bangladesh Economic Zone Authority

*Ahissur Rahman*  
 Ahissur Rahman  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

*Rashed*  
 Rashed  
 চে.এ.সি.সি. (সি.এ.সি.সি.)  
 সিস্টেম এনালিস্ট  
 পি.ও.সি. (সি.এ.সি.সি.)  
 বাংলাদেশ ইকোনমিক জোন কর্তৃক



# INVESTOR CLUB



*Rahim*  
 গণপ্রজাতন্ত্রী বাংলাদেশ সরকার  
 বাংলাদেশ (সি. ১১)  
 ফিল্ড ওয়ার্ড (১) জি. ১১  
 মৌজাবন্দী নং-৩৩, মৌজা নং-১১৩৩

*Diya*  
 বাংলাদেশ সরকার  
 মন্ত্রণালয়  
 (সি. ১১) ওয়ার্ড (১) জি. ১১

০৬৩

*Anisur Rahman*  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

Estimate of Furnished OSS Centre for BSMISN

Item No.	Description of Work	Amount (Tk)	Remarks
1	Interior Work (Ceiling, Wall Paneling, Wall partition and others)	40,000,000.00	
2	Electrical Work (Spot light, Ceiling light, switch, breaker and etc.)	20,000,000.00	
3	Furniture work	30,000,000.00	
4	IT work (automation, CC camera and related software)	10,000,000.00	
<b>Total Amount =</b>		<b>100,000,000.00</b>	

*Rahman*  
 রাহমানের স্বাক্ষর  
 স্বাক্ষরিত  
 তারিখঃ (১৫ জুলাই ১৪ ১৪৩৩)

*Rahman*  
 Dr. VG. Hreemath  
 Team Leader  
 Barrow -BETS JV

IAS PQR DAS of Infrastructure Units at Mineral EZ  
 Bangladesh Economic Zone Authority

*Ahmedur Rahman*  
 Ahmedur Rahman  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

*Ahmedur Rahman*  
 আহমেদুর রহমান  
 ডিরেক্টর  
 প্রিমিয়ার মন্ত্রণালয়  
 বাংলাদেশ সরকার



## SUMMARY FOR MOSQUE

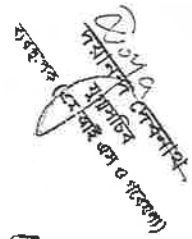
**Project Name : Construction of Central Mosque**

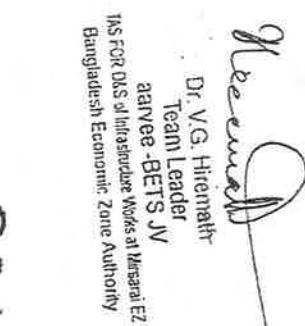
- Building type : Non Residential
- Building Category : Special (1 Storee)
- Type of structure : R. C. C. Frame structure with 1: 1.5: 3 concrete (stone chips)
- Foundation : Cast-in-situ Pile Foundation
- Plinth Area : 1580 sqm
- No of floors : Ground floor /Mezzanine floor
- Site : Coastal area (Mirsarai, Chitagong)
- Facilities:
  1. Ozu space for both male & Female
  2. Spedious Namaz space for both male & Female
  3. Defuse lighting provision
  4. Parking provision
  5. Landscape area
  6. Total capacity 600 nos people
  7. Ground floor : 400 nos people
  8. Mezzanine floor : 200 nos people
  9. PWD rate schedule followed to prepare estimate.

DESCRIPTION	AMOUNT (Lac)
A. FOUNDATION COST	542.00
B. SUPER STRUCTURE COST	1261.00
C. ADDITIONAL SUPER STRUCTURE COST	3.00
D. ELECTRICITY & OTHERS	37.00
E. BOUNDARY WALL	48.00
F. OTHERE ADDITIONAL REQUIREMENT	113.00
<b>Grand Total =</b>	<b>2,004.00</b>

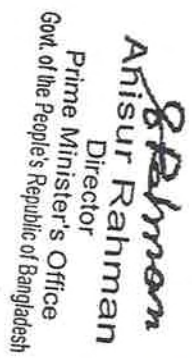


  
 ড. বি.জি. হিরেম্যাথ  
 টিম লিডার (সিআইডি)  
 বাংলাদেশ অর্থনৈতিক জোন কর্তৃক  
 পরিচালিত সরকারি প্রকল্প

  
 এনিসুর রহমান  
 ডিরেক্টর  
 প্রাইম মিনিস্টার'স অফিস

  
 Dr. V.G. Hiremath  
 Team Leader  
 anayee -BETS JV  
 IAS FOR DAS of Infrastructure Works at Mesarai/EZ  
 Bangladesh Economic Zone Authority



  
 Anisur Rahman  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

  
 এনিসুর রহমান (সি.সি.)  
 প্রাইম মিনিস্টার'স অফিস  
 বাংলাদেশ সরকার, গণপ্রজাতন্ত্রী বাংলাদেশ

065

## PRELIMINARY ESTIMATE

**Project Name : Construction of Central Mosque**

**Building Type : Non Residential**

**Building Category : Special (1 Store)**

**Type of structure : R. C. C. frame structure with 1:1.5:3 concrete (stone chips)**

**Foundation : Cast-in-situ pile foundation**

**Pilinth Area : 1580 sqm**

**Ground Floor : Habitation**

**Site : Coastal area (Mirsarai, Chittagong)**

### 1. SOIL INVESTIGATION

Sl. No.	Item Description	Unit	Rate	Quantity	Amount (TK)
1	Soil Investigation: 1500 Achal cost (9H Nos. as primary, any)	nos	26528.00	12.00	318,336.00
Sub-Total "A"					318,336.00

### 2. CONSTRUCTION OF BUILDING

#### A. FOUNDATION COST

Sl. No.	Item Description	Unit	Rate	Quantity	Amount (TK)
1	Foundation cost up to Pilinth Level from P.L.R. Table-1 (for Cast-in-situ pile pile 300)	Sqm	32812.80	1580.00	51,649,224.00
Sub-Total					51,649,224.00
2	Add cost for saline zone (1%)				518,442.24
3	Add cost for high risk coastal area (2%)				1,555,326.72
Sub-Total "B1"					53,817,992.95

#### B. SUPER STRUCTURE COST

Sl. No.	Item Description	Unit	Rate	Quantity	Amount (TK)
1	Ground floor (from P.L.R. Table-2)	Sqm	27275.00	1580.00	43,094,500.00
2	1st floor (from P.L.R. Table-2)	Sqm	25882.00	1580.00	40,893,560.00
3	Add 3% for additional height	Sqm	26658.46	1580.00	42,110,366.80
Sub-Total "B2"					126,108,426.80

#### C. ADDITIONAL SUPER STRUCTURE COST

Sl. No.	Item Description	Unit	Rate	Quantity	Amount (TK)
1	(other than coastal area) & extra grade bed (existing structure.)				2,522,158.54
2	Extra cost for Piling & 10% extra Ach (Table-2)	Sqm	2632.00	1580.00	4,247,000.00
3	Extra cost for Rect. Top R.C. C. water tank (from additional cost than item-5)	Gallon	155.00	2000.00	310,000.00
Sub-Total "B3"					310,000.00
Sub-Total "B" (B1+B2+B3)					180,936,119.74



মন্ত্রণালয় (স্ব-স্ব) এর ও অধীনস্থ  
মন্ত্রিসভা  
সচিবালয় (স্ব-স্ব) এর ও অধীনস্থ

*(Signature)*

066

*(Signature)*

**Ahsur Rahman**  
Director

Prime Minister's Office  
Govt. of the People's Republic of Bangladesh

স্ব-স্ব ও পল্লী উন্নয়ন  
উপ-সচিবালয় (স্ব-স্ব)  
স্ব-স্ব ও পল্লী উন্নয়ন  
সচিবালয়, মিরসারাই, চট্টগ্রাম

5. OTHER ADDITIONAL COST

S/L No.	Item Description	Unit	Rate	Quantity	Amount (TK)
1	Internal Electrification (from additional cost)	Sqm	1750.00	1580.00	2,767,000.00
2	Construction of underground reservoir (from additional cost (incl. Item-9&10))	Sqm	92.00	10000.00	920,000.00
				Sub-Total "C"	3,685,000.00

6. BOUNDARY WALL

S/L No.	Item Description	Unit	Rate	Quantity	Amount (TK)
1	Boundary wall in RCC Frame, 1.80 m in height, level difference between FGL and EGL up to 0.45m. Construction of RCC (M=22 MPa, minimum 1st=27 MPa nominal mix ratio of 1:2:4 with stone chips) frame boundary wall of height 1.8m above F.G. and foundation depth 1.5m from EGL. Having column size 380mm X 250mm @ 1.0m c/c, 250 mm X 750 mm size grade beam at FGL, 75mm thick and 270mm width RCC ceiling, 125mm thick and 225mm width RCC floor slab, with 10% extra for wastage. 1:3:10 in concrete and 1:2:10 in plaster (1:2) of brick surface and finish greater 1:20 for RCC and providing standard scope, drainage plan as per for surface etc.	m	11723.00	410.00	4,770,522.00
				Sub-Total "D"	4,770,522.00
				Sub-Total "E"=(A+B+C+D)	389,110,277.76

7. OTHER ADDITIONAL REQUIREMENT

S/L No.	Item Description	Sub-Total Amount	%	Amount (TK)
1	Quality Assurance, Material Sample Collection & Testing (1% of E)	189119277.76	0.01	1,891,102.78
2	Contingency (5% of E) or Actual need	189110277.76	0.05	9,455,513.89
		Sub-Total "F"		11,346,616.67

8. LAND COST

S/L No.	Item Description	Amount (TK)
1	Cost of Land	200,456,894.43
Grand Total "H"=(E+F+G)		200,456,894.43
SAV		200,456,894.43



Dr. VG. Hironaka  
Team Leader  
RATVGS - BETS JV  
168 FDR Gas Infrastructure Works at District of Bangladesh Economic Zone Authority

Anisur Rahman  
Director

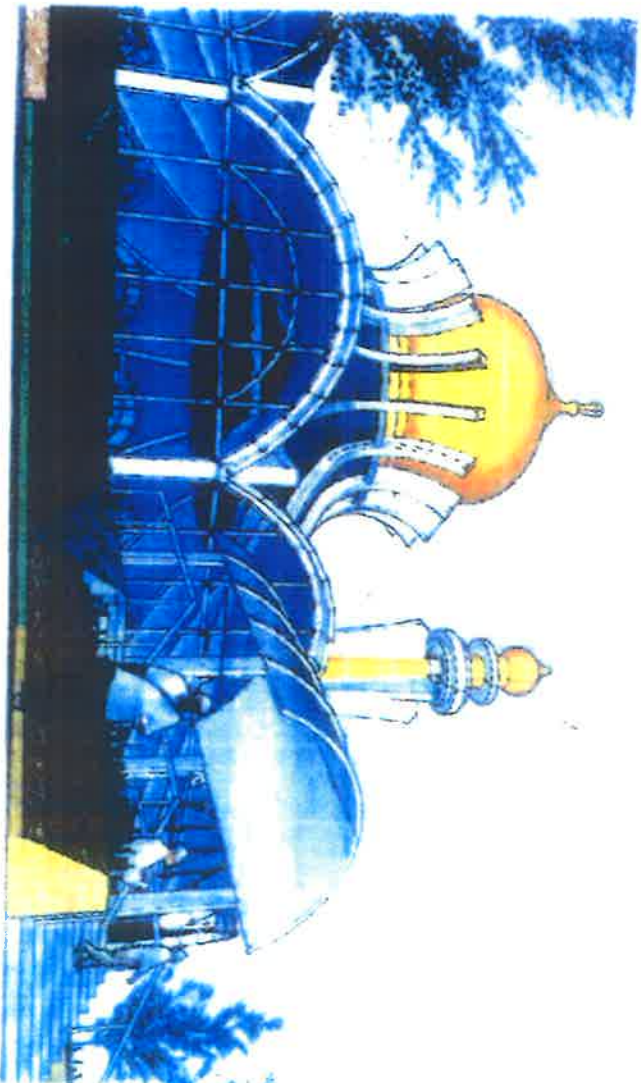
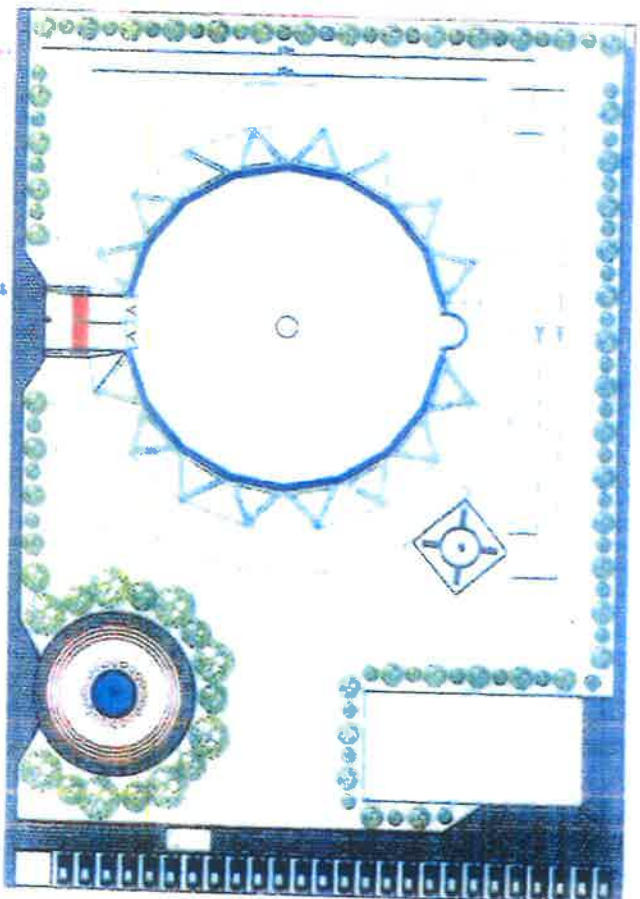
Prime Minister's Office  
Govt. of the People's Republic of Bangladesh

067

স্বাক্ষরিত হয়েছে  
১৬৮ ফর্ড গ্যাস অবকাঠামো প্রকল্পের  
সম্পর্কে।  
১৬৮ ফর্ড গ্যাস অবকাঠামো প্রকল্পের  
সম্পর্কে।

১৬৮ ফর্ড গ্যাস অবকাঠামো প্রকল্পের  
সম্পর্কে।  
১৬৮ ফর্ড গ্যাস অবকাঠামো প্রকল্পের  
সম্পর্কে।

# MOSQUE



১৯৮৪-৮৫ (১ম) বর্ষের ১ম ও ২য় অর্ধ

**Ahissur Rahman**  
Director

Prime Minister's Office  
Govt. of the People's Republic of Bangladesh

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**Qarib**

১৯৮৪-৮৫ (১ম) বর্ষের ১ম ও ২য় অর্ধ  
১৯৮৪-৮৫ (১ম) বর্ষের ১ম ও ২য় অর্ধ

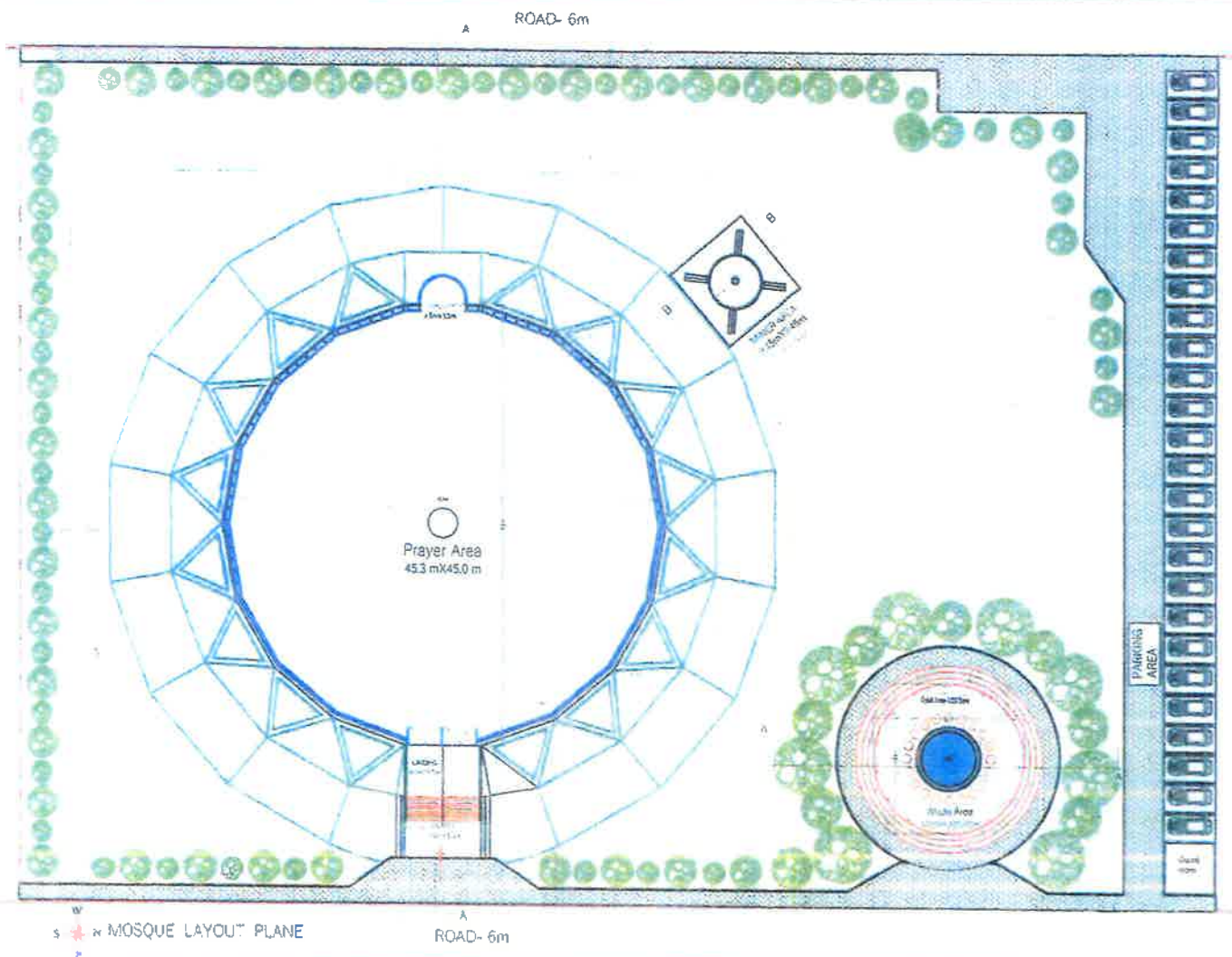


১৯৯৯ সালের ১১ নং আইন  
 জি.ও. নং ১৯৯৯ (১১.১১.৯৯)  
 বিচার ও ন্যায় বিভাগ  
 শিল্পকলা মন্ত্রণালয়, গণপ্রজাতন্ত্রী বাংলাদেশ

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১৯৯৯  
 প্রধান নির্দেশনা  
 মুকাদ্দিস  
 হাফসাহ (কম কারি কাম ও গলফা)

০৬৯ Anisur Rahman  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

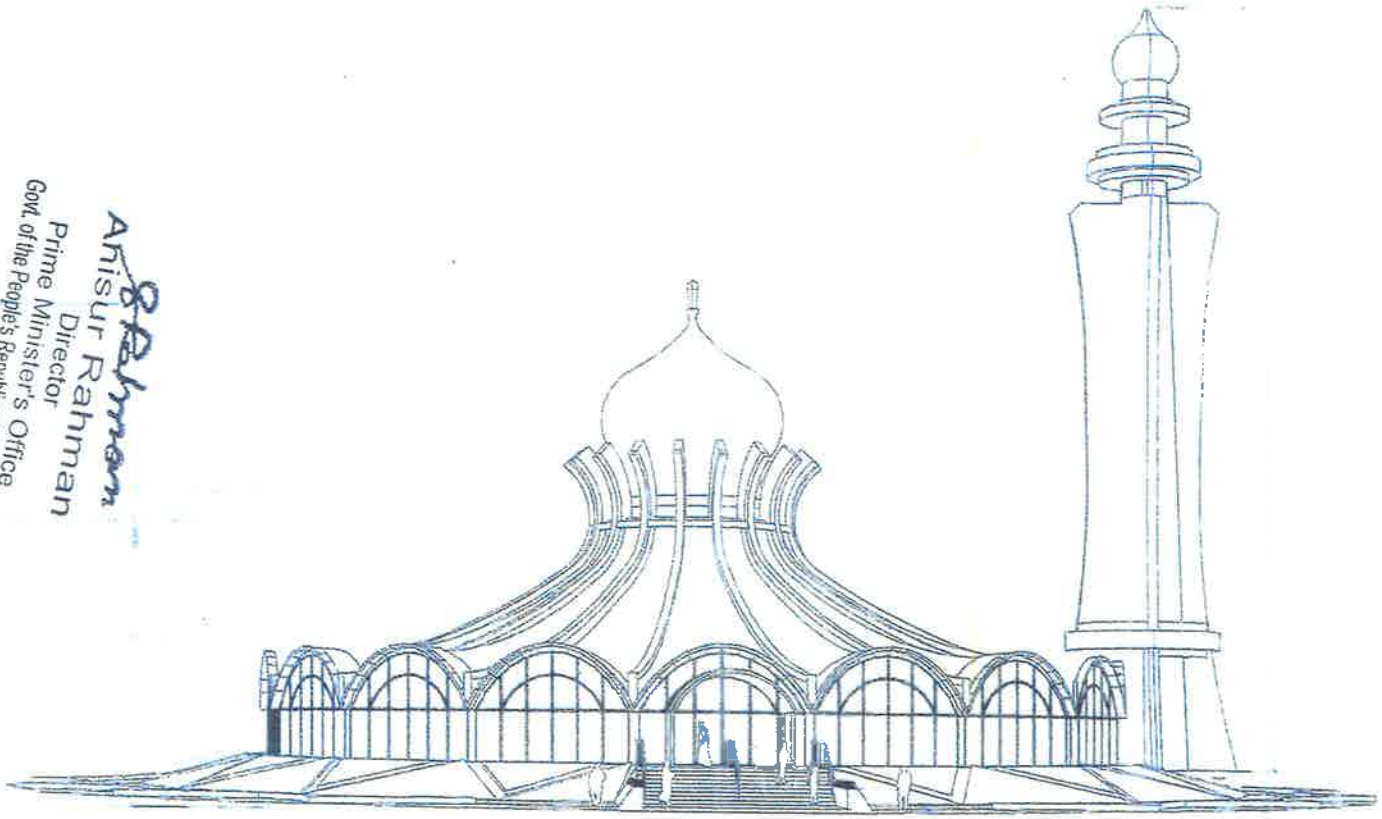


Project Name	Client	Design	Approval	Remarks	Signature	Date
CENTRAL MOSQUE	AanVib-GETS(A) (BEZA-CS-2211)	Dr. Khaled Uddin CAD operator	Dr. U.G. Hossain Team Leader	BEZA	<i>[Signature]</i>	
MOSQUE LAYOUT PLANE	August 2020	<i>[Signature]</i>				



১৯৯৬  
 প্রতিষ্ঠা: ১৯৯৬  
 ১৯৯৬  
 ১৯৯৬

**Anisur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh



FRONT ELEVATION

১৯৯৬  
 দায়িত্ব: ১৯৯৬  
 মুগ্ধতা  
 যাবতীয় (এম আই এস ও গবেষণা)



 BANGLADESH ECONOMIC ZONES AUTHORITY (BEZA)	CENTRAL MOSQUE CENTRAL MOSQUE FRONT ELEVATION	A/001-BETS(N) (BEZA-C9-2/11) August 2020	St. Kalam Modh (200 sqm) 	 ১৯৯৬	Dr. VG Hossain Team Leader 	BEZA	<table border="1"> <tr> <th>No.</th> <th>Description</th> <th>Unit</th> <th>Quantity</th> </tr> <tr> <td>01</td> <td></td> <td></td> <td></td> </tr> <tr> <td>02</td> <td></td> <td></td> <td></td> </tr> <tr> <td>03</td> <td></td> <td></td> <td></td> </tr> <tr> <td>04</td> <td></td> <td></td> <td></td> </tr> <tr> <td>05</td> <td></td> <td></td> <td></td> </tr> <tr> <td>06</td> <td></td> <td></td> <td></td> </tr> <tr> <td>07</td> <td></td> <td></td> <td></td> </tr> <tr> <td>08</td> <td></td> <td></td> <td></td> </tr> <tr> <td>09</td> <td></td> <td></td> <td></td> </tr> <tr> <td>10</td> <td></td> <td></td> <td></td> </tr> </table>	No.	Description	Unit	Quantity	01				02				03				04				05				06				07				08				09				10			
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*Anisur Rahman*  
**Anisur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh



SECTION A-A

*Rashed*  
 প্রকল্প পরিচালক (সি.সি.সি.)  
 জি.এ.ই.জি.সি. (সি.সি.সি.)  
 গণপ্রজাতন্ত্রী বাংলাদেশ, গণপ্রজাতন্ত্রী সরকার

072

*Riya*  
 দয়ানন্দ দেবনাথ  
 যুগ্মসচিব  
 ব্যবস্থাপক (এম.আই.সি.সি. ও পাবনা)

 BANGLADESH ECONOMIC ZONES AUTHORITY (BEZA)	CENTRAL MOSQUE	Project-GETSAM (BEZA-CS-211)	Sir Katta Ullah City Engineer	Hossain Ali নওশের আলী জাতির জনক বঙ্গবন্ধু শেখ মুজিবুর রহমানের স্মরণে বাংলাদেশ সরকার গণপ্রজাতন্ত্রী বাংলাদেশ	Dr. V.G. Hossain Inspector	BEZA	Revision 01 02 03 04 05	01/01/2020 01/02/2020 01/03/2020 01/04/2020 01/05/2020	01/01/2020 01/02/2020 01/03/2020 01/04/2020 01/05/2020
	CENTRAL MOSQUE SECTION A.A	April, 2020	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>				

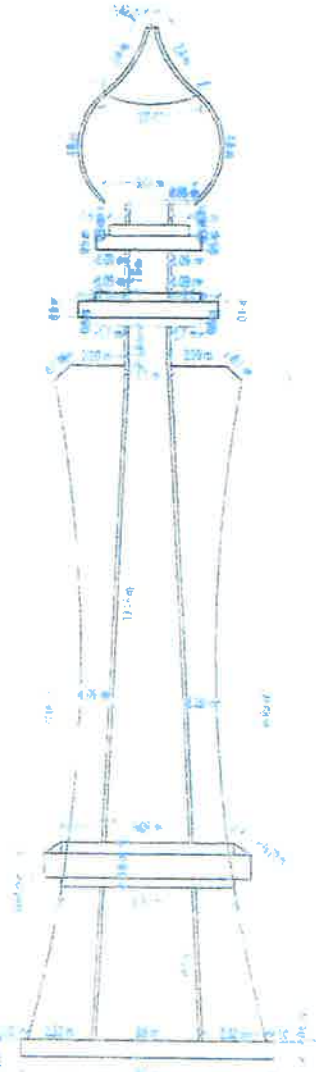
স্বাধীনতা স্মৃতিস্তম্ভ  
 স্মৃতিস্তম্ভ (সি. ১১১)  
 স্মৃতিস্তম্ভের  
 প্রকল্প ও নকশা প্রস্তুত  
 করণের  
 ক্ষেত্রে  
 প্রকল্প পরিচালক, স্মৃতিস্তম্ভ প্রকল্প

*Handwritten signature*

073

**Anisur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the Peoples Republic of Bangladesh

*Handwritten signature*  
 প্রধানমন্ত্রীর  
 কার্যালয়  
 (এম. জি. এইচ. এম. ও গবেষণা)



SECTION B-B

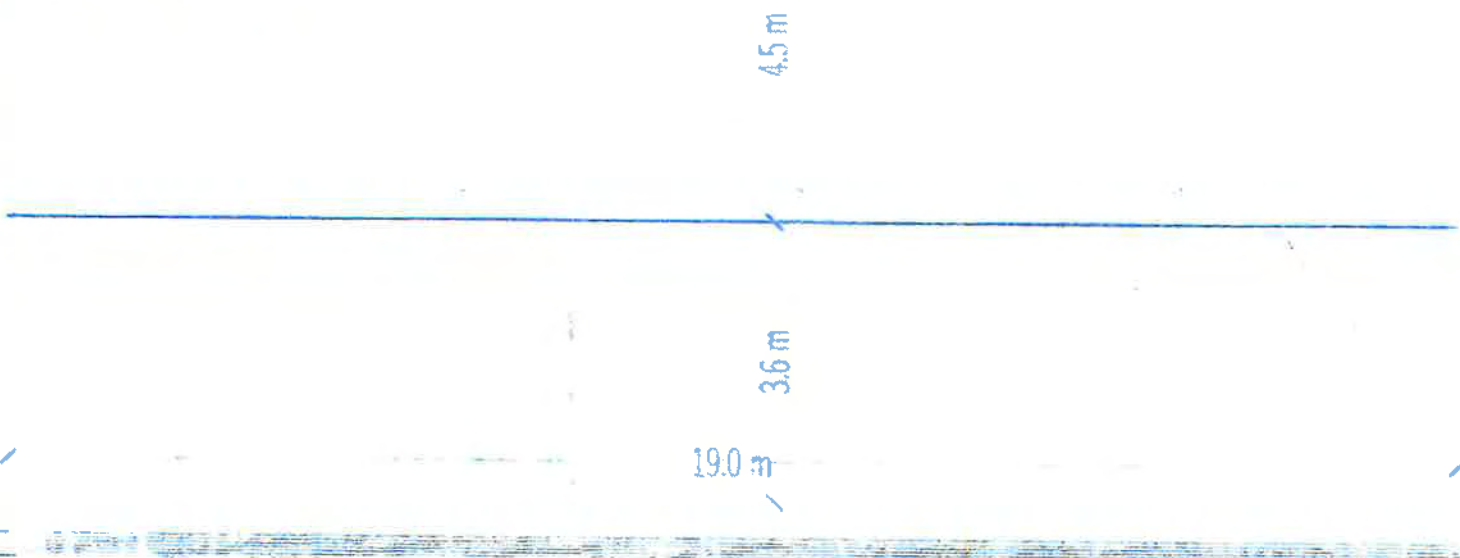


 BANGLADESH ECONOMIC ZONES AUTHORITY BEZA	CENTRAL MOSQUE CENTRAL MOSQUE SECTION B-B	Annex-BET/SM/1 (BEZA-CS-2214) August, 2020	Sk. Md. Uddin (CAS) architect <i>Handwritten signature</i>	Approved by <i>Handwritten signature</i> Director Prime Minister's Office	Dr. V.G. Hossain Town Engineer BEZA <i>Handwritten signature</i>	REVISION DATE 01-08-20
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**Arisur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

স্বাধীনতা সড়ক  
 ঢাকা-১০০ (১৯, ১১০)  
 ফিল্ড ও নটিফিকেশন  
 মন্ত্রণালয়, বাংলাদেশ সরকার



FRONT ELEVATION OF WUDU AREA

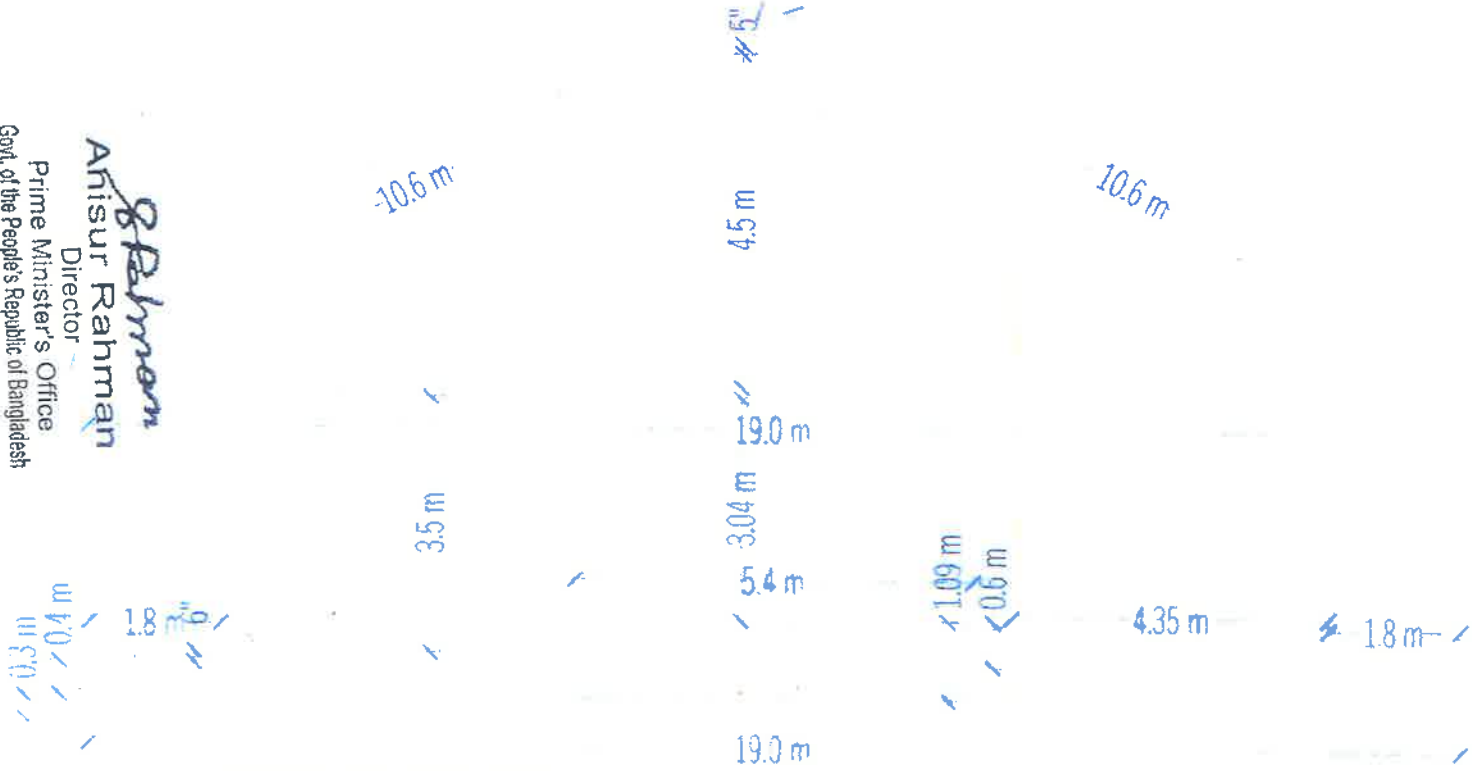
074

**আব্দুল মান্নান দেবনাথ**  
 যুগ্মসচিব  
 মহাপক (এস আই এন ও গবেষণা)

 BANGLADESH ECONOMIC ZONES AUTHORITY (BEZA)	CENTRAL MOSQUE	Aswim-SETSAN (BEZA-CS-211)	Sr. Md. Lath C/EI operator	Mosque Area Draw Approved	Sr. M.G. Ahmmed Town Planner	BEZA	NO	REVISION	DATE	REMARKS
	CENTRAL MOSQUE FRONT ELEVATION OF WUDU AREA	August, 2020					01			OK
							02			
							03			
							04			
							05			S-05

**Anisur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

075



SECTION OF WUDU AREA A-A

১৯৯৬  
 ১৯৯৬  
 ১৯৯৬  
 ১৯৯৬  
 ১৯৯৬  
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১৯৯৬  
 সৈয়দুল দেবনাথ  
 স্থাপত্যচিহ্ন  
 ককিলক্ষ (এক ছবি এক ও গবেষণা)

	CENTRAL BOARD	Asma-BETS(A) (BCEWB-CS-211)	Sk Kolin Ushin CAD Operator	Nauman Abbas Chishti Architect	Dr. V G Harish Translator	১৯৯৬	১৯৯৬	১৯৯৬
	BANGLADESH ECONOMIC DEVELOPMENT BOARD CENTRAL BOARD CENTRAL BOARD SECTION OF WUDU AREA	August, 2020					১৯৯৬	১৯৯৬



**Anisur Rahman**  
Director

Prime Minister's Office  
Govt. of the People's Republic of Bangladesh

C76

স্বাক্ষরিত: ১৫/০৮/২০২০  
স্বাক্ষর: *[Signature]*  
পদ: *[Title]*  
পদ: *[Title]*

0.3 m  
0.4 m  
1.8 m

10.6 m

3.5 m

5.5 m

4.5 m

19.0 m

3.04 m

3.4 m

19.0 m

1.09 m

0.6 m

19.6 m

4.35 m

1.8 m

SECTION OF WUDU AREA A-A

*[Signature]*  
পার্বনন্দ দেবনাথ  
মুদ্রাসচিব  
ব্যবস্থাপক (এম ডাই এস ও গবেষণা)

<p>BAHG LADESH ECONOMIC ZONES AUTHORITY (BEZA)</p>	<p>CENTRAL MOSQUE</p>	<p>Arreem-BE33(A) (BEZA-GS-22(1))</p>	<p>Sr. Nalin Uddh CAD operator</p>	<p>Mosque Area Code Arreem</p>	<p>Dr. V.G. Hossain Team leader</p>	<p>BEZA</p>	<p>NO</p>	<p>DATE</p>	<p>NO. OF SHEETS</p>
	<p>CENTRAL MOSQUE SECTION OF WUDU AREA A-A</p>	<p>August, 2020</p>	<p><i>[Signature]</i></p>	<p><i>[Signature]</i></p>	<p><i>[Signature]</i></p>	<p>3-01</p>	<p>1</p>	<p>1</p>	<p>1</p>



Estimate of Emergency Response Centre

All Rates are PWD schedule rates excepts, Site Dev and Electro Mech works.

Sl.no	Item Description	Qnt.	Unit	Unit rate	Total amount	Remark
Foundation Cost						
1	Soil Investigation	5	Nos	26675	133,375.00	PWD
2	Pile Foundation	600	Sqm	19512+9670	17,509,200.00	S/R
3	Add 2 % cost on Foundation for high wind/earth quake.			62X1,75,09,200/100	350,184.00	
Sub Total A:					17,992,759.00	

Sl.no	Item Description	Qnt.	Unit	Unit rate	Total amount
Super Structure Cost:					
1	Ground Floor.	200	Sqm	21007	4,201,400.00
1a	Add Extra for member Weirhage.	200	Sqm	855	171,000.00
2	1 <sup>st</sup> Floor	200	Sqm	19934	3,986,800.00
2a	Add Extra for member Weirhage.	200	Sqm	641	128,200.00
3	Mezzanine (2 <sup>nd</sup> Floor)	200	Sqm	20233	4,046,600.00
3a	Add Extra for member Weirhage.	200	Sqm	428	85,600.00
4	3 <sup>rd</sup> Floor	600	Sqm	20536	12,321,600.00
4a	Add Extra for member Weirhage.	600	Sqm	214	128,400.00
5	4 <sup>th</sup> Floor	100	Sqm	20844	2,084,400.00
6	Ground Floor Parking	400	Sqm	12940	4,816,000.00
Sub Total B:					31,970,000.00

Sl.no	Item Description	Qnt.	Unit	Unit rate	Total amount
Additional Super Structure Cost					
1	Add 2 % Cost for Wind/earthquake	27820000	2%	0.02	556,400.00
2	Extra Cost for Roof Top and Chikaktha	600	Sqm	2619	1,571,400.00
3	Extra Cost for Roof Top RCC parapet.	90X1.5-135	Sqm	2776	374,760.00
4	Extra Cost for Roof Top R.C.C. water Tank	2000	gal	155	310,000.00
5	Line Terrace on roof	600	Sqm	13267	7,960,200.00
Sub Total C:					10,772,760.00

Sl.no	Item Description	Qnt.	Unit	Unit rate in RDT	Total amount in GDT
Other Building Works:					
1	Internal Sanitary & Water Supply.	1800	Sqm	835.2	835,200.00
2	Internal Electrification	1000	Sqm	1299	1,299,000.00
3	External Water Supply	L.S.			500,000.00
4	Construction of under ground Reser. or.	6000	gal	92	552,000.00
5	Construction of Extra Reservoir for Fire Service.	50-000	gal	400	20,000,000.00
6	Sinking deep well and construction of pump House.	L.S.			12,000,000.00
Sub Total D:					35,186,200.00



*Anisur Rahman*  
 Anisur Rahman  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

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 ১১/১১/১১

*১১/১১/১১*

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১১/১১/১১  
 ১১/১১/১১  
 ১১/১১/১১

External Electrifications:

Sl.no	Item Description	Qnt.	Unit	Unit rate in BDT.	Total amount in BDT.
1	Underground Cable Connection from K/EH		LS		10,000,000.00
2	250 KVA Sub-Station.		LS	5,000,000.00	5,000,000.00
3	Earthing System.		LS	500,000.00	500,000.00
4	Stand-by Generator.		LS	5,000,000.00	5,000,000.00
5	Compound lighting including wiring and poles.		LS	2,500,000.00	2,500,000.00
6	L.T. Line.		LS	2,500,000.00	2,500,000.00
7	PDR/RHB Charges.		LS	1,000,000.00	1,000,000.00
Sub Total E:					26,500,000.00

Electro-Mechanical Components

Sl.no	Item Description	Qnt.	Unit	Unit rate in BDT.	Total amount in BDT.
1	2 Ton Split type A/C	1	set	72,000.00	72,000.00
2	Stand-by Generator	1	set	5,000,000.00	5,000,000.00
Sub Total F:					5,072,000.00

Gas Connection

Sl.no	Item Description	Qnt.	Unit	Unit rate in BDT.	Total amount in BDT.
1	Gas connection	1S		5,000,000.00	1,000,000.00
Sub Total G					1,000,000.00

Misc. Components.

Sl.no	Item Description	Qnt.	Unit	Unit rate in BDT.	Total amount in BDT.
1	Construction of Compound drain.	400	M	3820	1,528,000.00
2	Construction of RCC approach Road	500	Sqm	5000	2,500,000.00
3	Construction of Boundary Wall and Gates.	400	M	75,869.00	30,347,600.00
4	Site Development.	24000	Cum	600	14,400,000.00
5	Arboriculture/Landscape.	1S		2,500,000.00	2,500,000.00
6	Quality Assurance.	1S		1,000,000.00	1,000,000.00
Sub Total H:					52,275,600.00

Summary	
A	17,992,759.00
B	31,970,000.00
C	10,772,769.00
D	35,186,200.00
E	26,500,000.00
F	5,072,000.00
G	1,000,000.00
H	52,275,600.00
	180,769,319.00
	1,807,603.00
Total.	182,577,912.00

add 10%

Contingency  
Fire Station and Ancillary Works



*Ahmed Rahman*  
Ahisur Rahman  
Director

Prime Minister's Office  
Govt. of the People's Republic of Bangladesh

স্বাক্ষরিত  
মন্ত্রণালয়  
সচিবালয়  
স্বাক্ষরিত (স্বাক্ষরিত ও স্বাক্ষরিত)

078

*Ahmed Rahman*  
স্বাক্ষরিত  
স্বাক্ষরিত (স্বাক্ষরিত)  
স্বাক্ষরিত (স্বাক্ষরিত)  
স্বাক্ষরিত (স্বাক্ষরিত)

Construction of Kitchen and Dining Hall.

Foundation Cost

Sl.no	Item Description	Qnt.	Unit	Unit rate in BDT.	Total amount in BDT.	Remarks	
1	Soil Investigation	5	Nos	26675	133,375.00	PWD S/R	
2	Pile Foundation	120	Sq.m	15347	1,985,640.00		
3	Add 2 % cost on Foundation for high wind/earth quake.			02X1985640.00	39,712.00		
					<b>A</b>	<b>2,158,727.00</b>	

Upper Structure Cost

Sl.no	Item Description	Qnt.	Unit	Unit rate in BDT.	Total amount in BDT.	Remarks	
1	Ground Floor.	120	Sq.m	21007	2,520,840.00		
1a	Add Extra for member Weirhage.	120	Sq.m	855	102,600.00		
					<b>B</b>	<b>2,623,440.00</b>	

Sub Total C

4,782,167.00

Add 15% for Internal Sanitary and water Supply

717325

Add 15% for Internal Electricifications

717325

6,216,817.00

Kitchen and dining.

Add 10% Contingency.

62168

Total

6,278,985.00

Construction of 5 Storey Staff Quarter.

1800 sq/Ft. Plinth Area 4003 Sft (371 sqm)

Sl.no	Item Description	Qnt.	Unit	Unit rate in BDT.	Total amount in BDT.	Remarks	
1	Soil Investigation	5	Nos	26675	133,375.00	PWD S/R	
2	Pile Foundation	372	Sq.m	16547	6,155,484.00		
3	Add 2 % cost on Foundation for high wind/earth quake.			02X6155484.00	123,110.00		
					<b>A</b>	<b>6,411,969.00</b>	

Super Structure Cost:

Sl.no	Item Description	Qnt.	Unit	Unit rate in BDT.	Total amount in BDT.	Remarks	
1	Ground Floor.	372	Sq.m	21007	7,814,604.00		
1a	Add Extra for member Weirhage.	372	Sq.m	855	318,060.00		
2	1 <sup>st</sup> Floor	372	Sq.m	19034	7,115,448.00		
2a	Add Extra for member Weirhage.	372	Sq.m	641	238,452.00		
3	Mezzanine (2 <sup>nd</sup> Floor)	372	Sq.m	20333	7,526,676.00		
3a	Add Extra for member Weirhage.	372	Sq.m	428	159,216.00		
4	3 <sup>rd</sup> Floor	372	Sq.m	20336	7,639,192.00		
4a	Add Extra for member Weirhage.	372	Sq.m	214	79,608.00		
5	4 <sup>th</sup> Floor	372	Sq.m	20844	7,753,968.00		
					<b>B</b>	<b>38,945,424.00</b>	



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079

**Anisur Rahman**  
Director

Prime Minister's Office  
Govt. of the Peoples Republic of Bangladesh

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স্বাক্ষরিত ও সত্যায়িত  
স্বাক্ষরিত  
স্বাক্ষরিত (স্বাক্ষর করা ও সত্যায়িত)

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স্বাক্ষরিত ও সত্যায়িত  
স্বাক্ষরিত  
স্বাক্ষরিত (স্বাক্ষর করা ও সত্যায়িত)

Additional Super Structure Cost:

Sl.no	Item Description	Qnt.	Unit	Unit rate in BDT.	Total amount in BDT.
1	Add 2% Cost for Wind/Earthquake	38,945,424.00	2%	0.02	778,908.48
2	Extra Cost for Roof Top and Chikatotha	372	Sq.m	2619	974,268.00
3	Extra Cost for Roof Top RCC parapet.	90X1.5=135	Sq.m	2776	374,760.00
4	Extra Cost for Roof Top RCC water Tank	2000	gal	155	310,000.00
5	Line Terrace on roof water Tank	372	Sq.m	13267	4,935,324.00
<b>C</b>					<b>7,373,260.48</b>

Other Building Works:

Sl.no	Item Description	Qnt.	Unit	Unit rate in BDT.	Total amount in BDT.
1	Internal Sanitary & Water Supply.	1860	Sq.m	1519	2,825,340.00
2	Internal Electrification	1860	Sq.m	1299	2,416,140.00
3	External Sanitary	L.S			509,000.00
4	Construction of under ground Reservoir.	6000	gal	92	552,000.00
<b>D</b>					<b>6,293,480.00</b>

- A 6,411,969.00
- B 38,945,424.00
- C 7,373,260.48
- D 6,293,480.00

59,024,133.48

10%

Contingency:

590,241.33

Total

59,614,374.81

Staff Quarter

*Dr. M. A. Hossain*  
 Director  
 Staff Quarter

*Dr. M. A. Hossain*

*Dr. V. G. Hitemath*

Dr. V.G. Hitemath  
 Team Leader  
 BAVVE - BETS JV  
 IAS FOR DAs of Infrastructure Works at Mheera IZ  
 Bangladesh Economic Zone Authority

Testing and related Service: 248,470,371.81  
 1529628.19  
 Grand Total (BDT) 250,000,000.00

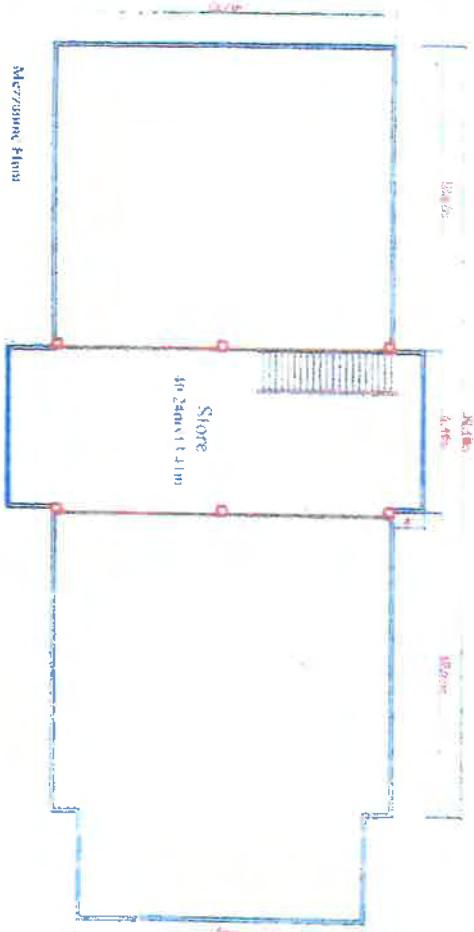
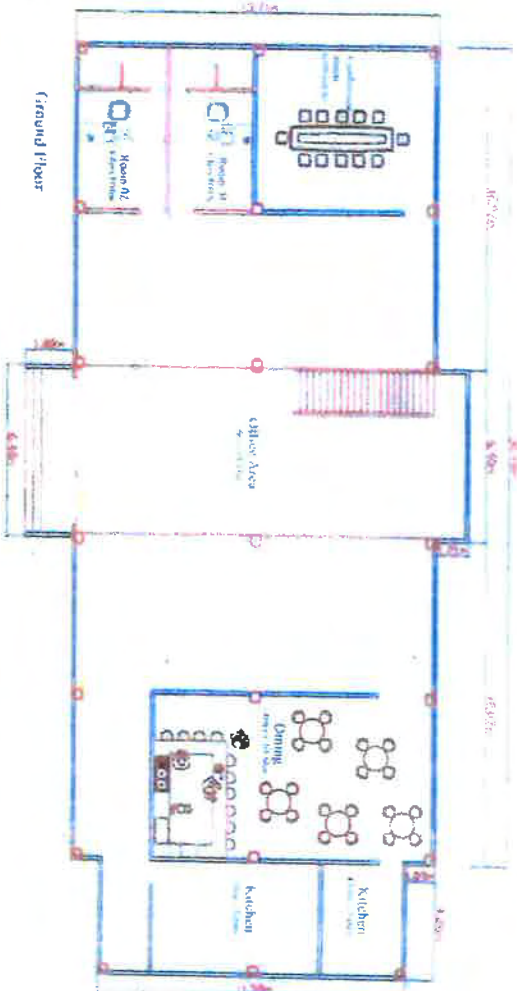
*Anisur Rahman*  
 Anisur Rahman  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

*Dr. V. G. Hitemath*  
 Dr. V.G. Hitemath  
 Team Leader  
 BAVVE - BETS JV  
 IAS FOR DAs of Infrastructure Works at Mheera IZ  
 Bangladesh Economic Zone Authority

080



EMERGENCY RESPONSE CENTRE



**Ahissur Rahman**  
Director

Prime Minister's Office  
Govt. of the People's Republic of Bangladesh

081

**Dr. J. A.**  
প্রোগ্রামিং অফিসার  
কম্পিউটার (সিস্টেম অফ এ মাস্টার)

**Rahman**  
উপ-সচিব (স. ম. অ.)  
স্বাস্থ্য ও পরিবার কল্যাণ  
মন্ত্রিকালয়, বাংলাদেশ সরকার

## PRELIMINARY ESTIMATE

Annexure IV - 6

**Project Name : Construction of Skills Development Center**

**Building Type** Non Residential  
**Building Category** Special (3 Storied)  
**Type of Structure** R. C. C. frame structure with 1, 1.5, 3 concrete (stone chips)  
**Foundation** Cast-in-situ pile foundation  
**Plinth Area** 1025 sqm  
**Ground floor** Habitation  
**Site** Coastal area (Mirsara, Chattogram)

### 1. SOIL INVESTIGATION

Sl. No.	Item Description	Unit	Rate	Quantity	Amount (TK)
1	Soil Investigation (S or Actual cost (BH Nos. as primary, say)	nos	26528.00	12.00	318,336.00
				<b>Sub-Total "A"</b>	<b>318,336.00</b>

### 2. CONSTRUCTION OF BUILDING

#### A. FOUNDATION COST

Sl. No.	Item Description	Unit	Rate	Quantity	Amount (TK)
1	Foundation cost up to Plinth level from PLAR Table 1 (for Cast-in-situ Pile upto 30m)	Sqm	42172.80	1025.00	43,227,120.00
				<b>Sub-Total</b>	<b>43,227,120.00</b>
2	Add cost for saline zone (1%)				432,271.20
3	Add cost for high risk coastal area (3%)				1,296,813.60
				<b>Sub-Total "B1"</b>	<b>44,956,204.80</b>

#### B. SUPER STRUCTURE COST

Sl. No.	Item Description	Unit	Rate	Quantity	Amount (TK)
1	Ground floor (from PLAR Table-2)	Sqm	27275.00	1025.00	27,956,875.00
2	Add extra cost for member weightage (M/W 1) (from PLAR Table-3)	Sqm	471.00	1025.00	482,775.00
3	1st floor (from PLAR Table-2)	Sqm	25882.00	1025.00	26,529,050.00
4	Add extra cost for (M/W (from PLAR Table-3)	Sqm	235.00	1025.00	240,875.00
5	2nd floor (from PLAR Table-2)	Sqm	26270.00	1025.00	26,926,750.00
				<b>Sub-Total "B2"</b>	<b>82,136,325.00</b>

#### C. ADDITIONAL SUPER STRUCTURE COST

Sl. No.	Item Description	Unit	Rate	Quantity	Amount (TK)
1	Add extra super structure cost 2% for wind (other than coastal area) & earth quake load resisting structure.)				1,642,726.50
2	Extra cost for Rooflop & LC (from PLAR Table-2)	Sqm	2688.00	1025.00	2,755,200.00



**Atiqur Rahman**  
Director

Prime Minister's Office  
Govt. of the People's Republic of Bangladesh

08/2

প্রকল্প পরিচালক (সি.এস.সি.)  
 সরকার (সি.এস.সি. ও সরকার)  
 বাংলাদেশ সরকার (সি.এস.সি.)  
 প্রকল্প পরিচালক (সি.এস.সি.)  
 প্রকল্প পরিচালক (সি.এস.সি.)  
 প্রকল্প পরিচালক (সি.এস.সি.)

3	Extra cost for Roof top R.C.C water tank (From additional cost chart item 5)	Gallon	155.00	2000.00	310,000.00
Sub-Total "B"=(B1+B2+B3)					310,000.00
Sub-Total "B"=(B1+B2+B3)					127,402,529.80

**D. OTHER BUILDING COST**

Sl. No.	Item Description	Unit	Rate	Quantity	Amount (TK)
1	Internal Sanitary & Water Supply (From additional cost chart, item 6)	Sqm	1700.00	3075.00	5,227,500.00
2	Internal Electrification (From additional cost chart, item 7)	Sqm	1750.00	3075.00	5,381,250.00
3	Extra cost for Roof top R.C.C Parapet (From additional cost chart item 4)	Sqm	2776.00	132.00	366,432.00
4	Construction of underground reservoir (From additional cost chart, item 8-a)	Sqm	92.00	10000.00	920,000.00
Sub-Total "C"					11,895,182.00

**E. BOUNDARY WALL**

Sl. No.	Item Description	Unit	Rate	Quantity	Amount (TK)
1	Boundary wall in RCC Frame, 1.80 m in height, level difference between FGL and EGL up to 0.45m: Construction of RCC (fc=22 MPa, minimum kg=27 MPa in nominal mix ratio of 1:2:4 with stone chips) frame boundary wall of height 1.8m above FGL and foundation depth 1.5m from EGL, having column size 230mm x 220mm @ 10' c/c, 250 mm X 250 mm size grade beam at FGL, 75mm thick brick work with mortar (1:4) in between columns, 17mm plaster (1.6) on brick surface and 6mm plaster (1:4) on RCC and providing standard acrylic emulsion paint at exterior surface etc.	m	11523.00	164.32	1,893,459.36
Sub-Total "D"					1,893,459.36
Sub-Total "E"=(A+B+C+D)					141,509,507.16

**F. OTHER ADDITIONAL REQUIREMENT**

Sl. No.	Item Description	Sub-Total Amount	%	Amount (TK)
1	Quality Assurance Material Sample Collection & Testing (1% of E1)	141509507.16	0.01	1,415,095.07
2	Contingency (5% of E1 or Actual need)	141509507.16	0.05	7,075,475.36
Sub-Total "F"				8,490,570.43

**G. LAND COST**

Sl. No.	Item Description	Amount (TK)
1	Cost of Land	



083  
Anisur Rahman  
Director

Prime Minister's Office  
Govt. of the Peoples Republic of Bangladesh

স্বাক্ষর (সহ-সচিব ও প্রকল্প)  
স্বাক্ষর  
স্বাক্ষর

083

Director

Prime Minister's Office  
Govt. of the Peoples Republic of Bangladesh

স্বাক্ষর  
স্বাক্ষর

স্বাক্ষর  
স্বাক্ষর

	Sub-Total "G"	*
	Grand Total "H"=(E+F+G)	150,000,077.59
Say		150,000,000.00

*Signature*

Dr. V.G. Hiramath  
Team Leader  
aaryee - BETS JV  
IAS FOR O&S of Infrastructure Works at Mersal EZ  
Bangladesh Economic Zone Authority

স্বাক্ষরিত (স্বাক্ষর করা হয়েছে)  
স্বাক্ষরিত  
স্বাক্ষরিত

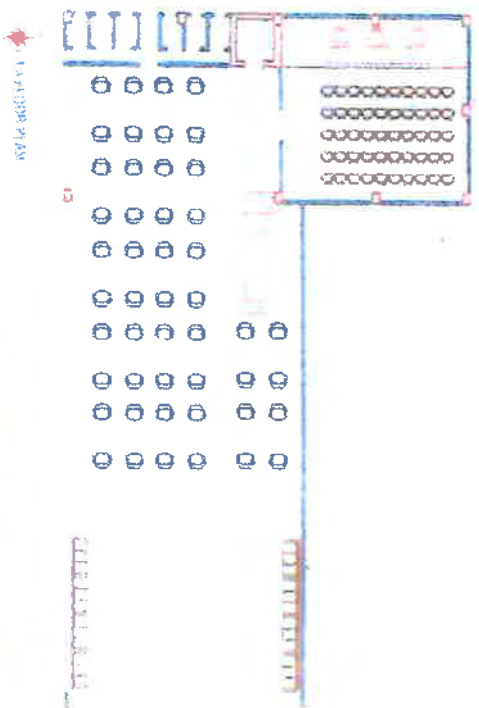
*Signature*  
Anisur Rahman  
Director  
Prime Minister's Office  
Govt of the People's Republic of Bangladesh

*Signature*  
স্বাক্ষরিত  
স্বাক্ষরিত  
স্বাক্ষরিত  
স্বাক্ষরিত





SKILL DEVELOPMENT CENTER



Ministry of Education, Government of Bangladesh  
 Director General of Technical Education  
 Dhaka-1000

*Anisur Rahman*  
 Director General of Technical Education  
 Ministry of Education, Government of Bangladesh  
 Dhaka-1000

*Anisur Rahman*  
 Director General of Technical Education  
 Ministry of Education, Government of Bangladesh  
 Dhaka-1000

085

*Anisur Rahman*  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

## PRELIMINARY ESTIMATE

**Project Name : Construction of Child Care & Emergency Health Care Center**

Building type: Non Residential  
 Building Category: Special (3 Storied)  
 Type of structure: R. C. C. frame structure with 1:1.5:3 concrete (stone chips)  
 Foundation: Cast-in-situ Pile Foundation  
 Plinth Area: 1025 sqm  
 Ground floor: Habitation  
 Site: Coastal area (Mirsarai, Chattergram)

### 1. SOIL INVESTIGATION

Sl. No.	Item Description	Unit	Rate	Quantity	Amount (TK)
1	Soil investigation (S or Actual cost (BH nos. as primary, say)	nos	26528.00	12.00	318,336.00
Sub-Total "A"					318,336.00

### 2. CONSTRUCTION OF BUILDINGS

#### A. FOUNDATION COST

Sl. No.	Item Description	Unit	Rate	Quantity	Amount (TK)
1	Foundation cost up to Plinth level from PLAR Table-1 (for Cast-in-situ Pile upto 30m)	Sqm	42172.80	1025.00	43,227,120.00
Sub-Total					43,227,120.00
2	Add cost for seismic zone (1%)				432,271.20
3	Add cost for high risk coastal area (3%)				1,296,813.60
Sub-Total "B1"					44,956,204.80

#### B. SUPER STRUCTURE COST

Sl. No.	Item Description	Unit	Rate	Quantity	Amount (TK)
1	Ground floor (from PLAR Table-2)	Sqm	27275.00	1025.00	27,956,875.00
2	Add extra cost for member weightage (MW) (from PLAR Table-3)	Sqm	471.00	1025.00	482,775.00
3	1st floor (from PLAR Table-2)	Sqm	25882.00	1025.00	26,529,050.00
4	Add extra cost for MW (from PLAR Table-3)	Sqm	235.00	1025.00	240,875.00
5	2nd floor (from PLAR Table-2)	Sqm	26270.00	1025.00	26,926,750.00
Sub-Total "B2"					82,136,325.00

#### C. ADDITIONAL SUPER STRUCTURE COST

Sl. No.	Item Description	Unit	Rate	Quantity	Amount (TK)
1	Add extra super structure cost 2% for wind (other than coastal areas) & earth quake load resisting structure.)				1,642,726.50
	Extra cost for Roof-top (R. C. C. water tank (From additional cost) about item-5)	Sqm	2688.00	1025.00	2,755,200.00
	Extra cost for Roof top R. C. C. water tank (From additional cost) about item-5)	Gallon	155.00	2000.00	310,000.00



**Anisur Rahman**  
 Director

Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

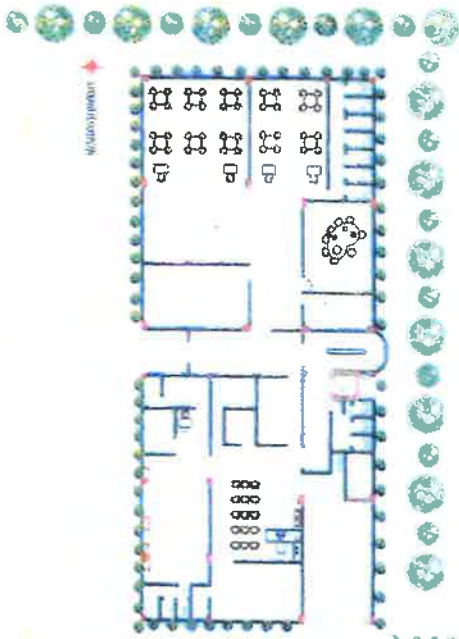
**দয়ানন্দ দেবনাথ**  
 মুগদাচিব  
 ব্যবস্থাপক (এম আই এস ও গবেষণা)

086

**১৯৯৬**  
 প্রকল্প পরিচালক  
 প্রকল্প পরিচালক (প্রকল্প)  
 প্রকল্প পরিচালক (প্রকল্প)  
 প্রকল্প পরিচালক (প্রকল্প)  
 প্রকল্প পরিচালক (প্রকল্প)



# CHILD CARE



*Anisur Rahman*  
**Anisur Rahman**  
Director  
Primer Minister's Office  
Soul of the People's Republic of Bangladesh



স্বাক্ষরিত: ১৫/০৫/২০১৯  
স্বাক্ষর: *[Signature]*  
স্বাক্ষরিত: ১৫/০৫/২০১৯  
স্বাক্ষর: *[Signature]*

০৪৪

স্বাক্ষরিত: ১৫/০৫/২০১৯  
স্বাক্ষর: *[Signature]*  
স্বাক্ষরিত: ১৫/০৫/২০১৯  
স্বাক্ষর: *[Signature]*

০৪৪  
স্বাক্ষরিত: ১৫/০৫/২০১৯  
স্বাক্ষর: *[Signature]*  
স্বাক্ষরিত: ১৫/০৫/২০১৯  
স্বাক্ষর: *[Signature]*

### Road Network in BSMSISN

Summary Cost		Amount (BDT in Lac)
Sl.No.	Name	
1	Road (2 Lane) - 26 Km	8496.79
		10288.13
		7622.19
2	Road (4-Lane) - 4Km	8323.32
3	Bridge (4 Lane) - 01 No.	2641.24
4	Bridge (2 Lane) - 3 Nos. Each BDT 1007.16 Lac x 3	3021.48
5	Culvert (2 Lane) - 01 no.	204.36
Total Amount:		40597.51

Total 40600.00 Lac BDT

*[Signature]*

*[Signature]*  
Dr. VG. Hirenath  
Team Leader

Team Leader  
Banvee -BETS JV  
TAS FOR DAS of Infrastructure Works at Masarati Z  
Bangladesh Economic Zone Authority

*[Signature]*  
বাসীরাহম রহমান  
ডিরেক্টর  
প্রাইম মিনিস্টার'স  
অফিস (এম এম এফ ও সিসি)

*[Signature]*  
Anisur Rahman  
Director  
Prime Minister's Office  
Govt. of the People's Republic of Bangladesh

*[Signature]*  
Anisur Rahman  
Director  
Prime Minister's Office  
Govt. of the People's Republic of Bangladesh



সচিব, প্রাইম মিনিস্টার'স অফিস (এম এম এফ ও সিসি)  
১০১, সচিবালয় (এম এম এফ ও সিসি)  
ঢাকা-১০০

Govt. of the People's Republic of Bangladesh  
 Prime Minister's Office  
 Director  
 Anisur Rahman



**BILL OF QUANTITY (BOQ)**

Name of Work : Construction of Internal Road (2A) for Mirsarai EZ. (9.065KM)  
 Contractor Name : BEZA WD-  
 Package No :  
 Total Contract amount :  
 Date of Agreement :  
 Date of Completion :

Item No	Description of Work	Unit	Total Quantity	Rate (Taka)	Amount in (Tk)
1	[LGED-5.01.01] Providing Layout and carry over Bench Mark (BM) at site from nearby BM pillar, demarcating property lines, existing ground level (EGL), formation ground level (FGL), highest flood level (HFL), plinth level (PL). Setting and marking all pillars, markers.	Sqm	161,357.00	11.65	1,878,809.05
2	[RHD-2/6/02] Earth filling work. (Filling in embankment, ditches, widening at intersection & curves.) Contractors Arranged Land	Cum	42,353.62	397.00	16,814,388.97
3	[RHD-2.7.01] Preparation of subgrade 300mm depth	Sqm	171,014.58	24.00	4,104,349.92
4	[RHD-2/8/01] Improved Subgrade (Sand F.M >0.80)	Cum	35,259.32	1,099.00	38,749,997.08
5	[RHD-03/02/01 (a)] Sub-Base (Sand F.M >1.0 and Brick Khoo <40 mm)	Cum	28,023.02	5,174.00	144,991,105.48
6	(RHD_03/03/02a) Aggregate base type-II	Cum	26,889.90	5,662.00	152,250,585.49
7	(RHD-03/03/01a) Aggregate base type-I	Cum	22,146.47	8,273.00	183,217,713.22
8	[RHD-03/06/1a] Bituminous Prime Coat (Plant Placed)	Sqm	100,760.83	113.00	11,385,973.79
9	[RHD-03/07/1a] Bituminous Tack Coat (Plant Work)	Sqm	75,832.08	50.00	3,791,604.00
10	[RHD-03/10/1 (b)] 80 mm Dense Bituminous Surfacing-Base Course (Plant Method) Bitumen	Cum	6,066.57	22,133.00	134,271,314.13
11	[RHD_03/10/02 (b)] 40 mm Dense bituminous surfacing wearing course (Plan method)	Cum	4,030.43	23,295.00	93,888,941.39
12	[RHD-3/13/01 (a)] 125 mm Thick Brick on End Edging (1st Class)	Lin. M	18,130.00	189.00	3,426,570.00
13	[RHD-6/15/01] Concrete Guide post at different chainage (1.60 m long, 200 mm dia)	No.	1,803.00	2,322.00	4,186,566.00
14	[RHD-6/5/01] Road Marking (Thermoplastic Material (indicate if screed or by spray)	Sqm	4,169.25	1,114.00	4,644,544.50
15	[RHD-6/7/02] Creating turf on the side slopes and top of embankment with good quality turf	Sqm	74,933.00	42.00	3,121,986.00
16	(RHD-06/10/01) Traffic Signs	Number	36.00	5,651.00	203,436.00
17	(RHD-06/10/02) Sign Post	Number	36.00	3,140.00	113,040.00
18	Street Lighting	Ls	1.00	47,138,000.00	47,138,000.00
19	Implementation of Environmental Management Plan including construction of site office	Ls	1.00	1,500,000.00	1,500,000.00
<b>Total in Tk.</b>					<b>849,679,925.02</b>

Cost Per KM : 93,731,927.75

*(Signature)*  
 Dr. V.G. Haremath  
 Team Leader  
 arvee-BETS JV  
 IAS FOR D&S of Infrastructure Works at Mirsarai EZ  
 Bangladesh Economic Zone Authority

দয়ানন্দ দেবনাথ  
 মুগাসচিব  
 ব্যবস্থাপক (এম আই এস ও গবেষণা)

090

*(Signature)*  
 মন্ত্রণালয়ের সিনিয়র সচিব  
 উপ-প্রধান (সি: দাঃ)  
 বিদ্যুৎ ও শক্তি বিভাগ  
 পরিকল্পনা কমিশন, পরিকল্পনা মন্ত্রণালয়

**Part-A : Construction of Internal Road (2A) for Mirsarai EZ**

18,130.00

Sl No.	Description of Work	Unit	Area m2	No.	Length m	Width/Dia. m	Height m	Area/ Volume m2/m3	Quantity	Remarks	
1	[LGED-5.01.01] Providing Layout and carry over Bench Mark (BM) at site from nearby BM pillar, demarcating property lines, existing ground level (EGL), formation ground level (FGL), highest flood level (HFL), plinth level (PL). Setting and marking all pillars, markers.	Sqm	2A01 - 2066 m		2,066.00	17.80		36,774.80			
			2A02 - 1613 m		1,613.00	17.80		28,711.40			
			2A03 - 785 m		785.00	17.80		13,973.00			
			2A04 - 2765 m		2,765.00	17.80		49,217.00			
			2A05 - 320 m		320.00	17.80		5,696.00			
			2A06 - 641 m		641.00	17.80		11,409.80			
			2A07 - 540 m		540.00	17.80		9,612.00			
			2A08 - 160 m		160.00	17.80		2,848.00			
			2A09 - 175 m		175.00	17.80		3,115.00			
							9,065.00				161,357.00
2	[RHD-2/5/02] Earth filling work. (Filling in embankment, ditches, widening at intersection & curves.) Contractors Arranged Land.	Road	15.57		9,065.00			141,142.05			
		Intersection area	9,657.58				1,120	10,816.49			
							(109,604.92)	42,353.62			
3	[RHD-2.7.01] Preparation of subgrade 300mm depth	Sqm	2A01 - 2066 m		2,066.00	17.80		36,774.80			
			2A02 - 1613 m		1,613.00	17.80		28,711.40			
			2A03 - 785 m		785.00	17.80		13,973.00			
			2A04 - 2765 m		2,765.00	17.80		49,217.00			
			2A05 - 320 m		320.00	17.80		5,696.00			
			2A06 - 641 m		641.00	17.80		11,409.80			
			2A07 - 540 m		540.00	17.80		9,612.00			
			2A08 - 160 m		160.00	17.80		2,848.00			
			2A09 - 175 m		175.00	17.80		3,115.00			
			Intersection area								
			2A01 & 2A02	1,669.20					1,669.20		
			2A01 & 2A03	1,167.24					1,167.24		
			2A02 & 2A04	1,172.75					1,172.75		
			2A03 & 2A04	1,225.43					1,225.43		
			2A04 & 2A06	912.46					912.46		
			2A07 & 2A08	441.71					441.71		
			2A07 & 2A09	1,337.82					1,337.82		
2A07 & 2A05	562.24					562.24					
2A01 & 2A07	1,168.73					1,168.73		171,014.58			

প্রকল্প পরিচালক (প.প.অ.)  
 বাংলাদেশ সরকার (প.প.অ.)  
 প্রকল্প পরিচালক (প.প.অ.)  
 বাংলাদেশ সরকার (প.প.অ.)

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Anisur Rahman  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh



সিনিয়র প্রকল্প পরিচালক  
 মন্ত্রণালয়  
 বাংলাদেশ (এম ও গভঃ দপ্তর)

R

Govt. of Bangladesh  
Prime Minister's Office  
Director

Anisur Rahman  
Director



Estimate for Construction of Internal Road for Mirsarai-2A E2		Unit	Area	No.	Length	Width/Dia.	Height	Area/ Volume	Quantity	Remarks
Description of Work			m <sup>2</sup>		m	m	m	m <sup>2</sup> /m <sup>3</sup>		
[RHD-2/8/01] Improved Subgrade (Sand F.M > 0.80)	2A01 - 2066 m				2,066.00	11.90	0.300	7,375.62		
	2A02 - 1613 m				1,613.00	11.90	0.300	5,759.41		
	2A03 - 785 m				785.00	11.90	0.300	2,802.45		
	2A04 - 2768 m				2,765.00	11.90	0.300	9,871.05		
	2A05 - 320 m				320.00	11.90	0.300	1,142.40		
	2A06 - 641 m				641.00	11.90	0.300	2,289.37		
	2A07 - 540 m				540.00	11.90	0.300	1,927.60		
	2A08 - 160 m				160.00	11.90	0.300	571.20		
	2A09 - 175 m				175.00	11.90	0.300	624.75		
	Intersection area:	Cum								
2A01 & 2A02		1,669.20				0.300	500.78			
2A01 & 2A03		1,167.24				0.300	350.17			
2A02 & 2A04		1,172.75				0.300	351.83			
2A03 & 2A04		1,225.43				0.300	367.63			
2A04 & 2A06		912.46				0.300	273.74			
2A07 & 2A08		441.71				0.300	132.51			
2A07 & 2A09		1,337.82				0.300	401.35			
2A07 & 2A05		562.24				0.300	168.67			
2A01 & 2A07		1,168.73				0.300	350.62	35,259.32		

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দয়ানন্দ দেবনাথ  
স্বাক্ষরিত  
ব্যবস্থাপক (এম.আই.এস ও গবেষণা)

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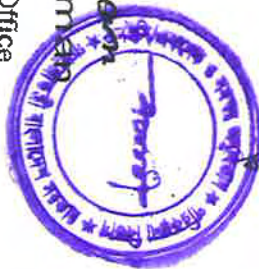
৭৭৪৪৬  
মোঃ মোস্তাফিজ মোহাম্মদ  
উপ-প্রধান (সি.সি.)  
শিল্প ও শক্তি বিভাগ  
পরিকল্পনা কমিশন, পরিকল্পনা মন্ত্রণালয়



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Govt. of the Peoples Republic of Bangladesh  
Prime Minister's Office  
Director

Anisur Rahman



*Anisur*  
দায়ানন্দ দেবনাথ  
যুগ্মসচিব  
স্বাস্থ্য (এম আই এন ও গবেষণা)

*R*

*১২/০৩/০৩*  
মোঃ গোলাম মোহাম্মদ  
উপ-প্রকল্প (সি: দাঃ)  
বিদ্যুৎ ও শক্তি বিভাগ  
কম্পিউটার কন্ট্রোল, পরিচালনা মহাপলয়

Estimate for Construction of Internal Road for Mirsarai-2A EZ											
Sl No.	Description of Work	Unit	Area m2	No.	Length m	Width/Dia. m	Height m	Area/ Volume m2/m3	Quantity	Remarks	
5	[RHD-03/02/01 (a)] Sub-Base (Sand F.M > 1.0 and Brick Khoo < 40 mm)	2A01 - 2066 m			2,066.00	11.30	0.250	5,836.45			
		2A02 - 1613 m			1,613.00	11.30	0.250	4,556.73			
		2A03 - 785 m			785.00	11.30	0.250	2,217.63			
		2A04 - 2765 m			2,765.00	11.30	0.250	7,811.13			
		2A05 - 320 m			320.00	11.30	0.250	904.00			
		2A06 - 641 m			641.00	11.30	0.250	1,810.83			
		2A07 - 540 m			540.00	11.30	0.250	1,525.50			
		2A08 - 160 m			160.00	11.30	0.250	452.00			
		2A09 - 175 m			175.00	11.30	0.250	494.38			
		Intersection area	Cum								
		2A01 & 2A02		1,669.20				0.250	417.30		
		2A01 & 2A03		1,167.24				0.250	291.81		
		2A02 & 2A04		1,172.75				0.250	293.19		
		2A03 & 2A04		1,225.43				0.250	306.36		
		2A04 & 2A06		912.46				0.250	228.12		
		2A07 & 2A08		441.71				0.250	110.43		
		2A07 & 2A09		1,337.62				0.250	334.48		
		2A07 & 2A05		582.24				0.250	140.56		
		2A01 & 2A07		1,168.73				0.250	292.18	<b>28,023.02</b>	
		6	[RHD_03/03/02a) Aggregate base type-II	2A01 - 2066 m			2,066.00	10.80	0.250	5,578.20	
2A02 - 1613 m					1,613.00	10.80	0.250	4,355.10			
2A03 - 785 m					785.00	10.80	0.250	2,119.50			
2A04 - 2765 m					2,765.00	10.80	0.250	7,465.50			
2A05 - 320 m					320.00	10.80	0.250	864.00			
2A06 - 641 m					641.00	10.80	0.250	1,730.70			
2A07 - 540 m					540.00	10.80	0.250	1,458.00			
2A08 - 160 m					160.00	10.80	0.250	432.00			
2A09 - 175 m					175.00	10.80	0.250	472.50			
Intersection area	Cum										
2A01 & 2A02				1,669.20				0.250	417.30		
2A01 & 2A03				1,167.24				0.250	291.81		
2A02 & 2A04				1,172.75				0.250	293.19		
2A03 & 2A04				1,225.43				0.250	306.36		
2A04 & 2A06		912.46				0.250	228.12				

Prime Minister's Office  
Govt. of the People's Republic of Bangladesh

Director  
Anisur Rahman



Estimate for Construction of Internal Road for Mirsarai-2A EZ		Unit	Area	No.	Length	Width/Dia.	Height	Area/ Volume	Quantity	Remarks
Sl No.	Description of Work		m <sup>2</sup>		m	m	m	m <sup>2</sup> /m <sup>3</sup>		
	2A07 & 2A08		441.71				0.250	110.43		
	2A07 & 2A09		1,337.82				0.250	334.46		
	2A07 & 2A05		562.24				0.250	140.56		
	2A01 & 2A07		1,168.73				0.250	292.18	26,889.90	
7	(RHD-03/03/01a) Aggregate base type-1									
	2A01 - 2066 m				2,066.00	10.05	0.200	4,152.66		
	2A02 - 1613 m				1,613.00	10.05	0.200	3,242.13		
	2A03 - 785 m				785.00	10.05	0.200	1,577.85		
	2A04 - 2765 m				2,765.00	10.05	0.200	5,557.65		
	2A05 - 320 m				320.00	10.05	0.200	643.20		
	2A06 - 641 m				641.00	10.05	0.200	1,288.41		
	2A07 - 540 m				540.00	10.05	0.200	1,085.40		
	2A08 - 160 m				160.00	10.05	0.200	321.60		
	2A09 - 175 m				175.00	10.05	0.200	351.75		
	Hard Shoulder									
	2A01 - 2066 m	2.00	2,066.00	1.38	0.080	454.52				
	2A02 - 1613 m	2.00	1,613.00	1.38	0.080	354.88				
	2A03 - 785 m	2.00	785.00	1.38	0.080	172.70				
	2A04 - 2765 m	2.00	2,765.00	1.38	0.080	608.30				
	2A05 - 320 m	2.00	320.00	1.38	0.080	70.40				
	2A06 - 641 m	2.00	641.00	1.38	0.080	141.02				
	2A07 - 540 m	2.00	540.00	1.38	0.080	118.80				
	2A08 - 160 m	2.00	160.00	1.38	0.080	35.20				
	2A09 - 175 m	2.00	175.00	1.38	0.080	38.50				
	Cum									
	Intersection area									
	2A01 & 2A02		1,669.20				0.200	333.84		
	2A01 & 2A03		1,187.24				0.200	233.45		
	2A02 & 2A04		1,172.75				0.200	234.55		
	2A03 & 2A04		1,225.43				0.200	245.09		
	2A04 & 2A06		612.46				0.200	182.49		
	2A07 & 2A08		441.71				0.200	88.34		
	2A07 & 2A09		1,337.82				0.200	267.56		
	2A07 & 2A05		562.24				0.200	112.45		
	2A01 & 2A07		1,168.73				0.200	233.75	22,146.47	

09/4

দায়ানন্দ দেবনাথ  
সুপারভাইসিভ  
বনহাঙ্গক (এম জিই রাস ও গবেষণা)

*[Handwritten signature]*

মোঃ গোলাম মোহাম্মদ  
উপ-প্রধান (স: দাঃ)  
শিল্প ও দাতি বিভাগ  
পল্লিকরনা কনিষ্টান, পল্লিকরনা মন্ত্রণালয়

Estimate for Construction of Internal Road for Mirsarai-2A EZ											
Sl No.	Description of Work	Unit	Area m2	No.	Length m	Width/Dia. m	Height m	Area/ Volume m2/m3	Quantity	Remarks	
8	[RHD-03/06/1a] Bituminous Prime Coat (Plant Placed)	2A01 -2066 m			2,066.00	10.05		20,763.30			
		2A02 -1613 m			1,613.00	10.05		16,210.65			
		2A03 -785 m			785.00	10.05		7,885.25			
		2A04 -2765 m			2,765.00	10.05		27,788.25			
		2A05 - 320 m			320.00	10.05		3,216.00			
		2A06 - 641 m			641.00	10.05		6,442.05			
		2A07 - 540 m			540.00	10.05		5,427.00			
		2A08 - 160 m			160.00	10.05		1,608.00			
		2A09 - 175 m			175.00	10.05		1,756.75			
		Intersection area	Sqm								
		2A01 & 2A02		1,669.20					1,669.20		
		2A01 & 2A03		1,167.24					1,167.24		
		2A02 & 2A04		1,172.75					1,172.75		
		2A03 & 2A04		1,225.43					1,225.43		
		2A04 & 2A06		912.46					912.46		
		2A07 & 2A08		441.71					441.71		
		2A07 & 2A09		1,337.82					1,337.82		
		2A07 & 2A05		562.24					562.24		
		2A01 & 2A07		1,168.73					1,168.73	100,760.83	
		9	[RHD-03/07/1a] Bituminous Tack Coat (Plant Work)	2A01 -2066 m			2,066.00	7.30		15,081.80	
2A02 -1613 m					1,613.00	7.30		11,774.80			
2A03 -785 m					785.00	7.30		5,730.50			
2A04 -2765 m					2,765.00	7.30		20,184.50			
2A05 - 320 m					320.00	7.30		2,336.00			
2A06 - 641 m					641.00	7.30		4,679.30			
2A07 - 540 m					540.00	7.30		3,942.00			
2A08 - 160 m					160.00	7.30		1,168.00			
2A09 - 175 m					175.00	7.30		1,277.50			
Intersection area	Sqm										
2A01 & 2A02				1,669.20					1,669.20		
2A01 & 2A03				1,167.24					1,167.24		
2A02 & 2A04				1,172.75					1,172.75		
2A03 & 2A04				1,225.43					1,225.43		
2A04 & 2A06				912.46					912.46		
2A07 & 2A08				441.71					441.71		
2A07 & 2A09				1,337.82					1,337.82		
2A07 & 2A05				562.24					562.24		
2A01 & 2A07				1,168.73					1,168.73	75,832.08	

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Anisur Rahman  
Director  
Prime Minister's Office  
Govt. of the People's Republic of Bangladesh



দেওয়ান দফতর  
সুগন্ধি  
স্বাক্ষরক (এম.আই. এস ও গবেষণা)

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স্বাক্ষর  
স্বাক্ষরক  
স্বাক্ষরক (স: স:)  
স্বাক্ষরক (স: স:)  
স্বাক্ষরক (স: স:)

Govt. of the People's Republic of Bangladesh  
 Prime Minister's Office  
 Director  
 Anisur Rahman



দায়িত্ব দেবনাথ  
 যুগ্মসচিব  
 যুবস্বাসক (এম ডাই এল ও পাবনা)

096

Estimate for Construction of internal Road for Mirsarai-2A EZ		Unit	Area	No.	Length	Width/Dia.	Height	Area/ Volume	Quantity	Remarks	
Sl No.	Description of Work		m <sup>2</sup>		m	m	m	m <sup>2</sup> /m <sup>3</sup>			
10	[RHD-03/10/1 (b)] 80 mm Dense Bituminous Surfacing-Base Course (Plan Method) Bitumen Grade 60/70 (Coarse Sand F.M >2.5, Crushed boulder/gravel aggregate <25 mm etc.	2A01 -2066 m			2,066.00	7.30	0.080	1,206.54			
		2A02 -1613 m			1,613.00	7.30	0.080	941.99			
		2A03 -785 m			785.00	7.30	0.080	458.44			
		2A04 -2765 m			2,765.00	7.30	0.080	1,614.76			
		2A05 - 320 m			320.00	7.30	0.080	186.68			
		2A06 - 641 m			641.00	7.30	0.080	374.34			
		2A07 - 540 m			540.00	7.30	0.080	315.36			
		2A08 - 160 m			160.00	7.30	0.080	93.44			
		2A09 - 175 m			175.00	7.30	0.080	102.20			
		Intersection area	Cum					0.080	132.54		
		2A01 & 2A02		1,669.20				0.080	93.38		
		2A01 & 2A03		1,187.24				0.080	93.82		
		2A02 & 2A04		1,172.75				0.080	98.03		
		2A03 & 2A04		1,225.43				0.080	73.00		
		2A04 & 2A06		912.46				0.080	35.34		
		2A07 & 2A08		441.71				0.080	107.03		
		2A07 & 2A09		1,337.82				0.080	44.98		
		2A07 & 2A05		562.24				0.080	93.50	6,066.57	
		2A01 & 2A07		1,158.73				0.080			
		11	[RHD_03/10/02 (b)] 40 mm Dense bituminous surfacing wearing course (Plan method) Bitumen Grade 60/70	2A01 -2066 m			2,066.00	10.05	0.040	830.53	
2A02 -1613 m					1,613.00	10.05	0.040	648.43			
2A03 -785 m					785.00	10.05	0.040	315.57			
2A04 -2765 m					2,765.00	10.05	0.040	1,111.53			
2A05 - 320 m					320.00	10.05	0.040	128.64			
2A06 - 641 m					641.00	10.05	0.040	257.69			
2A07 - 540 m					540.00	10.05	0.040	217.08			
2A08 - 160 m					160.00	10.05	0.040	64.32			
2A09 - 175 m					175.00	10.05	0.040	70.35			
Intersection area	Cum							0.040	66.77		
2A01 & 2A02				1,669.20				0.040	46.69		
2A01 & 2A03				1,167.24				0.040	46.91		
2A02 & 2A04				1,172.75				0.040	49.02		
2A03 & 2A04				1,225.43				0.040	38.50		
2A04 & 2A06		912.46				0.040					

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 মোঃ মোস্তাফিজ মোস্তাফিজ  
 উপ-প্রধান (স: দাঃ)  
 শিল্প ও শক্তি বিভাগ  
 পরিকল্পনা কমিশন, পরিকল্পনা মহাপর্ষদ

Estimate for Construction of Internal Road for Mirsarai-2A EZ										
SI No.	Description of Work	Unit	Area	No.	Length	Width/Dia.	Height	Area/ Volume	Quantity	Remarks
			m <sup>2</sup>		m	m	m	m <sup>2</sup> /m <sup>3</sup>		
		2A07 & 2A08	441.71				0.040	17.67		
		2A07 & 2A09	1,337.82				0.040	53.51		
		2A07 & 2A05	562.24				0.040	22.49		
		2A01 & 2A07	1,169.73				0.040	46.75	4,030.43	
12	[RHD-3/13/01 (a)] 125 mm Thick Brick on End Edging (1st Class)	2A01 - 2066 m		2.00	2,066.00			4,132.00		
		2A02 - 1613 m		2.00	1,613.00			3,226.00		
		2A03 - 785 m		2.00	785.00			1,570.00		
		2A04 - 2765 m		2.00	2,765.00			5,530.00		
		2A05 - 320 m		2.00	320.00			640.00		
		2A06 - 641 m		2.00	641.00			1,282.00		
		2A07 - 540 m		2.00	540.00			1,080.00		
		2A08 - 160 m		2.00	160.00			320.00		
		2A09 - 175 m		2.00	175.00			350.00		
		Intersection area						-		
									18,130.00	
13	[RHD-6/15/01] Concrete Guide post at different chainage (1.60 m long, 200 mm dia)	Intersection area								
		2A01 & 2A02		4.00	100.00			400.00		
		2A01 & 2A03		2.00	100.00			200.00		
		2A02 & 2A04		2.00	100.00			200.00		
		2A03 & 2A04		2.00	100.00			200.00		
		2A04 & 2A06		2.00	100.00			200.00		
		2A07 & 2A08		2.00	40.00			80.00		
		2A07 & 2A09		3.00	40.00			120.00		
		2A07 & 2A05		1.00	83.00			83.00		
		2A01 & 2A07		2.00	80.00			160.00		
		Curve		3.00	60.00			180.00	1,803.00	
14	[RHD-6/5/01] Road Marking (Thermoplastic Material (indicate if screed or by spray))	2A01 - 2066 m		3.00	2,066.00	0.150		929.70		
		2A02 - 1613 m		3.00	1,613.00	0.150		725.85		
		2A03 - 785 m		3.00	785.00	0.150		353.25		
		2A04 - 2765 m		3.00	2,765.00	0.150		1,244.25		
		2A05 - 320 m		3.00	320.00	0.150		144.00		
		2A06 - 641 m		3.00	641.00	0.150		288.45		
		2A07 - 540 m		3.00	540.00	0.150		243.00		
		2A08 - 160 m		3.00	160.00	0.150		72.00		
		2A09 - 175 m		3.00	175.00	0.150		78.75		
		Intersection area		3.00	200.00	0.150		90.00	4,169.25	

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Anisur Rahman  
 Director  
 Prime Minister's Office  
 Govt. of the Peoples Republic of Bangladesh



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 সিনিয়র সিস্টেম এনালিস্ট  
 ডি.সি.সি.  
 সিস্টেম ও নেটওয়ার্ক বিভাগ  
 পরিচালনা বোর্ড, পরিচালনা মহাপর্ষদ

Prime Minister's Office  
Govt. of the People's Republic of Bangladesh

Director  
Anisur Rahman



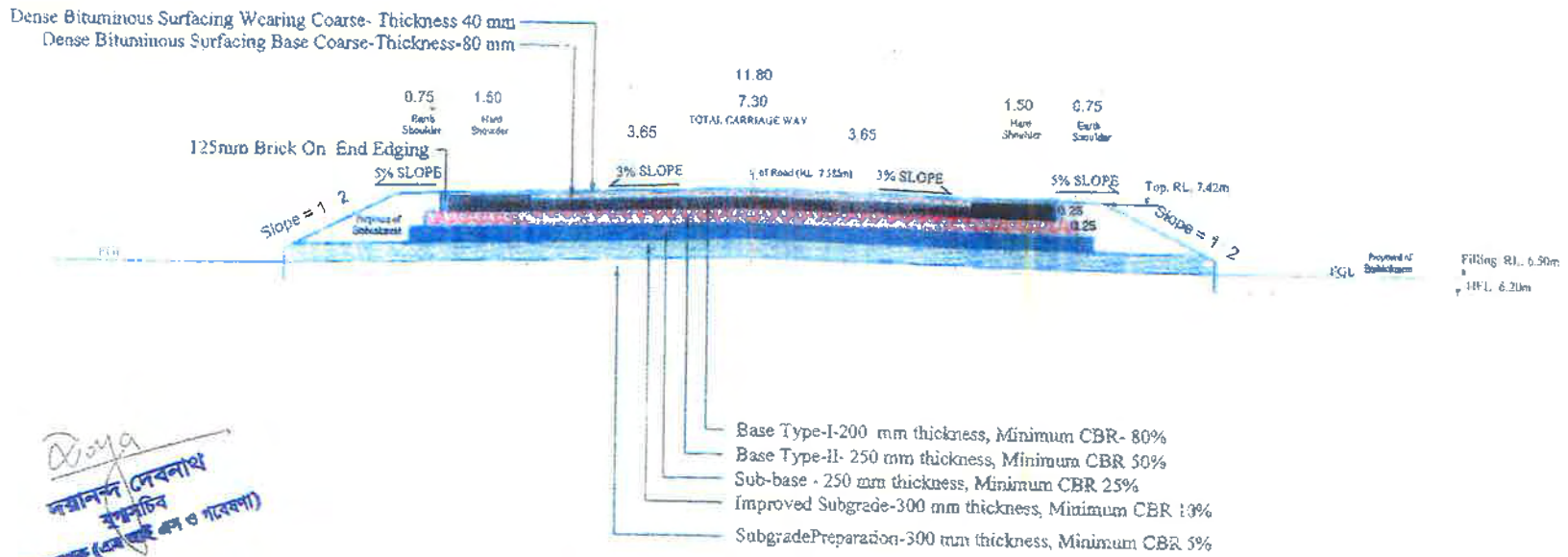
098

দায়িত্ব দেবলাভ  
যুগ্মসচিব  
ব্যবস্থাপক (এম আই এম ও গবেষণা)

Estimate for Construction of Internal Road for Mirsarai-2A EZ		Unit	Area	No.	Length	Width/Dia.	Height	Area/ Volume	Quantity	Remarks
SI No.	Description of Work		m2		m	m	m	m2/m3		
15	[RHD-6/7/02] Creating turf on the side slopes and top of embankment with good quality turf not less than 225 mm square chunk, watering till the grass grown including all leads and lifts etc. complete as per direction of Engineer in charge.	2A01 - 2066 m		2.00	2,066.00	4.10		16,941.20		
		2A02 - 1613 m		2.00	1,613.00	4.10		13,226.80		
		2A03 - 785 m		2.00	785.00	4.10		6,437.00		
		2A04 - 2765 m		2.00	2,765.00	4.10		22,673.00		
		2A05 - 320 m		2.00	320.00	4.10		2,624.00		
		2A06 - 641 m		2.00	641.00	4.10		5,256.20		
		2A07 - 540 m		2.00	540.00	4.10		4,428.00		
		2A08 - 160 m		2.00	160.00	4.10		1,312.00		
		2A09 - 175 m		2.00	175.00	4.10		1,435.00		
			Intersection area							
(RHD-06/10/01) Traffic Signs	Road Intersection			32.00				32.00		
	Road Curve	Number		4.00				4.00		36.00
17	(RHD-06/10/02) Sign Post	Road Intersection		32.00				32.00		
		Road Curve	Number	4.00				4.00		36.00
18	Street Lighting	LS						1.00		1.00
19	Environmental work as per Environmental Management Plan (EMP)	LS						1.00		1.00

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বোর্ড পোলাক মোহাম্মদ  
উপ-প্রধান (সি: ডা:)  
শিল্প ও শক্তি বিভাগ  
পরিচালনা কমিশন, পরিচালনা মহলা



*Daya*  
 দায়ানন্দ দেবনাথ  
 মুহূর্ত্তিক  
 কক্সবাজার (এস এম ও গবেষণা)

**TYPICAL CROSS SECTION OF BC ROAD PAVEMENT**  
 PACKAGE NO. WD -

**Design Data Consideration:**  
 Design Speed=40 km/h  
 Design Analysis Period=20 Years  
 Maximum Performance Period=10 Years

**NOTE:-** 20mm Overlay After Every 5-6 Years of Wearing Coarse.

099  
 Govt. of the People's Republic of Bangladesh  
 Prime Minister's Office  
 Director  
**Anisur Rahman**

<p>Bangladesh Economic Zones Development Board          Head Office</p>	<p>AARVEE-BETS JV          (BEZA-CS-021)</p>	<p>SA Rajon Uddin          CAP Operator</p>	<p>Subrata Kumar Sarkar          Office Engineer</p>	<p>Int'l. Approval Signature</p>	<p>Dr. V.G. Hossain          Team Leader</p>	<p>BEZA</p>	<p>TYPICAL CROSS SECTION OF BC ROAD</p>
<p>TYPICAL CROSS-SECTION OF BC ROAD PAVEMENT IN ZA ZONE</p>	<p>August 2020</p>						



*22/8/20*  
 CIVIL ENGINEER (SUPERVISOR)  
 BEZA ZONE

**BILL OF QUANTITY (BOQ)**

Name of Work : Construction of Internal Road (28) for Mirsarai E. (9.433KM)  
 Contractor Name  
 Package No  
 Total Contract amount  
 Date of Agreement  
 Date of Completion



Prime Minister's Office  
 Director  
 Anisur Rahman  
 Govt. of the People's Republic of Bangladesh

Item No	Description of Work	Unit	Total Quantity	Rate (Taka)	Amount in (Tk)
1	[LGED-5.01/01] Providing layout and carry over Bench Mark (BM) at site from nearby BM pillar, demarcating property lines, existing ground level (EG), formation ground level (FGL), highest flood level (HFL), pitch level (PL). Setting and marking all pillars, markers.	Sqm	167,879.60	11.65	1,935,850.00
2	[RHD-2/6/02] Earth filling work. (Filling in embankment, ditches, widening at intersection & curves.) Contractors Arranged Land	Cum	64,254.55	397.00	25,509,065.10
3	[RHD-2.7.01] Preparation of subgrade 300mm depth	Sqm	196,990.65	24.00	4,706,175.77
4	[RHD-2/8/01] Improved Subgrade (Sand F.M >0.80)	Cum	42,123.71	1,095.00	46,293,954.10
5	[RHD-03/02/01 (a)] Sub-Base (Sand F.M >1.0 and Brick Khoo <40 mm)	Cum	33,667.54	5,134.00	174,299,328.08
6	[RHD_03/03/02a] Aggregate base type-II	Cum	32,507.91	5,652.00	184,059,810.48
7	[RHD-03/03/01a] Aggregate base type-I	Cum	28,668.92	5,273.00	220,575,440.74
8	[RHD-03/06/1a] Bituminous Prime Coat (Plant Placed)	Sqm	122,953.91	133.00	13,893,791.49
9	[RHD-03/07/1a] Bituminous Tack Coat (Plant Work)	Sqth	97,002.16	50.00	4,850,107.65
10	[RHD-03/10/1 (b)] 80 mm Dense Bituminous Surfacing-Base Course (Plant Method) Bitumen Grade 60/70 (Coarse Sand F.M >2.5, Crushed boulder/gravel aggregate <25 mm etc.	Cum	7,760.17	22,133.00	171,753,869.77
11	[RHD_03/10/02 (b)] 40 mm Dense bituminous surfacing wearing course (Plant method) Bitumen Grade 60/70	Cum	4,918.16	23,295.00	114,568,450.54
12	[RHD-3/13/01 (a)] 125 mm Thick Brick on End Edging (1st Class)	Lin. M	18,674.00	189.00	3,507,183.00
13	[RHD-6/15/1] Concrete Guide post at different chainage (1.60 m long, 200 mm dia)	No.	1,705.00	2,322.00	3,959,010.00
14	[RHD-6/5/01] Road Marking (Thermoplastic Material (indicate if screed or by spray)	Sqm	4,246.65	1,114.00	4,730,768.10
15	[RHD-6/7/02] Creating turf on the side slopes and top of embankment with good quality turf not less than 225 mm square chunk, watering till the grass grown including all leads and lifts etc. complete as per direction of Engineer in charge.	Sqm	77,363.40	42.00	3,250,102.80
16	[RHD-06/10/01] Traffic Signs	Number	28.00	5,651.00	158,228.00
17	[RHD-06/10/02] Sign Post	Number	28.00	3,140.00	87,920.00
18	Street Lighting	Number	28.00	3,140.00	87,920.00
19	Implementation of Environmental Management Plan including construction of site office	Ls	1.00	49,051,600.00	49,051,600.00
		Ls	1.00	1,500,000.00	1,500,000.00
	<b>Total in Tk.</b>				<b>1,025,813,779.02</b>

Cost Per KM : 109,065,385.24

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 সায়দা  
 সয়দা দেবনাথ  
 মুগাচিবি  
 ব্যবস্থাপক (এম আই এস ও গবেষণা)


Dr. V.G. Hiremath  
 Team Leader  
 Bervee -BETS JV  
 IAS FOR D&S of Infrastructure Works at Mirsarai E.  
 Bangladesh Economic Zone Authority

Dr. V.G. Hiremath  
 Team Leader  
 Bervee -BETS JV  
 IAS FOR D&S of Infrastructure Works at Mirsarai E.  
 Bangladesh Economic Zone Authority



**Part-A : Construction of Internal Road (2B) for Mirsarai EZ.**

Estimate for Construction of Internal Road for Mirsarai-2B EZ		Unit	Area	No.	Length	Width/Dia.	Height	Area/ Volume	Quantity	Remarks	
Sl No.	Description of Work		m <sup>2</sup>		m	m	m	m <sup>2</sup> /m <sup>3</sup>			
1	[LGED-5.01.01] Providing Layout and carry over Bench Mark (BM) at site from nearby BM pillar, demarcating property lines, existing ground level (EGL), formation ground level (FGL), highest flood level (HFL), plinth level (PL). Setting and marking all pillars, markers.	Sqm	2801 -1320 m		1,320.00	17.80		23,496.00			
			2802 -1540 m		1,540.00	17.80		27,412.00			
			2803 -1555 m		1,555.00	17.80		27,679.00			
			2804 -1945 m		1,945.00	17.80		34,621.00			
			2805 - 277 m		277.00	17.80		4,930.60			
			2806 - 556 m		556.00	17.80		9,896.80			
			2807 - 702 m		702.00	17.80		12,495.60			
			2808 - 1542 m		1,542.00	17.80		27,447.60			
									<b>167,978.60</b>		
2	[RHD-2/6/02] Earth filling work. (Filling in embankment, ditches, widening at intersection & curves.) Contractors Arranged Land.	Cum		15.57	9,433.00			146,871.81			
			From Software		28,112.06			1,120	31,485.50		
							(114,102.77)		<b>64,254.55</b>		
3	[RHD-2.7.01] Preparation of subgrade 300mm depth	Cum	2801 -1320 m		1,320.00	17.80		23,496.00			
			2802 -1540 m		1,540.00	17.80		27,412.00			
			2803 -1555 m		1,555.00	17.80		27,679.00			
			2804 -1945 m		1,945.00	17.80		34,621.00			
			2805 - 277 m		277.00	17.80		4,930.60			
			2806 - 556 m		556.00	17.80		9,896.80			
			2807 - 702 m		702.00	17.80		12,495.60			
			2808 - 1542 m		1,542.00	17.80		27,447.60			
			Intersection area								
			2801, 2802 & 2803		17,197.57				17,197.57		
			2803 & 2808		2,450.43				2,450.43		
			2804 & 2808		2,839.68				2,839.68		
			2804 & 2807		1,660.33				1,660.33		
			2804 & 2806		1,655.27				1,655.27		
2804 & 2805		2,308.76				2,308.76					
								<b>196,090.66</b>			


  
**দয়ানন্দ দেবনাথ**  
 যুগ্মসচিব  
 অবস্থাপক (এম জি এল ও গবেষণা)

Anisur Rahman  
 Director  
 Prime Minister's Office  
 Gov. of the People's Republic of Bangladesh

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 মোঃ গোলাম মোহাম্মদ  
 উপ-প্রধান (সি: দাঃ)  
 শিল্প ও শক্তি বিভাগ  
 বিদ্যুৎ বোর্ড, বিকল্প সরঞ্জাম

Prime Minister's Office  
 Director  
 Anisur Rahman  
 Govt. of the Peoples Republic of Bangladesh



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দয়ানন্দ দেবনাথ  
 মুখ্যসচিব  
 স্ববহুসংস্কৃত (এম এফ এম ও গবেষণা)

Estimate for Construction of Internal Road for Mirsarai-2B EZ		Unit	Area	No.	Length	Width/Dia.	Height	Area/ Volume	Quantity	Remarks	
SI No.	Description of Work		m <sup>2</sup>		m	m	m	m <sup>2</sup> /m <sup>3</sup>			
4	[RHD-2/8/01] Improved Subgrade (Sand F.M >0.60)	2801 - 1320 m			1,320.00	11.90	0.300	4,712.40			
		2802 - 1540 m			1,540.00	11.90	0.300	5,497.80			
		2803 - 1555 m			1,555.00	11.90	0.300	5,551.35			
		2804 - 1945 m			1,945.00	11.90	0.300	6,943.65			
		2805 - 277 m			277.00	11.90	0.300	988.89			
		2806 - 556 m			556.00	11.90	0.300	1,984.92			
		2807 - 702 m			702.00	11.90	0.300	2,506.14			
		2808 - 1542 m			1,542.00	11.80	0.300	5,504.94			
		Intersection area	Cum								
		2801, 2802 & 2803		17,197.57				0.300	5,159.27		
		2803 & 2808		2,450.43				0.300	735.13		
		2804 & 2808		2,839.68				0.300	851.90		
		2804 & 2807		1,660.33				0.300	498.10		
		2804 & 2806		1,555.27				0.300	496.58		
2804 & 2805		2,308.78				0.300	692.63				
								42,123.71			
5	[RHD-03/02/01 (a)] Sub-Base (Sand F.M >1.0 and Brick Khoa <40 mm)	2801 - 1320 m			1,320.00	11.30	0.250	3,728.00			
		2802 - 1540 m			1,540.00	11.30	0.250	4,350.50			
		2803 - 1555 m			1,555.00	11.30	0.250	4,392.88			
		2804 - 1945 m			1,945.00	11.30	0.250	5,494.63			
		2805 - 277 m			277.00	11.30	0.250	782.53			
		2806 - 556 m			556.00	11.30	0.250	1,570.70			
		2807 - 702 m			702.00	11.30	0.250	1,983.15			
		2808 - 1542 m			1,542.00	11.30	0.250	4,356.15			
		Intersection area	Cum								
		2801, 2802 & 2803		17,197.57				0.250	4,299.39		
		2803 & 2808		2,450.43				0.250	612.61		
		2804 & 2808		2,839.68				0.250	709.92		
		2804 & 2807		1,660.33				0.250	415.08		
		2804 & 2806		1,555.27				0.250	413.82		
2804 & 2805		2,308.78				0.250	577.20				
								33,687.54			

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 নোঃ পোলার মোহাম্মদ  
 উপ-প্রধান (সি: দাঃ)  
 শিল্প ও শক্তি বিভাগ  
 পরিকল্পনা কমিশন, গণপ্রজাতন্ত্রী বাংলাদেশ

Estimate for Construction of Internal Road for Mirsarai-2B EZ		Unit	Area	No.	Length	Width/Dia.	Height	Area/ Volume	Quantity	Remarks	
Sl No.	Description of Work		m2		m	m	m	m2/m3			
6	(RHD_03/03/02a) Aggregate base type-II	2801 -1320 m			1,320.00	10.80	0.250	3,564.00			
		2802 -1540 m			1,540.00	10.80	0.250	4,158.00			
		2803 -1555 m			1,555.00	10.80	0.250	4,158.50			
		2804 -1945 m			1,945.00	10.80	0.250	5,251.50			
		2805 - 277 m			277.00	10.80	0.250	747.90			
		2806 - 556 m			556.00	10.80	0.250	1,501.20			
		2807 - 702 m			702.00	10.80	0.250	1,895.40			
		2808 - 1542 m			1,542.00	10.80	0.250	4,163.40			
		Intersection area									
		Cum	2801, 2802 & 2803	17,197.57				0.250	4,299.39		
			2803 & 2806	2,450.43				0.250	612.61		
			2804 & 2805	2,639.68				0.250	709.92		
			2804 & 2807	1,660.33				0.250	415.08		
			2804 & 2806	1,656.27				0.250	413.82		
			2804 & 2805	2,308.78				0.250	577.20		
								32,507.91			
7	(RHD-03/03/01a) Aggregate base type-I	2801 -1320 m			1,320.00	10.05	0.200	2,653.20			
		2802 -1540 m			1,540.00	10.05	0.200	3,085.40			
		2803 -1555 m			1,555.00	10.05	0.200	3,125.55			
		2804 -1945 m			1,945.00	10.05	0.200	3,909.45			
		2805 - 277 m			277.00	10.05	0.200	556.77			
		2806 - 556 m			556.00	10.05	0.200	1,117.56			
		2807 - 702 m			702.00	10.05	0.200	1,411.02			
		2808 - 1542 m			1,542.00	10.05	0.200	3,068.42			
		Hard Shoulder									
		Cum	2801 -1320 m	2.00	1,320.00	1.38	0.080	290.40			
			2802 -1540 m	2.00	1,540.00	1.38	0.080	338.80			
			2803 -1555 m	2.00	1,555.00	1.38	0.080	342.10			
			2804 -1945 m	2.00	1,945.00	1.38	0.080	427.90			
			2805 - 277 m	2.00	277.00	1.38	0.080	60.94			
			2806 - 556 m	2.00	556.00	1.38	0.080	122.32			
	2807 - 702 m	2.00	702.00	1.38	0.080	154.44					
	2808 - 1542 m	2.00	1,542.00	1.38	0.080	339.24					

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Anisur Rahman  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

মসনাদ দেবনাথ  
 মুগাসতিন  
 কবছপক (এই আই এস ও গবেষণা)



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মোঃ মোস্তাফিজ মোহাম্মদ  
 উপ-প্রধান (স: পঃ)  
 শিল্প ও প্রতিষ্ঠান  
 পটভূমি, পটভূমি, পটভূমি

Director  
Anisur Rahman



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স্বাক্ষর  
দয়ানন্দ দেবনাথ  
যুগ্মসচিব  
ব্যবস্থাপক (এম আই এস ও পাবনা)


Estimate for Construction of Internal Road for Mirsarai-2B EZ		Unit	Area	No.	Length	Width/Dia.	Height	Area/ Volume	Quantity	Remarks
Sl No.	Description of Work		m2		m	m	m	m2/m3		
	Intersection area									
	2B01, 2B02 & 2B03		17,197.57				0.200	3,439.51		
	2B03 & 2B08		2,450.43				0.200	490.09		
	2B04 & 2B06		2,839.68				0.200	567.94		
	2B04 & 2B07		1,660.33				0.200	332.07		
	2B04 & 2B06		1,655.27				0.200	331.05		
	2B04 & 2B05		2,308.78				0.200	461.76		
									<b>26,666.92</b>	
8	[RHD-03/06/1a] Bituminous Prime Coat (Plant Placed)									
	2B01 - 1320 m				1,320.00		10.05	13,206.00		
	2B02 - 1540 m				1,540.00		10.05	15,477.00		
	2B03 - 1555 m				1,555.00		10.05	15,627.75		
	2B04 - 1945 m				1,945.00		10.05	19,547.25		
	2B05 - 277 m				277.00		10.05	2,783.85		
	2B06 - 556 m				556.00		10.05	5,587.80		
	2B07 - 702 m				702.00		10.05	7,055.10		
	2B08 - 1542 m				1,542.00		10.05	15,497.10		
	Intersection area	Sqm								
	2B01, 2B02 & 2B03		17,197.57					17,197.57		
	2B03 & 2B08		2,450.43					2,450.43		
	2B04 & 2B08		2,839.68					2,839.68		
	2B04 & 2B07		1,660.33					1,660.33		
	2B04 & 2B06		1,655.27					1,655.27		
	2B04 & 2B05		2,308.78					2,308.78		
									<b>122,953.91</b>	

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১৯/০৬/১৬  
মোঃ গোলাম মোহাম্মদ  
উপ-প্রধান (স: সাঃ)  
শিল্প ও শক্তি বিভাগ  
পরিকল্পনা কমিশন, পল্লিকরনা মহলায়

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Estimate for Construction of Internal Road for Mirsarai-2B EZ											
SI No.	Description of Work	Unit	Area	No.	Length	Width/Dia.	Height	Area/ Volume	Quantity	Remarks	
			m2		m	m	m	m2/m3			
9	[RHD-03/07/1a] Bituminous Tack Coat (Plant Work)	2801 -1320 m			1,320.00	7.30		9,636.00			
		2802 -1540 m			1,540.00	7.30		11,242.00			
		2803 -1555 m			1,555.00	7.30		11,351.50			
		2804 -1945 m			1,945.00	7.30		14,198.50			
		2805 - 277 m			277.00	7.30		2,022.10			
		2806 - 556 m			556.00	7.30		4,058.80			
		2807 - 702 m			702.00	7.30		5,124.60			
		2808 - 1542 m			1,542.00	7.30		11,256.60			
		Intersection area	Sqm								
		2801, 2802 & 2803		17,197.57					17,197.57		
		2803 & 2808		2,450.43					2,450.43		
		2804 & 2808		2,839.68					2,839.68		
		2804 & 2807		1,660.33					1,660.33		
		2804 & 2806		1,655.27					1,655.27		
2804 & 2805		2,308.78					2,308.78				
									97.002.16		
10	[RHD-03/10/1 (b)] 80 mm Dense Bituminous Surfacing-Base Course (Plant Method) Bitumen Grade 60/70 (Coarse Sand F.M > 2.5, Crushed boulder/gravel aggregate <25 mm etc.	2801 -1320 m			1,320.00	7.30	0.080	770.88			
		2802 -1540 m			1,540.00	7.30	0.080	899.36			
		2803 -1555 m			1,555.00	7.30	0.080	908.12			
		2804 -1945 m			1,945.00	7.30	0.080	1,135.88			
		2805 - 277 m			277.00	7.30	0.080	161.77			
		2806 - 556 m			556.00	7.30	0.080	324.70			
		2807 - 702 m			702.00	7.30	0.080	409.97			
		2808 - 1542 m			1,542.00	7.30	0.080	800.53			
		Intersection area	Cum								
		2801, 2802 & 2803		17,197.57				0.080	1,375.81		
		2803 & 2808		2,450.43				0.080	196.03		
		2804 & 2808		2,839.68				0.080	227.17		
		2804 & 2807		1,660.33				0.080	132.83		
		2804 & 2806		1,655.27				0.080	132.42		
2804 & 2805		2,308.78				0.080	184.70				
									7,760.17		

  
 দায়ানন্দ দেবনাথ  
 মুগুলাচি  
 কক্সবন্দর (এস এম) কল ও গবেষণা

Anisur Rahman  
 Director  
 Prime Minister's Office  
 Govt of the People's Republic of Bangladesh



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 মোঃ গোলাম মোহাম্মদ  
 উপ-প্রধান (সি: সা:)  
 সড়ক ও শক্তি বিভাগ  
 কক্সবন্দর, কক্সবন্দর মন্ত্রণালয়

Govt. of the People's Republic of Bangladesh  
 Prime Minister's Office  
 Director  
**Ahissur Rahman**



Estimate for Construction of Internal Road for Mirsarai-2B EZ		Unit	Area	No.	Length	Width/Dia.	Height	Area/Volume	Quantity	Remarks	
SI No.	Description of Work		m <sup>2</sup>		m	m	m	m <sup>2</sup> /m <sup>3</sup>			
11	[RHD-05/01/02 (b)] 40 mm Dense bituminous surfacing wearing course (Plan Method) Bitumen Grade 60/70	2B01 - 1320 m			1,320.00	10.05	0.040	530.64			
		2B02 - 1540 m			1,540.00	10.05	0.040	619.08			
		2B03 - 1555 m			1,555.00	10.05	0.040	625.11			
		2B04 - 1945 m			1,945.00	10.05	0.040	781.89			
		2B05 - 277 m			277.00	10.05	0.040	111.35			
		2B06 - 556 m			556.00	10.05	0.040	223.51			
		2B07 - 702 m			702.00	10.05	0.040	282.20			
		2B08 - 1542 m			1,542.00	10.05	0.040	619.85			
		Intersection area	Cum								
		2B01, 2B02 & 2B03		17,197.57				0.040	687.90		
		2B03 & 2B08		2,450.43				0.040	98.02		
		2B04 & 2B08		2,839.88				0.040	113.59		
		2B04 & 2B07		1,660.33				0.040	66.41		
		2B04 & 2B06		1,655.27				0.040	68.21		
2B04 & 2B05		2,308.78				0.040	92.35				
									<b>4,918.16</b>		
12	[RHD-3/13/01 (a)] 125 mm Thick Brick on End Edging (1st Class)	2B01 - 1320 m		2.00	1,320.00			2,640.00			
		2B02 - 1540 m		2.00	1,540.00			3,080.00			
		2B03 - 1555 m		2.00	1,555.00			3,110.00			
		2B04 - 1945 m		2.00	1,945.00			3,890.00			
		2B05 - 277 m		2.00	277.00			554.00			
		2B06 - 556 m		2.00	556.00			1,112.00			
		2B07 - 702 m		2.00	702.00			1,404.00			
		2B08 - 1542 m		2.00	1,542.00			3,084.00			
			Line Metre								<b>18,874.00</b>
13	[RHD-6/15/01] Concrete Guide post at different chainage (1.60 m long, 200 mm dia)	Intersection area									
		2B01, 2B02 & 2B03		3.00	135.00			405.00			
		2B03 & 2B08		2.00	100.00			200.00			
		2B04 & 2B08		3.00	100.00			300.00			
		2B04 & 2B07		4.00	100.00			400.00			
		2B04 & 2B06		3.00	100.00			300.00			
		2B04 & 2B05		2.00	50.00			100.00			
	Nos								<b>1,705.00</b>		

দায়িত্ব দেবনাথ  
 : মুখ্যমন্ত্রীর  
 ব্যবস্থাপক (এস আই এস ও গবেষণা)

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*R*

প্রকল্প পরিচালক  
 জাতীয় সড়ক প্রকল্প (সি: সি)  
 পিআই ও পিআই বিভাগ  
 গম্বুজলা কামিলুল, গম্বুজলা সরকার

Estimate for Construction of Internal Road for Mirsarai-2B EZ										
SI No.	Description of Work	Unit	Area m <sup>2</sup>	No.	Length m	Width/Dia. m	Height m	Area/ Volume m <sup>2</sup> /m <sup>3</sup>	Quantity	Remarks
14	[RHD-6/5/01] Road Marking (Thermoplastic Material (indicate if screed or by spray)	Sqm	2B01 - 1320 m	3.00	1,320.00	0.150		594.00		
			2B02 - 1540 m	3.00	1,540.00	0.150		693.00		
			2B03 - 1555 m	3.00	1,555.00	0.160		689.75		
			2B04 - 1945 m	3.00	1,945.00	0.150		875.25		
			2B05 - 277 m	3.00	277.00	0.160		124.65		
			2B06 - 556 m	3.00	556.00	0.150		250.20		
			2B07 - 702 m	3.00	702.00	0.150		315.90		
			2B08 - 1542 m	3.00	1,542.00	0.150		683.90		
								4,246.65		
15	[RHD-6/7/02] Creating turf on the side slopes and top of embankment with good quality turf not less than 225 mm square chunk, watering till the grass grown including all leads and lifts etc. complete as per direction of Engineer in charge.	Sqm	2B01 - 1320 m	2.00	1,320.00	4.10		10,824.00		
			2B02 - 1540 m	2.00	1,540.00	4.10		12,628.00		
			2B03 - 1555 m	2.00	1,555.00	4.10		12,751.00		
			2B04 - 1945 m	2.00	1,945.00	4.10		15,949.00		
			2B05 - 277 m	2.00	277.00	4.10		2,271.40		
			2B06 - 556 m	2.00	556.00	4.10		4,559.20		
			2B07 - 702 m	2.00	702.00	4.10		5,756.40		
			2B08 - 1542 m	2.00	1,542.00	4.10		12,644.40		
								77,383.40		
16	[RHD-06/10/01] Traffic Signs	Road Intersection			24.00			24.00		
		Road Curve	Nos		4.00			4.00		
									28.00	
17	[RHD-06/10/02] Sign Post	Road Intersection			24.00			24.00		
		Road Curve	Nos		4.00			4.00		
									28.00	
18	Street Lighting	LS						1.00		
									1.00	
19	Environmental work as per Environmental Management Plan (EMP) from Section-10.	LS						1.00		
									1.00	

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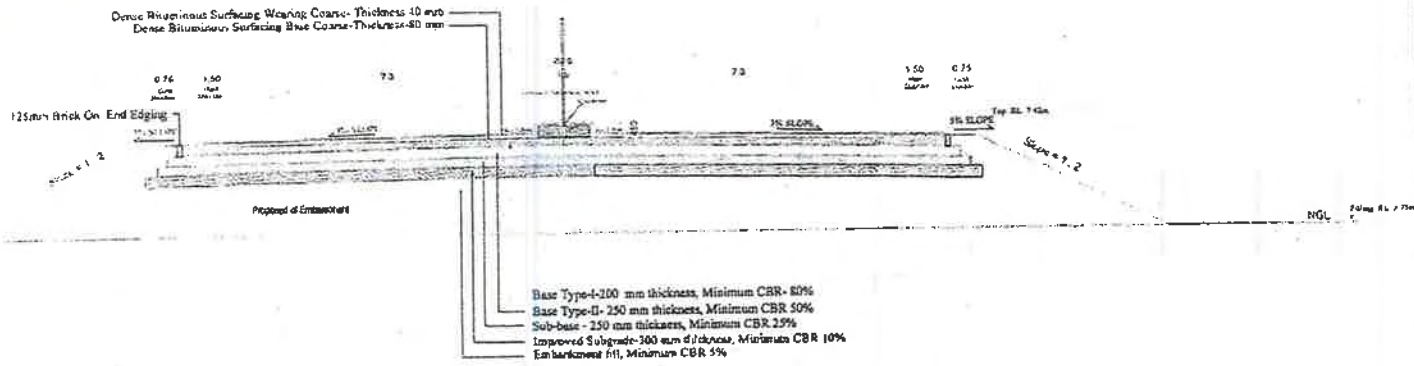
Anisur Rahman  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh



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 জাতির প্রধান কার্যালয়  
 উল্লেখ্য (সং: নং)  
 শিল্প ও পল্লি বিভাগ  
 সার্বজনীন সেবার, পরিচালনা মহলায়

**Anisur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh



**TYPICAL CROSS SECTION OF BC ROAD PAVEMENT**  
 PACKAGE NO. WD.

Design Data Consideration:  
 Design Speed=40 km/h  
 Design Analysis Period=20 Years  
 Maximum Performance Factor=10 Years

NOTE: 20mm Overlay After Every 3-6 Years of Wearing Course.

দায়ানন্দ দেবনাথ  
 সহকারী  
 ব্যবস্থাপক (এস আই এস ও গবেষণা)

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১৯/০৮/১৬  
 সিনিয়র সোলার মোহাম্মদ  
 উপ-প্রকৌশল (সি: ডাঃ)  
 সিস্টেম ও সফটওয়্যার  
 ইঞ্জিনিয়ার, গণিতবিদ্যা মহাবিদ্যালয়

 BANGLADESH ECONOMIC ZONES AUTHORITY (BEZA)	Construction of 04 km BC road	AARVEE-0215 JV (BEZA-CS-2211)	SI Kazi Uddin CAD Operator	Subrata Kumar Barua Office Eng. near	Md. Abdul Maleque	Dr. V.G. Hareemath Team Leader	BEZA	TYPICAL CROSS SECTION OF BC ROAD
	TYPICAL CROSS-SECTION OF BC ROAD PAVEMENT	Aug. 2020						S-01



**BILL OF QUANTITY (BOQ)**

Name of Work : Construction of 2 Lane BC Road for Mirsarai EZ. (8.00KM)  
 Contractor Name :  
 Package No : BEZA WD-  
 Total Contract amount :  
 Date of Agreement :  
 Date of Completion :

Item No	Description of Work	Unit	Total Quantity	Rate (Taka)	Amount in (Tk)
1	[PWD-2.1.1] Providing Layout and carry over Bench Mark (BM) at site from nearby BM pillar, demarcating property lines, existing ground level (EGL), formation ground level (FGL), highest flood level (HFL), plinth level (PL). Setting and marking all pillars, markers.	Sqm	148,000.00	15.00	2,220,000.00
2	[RHD-2/1/01] Clearing and grubbing by removal and disposal of everything above ground level including overhanging branches, removing of all foundation stumps, embedded logs, tree roots and other material either to a depth of 0.3m below the proposed surface elevation or to the level as shown on the drawing, disposing of all materials resulting from clearing and grubbing at a safe distance, etc. all complete as per direction of the E-I-C.	Sqm	171,000.00	55.00	9,405,000.00
3	[RHD-2/6/02] Earth filling work. (Filling in embankment, ditches, widening at Intersection & curves.) Contractors Arranged Land	Cum	278,258.88	397.00	110,468,775.35
4	[RHD-2/8/01] Improved Subgrade (Sand F.M >0.80)	Cum	29,087.40	1,099.00	31,967,052.60
5	[RHD-03/02/01 (a)] Sub-Base (Sand F.M >1.0 and Brick Khoo <40 mm)	Cum	23,039.50	5,174.00	119,206,373.05
6	[RHD_03/03/02a] Aggregate base type-II	Cum	22,039.50	5,652.00	124,767,649.00
7	[RHD-03/03/01a] Aggregate base type-I	Cum	15,431.60	8,273.00	135,938,626.80
8	[RHD-03/06/1a] Bituminous Prime Coat (Plant Placed)	Sqm	82,158.00	113.00	9,283,854.00
9	[RHD-03/07/1a] Bituminous Tack Coat (Plant Work)	Sqm	80,158.00	50.00	3,007,900.00
10	[RHD-03/10/1 (b)] 80 mm Dense Bituminous Surfacing-Base Course (Plant Method) Bitumen Grade 60/70 (Coarse Sand F.M >2.5, Crushed boulder/gravel aggregate <25 mm etc.	Cum	4,612.64	22,133.00	106,518,161.12
11	[RHD_03/10/02 (b)] 40 mm Dense bituminous surfacing wearing course (Plan method) Bitumen Grade 60/70	Cum	3,286.32	23,295.00	76,554,824.40
12	[RHD-3/13/01 (a)] 125 mm Thick Brick on End Edging (1st Class)	Lin. M	17,870.00	189.00	3,377,430.00
13	[RHD-6/15/01] Concrete Guide post at different chainage (1.60 m long, 200 mm dia)	No.	465.00	2,322.00	1,079,730.00

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**Ahissur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

*Dinara*  
 দীনানন্দ দেবনাথ  
 যুগ্ম-সচিব  
 সড়ক-সংস্করণ (এম আর ও গবেষণা)

*R*

*Rahmat*  
 মোঃ গোলাম মোহাম্মদ  
 উপ-প্রধান (সি-সি)  
 পল্লি ও শক্তি বিভাগ  
 পরিচালনা কমিশন, পরিচালনা মন্ত্রণালয়





Item No.	Description of Work	Unit	Total Quantity	Rate (Taka)	Amount in (Tk)
15	[RHD-6/5/01] Road Marking (Thermoplastic Material (Indicate if screed or by spray)	Sqm	3,600.00	1,114.00	4,010,400.00
16	[RHD-6/7/02] Creating turf on the side slopes and top of embankment with good quality turf not less than 225 mm square chunk, watering till the grass grown including all leads and lifts etc. complete as per direction of Engineer in charge.	Sqm	123,655.00	42.00	5,193,510.00
16	RHD-06/17/01(a) RCC Palisading (4m Post, 200mm X 200mm)	Lin. M	327.00	10,171.00	3,325,917.00
17	(RHD-06/16/01) Concrete Kilometer Post	No.	8.00	8,825.00	70,600.00
18	(RHD-06/10/01) Traffic Signs	Number	24.00	5,651.00	135,624.00
19	(RHD-06/10/02) Sign Post	Number	24.00	3,140.00	75,360.00
20	[LGED-4.01.05.02] Maintenance, Staffing, Security and Clearing of the Field Office for the Engineer	Ls	1.00	592,435.55	592,435.55
21	Implementation of Environmental Management Plan including construction of site office	Ls	1.00	15,000,000.00	15,000,000.00
Total in Tk.					762,219,227.83

Cost Per KM : 95,277,402.85

০২/১১/১৬  
দায়িত্ব দেবনাথ  
মুদ্রাসচিব  
যবহাসক (এম আই এল ও গবেষণা)

*[Signature]*

*[Signature]*

*[Signature]*

Dr. V.G. Hiremath  
Team Leader  
aarvee -BETS JV  
TAS FOR D&S of Infrastructure Works at Misrai EZ  
Bangladesh Economic Zone Authority

১১/১১/১৬  
এস এম এল  
উপ-সচিব (সি. পি.)  
শিল্প ও সড়ক বিভাগ  
পলিটেকনিক কলেজ, পলিটেকনিক মহলায়

**Construction of 2 Lane BC Road for Mirsarai EZ.**

Sl No.	Description of Work	Unit	Area m2	No.	Length m	Width/Dia. m	Height m	Area/ Volume m2/m3	Quantity	Remarks
1	[PWD-2.1.1] Providing Layout and carry over Bench Mark (BM) at site from nearby BM pillar, demarcating property lines, existing ground level (EGL), formation.	Sqm			8,000.00	18.50		148,000.00	148,000.00	
2	[RHD-2/1/01] Cleaning and grubbing	Sqm						171,000.00	171,000.00	
3	[RHD-2/6/02] Earth filling work. (Filling in embankment, ditches, widening at intersection & curves.) Contractors Arranged Land.	Cum	1,758.00				1.98	373,475.00 3,480.84	278,258.88	
4	[RHD-2/8.01] Improved Subgrade (Sand F.M >0.80)	Cum	1,758.00		8,000.00	11.90	0.300	28,550.00 527.40	29,087.40	
5	[RHD-03/02/01 (a)] Sub-Base (Sand F.M >1.0 and Brick Khoo <40 mm)	Cum	1,758.00		8,000.00	11.30	0.250	22,600.00 439.50	23,039.50	
6	[RHD_03/03/02a] Aggregate base type-II	Cum	1,758.00		8,000.00	10.80	0.250	21,600.00 439.50	22,039.50	
7	[RHD-03/03/01a] Aggregate base type-I	Cum	1,758.00		8,000.00	10.05	0.200	16,080.00 351.60	16,431.60	
8	[RHD-03/05/1a] Bituminous Prime Coat (Plant Placed)	Sqm	1,758.00		8,000.00	10.05		80,400.00 1,758.00	82,158.00	
9	[RHD-03/07/1a] Bituminous Tack Coat (Plant Work)	Sqm	1,758.00		8,000.00	7.30		58,400.00 1,758.00	60,158.00	
10	[RHD-03/10/1 (b)] 80 mm Dense Bituminous Surfacing-Base Course (Plant Method) Bitumen Grade 60/70 (Open Course)	Cum	1,758.00		8,000.00	7.30	0.080	4,672.00 140.64	4,812.64	
11	[RHD_03/10/02 (b)] 40 mm Dense bituminous surfacing wearing course (Plant Method) Bitumen Grade 60/70	Cum	1,758.00		8,000.00	10.05	0.040	3,216.00 70.32	3,286.32	

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Anisur Rahman  
Director  
Prime Minister's Office  
Government of Bangladesh

সৈয়দুল দেবনাথ  
স্বাক্ষরিত  
সি.এ.স. (এম.এ.এস. ও গবেষণা)



*[Handwritten signature]*

মোঃ গোলাম মোহাম্মদ  
উপ-প্রধান (স: পঃ)  
শিল্প ও শক্তি বিভাগ  
স্বাক্ষরিত

Director  
Anisur Rahman



Estimate No.	Description of Work	Unit	Area m <sup>2</sup>	No.	Length m	Width/Ola. m	Height m	Area/ Volume m <sup>2</sup> /m <sup>3</sup>	Quantity	Remarks
12	[RHD-3/13/01 (a)] 125 mm Thick Brick on and Edging (1st Class)	Road Intersection area		2.00	8,000.00			16,000.00	17,870.00	
13	[RHD-6/15/01] Concrete Guide post at different chainage (1.60 m long, 200 mm dia)			Nos	1.00	150.00			100.00	
					1.00	100.00			75.00	
					1.00	100.00			80.00	
					1.00	100.00			100.00	
					1.00	100.00			80.00	
					1.00	50.00			50.00	
								465.00		
14	[RHD-5/5/01] Road Marking (Thermoplastic Material (indicate if screed or by spray)		Sqm	3.00	8,000.00	0.150		3,600.00	3,600.00	
15	[RHD-6/7/02] Creating turf on the side slopes and top of embankment with good		Sqm					123,655.00	123,655.00	
16	[RHD-06/17/01(a)] RCC Palisading (4m Post, 200mm X 200mm)			Lin M	1.00	37.00			37.00	
					1.00	50.00			50.00	
					1.00	75.00			75.00	
					1.00	40.00			40.00	
					1.00	80.00			80.00	
					1.00	45.00			45.00	
								327.00		
17	[RHD-06/16/01] Concrete Kilometer Post	Road Intersection		Nos	8.00			8.00	8.00	
18	[RHD-06/10/01] Traffic Signs	Road Intersection		Nos	20.00			20.00		
		Road Curve		Nos	4.00			4.00	24.00	
19	[RHD-06/10/02] Sign Post	Road Intersection		Nos	20.00			20.00		
		Road Curve		Nos	4.00			4.00	24.00	

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০১/১১/১৯  
দায়ানন্দ দেবনাথ  
মুগ্ধাচারি  
ব্যবস্থাপক (এম এম এম ও পরিকল্পনা)

৯/১১/১৯  
মেজর গোলাম মোহাম্মদের  
উকত প্রধান (সি. দাঃ)  
সিঙ্গ ও শিল্প বিভাগ  
পল্লিকলা কামাল, পল্লিকলা মহাসড়ক

Estimate for Construction of 2 Lane BC Road for Mirsarai EZ.										
SI No.	Description of Work	Unit	Area	No.	Length	Width/Dia.	Height	Area/ Volume	Quantity	Remarks
			m2		m	m	m	m2/m3		
20	Maintenance, Staffing, Security and Cleaning of the Field Office for the Engineer	LS						1.00	1.00	
21	Environmental work as per Environmental Management Plan (EMP)	LS						1.00	1.00	

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*Diya*  
 দায়ানন্দ দেবনাথ  
 মুগসুচিব  
 যবহাণ্ডার (এন.আই.এস ও গবেষণা)

*Rahman*  
 মোঃ গোলাম মোহাম্মদ  
 উপ-প্রধান (স: দাঃ)  
 শিল্প ও সাজি বিভাগ  
 পরিচালনা কমিশন, গরিকলা মহাসড়ক

*Arisur Rahman*  
 Arisur Rahman  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh



Govt. of the People's Republic of Bangladesh

Prime Minister's Office

Director

Anisur Rahman



Pre-Work Vs. Design Work Summary Sheet

Scheme Code : 41553-11-0020  
Road No : 41553-001

Division : CHITTAGONG  
Road Type : UZR

District : CHITTAGONG

Upazila : MIRSHARAI

Project : NONE

Fin-Year : 2011-2012

Road Name : Construction of 2 Lane BC Road for Mirsarai EZ (Ch. Km 0+000 to km8+000)

Chainage To Chainage	Appt. Len (m)	Net Basic Earth Vol (cum)	Extra Earth Vol (cum)	Cutting Earth Vol (cum)	Earth Vol without cutting (cum) (C+D-E)	Total Earth Vol (cum) (E+F)	Additional Load (Calculated on F)			Additional Lft (Calculated on F)			Hard Slashy or Sandy Soil (Calculated on G)		Bailing out of Water (Calculated on F)		Profile (No)	Earth Work for Compaction (cum) Calculated on A+B				Turffing Area (sqm)				Area of Jungle Cutting, Removal of Grass
							% Vol (cum)			% Vol (cum)			% Vol (cum)		% Vol (cum)			% Clay & Silty Clay	Clay Silt & Sandy	Sand & Silty Sand	%	Grass		Onoi Kolmi		
							H	I	J	K	L	M	N	O	P	Q						R	S	T	U	
0-1000	1,000	46395.000	0.000	0.000	46,395.000	46395.000	0	0	0.000	0	0	0.000	0	0.000	0	0.000	0	0	0.000	0.000	0.000	0.000	100	4765.00	0.00	21000.00
1000-2000	1,000	44665.000	0.000	0.000	44,665.000	44665.000	0	0	0.000	0	0	0.000	0	0.000	0	0.000	0	0	0.000	0.000	0.000	0.000	100	4675.00	0.00	21000.00
2000-3000	1,000	54840.000	0.000	0.000	54,840.000	54840.000	0	0	0.000	0	0	0.000	0	0.000	0	0.000	0	0	0.000	0.000	0.000	0.000	100	7955.00	0.00	22000.00
3000-4000	1,000	58485.000	0.000	0.000	58,485.000	58485.000	0	0	0.000	0	0	0.000	0	0.000	0	0.000	0	0	0.000	0.000	0.000	0.000	100	1130.00	0.00	21000.00
4000-5000	1,000	63545.000	0.000	0.000	63,545.000	63545.000	0	0	0.000	0	0	0.000	0	0.000	0	0.000	0	0	0.000	0.000	0.000	0.000	100	5430.00	0.00	22000.00
5000-6000	1,000	42480.000	0.000	0.000	42,480.000	42480.000	0	0	0.000	0	0	0.000	0	0.000	0	0.000	0	0	0.000	0.000	0.000	0.000	100	7700.00	0.00	21000.00
6000-7000	1,000	26190.000	0.000	0.000	26,190.000	26190.000	0	0	0.000	0	0	0.000	0	0.000	0	0.000	0	0	0.000	0.000	0.000	0.000	100	0195.00	0.00	21000.00
7000-8000	1,000	36875.000	0.000	0.000	36,875.000	36875.000	0	0	0.000	0	0	0.000	0	0.000	0	0.000	0	0	0.000	0.000	0.000	0.000	100	3240.00	0.00	22000.00
TOTAL	8000	373475.00	0.00	0.00	373,475.00	373475.00	0		0.00	0		0.00		0.00		0.00		0		0.00	0.00	0.00		135110.00	0.00	171000.00

Computation Status : OK

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স্বাক্ষরিত  
দায়িত্ব দেবলাথ  
স্বাক্ষরিত  
ব্যবস্থাপক (এম আই এস ও গবেষণা)

স্বাক্ষরিত  
সেচাও সেক্টর সেকেন্ডারি  
উপ-প্রকল্প (সি. ডাঃ)  
শিল্প ও শক্তি বিভাগ  
পরিষ্কার কমিশন, পরিষ্কার মন্ত্রণালয়

N.B. While calculating column (G) negative value of column (F) is considered as Zero. In other columns absolute value of column (F) is considered. Accordingly, while calculating Total, negative value of column (F) is treated as Zero.

Scheme Code : 41553-11-0020  
 Financial Year : 2011-2012

**PRE-WORK VS. DESIGN SURVEY**

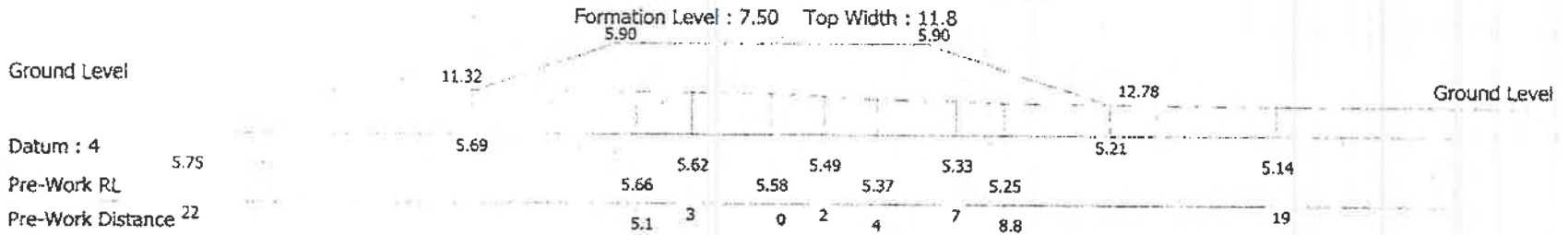
**Construction of 2 Lane BC Road for Mirsarai EZ (Ch. km 0+000 to km8+000)**

Division : CHITTAGONG District : CHITTAGONG Upazila : MIRSHARAI Project : NONE Road ID : 41553 X-Sec at CH : 8000

Remarks :

Computation Status : OK

Anisur Rahman  
 Director  
 Prime Minister's Office  
 Govt. of the Peoples Republic of Bangladesh



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দায়িত্ব দেবনাথ  
 সুপারভাইজার  
 বাবদুলক (এস জি আই এল ও গবেষণা)

Legend

Design :  
 Pre-Work :  
 Grd. Level :  
 Cross Line :  
 V-Line:1 Div=2.5m, H-Line:1 Div=3.3m



Design		Pre-Work	
Design Height	: 1.92 m	Pre-Work X-Sec. Area	: 35.86 sqm
Soil Type	: Clay & Silty	Design X-Sec. Area	: 71.57 sqm
Design Turfing Lenth	: 12.97 m	Net Design Area	: 35.71 sqm
Design Right Slope(V-H)	: 1:3		
Design Left Slope(V-H)	: 1:3		

মোঃ গোলাম মোহাম্মদ  
 উপ-সুপারভাইজার (সি. এ. এ.)  
 সিলভার ইঞ্জিনিয়ারিং বিভাগ  
 চিত্তাগঞ্জ জেলা প্রকৌশল অফিস



Scheme Code : 41553-11-0020  
Financial Year : 2011-2012

### PRE-WORK VS. DESIGN SURVEY

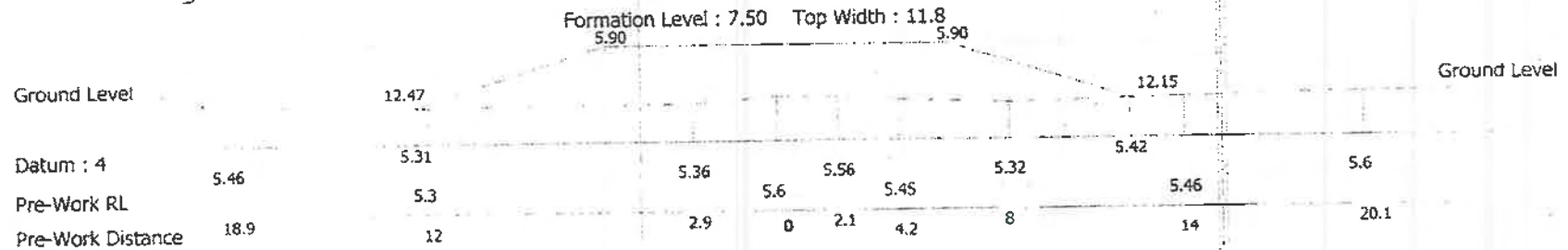
#### Construction of 2 Lane BC Road for Mirsarai EZ (Ch. km 0+000 to km8+000)

Division : CHITTAGONG District : CHITTAGONG Upazila : MIRSHARAI Project : NONE Road ID : 41553 X-Sec at CH : 7000

Remarks :

Computation Status : OK

*Anisur Rahman*  
Director  
Prime Minister's Office  
Govt. of the Peoples Republic of Bangladesh



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*সমানন্দ দেবনাথ*  
সুপারভাইজার  
ব্যবস্থাপক (এম.জি.ই এস ও গবেষণা)

Legend		Design	Pre-Work
Design	:	Design Height : 1.9 m	Pre-Work X-Sec. Area : 34.44 sqm
Pre-Work	:	Soil Type : Clay & Silty	Design X-Sec. Area : 72.48 sqm
Grd. Level	:	Design Turfing Lenth : 13.51 m	Net Design Area : 38.04 sqm
Cross Line	:	Design Right Slope(V-H) : 1:3	
V-Line	:	Design Left Slope(V-H) : 1:3	

*৭/১০/১৬*  
স্বা. সৌ. মন্ত্রণালয়  
উপ-স্বা. (সি. মাস)  
সি. মাস ও সিসি বিভাগ  
১০৭, গণিতকলা মহলায়



**PRE-WORK VS. DESIGN SURVEY**

**Construction of 2 Lane BC Road for Mirsarai EZ (Ch. km 0+000 to km8+000)**

Division : CHITTAGONG District : CHITTAGONG Upazila : MIRSHARAI Project : NONE Road ID : 41553 X-Sec at CH : 6000

Remarks :

Computation Status : OK

Anisur Rahman  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

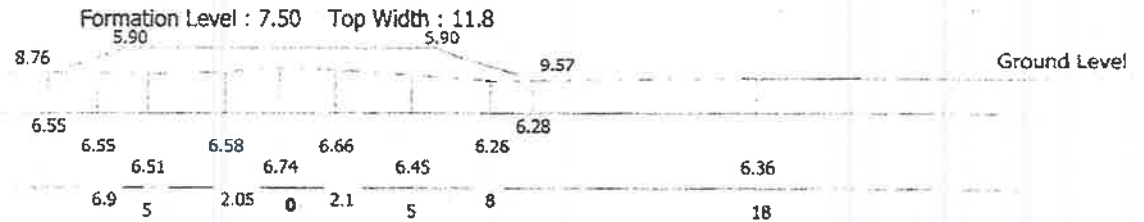
117

Ground Level

Datum : 5

Pre-Work RL 6.51

Pre-Work Distance 24



*Alim*  
 দায়নন্দ দেবনাথ  
 কৃষকসচিব  
 বাবদায়ক (এস আই এস ও গবেষণা)  
 Design

Legend

Pre-Work :

Grd. Level :

Cross Line

V-Line: Div=2.5m H-Line: Div=2.5m



Design

Design Height : 0.76 m

Soil Type : Clay & Silty

Design Turfing Lenth : 6.88 m

Design Right Slope(V-H) : 1:3

Design Left Slope(V-H) : 1:3

Pre-Work

Pre-Work X-Sec. Area : 27.89 sqm

Design X-Sec. Area : 42.23 sqm

Net Design Area : 14.34 sqm

*Rahman*  
 জেএম গোলাপ মোহাম্মদ  
 উপ-প্রকল্প (সি. দাঃ)  
 সিল্প ও শক্তি বিভাগ  
 সিসি পরিচালনা মহাপদক



Scheme Code : 41553-11-0020  
 Financial Year : 2011-2012

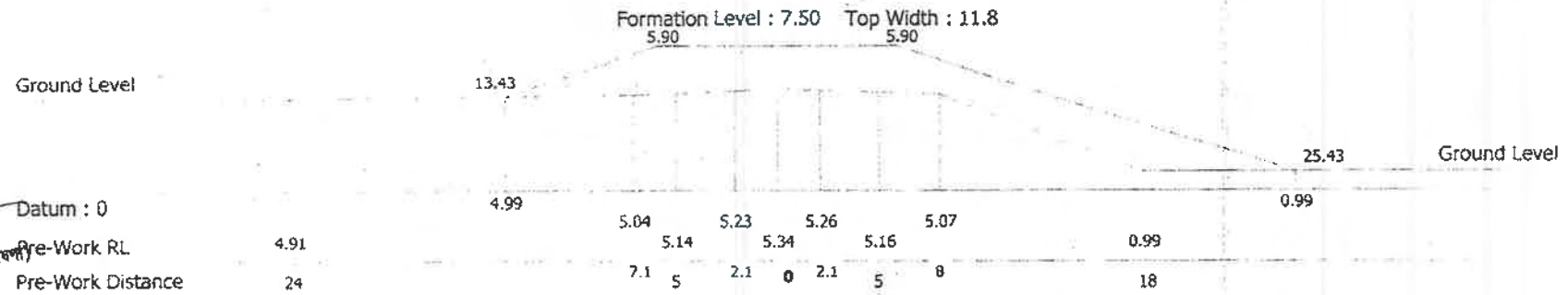
### PRE-WORK VS. DESIGN SURVEY

#### Construction of 2 Lane BC Road for Mirsarai EZ (Ch. km 0+000 to km8+000)

Division : CHITTAGONG District : CHITTAGONG Upazila : MIRSHARAI Project : NONE Road ID : 41553 X-Sec at CH : 5000

Remarks :

Computation Status : OK



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 দায়িত্ব দেবনাথ  
 সুফিসরিব  
 ব্যবস্থাপক (এম আই এল ও গবেষণা)

Legend	Design	Pre-Work
Design :	Design Height : 2.16 m	Pre-Work X-Sec. Area : 147.81 sqm
Pre-Work :	Soil Type : Clay & Silty	Design X-Sec. Area : 218.43 sqm
Grd. Level :	Design Turfing Lenth : 28.52 m	Net Design Area : 70.62 sqm
Cross Line :	Design Right Slope(V-H) : 1:3	
V-Line:1 Div=3.0m, H-Line:1 Div=3.0m	Design Left Slope(V-H) : 1:3	

*(Signature)*  
 সিনিয়র ইঞ্জিনিয়ার (সি. ডি. ডি.)  
 সিল্প ও সড়ক বিভাগ  
 পরিষ্কার কার্যালয়, পরিষ্কার মহল্লা

Scheme Code : 41553-11-0020  
 Financial Year : 2011-2012

**PRE-WORK VS. DESIGN SURVEY**

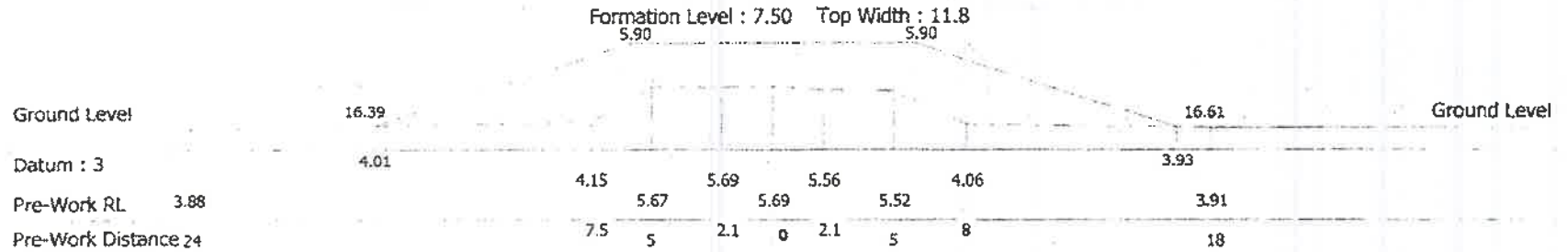
**Construction of 2 Lane BC Road for Mirsarai EZ (Ch. km 0+000 to km8+000)**

Division : CHITTAGONG District : CHITTAGONG Upazila : MIRSHARAI Project : NONE Road ID : 41553 X-Sec at CH : 4000

Remarks :

Computation Status : OK

Anisur Rahman  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh



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**Legend**

	Design	Pre-Work
Design Height	: 1.81 m	Pre-Work X-Sec. Area : 54.61 sqm
Soil Type	: Clay & Silty	Design X-Sec. Area : 111.08 sqm
Design Turfing Lenth	: 22.34 m	Net Design Area : 56.47 sqm
Design Right Slope(V-H)	: 1:3	
Design Left Slope(V-H)	: 1:3	

Anisur Rahman  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

Design :  
 Pre-Work :

Grd. Level :  
 Cross Line :

V-Line:1 Div=2.5m, H-Line:1 Div=2.5m



Anisur Rahman  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

Scheme Code : 41553-11-0020  
 Financial Year : 2011-2012

**PRE-WORK VS. DESIGN SURVEY**

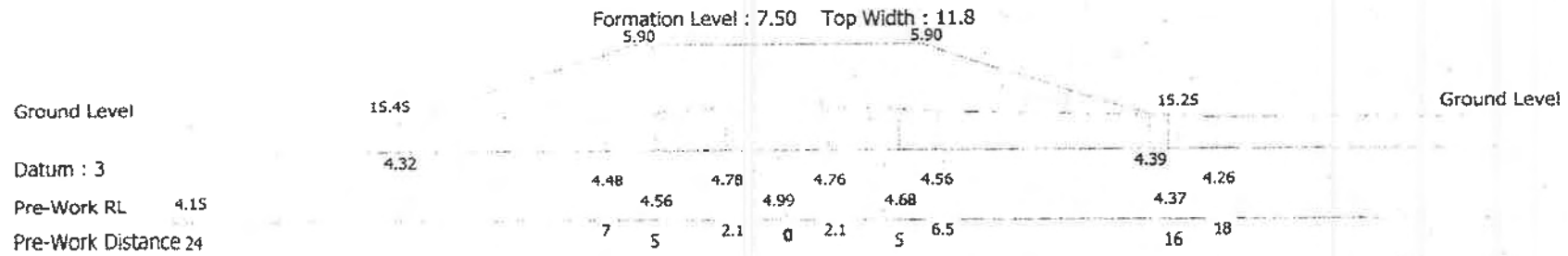
**Construction of 2 Lane BC Road for Mirsarai EZ (Ch. km 0+000 to km8+000)**

Division : CHITTAGONG District : CHITTAGONG Upazila : MIRSHARAI Project : NONE Road ID : 41553 X-Sec at CH : 3000

Remarks :

Computation Status : OK

*Anisur Rahman*  
**Anisur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh



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*দয়ানন্দ দেবনাথ*  
 যুগ্মসচিব  
 ব্যবস্থাপক (এম আই এস ও গবেষণা)  
 Legend

	Design	Pre-Work
Design :	Design Height : 2.51 m	Pre-Work X-Sec. Area : 47.93 sqm
Pre-Work :	Soil Type : Clay & Silty	Design X-Sec. Area : 108.43 sqm
Grd. Level :	Design Turfing Lenth : 19.92 m	Net Design Area : 60.50 sqm
Cross Line :	Design Right Slope(V-H) : 1:3	
V-Line:1 Div=2.5m, H-Line:1 Div=2.5m	Design Left Slope(V-H) : 1:3	

*৯২০৪৬*  
 প্রকল্প পরিচালক  
 উপ-প্রকল্প (সি: সা:)  
 শিল্প ও শক্তি বিভাগ  
 পরিকল্পনা কমিশন, পরিকল্পনা মন্ত্রণালয়

Scheme Code : 41553-11-0020  
 Financial Year : 2011-2012

### PRE-WORK VS. DESIGN SURVEY

#### Construction of 2 Lane BC Road for Mirsarai EZ (Ch. km 0+000 to km8+000)

Division : CHITTAGONG District : CHITTAGONG Upazila : MIRSHARAI Project : NONE Road ID : 41553 X-Sec at CH : 2000

Remarks :

Computation Status : OK

Arisur Rahman  
 Director  
 Prime Minister's Office  
 Govt. of the Peoples Republic of Bangladesh

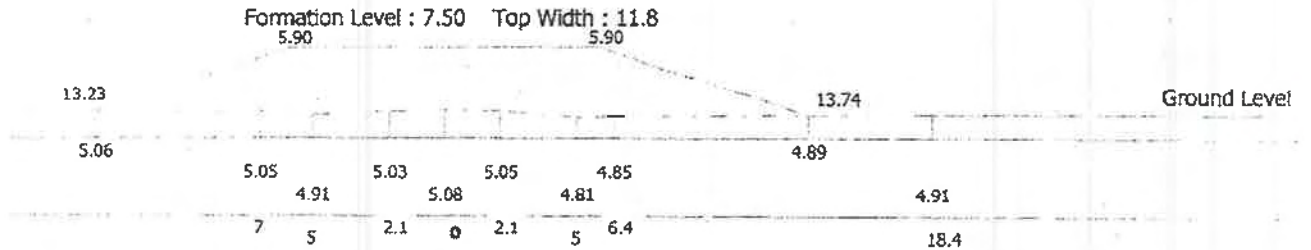
121

Ground Level

Datum : 4

Pre-Work RL 5.07

Pre-Work Distance 24



দায়িত্ব দেবনাথ  
 মুদ্রাসচিব  
 কার্যক্রম (এম ডি এস ও গবেষণা)

Legend

Design :  
 Pre-Work :

Grd. Level :  
 Cross Line :

V-Line:1 Div=2.5m, H-Line:1 Div=2.5m

Design	Pre-Work
Design Height : 2.42 m	Pre-Work X-Sec. Area : 26.04 sqm
Soil Type : Clay & Silty	Design X-Sec. Area : 75.22 sqm
Design Turfing Lenth : 15.99 m	Net Design Area : 49.18 sqm
Design Right Slope(V-H) : 1:3	
Design Left Slope(V-H) : 1:3	



মোঃ মোস্তাফিজ মোস্তাফিজ  
 উপ-সহকারী (সি. সা.)  
 বিদ্যুৎ ও গতি বিভাগ  
 গণপ্রজাতন্ত্রী বাংলাদেশ, গাজীপুরা নগরসভা

**Construction of 2 Lane BC Road for Mirsarai EZ (Ch. km 0+000 to km8+000)**

Division : CHITTAGONG District : CHITTAGONG Upazila : MIRSHARAI Project : NONE Road ID : 41553 X-Sec at CH : 0

Remarks :

Computation Status : OK



*Anisur Rahman*  
**Anisur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

১১

Ground Level

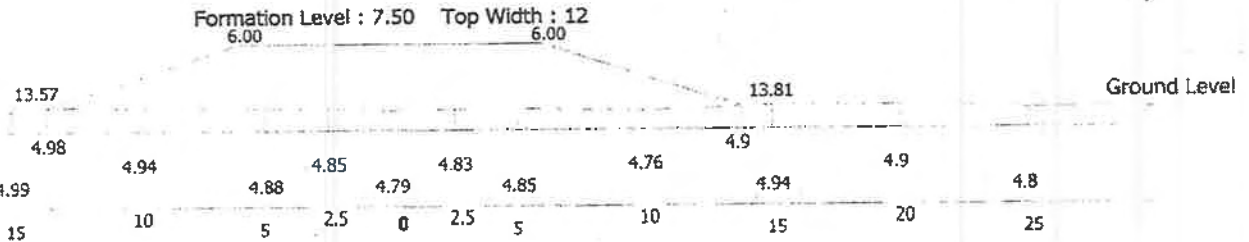
Datum : 4

Pre-Work RL 5.21

Pre-Work Distance 25

5.08

20



Ground Level

*দয়ানন্দ দেবনাথ*  
 মুগলচিৎর  
 ব্যবস্থাপক (এম আই এস ও গবেষণা)

**Legend**

Design :  
 Pre-Work :

Grd. Level :  
 Cross Line :

V-Line:1 Div=2.6m, H-Line:1 Div=2.6m

**Design**

Design Height : 2.71 m  
 Soil Type : Clay & Silty  
 Design Turfing Lenth : 16.21 m  
 Design Right Slope(V-H) : 1:3  
 Design Left Slope(V-H) : 1:3

**Pre-Work**

Pre-Work X-Sec. Area : 23.50 sqm  
 Design X-Sec. Area : 76.14 sqm  
 Net Design Area : 52.64 sqm

*Prasanna*  
 প্রসন্ন  
 প্রকল্প পরিচালক (সি. এ. এ.)  
 জি. ও. সার্ভিস বিভাগ  
 গণিতকলা কলিন্দ, গণিতকলা মহাবিদ্যালয়

Scheme Code : 41553-11-0020  
 Financial Year : 2011-2012

### PRE-WORK VS. DESIGN SURVEY

#### Construction of 2 Lane BC Road for Mirsarai EZ (Ch. km 0+000 to km8+000)

Division : CHITTAGONG District : CHITTAGONG Upazila : MIRSHARAI Project : NONE Road ID : 41553 X-Sec at CH : 1000

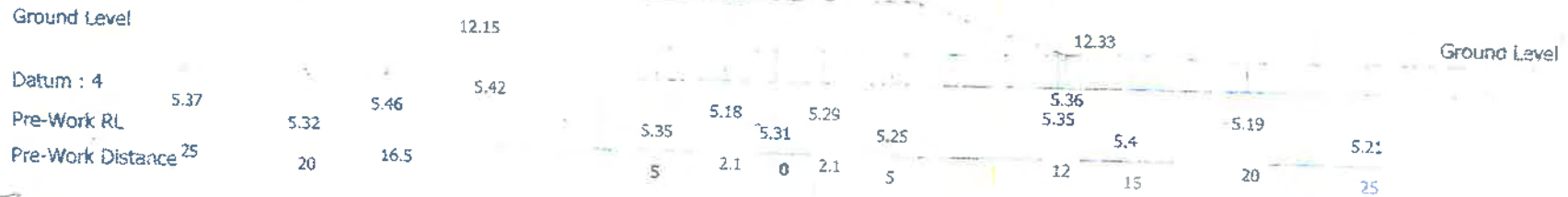
Remarks :

Computation Status : OK

123

*Anisur Rahman*  
**Anisur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

Formation Level : 7.50 Top Width : 11.8  
 5.90 5.90



*Diya*  
 দিয়া দেবনাথ  
 প্রোগ্রামার  
 কারওয়ান (এস আই এস ও গারেলনা)

**Legend**

Design :  
 Pre-Work :  
 Grd. Level :  
 Cross Line :  
 V-Line:1 Div=2.6m, V-Line:1 Div=2.6m

**Design**

Design Height : 2.19 m  
 Soil Type : Clay & Silty  
 Design Turfing Lenth : 13.36 m  
 Design Right Slope(V-H) : 1:3  
 Design Left Slope(V-H) : 1:3

**Pre-Work**

Pre-Work X-Sec. Area : 32.15 sqm  
 Design X-Sec. Area : 72.30 sqm  
 Net Design Area : 40.15 sqm

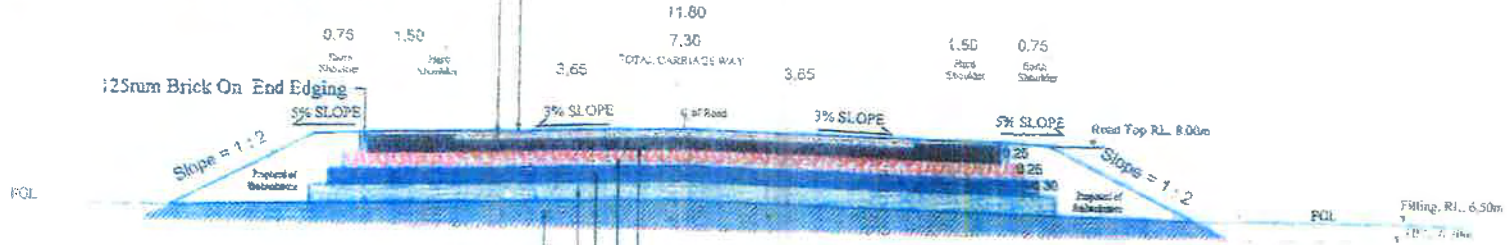


*Anisur Rahman*  
 CHS (CHITTAGONG) DISTRICT ENGINEER  
 Mirsarai (Ch. 0+000 to 8+000)  
 Mirsarai, Chittagong District, Bangladesh



*Anisur Rahman*  
**Anisur Rahman**  
 Director  
 Prime Minister's Office  
 People's Republic of Bangladesh

Thin Bituminous Surfacing Wearing Course- Thickness 40 mm  
 Dense Bituminous Surfacing Base Course-Thickness-80 mm



- Base Type-I-200 mm thickness, Minimum CBR- 80%
- Base Type-II- 250 mm thickness, Minimum CBR 50%
- Sub-base - 250 mm thickness, Minimum CBR 25%
- Improved Subgrade-300 mm thickness, Minimum CBR 10%
- Subgrade Preparation-300 mm thickness, Minimum CBR 5%

**TYPICAL CROSS SECTION OF BC ROAD PAVEMENT**  
 PACKAGE NO. WD -

**Design Data Consideration:**

- Design Speed=40 km/h
- Design Analysis Period=20 Years
- Maximum Performance Period=10 Years

**NOTE:-** 20mm Overlay After Every 5-6 Years of Wearing Coarse.

১২৭  
 দয়ানন্দ দেবনাথ  
 যুগ্মসচিব  
 (এস ও গবেষণা)

NO	REVISION		DATE	SCALE
	NO	DESCRIPTION		
01				
02				
03				
04				
05				
06				

*Anisur Rahman*  
 সিনিয়র প্রকৌশলী  
 (সি.এস.ই.)  
 সিল ও সীল বিভাগ  
 পরিষ্কার কার্যালয়, পরিষ্কার মহলা



# BOQ & ESTIMATE

Construction of 4 Lane Access Road for Mirsarai EZ.

Total Length : 4.00Km

Cost : BDT. BDT. 83,23,32,465.32

*Diya*  
নামিকা চেম্বার্স  
প্রিন্সিপাল  
কলকাতা (১০১ পল্লী লেন ও মালদা)

*A.R. Rahman*  
Anisur Rahman  
Director  
Prime Minister's Office  
Govt. of the People's Republic of Bangladesh

*Rashed*  
Chief Engineer (C.E. III)  
Road & Water Development  
Department, Dhaka  
১০০০  
১০০০



*Anisur Rahman*  
**Anisur Rahman**  
 Director  
 Prime Minister's Office  
 People's Republic of Bangladesh



**BILL OF QUANTITY (BOQ)**

Name of Work : Construction of 4 Lane BC Road for Mirsarai EZ. (4.00KM)  
 Contractor Name :  
 Package No : BEZA WD-  
 Total Contract amount :  
 Date of Agreement :  
 Date of Completion :

Item No	Item Code	Description of Work	Unit	Total Quantity	Rate (Taka)	Amount In (Tk)
1	[PWD-2.1.1]	Providing Layout and carry over Bench Mark (BM) at site from nearby BM pillar, demarcating property lines, existing ground level (EGL), formation ground level (FGL), highest flood level (HFL), plinth level (PL). Setting and marking all pillars, markers.	Sqm	116,000.00	15.00	1,740,000.00
2	[RHD-2/1/01]	Clearing and grubbing by removal and disposal of everything above ground level including overhanging branches, removing of all foundation stumps, embedded logs, tree roots and other material either to a depth of 0.3m below the proposed surface elevation or to the level as shown on the drawing, disposing of all materials resulting from clearing and grubbing at a safe distance, etc. all complete as per direction of the E-1-C.	Sqm	124,280.00	55.00	6,835,400.00
3	RHD-2/6/02	Earth filling work. (Filling in embankment, ditches, widening at intersection & curves.) Contractors Arranged Land.	Cum	900,718.68	397.00	198,785,315.96
4	[RHD-2/8/01]	Improved Subgrade (Sand F.M > 0.80)	Cum	25,732.05	1,099.00	28,279,522.95
5	[RHD-03/02/01 (a)]	Sub-Base (Sand F.M > 1.0 and Brick Khoo < 40 mm)	Cum	20,943.39	5,174.00	108,361,022.25
6	[RHD_03/03/02a]	Aggregate base type-II	Cum	20,443.38	5,662.00	115,750,389.25
7	[RHD-03/03/01a]	Aggregate base type-I	Cum	15,954.70	8,273.00	131,993,233.10
8	[RHD-03/06/1a]	Bituminous Prime Coat (Plant Placed)	Sqm	61,773.50	113.00	6,980,405.50
9	[RHD-03/07/1a]	Bituminous Tack Coat (Plant Work)	Sqm	61,773.50	50.00	3,088,675.00
10	[RHD-03/10/1 (b)]	80 mm Dense Bituminous Surfacing-Base Course (Plant Method) Bitumen Grade 60/70 (Coarse Sand F.M > 2.5, Crushed boulder/gravel aggregate < 25 mm etc.	Cum	4,941.88	22,133.00	109,376,630.04
11	[RHD_03/10/02 (b)]	40 mm Dense bituminous surfacing wearing course (Plan method) Bitumen Grade 60/70	Cum	2,470.94	23,295.00	57,560,547.30
12	[RHD-3/13/01 (a)]	125 mm Thick Brick on End Edging (1st Class)	Lin. M	8,750.00	189.00	1,653,750.00

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*সুজান*  
 সন্মানন্দ দেবনাথ  
 মুগ্ধসচিব  
 ব্যবস্থাপক (এম আই এল ও গবেষণা)


*R*

*বৃষ্ণক*  
 মোঃ গোলাম মোহাম্মদ  
 উপ-প্রধান (সি. দাঃ)  
 শিল্প ও নগর বিভাগ  
 পরিকল্পনা কমিশন, গভর্নমেন্ট মন্ত্রণালয়

Item No	Item Code	Description of Work	Unit	Total Quantity	Rate (Taka)	Amount In (Tk)
13	[RHD-6/15/01]	Concrete Guide post at different chainage (1.60 m long, 200 mm dia)	No.	885.00	2,322.00	2,054,970.00
14	[RHD-6/5/01]	Reco Marking (Thermoplastic Material (indicate if screed or by spray))	Sqm	3,712.50	1,114.00	4,135,725.00
15	LGED-3.09.5.3	Manufacturing and supplying Plain Cement Concrete (PCC) Blocks with cement conforming to BDS EN 197-1 : 2003 CEM-II/A-M 42.5N, using steel shutter, with 40mm down graded Stone Shingles, sand (FM>=1.5) and minimum cement content relates to mix ratio 1:3:6 satisfying specified minimum compressive strength 10.0Mpa at 28 days, including grading, washings shingles, mixing in standard mixture machine, casting in forms, making shutter water-tight property, compacting by vibrator machine and curing for at least 28 days, including preparation of platform, shuttering and stacking in measurable stacks etc. all complete in all respect as per approved drawing, specification and direction of the Engineer-in-charge. PCC Block Size: 1000mmX450mmX100mm	Each	8,000.00	528.78	4,230,240.00
16	LGED-3.09.1.2	Labour charge for picking up the existing CC Block L:1000mmXH:450mmXW:100mm on Divider, including staking the materials at a specified distance, etc. all complete as per direction of the E-1-C.	M	8,000.00	92.25	738,000.00
17	[RHD-6/7/02]	Creating turf on the side slopes and top of embankment with good quality turf not less than 225 mm square chunk, watering till the grass grown including all leads and lifts etc. complete as per direction of Engineer in charge.	Sqm	115,655.00	42.00	4,857,510.00
18	RHD-06/17/01(a)	RCC Palsiding (4m Post, 200mm X 200mm)	Lin. M	176.86	10,171.00	1,796,782.42
19	[RHD-06/16/01]	Concrete Kilometer Post	No.	4.00	8,925.00	35,300.00
20	[RHD-06/10/01]	Traffic Signs	Number	21.00	5,651.00	118,671.00
21	[RHD-06/10/02]	Sign Post	Number	21.00	3,140.00	65,940.00
22		Street Lighting	Ls	1.00	41,600,000.00	41,600,000.00
23	LGED-4.01.05.02	Maintenance, Staffing, Security and Cleaning of the Field Office for the Engineer	Ls	1.00	592,435.55	592,435.55
24	EV	Implementation of Environmental Management Plan	Ls	1.00	1,500,000.00	1,700,000.00
<b>Total is Tk</b>						<b>832,332,465.32</b>


Cost Per KM : 208,083,116.33

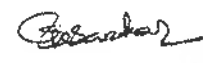
127  
 Minsur Rahman  
 Director's Office  
 People's Republic of Bangladesh


  
 মিনসুর রহমান  
 মুগাচিবি  
 কার্যালয় (এম আই এস ও গবেষণা)





  
 মোঃ গোলাম মোহিনুদ্দীন  
 উপ-প্রধান (স: দাঃ)  
 শিল্প ও দক্ষিণ বিভাগ  
 পরিচালনা কমিশন, গরিকান্দা নগরায়ণ



  
 Dr. V.G. Hiremath  
 Team Leader  
 aarvee -BETS JV  
 TAS FOR D&S of Infrastructure Works at Minsara E  
 Bangladesh Economic Zone Authority




**Construction of 4 Lane BC Road for Mirsarai EZ.**


Ahsur Rahman  
 Director  
 Prime Minister's Office  
 Govt. of the Peoples Republic of Bangladesh

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Estimate for Construction of 4 Lane Road for Mirsarai EZ		Unit	Area	No.	Length	Width/Dia.	Height	Area/ Volume	Quantity	Remarks
Sl No.	Description of Work		m2		m	m	m	m2/m3		
1	[PVD-2.1.1] Providing Layout and carry over Bench Mark (BM) at site from nearby BM pillar, demarcating property lines,	Sqm			4,000.00	29.00		116,000.00		116,000.00
2	[RHD-2/1/01] Cleaning and grubbing	From EVCS	124,280.00					124,280.00		124,280.00
3	[RHD-2/6/02] Earth filling work. (Filling in embankment, ditches, widening at intersection & curves.) Contractors Arranged Land.	From EVCS	589,365.00					589,365.00		
		Divider Deduction ISG to 40 mm W course			4,000.00	1.30	0.350	1,620.00	(90,466.32)	500,718.68
4	[RHD-2/8/01] Improved Subgrade (Sand F.M >0.80)	Road			4,000.00	20.60	0.300	24,720.00		
		Intersection area	3,373.50				0.300	1,012.05		25,732.05
5	[RHD-03/02/01 (a)] Sub-Base (Sand F.M >1.0 and Brck Khoo <40 mm)	Road			4,000.00	20.10	0.250	20,100.00		
		Intersection area	3,373.50				0.250	843.38		20,943.38
6	[RHD_03/03/02a] Aggregate base type-II	Road			4,000.00	19.60	0.250	19,600.00		
		Intersection area	3,373.50				0.250	843.38		20,443.38
7	[RHD-03/03/01a] Aggregate base type-I	Road			4,000.00	19.10	0.200	15,280.00		
		Intersection area	3,373.50				0.200	674.70		15,954.70
8	[RHD-03/06/1a] Bituminous Prime Coat (Plant Placed)	Road			4,000.00	14.60		58,400.00		
		Intersection area	3,373.50					3,373.50		61,773.50
9	[RHD-03/07/1a] Bituminous Tack Coat (Plant Work)	Road			4,000.00	14.60		58,400.00		
		Intersection area	3,373.50					3,373.50		61,773.50
10	[RHD-03/10/1 (b)] 80 mm Dense Bituminous Surfacing-Base Course (Plant Method) Bitumen Grade 50/70 (Course Code	Road			4,000.00	14.60	0.080	4,672.00		
		Intersection area	3,373.50				0.080	269.88		4,941.88
11	[RHD_03/10/02 (b)] 40 mm Dense bituminous surfacing wearing course (Plant Method) Bitumen Grade 50/70	Road			4,000.00	14.60	0.040	2,336.00		
		Intersection area	3,373.50				0.040	134.94		2,470.94

  
 দহানন্দ দেবনাথ  
 মুখ্যসচিব  
 ব্যবস্থাপক (এম আই এস ও গবেষণা)



  
 মোঃ গোলাম মোহাম্মদ  
 উপ-প্রোগ্রামার (সি: দাঃ)  
 শিল্প ও শক্তি বিভাগ  
 পরিকল্পনা কমিশন, পরিকল্পনা মন্ত্রণালয়

Estimate for Construction of 4 Lane Road for Mirsarai EZ										
Sl No.	Description of Work	Unit	Area	No.	Length	Width/Dia.	Height	Area/ Volume	Quantity	Remarks
			m2		m	m	m	m2/m3		
12	[RHD-3/12/01 (a)] 125 mm Thick Brick on End Edging (1st Class)	Road Line Intersection area Metre		2.00	4,000.00			8,000.00		
					750.00			750.00	8,750.00	
13	[RHD-6/15/01] Concrete Guide post at different chainage (1.60 m long, 200 mm dia)	Intersection area Nos		3.00	145.00			435.00		
				2.00	225.00			450.00		
									885.00	
14	[RHD-6/5/01] Road Marking (Thermoplastic Material (Indicate if screed or by spray)	Road Line Intersection area Sqm		6.00	4,000.00	0.150		3,600.00		
					750.00	0.150		112.50	3,712.50	
15	Manufacturing and supplying Plain Cement Concrete (PCC) Blocks with cement	Each		2.00	4000.00			8,000.00		
									8,000.00	
16	Labour charge for picking up the existing CC Block L:1000mmXH:450mmXT:100mm on	m		2.00	4000.00			8,000.00		
									8,000.00	
17	[RHD-6/7/02] Creating turf on the side slopes and top of embankment with good	Top & Slope Divider Sqm	110,455.00		4,000.00	1.30		110,455.00	5,209.00	115,655.00
18	RHD-06/17/01(a) RCC Palisading (4m Post, 200mm X 200mm)	Lin M	1.00	16.32				16.32		
			1.00	27.80				27.80		
			1.00	58.60				58.60		
			1.00	44.74				44.74		
			1.00	29.20				29.20		
									176.56	

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**Anisur Rahman**  
Prime Minister's Office  
Govt. of the People's Republic of Bangladesh

*Anisur Rahman*  
দয়ানন্দ দেবনাথ  
স্বাক্ষরিত  
ব্যবস্থাপক (এম এম ই এস ও গবেষণা)

*[Signature]*

*[Signature]*  
মোঃ গোলাম মোহাম্মদ  
উপ-প্রধান (সি: পি:সি)  
সিভিল ও সার্ভি বিভাগ  
সড়ক ও জনন পরিবহন মন্ত্রণালয়



Director  
Ahisur Rahman



Estimate for Construction of 4 Lane Road for Mirsaral EZ		Unit	Area	No.	Length	Width/Dia.	Height	Area/ Volume	Quantity	Remarks
SI No.	Description of Work		m <sup>2</sup>		m	m	m	m <sup>2</sup> /m <sup>3</sup>		
19	(RHD-06/16/01) Concrete Kilometer Post	Road Intersection Nos		4.00				4.00	4.00	
20	(RHD-06/10/01) Traffic Signs	Road Intersection Nos		15.00 6.00				15.00 6.00	21.00	
21	(RHD-06/10/02) Sign Post	Road Intersection Road Curve Nos		15.00 6.00				15.00 6.00	21.00	
22	Street Lighting	LS						1.00	1.00	
23	Maintenance, Staffing, Security and Cleaning of the Field Office for the Engineer	LS						1.00	1.00	
24	Environmental work as per Environmental Management Plan (EMP)	LS						1.00	1.00	

*Ahmed*  
দায়িত্ব দেবনাথ  
ইঞ্জিনিয়ার  
স্বাক্ষরক (এম আই এস ও গবেষণা)

*R*

*কবীর*  
মোঃ গোলাম মোস্তাফিজ  
উপ-স্বাক্ষর (সি: সাঃ)  
সিই ও সড়ক বিভাগ  
পরিচালনা কমিশন, পানকোলা দহরগাম

Scheme Code : 41553-11-0032 Division : CHITTAGONG District : CHITTAGONG Upazila : MIRSHARAI Project : NONE Fin-Year : 2011-2012  
 Road ID : 41553 Road Type : U2R Road Name : Construction of BC Road for Mirsarai EZ (Ch. km 0+000 to km 4+000)

Chainage To Chainage	Appl. Len (m)	Net Basic Earth Vol (cum)	Extra Earth Vol (cum)	Cutting Earth Vol (cum)	Earth Vol without cutting (cum) (C+D-E)	Total Earth Vol (cum) (E+F)	Additional Lead [Calculated on F]			Additional LIR [Calculated on F]			Hard Silty or Sandy Soil [Calculated on G]		Bailing out of Water [Calculated on F]		Profile (No)	Earth Work for Compaction (cum) Calculated on A+B			Turbing Area (sqm)			Area of Jungle Cutting, Removal of Grass	
							#	%	Vol (cum)	#	%	Vol (cum)	%	Vol (cum)	%	Vol (cum)		%	Vol (cum)	%	Clay & Silty Clay	Clay Silt & Sandy	Sand & Silty Sand		%
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
0-1000	1,000	135610.000	0.000	0.000	135,610.000	135610.000	0	0	0.000	0	0	0.000	0	0.000	0	0.000	0	0	0.000	0.000	0.000	100	4520.00	0.00	30000.00
1000-2000	1,000	172505.000	0.000	0.000	172,505.000	172505.000	0	0	0.000	0	0	0.000	0	0.000	0	0.000	0	0	0.000	0.000	0.000	100	0090.00	0.00	29000.00
2000-3000	1,000	147505.000	0.000	0.000	147,505.000	147505.000	0	0	0.000	0	0	0.000	0	0.000	0	0.000	0	0	0.000	0.000	0.000	100	2840.00	0.00	33250.00
3000-4000	1,000	133765.000	0.000	0.000	133,765.000	133765.000	0	0	0.000	0	0	0.000	0	0.000	0	0.000	0	0	0.000	0.000	0.000	100	17055.00	0.00	32000.00
TOTAL	4000	589385.000	0.000	0.000	589,385.000	589385.000	0	0	0.000	0	0	0.000	0	0.000	0	0.000	0	0	0.000	0.000	0.000	100	10455.00	0.00	124200.00

Computation Status : OK

110455.00

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*Rajya*  
 দমানন্দ দেবনাথ  
 যুগ্মসচিব  
 ব্যবস্থাপক (এম এম ও গবেষণা)

*Rajya*  
 মোঃ গোলাম মোহাম্মদ  
 উপ-প্রকায় (সে. দাঃ)  
 সিল্প ও শক্তি বিভাগ  
 পাবনা ক্যান্টন, পরিকল্পনা মন্ত্রণালয়

Anisur Rahman  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh





Scheme Code : 41553-11-0032  
 Financial Year : 2011-2012

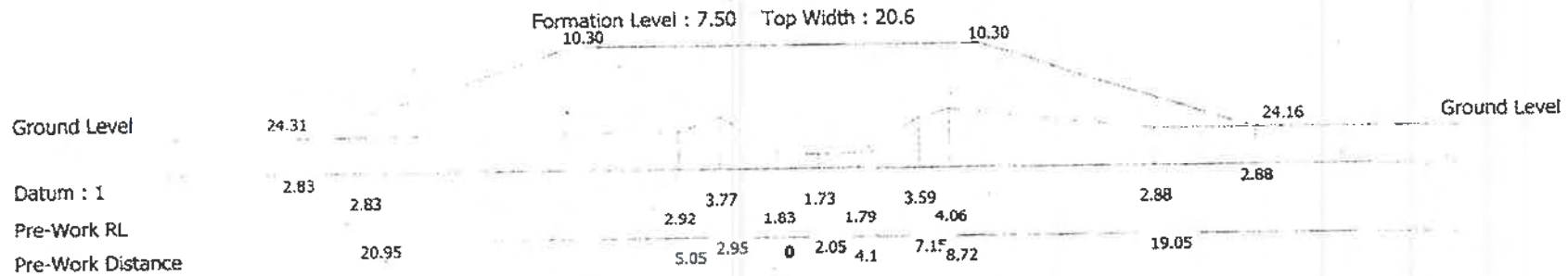
### PRE-WORK VS. DESIGN SURVEY

#### Construction of BC Road for Mirsarai EZ (Ch. km 0+000 to km 4+000)

Division : CHITTAGONG District : CHITTAGONG Upazila : MIRSHARAI Project : NONE Road ID : 41553 X-Sec at CH : 2000

Remarks :

Computation Status : OK



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Signature: *[Signature]*  
 দায়ানন্দ দেবনাথ  
 মুখ্যসচিব  
 ব্যবস্থাপক (এম আই এস ও গবেষণা)

Legend  
 Design :  
 Pre-Work :  
 Grd. Level :  
 Cross Line :  
 V-Line:1 Div=3.1m, H-Line:1 Div=3.1m

	Design	Pre-Work
Design Height	: 5.67 m	Pre-Work X-Sec. Area : 94.06 sqm
Soil Type	: Clay & Silty	Design X-Sec. Area : 250.33 sqm
Design Turfing Lenth	: 29.38 m	Net Design Area : 156.27 sqm
Design Right Slope(V-H)	: 1:3	
Design Left Slope(V-H)	: 1:3	

Signature: *[Signature]*  
 মোঃ মোস্তাফিজুর রহমান  
 উপ-প্রকল্প (সি. পি. ডি.)  
 শিল্প ও শক্তি বিভাগ  
 পল্লিকরনা কার্যালয়, পল্লিকরনা মহাসড়ক



Scheme Code : 41553-11-0032  
 Financial Year : 2011-2012

### PRE-WORK VS. DESIGN SURVEY

#### Construction of BC Road for Mirsarai EZ (Ch. km 0+000 to km 4+000)

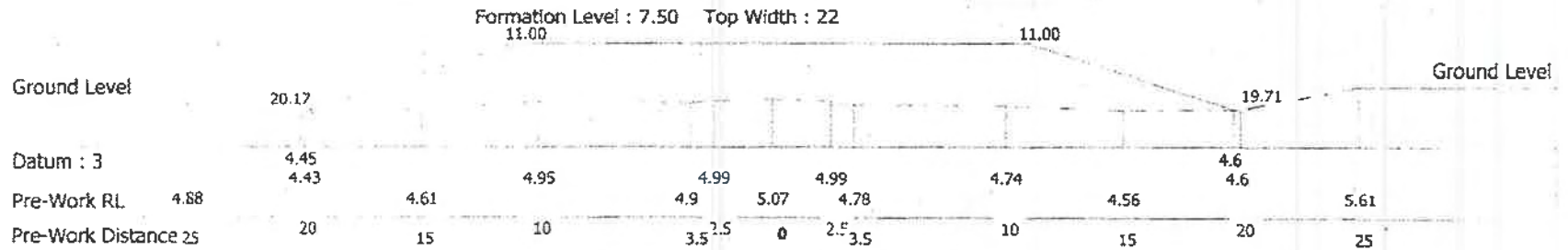
Division : CHITTAGONG District : CHITTAGONG Upazila : MIRSHARAI Project : NONE Road ID : 41553 X-Sec at CH : 0

Remarks :

Computation Status : OK

Anisur Rahman  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

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Legend

Design :  
 Pre-Work :

Grd. Level :  
 Cross Line :

V-Line: Div=2.6m, H-Line:1 Div=2.6m

Design

Design Height : 2.43 m  
 Soil Type : Clay & Silty  
 Design Turfing Lenth : 18.84 m  
 Design Right Slope(V-H) : 1:3  
 Design Left Slope(V-H) : 1:3

Pre-Work

Pre-Work X-Sec. Area : 70.37 sqm  
 Design X-Sec. Area : 152.85 sqm  
 Net Design Area : 82.48 sqm



মোঃ গোলাম মোহাম্মদ  
 উপ-প্রধান (সঃ সঃ)  
 শিল্প ও সড়ক বিভাগ  
 পরিবহন অধিদপ্তর, পদ্মা নদী সড়ক প্রকল্প

Schermge Code : 41553-11-0032  
 Financial Year : 2011-2012

**PRE-WORK VS. DESIGN SURVEY**

**Construction of BC Road for Mirsarai EZ (Ch. km 0+000 to km 4+000)**

Division : CHITTAGONG District : CHITTAGONG Upazila : MIRSHARAI Project : NONE Road ID : 41553 X-Sec at CH : 1000

Remarks :

Computation Status : OK

*Ahissur Rahman*  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh



Obstruction at : 7.00m

Formation Level : 7.50 Top Width : 25.3  
 -7.94

33.24

Ground Level

Ground Level

Datum : 1

Pre-Work RL

Pre-Work Distance

2.52	2.52	2.72	2.13	2.86	
	3.13	2.05	3.1		2.74
7	5	2.1	0 2.1	5	8.2
					18

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*দেবনাথ*  
 দেবনাথ দেবনাথ  
 যুগ্মসচিব  
 ব্যবস্থাপক (এম জিই এস ও গবেষণা)

Legend

Design :  
 Pre-Work :  
 Grd. Level :  
 Cross Line :  
 V-Line:1 Div=3.4m, H-Line:1 Div=3.4m

Design

Pre-Work

Design Height	: 5.45 m	Pre-Work X-Sec. Area	: 94.45 sqm
Soil Type	: Clay & Silty	Design X-Sec. Area	: 283.19 sqm
Design Turfing Lenth	: 30.80 m	Net Design Area	: 188.74 sqm
Design Right Slope(V-H)	: 1:3		
Design Left Slope(V-H)	: 1:3		

*১৩/১০/১৬*  
 মোঃ গোলাম মোস্তাফিজ  
 উপ-প্রধান (স: সঃ)  
 পিআই ও সড়ক বিভাগ  
 পরিষ্কার কমিশন, পরিষ্কারা বহনকার

Scheme Code : 41553-11-0032  
 Financial Year : 2011-2012

### PRE-WORK VS. DESIGN SURVEY

#### Construction of BC Road for Mirsarai EZ (Ch. km 0+000 to km 4+000)

Division : CHITTAGONG District : CHITTAGONG Upazila : MIRSHARAI Project : NONE Road ID : 41553 X-Sec at CH : 3000

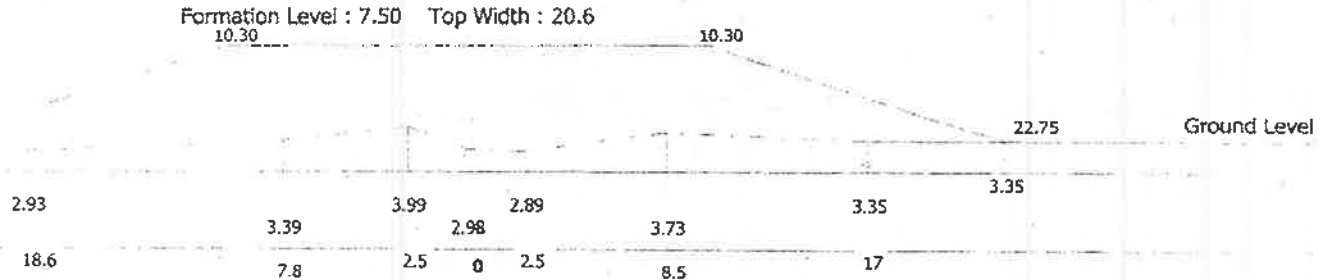
Remarks :

Computation Status : OK

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Anisur Rahman  
 Director  
 Prime Minister's Office  
 Govt. of the Peoples Republic of Bangladesh

Ground Level : 24.01  
 Datum : 2 : 2.93  
 Pre-Work RL : 2.93  
 Pre-Work Distance : 18.6



দেবনাথ  
 ইঞ্জিনিয়ার  
 (এম জি এই এস ও গবেষণা)

Legend

Design :  
 Pre-Work :

Design  
 Design Height : 4.52 m  
 Soil Type : Clay & Silty  
 Design Turfing Lenth : 27.58 m  
 Design Right Slope(V-H) : 1:3  
 Design Left Slope(V-H) : 1:3

Pre-Work  
 Pre-Work X-Sec. Area : 61.28 sqm  
 Design X-Sec. Area : 200.02 sqm  
 Net Design Area : 138.74 sqm



মোঃ  
 উপ-প্রকৌশল (সিভিল)  
 পিও ও পলি বিভাগ  
 পরিচালক কার্যালয়, পরিচালনা নগরকার



Scheme Code : 41553-11-0032  
 Financial Year : 2011-2012

### PRE-WORK VS. DESIGN SURVEY

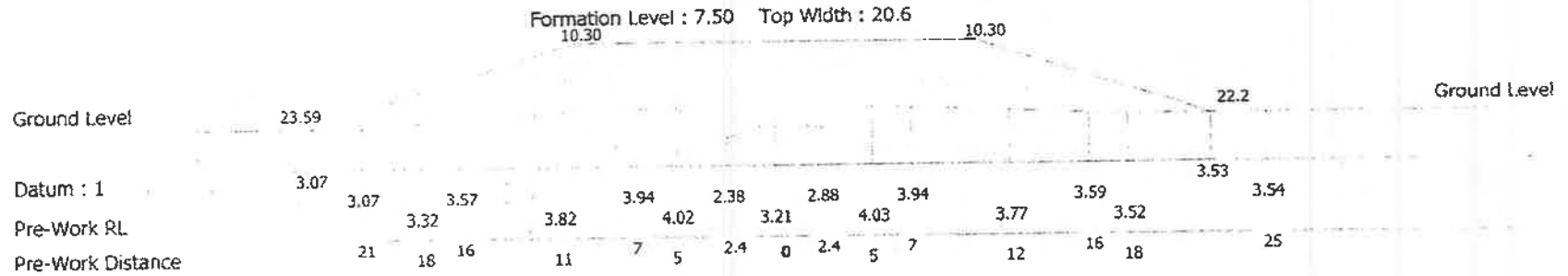
#### Construction of BC Road for Mirsarai EZ (Ch. km 0+000 to km 4+000)

Division : CHITTAGONG District : CHITTAGONG Upazila : MIRSHARAI Project : NONE Road ID : 41553 X-Sec at CH : 4000

Remarks :

Computation Status : OK

*Anisur Rahman*  
**Anisur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh



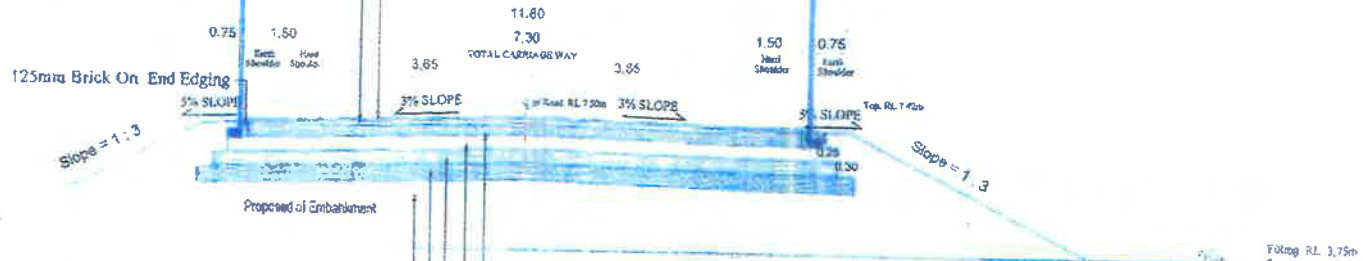
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*০০৫৭৭*  
 দায়িত্ব দেবনাথ  
 যুগ্মসচিব  
 ব্যবস্থাপক (এস আই এস ও পবেকল)

	Design	Pre-Work
Design :	Design Height : 4.29 m	Pre-Work X-Sec. Area : 115.79 sqm
Pre-Work :	Soil Type : Clay & Silty	Design X-Sec. Area : 244.58 sqm
Grd. Level :	Design Turfing Lenth : 26.55 m	Net Design Area : 128.79 sqm
Cross Line :	Design Right Slope(V-H) : 1:3	
V-Line:1 Div=3.1m, H-Line:1 Div=3.1m	Design Left Slope(V-H) : 1:3	

*[Signature]*  
 [Stamp]  
 [Text]

Dense Bituminous Surfacing Wearing Coarse- Thickness 40 mm  
 Dense Bituminous Surfacing Base Coarse-Thickness-80 mm



- Base Type-I-200 mm thickness, Minimum CBR- 80%
- Base Type-II- 250 mm thickness, Minimum CBR 50%
- Sub-base - 250 mm thickness, Minimum CBR 25%
- Improved Subgrade-300 mm thickness, Minimum CBR 10%
- Embankment Fill, Minimum CBR 5%

**TYPICAL CROSS SECTION OF BC ROAD PAVEMENT**  
 PACKAGE NO. WD -

**Design Data Consideration:**

Design Speed=40 km/h  
 Design Analysis Period=20 Years  
 Maximum Performance Period=10 Years

**NOTE:-** 20mm Overlay After Every 5-6 Years of Wearing Coarse.

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*(Signature)*  
 প্রধান নির্বাহী  
 যুগ্ম-নির্বাহী  
 ব্যবস্থাপক (এম জিই এস ও গবেষণা)

*(Signature)*  
**Anisur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

PROJECT TITLE	CLIENT	DESIGNER	APPROVED BY	DATE	SCALE	PROJECT NO.	DATE	SCALE	PROJECT NO.
Construction of 02 lane BC road	ANURVEE-BETS JV (BEZA-CS-1811)	Sl. Karm Uddin C/D Operator	Subrata Kumar Baner Offico Engineer	1:100	1:100	BEZA	10/10/2020	1:100	1:100
TYPICAL CROSS-SECTION OF BC ROAD PAVEMENT	As per 2020								



*(Signature)*  
 10/10/2020

# BOQ & ESTIMATE

Construction of 4 Lane 75.00m Long RCC Girder  
Bridge for Mirsarai EZ.

Cost : BDT. 26,41,24,174.31

*Anisur Rahman*  
Anisur Rahman  
Director  
Prime Minister's Office  
Govt. of the People's Republic of Bangladesh



*Dr. J. A. Khan*  
মন্ত্রিসভার সচিব  
স্বাক্ষরিত  
কনসার্ন (এস.সি.এ. ও সরকার)

*R. M. M. Khan*  
সিনিয়র প্রকৌশল (সি.এ.সি.)  
সি.এ.সি.ও. অফিস  
পল্লিকরমা কানন, পল্লিকরমা-১৩৪০

## BILL OF QUANTITIES (BOQ)

Name of Work : Construction of 4 Lane 75.00m Long RCC Girder Bridge for Mirsarai EZ.  
 Package No. : BEZA-WD-

SL. No.	Item Code	Description of Work	Unit	Quantity	Unit Rate (Tk.)	Total Amount (Tk.)	Remarks
a	b	c	d	e	f	g	h
1	RHD-2/1/01	Clearing and grubbing by removal and disposal of everything above ground level including overhanging branches, removing of all foundation stumps, embedded logs, tree roots and other material either to a depth of 0.3m below the proposed surface elevation or to the level as shown on the drawing, disposing of all materials resulting from clearing and grubbing at a safe distance, etc. all complete as per direction of the E-I-C.	sqm	2700.00	55.00	148,500.00	
2	RHD-02/04/02	Channel Excavation in Suitable Material	cum	4872.52	211.00	1,028,101.65	
3	RHD-04/01/1-d	Bored pile cast in place piles (dia 900 mm)	m	2997.00	12,787.00	38,322,639.00	
4	LGED-4.05.04	Making earthen ring/ cross bundh of required height and width to prevent water from entering in the working area for any type of foundation with earth arranged and carried by the contractor including bullah/bamboo palisading and double tarja mat/drum sheets walling as and where necessary, maintaining the same throughout the working period, filling by throwing earth in layers, removal of structure totally on completion of the bridge, etc. all complete as per requirement and instruction of the E-I-C.	LS	2.00	3,000,000.00	6,000,000.00	
5	RHD-6/13/1(a)	Bullah palisading (150mm-175mm)	Lin. M	320.00	10,032.00	3,210,240.00	
6	RHD-04/01/05-f	Permanent steel casing (10mm thick, 900mm dia)	m	1620.00	27,899.00	45,196,380.00	

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**Anisur Rahman**  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh



*Asma*  
 দায়ানন্দ দেবনাথ  
 মুগসুচিব  
 ব্যবস্থাপক (এম আই এস ও গবেষণা)

*R*

*Rahim*  
 মোঃ গোলাম মোহাম্মদ  
 উপ-প্রোগ্রামার (সি: দাঃ)  
 সিল্প ও সড়ক বিভাগ  
 পরিচালনা বোর্ড, পরিচালনা মহলা



*Anisur Rahman*  
**Anisur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

Sl. No.	Item Code	Description of Work	Unit	Quantity	Unit Rate (TK.)	Total Amount (TK.)	Remarks
a	b	c	d	e	f	g	h
7	LGED-4.07.23	SLT: Conducting static load test as per ASTM D 1143 or equivalent standard for the cast in situ/ pre-cast pile providing required scaffolding, bracing, jacks, pressure test gauge, loading unloading, arranging other necessary plants and equipment including staging, mobilization, demobilization, hire charge of gunny bag/ concrete block/ steel sheet, sand and filling sacs/ gunny bags for loading, record readings and preparation of results in standard forms and other incidental charges as per standard practice and procedures including submission of load test report, furnishing all graph and chart etc. complete in all respects approved and accepted by the Engineer (Minimum two cyclic loading: one at service load and another cycle at double the load of service load then to continue loading till failure of the pile). Before commencing load test, Contractor shall submit methodology along with combined calibration report for conducting load test to the E-I-C for approval. The Testing firm will be selected taking prior approval of procuring entity. The methodology of static load test and driving logs/ boring & pouring logs shall be the part of test report. Load Test and Report shall be conducted under the supervision of a professional Geotechnical Engineer registered in the Bangladesh Professional Engineers Registration Board (BPERB), Institute of Engineers Bangladesh (IEB). [Cost of Combined Calibration Test (Hydraulic Jack, pressure gauge & electric/hydraulic pump) has been included in all sub-items.]					
	LGED-4.07.23.08	Above 375 ton and up to 500 ton	Each	3.00	448,285.38	1,344,856.14	

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**দয়ানন্দ দেবনাথ**  
 মুদ্রাসচিব  
 যুবায়দার (এম আই এম ও গবেষণা)

*R*

*৭২৪৪৬*  
 সিনিয়র সৌদামিক ইঞ্জিনিয়ার  
 উপ-প্রকল্প (সি: ডাঃ)  
 সিল্প ও শক্তি বিভাগ  
 পরিচালনা কমিশন, পরিচালনা মন্ত্রণালয়



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Sl. No.	Item Code	Description of Work	Unit	Quantity	Unit Rate (Tk.)	Total Amount (Tk.)	Remarks
a	b	c	d	e	f	g	h
8	LGED-4.07.25	PIT (Pile Integrity Test): Conducting Low-Strain Impact Integrity Testing on cast-in-situ/ pre-cast piles in accordance with ASTM D 5882 (Standard Test Method for Low Strain Impact Integrity Testing of Deep Foundations) using pile integrity tester containing calibrated measuring devices like highly sensitive accelerometer, a magnification device, an amplification box, a small impact device (hammer) & a computer with ability to convert data from analog to digital form with graphical display on completion of required setting/ driving of piles. preparation of pile top by removing soil, mud, dust & chipping lean concrete lumps etc., mobilizing and demobilizing of equipment, preparation of results in standard forms and compiling final report with recommendations on the tests etc. complete in all respects approved and accepted by the E-I-C. Report should include proper presentable graph of same wave speed (m/sec), impedance reduction, interpretation of results, cross sectional or material changes (if any), length of pile, concrete quality etc. Routine test samples shall be chosen by E-I-C on random basis. Methodology for conducting PIT shall be submitted to the E-I-C for approval and shall be the part of PIT report. All pile integrity tests shall be performed and analyzed under the supervision of a professional geotechnical engineer registered in the Bangladesh Professional Engineers Registration Board (BPERB), Institute of Engineers Bangladesh (IEB).					
	LGED-4.07.26.01	PIT on 10 (ten) nos. piles or less of a single bridge	Set	6.00	21,271.25	127,627.50	
	LGED-4.07.26.02	Additional charge on Mobilization & demobilization beyond 100km of Dhaka/ nearby source to site	Per Km	208.00	43.63	9,075.04	
9	LGED-4.07.27	POA (Pile Driving Analyzer) Test: Performing high-strain dynamic testing on piles in accordance with ASTM D 4945 (Standard Method for High-Strain Dynamic Testing of Deep Foundation) to evaluate integrity of the hardened pile using pile driving analyser by impacting a weight of atleast 1.5% to 2% of required ultimate pile bearing capacity with a fall varying from 1m to 3m including preparing head, providing ply and sheet plates, fixing atleast 2 pairs of strain & acceleration sensors at diametrically opposite sides, experts, labour, mobilization, demobilization, data acquisition, CAPWAP analysis, integrity, interpolation, preparation of results in standard forms etc. complete in all respects approved and accepted by the E-I-C.					
	LGED-4.07.27.03.02	For test load above 100 MT to 300 MT	Each	2.00	169,258.38	338,516.76	
10	RHD-05/1/01	Single Layer Brick Flat Soling	sqm	897.84	507.00	455,204.88	
11	RHD-05/01/2(a)	Concrete Class as Detailed on Drawings (Class10) (Concrete Mixer)	cum	89.78	9,517.00	854,474.33	
12	RHD-05/01/03(g)	Concrete Class - 30 (Foundation) (Batching Plant)	cum	684.29	19,506.00	13,347,721.73	

Anisur Rahman  
Prime Minister's Office  
Government of the People's Republic of Bangladesh



দায়ানন্দ দেবনাথ  
যুগ্মসচিব  
স্বাধীনতা (এম এফ এস ও গবেষণা)

R

মোঃ সোদান মোহাম্মদ  
উপ-প্রধান (সি: দাঃ)  
শিল্প ও শক্তি বিভাগ  
পরিচালনা কমিশন, পরিকল্পনা মন্ত্রণালয়



*Anisur Rahman*  
**Anisur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

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SL. No.	Item Code	Description of Work	Unit	Quantity	Unit Rate (Tk.)	Total Amount (Tk.)	Remarks
a	b	c	d	e	f	g	h
13	RHD-05/01/03-h	Concrete class -30 (Vertical member col, pier, abutment/ wing wall, culvert etc) (Batching Plant)	cum	1471.79	18,383.00	27,026,539.34	
14	RHD-05/01/03-l	Concrete class - 30 (Girder, beam, cross girder, and diaphragm etc) (Batching Plant)	cum	371.94	20,952.00	7,792,855.45	
15	RHD-05/01/03(k)	Concrete class-30 (Deck slab, side walk, wheel guard, curb etc) (Batching Plant)	cum	389.75	19,506.00	7,602,454.10	
16	RHD-4/7/06	High Yield Reinforcement Bars	kg	936,531.30	93.320	87,397,100.92	
17	LGED-4.11.02	F8ECR: Extra over item code: 4.11.01 for providing Fusion Bonded Epoxy Coating (F8EC) to reinforcement bars as per ASTM A775/ BDS ISO 14654: 2013 specification for a coating thickness (after curing) of 175 to 300 microns for 10mm to 16mm and 175 to 400 microns for 20mm to 50mm re-bars including extra cost on account of careful handling during straightening, cutting, bending & placing, extra cost on account of using PVC coated binding wire instead of G.I. wire, extra cost on account of touch-up material (All cut edges/weld areas and bend locations where coating has been damaged touch up shall be done with same paint, the upper thickness limit shall not apply to repaired areas of damaged coating) supplied by coating agency and repair work, extra cost on account of transportation to and fro from steel yard to plant and plant to work site by trailer (if required), loading, unloading, flexibility & holiday testing, including all taxes, etc. complete to ensure proper resistance of FBE against corrosive environment. (Fusion Bonded Epoxy Coating to be proposed only in Coastal Area/Severe Exposure Condition with prior approval of Design Unit, LGED.)					
	LGED-4.11.02.02	For Re-bar diameter: 16mm to 50mm	Kg	300,685.82	10.470	3,148,285.24	
18	RHD-05/08/01	Expansion Joint complete as detailed on the Drawings in the location described in the BoQ.	Lin. M	78.40	13,186.00	1,033,782.40	
19	LGED-4.13.02.09	RWDP: Providing & fixing rainwater down pipes including cost of all materials, labours, equipment, transportation, fixtures, accessories etc. at any level as per specification, drawings and direction of the E-I-C. RWDP75PVC: 75mm uPVC Pipe of 2.9mm to 3.4mm wall thickness conforming to BS 3505	m	30.00	230.95	6,928.50	
20	RHD-05/13/1(b)	Neoprene rubber bearing or Elastomeric bearing supplying & fitting fixing, etc.	Number	43.00	20,030.00	861,290.00	
21	LGED-4.13.03	Bf: Back filling behind abutments, wing walls and retaining walls with selected granular material (50:50 best quality picked brick chips & sand of min. FM 1.00) of minimum 450 mm width, in layers of 150 mm thickness free from dust, impurities etc. including compaction using plate compactor, watering & dressing, supply & cost of all materials, carrying and labour, hire charge of plate compactor and other tools etc. all complete as per direction of the Engineer-In-Charge. Payment to be made for the compacted volume only for a compaction of 90% of the maximum dry density.	cum	175.01	2,406.45	421,150.31	
22		Providing and fixing of drainage of structure as per drawing	LS	1.00	500,000.00	500,000.00	
23	RHD-01/02/04	Provision, Maintenance and Removal of Sign Boards.	LS	1.00	9,042.00	9,042.00	
24	RHD-5/15/01	Concrete Guide Post (1.6 m long, 200mm dia)	no	80.00	2,322.00	185,760.00	

*Amya*  
 দায়ালদেবনাথ  
 যুগ্মসচিব  
 যবহাঙ্গক (এম আই এস ও গবেষণা)

*[Signature]*

*[Signature]*  
 সীতা সোমসিং দেবনাথ  
 উপ-প্রোগ্রামার (সি. সাই)  
 সিল্প ও খনিজ বিভাগ  
 সীতাবন্দী, কলিকাতা, পরিচালনা মহাপ্রকল্প

Sl. No.	Item Code	Description of Work	Unit	Quantity	Unit Rate (Tk.)	Total Amount (Tk.)	Remarks
a	b	c	d	e	f	g	h
25	ENV	Environmental work as per Environmental Management Plan (EMP) from Section-10.		1.00	3,000,000.00	3,000,000.00	
26	LGED-4.01.05.02	Maintenance, Staffing, Security and Cleaning of the Field Office for the Engineer	LS	1.00	2,500,000.00	2,500,000.00	
<b>Sub-Total Part A :</b>						<b>249,368,525.28</b>	

<b>Part B: Protective Work</b>							
27	RHD-04/02/1a	Driven Pre-cast Piles (300mmx300mm) Including concrete class-25 (Concrete Mixer)	Lin. M	3,880.00	2,180.00	8,497,200.00	
28	BWDB-44-140	Labour for breaking head of hardened cast-in-situ bored pile/ pre-cast piles upto required length by any means and removing the dismantled materials such as concrete to a safe distance including scapping and removing concrete from steel/ MS rods, all sorts of handling, stacking the same properly after clearing, levelling and dressing the site and clearing the river bed etc. complete as per direction of the E-I-C.	Cum	9.18	2,600.24	25,706.20	
29	RHD-05/01/02c	Concrete class-25 Foundation (Concrete Mixer)	Cum	11.98	14,130.00	169,277.40	
30	RHD-05/01/02(k)	Concrete class-30 (Deck slab, side walk, wheel guard, curb etc. (Concrete Mixer)	Cum	24.63	17,751.00	435,343.28	
31	RHD-4/7/06	High Yield Deformed Steel Reinforcing Bars	Kg	48,637.490	93.320	4,538,850.57	
32	BWDB-44-220-10	Supplying and laying single layer polythene sheet in floor below cement concrete, RCC slab, on wall etc. complete in all respect as per direction of E-I-C. Weight minimum 1.0kg per 6.50 sqm.	Sqm	140.00	31.37	4,391.80	
33	RHD-05/01/02(a)	Concrete Class as Detailed on Drawings (Class10) (Concrete Mixer)	Cum	14.36	9,517.00	136,640.33	
34	BWDB-20-200-10	Brick work with 1st class bricks in cement mortar (sand of FM=1.50) in foundation and plinth, including soaking bricks in clean water for 6 hours, cleaning the bricks, raking out joints, staging, sorting, curing at least for 7 days, including supply of all materials etc. complete and as per direction of E-I-C. (Proportion: 1:4)	Cum	140.00	6,399.88	895,983.20	
35	BWDB-24-310-10	Flush pointing to brick works in sand cement mortar (sand of FM=1.3), including scaffolding, curing, raking out joints, cleaning the surface etc. complete in all floors including the cost of all materials and as per direction of E-I-C. (Proportion 1:2)	Sqm	295.40	176.90	52,256.26	
<b>Sub-Total Part B :</b>						<b>14,755,649.03</b>	
<b>Total Part (A+B) :</b>						<b>264,124,174.31</b>	

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Anisur Rahman  
 Director's Office  
 Prime Minister's Office  
 Bangladesh Peoples Republic of Bangladesh



দায়িত্ব  
 দায়িত্ব (দেবনাথ  
 বাংলাদেশ  
 সরকার (এম আই এস ও গবেষণা)

*[Handwritten signature]*

মোঃ গোলাম মোহাম্মদ  
 উপ-প্রধান (সি: নাঃ)  
 শিল্প ও শক্তি বিভাগ  
 বাংলাদেশ পরিদপ্তর, পল্লীকরণ মহলা

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 Dr. V.G. Hiremath  
 Team Leader  
 arvee -BETS JV  
 TAS FOR DAS of Infrastructure Works at Mirsarai EZ  
 Bangladesh Economic Zone Authority



Name of Work: Construction of 4 Lane 75.00m Long RCC Girder Bridge for Mirsarai EZ.  
Package No: BEZA-WD-

Sl. No.	Description of Work	Unit	Location / Component	No of	Length	Width	Height / Depth	Area / Volume	Total Quantity	Remarks
a	b	c	d	e	f	g	h	i	j	k
1	Clearing and grubbing by removal and disposal of everything above ground level including overhanging	Sqm		1.00	90	30		2,700.00	2,700.00	
2	Channel Excavation in Suitable Material	Cum	Abutment-(A1 & A2)	2.00	25.60	23.20	4.10	4,872.52	4,872.52	
3	Bored pile cast in place piles (dia 900 mm)	M	Abutment-(A1 & A2)	48.00	37.00			1,776.00		
			Test Pile (Abutment)	1.00	37.00			37.00		
			Pier-(P1 & P2)	32.00	37.00			1,184.00		
									2,997.00	
4	Making earthen ring/ cross bundh of required height and width to prevent water from entering in the working area for any type of foundation with earth arranged and carried by the contractor including bullah/bamboo palisading and double tarja mat/drum sheets wating as and where necessary, maintaining the same throughout the working period, filling by throwing earth in layers, removal of structure totally on completion of the bridge, etc. all complete as per requirement and instruction of the E-I-C.	LS		2.00				2.00	2.00	
5	Bullah palisading (150mm-175mm)	Lin. M		4.00	80.00			320.00	320.00	
6	Permanent steel casing (10mm thick, 900mm dia)	M	Abutment & (P1 & P2)	80.00	20.00			1,600.00		
			Test Pile (Abutment)	1.00	20.00			20.00	1,620.00	

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দায়ানন্দ দেবনাথ  
মুগ্ধাঙ্গিক  
ব্যবস্থাপক (এম আই এস ও গবেষণা)

*(Signature)*

মোঃ গোলাম মোহাম্মদের  
উপ-প্রকায় (সিঃ দাঃ)  
শিল্প ও নগর বিভাগ  
পল্লিকলা কামিন, পল্লিকলা মহানগর

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SL. No.	Description of Work	Unit	Location / Component	No of	Length	Width	Height / Depth	Area / Volume	Total Quantity	Remarks
a	b	c	d	e	f	g	h	i	j	k
7	SLT: Conducting static load test as per ASTM D 1143 or equivalent standard for the cast in situ/ pre-cast pile providing required scaffolding, bracing, jacks, pressure test gauge, loading Above 375 ton and up to 500 ton	Each		3.00				3.00	3.00	
8	PIT (Pile Integrity Test): Conducting Low-Strain Impact Integrity Testing on cast-in-situ/ pre-cast piles in accordance with ASTM D 5882 (Standard Test Method for Low Strain Impact Integrity Testing of Deep Foundations) using pile integrity tester containing calibrated measuring devices like highly sensitive PIT on 10 (ten) nos. piles or less of a single bridge	Each	Abut. Pile	2.00				2.00		
			Pier Pile	2.00				2.00	4.00	
	Additional charge on Mobilization & demobilization beyond 100km of Dhaka/ nearby source to site	Per Km		208.00				208.00	208.00	
9	PDA (Pile Driving Analyzer) Test: Performing high-strain dynamic testing on piles in accordance with For test load above 100 MT to 300 MT	Each		2.00				2.00	2.00	
10	Single Layer Brick Flat Soling	Sqm	Abutment-(A1 & A2)	2.00	21.60	13.20		570.24		
			Approach Slab	2.00	18.20	9.00		327.60	897.84	
11	Concrete Class as Detailed on Drawings (Class10)	Cum	Abutment-(A1 & A2)	2.00	21.60	13.20	0.100	57.02		
			Approach Slab	2.00	18.20	9.00	0.100	32.76	89.78	
12	Concrete Class - 25 (Foundation) (Batching Plant)	Cum	Abutment-(A1 & A2)	2.00	21.60	13.20	1.20	684.29	684.29	

**Anisur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

**দায়ানন্দ দেবনাথ**  
 যুগ্মসচিব  
 ব্যবস্থাপক (এম আই এস ও গবেষণা)

**বাবুল**  
 বোর্ডিং সোলার মোডারেলিক  
 উপ-প্রধান (সি: ডাঃ)  
 শিল্প ও সড়ক বিভাগ  
 পরিচালক কার্যালয়, পরিচালনা মহাপলয়



Govt. of the People's Republic of Bangladesh  
 Prime Minister's Office  
 Director  
 Anisur Rahman



Sr No.	Description of Work	Unit	Location / Component	No of	Length	Width	Height / Depth	Area / Volume	Total Quantity	Remarks		
a	b	c	d	e	f	g	h	i	f	k		
13	Concrete class -30 (Vertical member col, pier, abutment/ wing wall, culvert etc) (Batching Plant)	Cum	Abutment-(A1 & A2)									
			Stem Wall	2.00	19.60	0.900	2.048	72.253				
			Abut. Cap-(Trap.)	2.00	19.60	1.590	0.530	33.034				
			Deduction-(Try.)	(2.00)	19.60	0.02		(0.662)				
			Abut. Cap-(Rect.)	2.00	19.60	2.12	0.750	62.328				
			Breast Wall	2.00	19.60	0.800	1.222	38.322				
			Curtain Wall	4.00	1.320	0.700	0.900	3.326				
			Bearing Seat on Abut.	4.00	1.400	1.260	0.100	0.706				
			Bearing Seat on Abut.	4.00	1.400	1.260	0.152	1.073				
			Wing Wall-(Bottom)	4.00	8.280	0.943	2.000	62.464				
			Wing Wall-(Bottom)	3.00	8.000			24.000				
			Wing Wall-(mid)	4.00	14.280	0.800	3.107	141.977				
			Hor. Fillet-(Wing Wall)	4.00	8.280	0.300	0.075	0.745				
			Vert. Fillet-(Wing Wall)	4.00	10.500	0.300	0.075	0.945				
			Hor. Fillet-(Stem Wall)	2.00	57.600	0.300	0.075	2.592				
			Abutment-(A1 & A2)									
			Breast Wall	2.00	19.60	0.80	0.25	7.84				
			Wing Wall-(top)	4.00	14.28	0.71	0.179	7.24				
			Pier-(P1 & P2)									
			Pier Pile Cap	2.00	19.20	8.80	1.50	506.88				
			Bearing Seat on Pier	4.00	2.44	1.40	0.15	2.08				
			Bearing Seat on Pier	4.00	2.44	1.40	0.10	1.37				
			Pier Cap	2.00	15.65	4.40	1.00	137.72				
Pier column	4.00	3.00	1.500	7.90	142.20							
		4.00	7.07		7.90	223.37						
									1,471.79			
14	Concrete class - 30 (Girder, beam, cross girder, and diaphragm etc) (Batching Plant)	Cum	Girder	21.00	25.00	0.450	1.20	283.50				
			Chamfer of Girder	42.00	25.00	0.150	0.08	11.81				
			X-Girder	72.00	4.30	0.300	0.75	69.66				
			Chamfer of X-Girder	144.00	4.30	0.150	0.08	6.97				
									371.94			

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দায়িত্ব  
 দায়িত্ব দেবনাথ  
 ফোনসচিব  
 ব্যবস্থাপক (এম আই এম ও গবেষণা)

মোঃ মোস্তাফিজ মোস্তাফিজ  
 উপ-প্রকল্প (সি: দাঃ)  
 পিঞ্জ ও পলি বিজ্ঞান  
 গণিতের সিনিয়র, পরিচালনা মহলা

Sl. No.	Description of Work	Unit	Location / Component	No of	Length	Width	Height / Depth	Area / Volume	Total Quantity	Remarks
a	b	c	d	e	f	g	h	i	j	k
15	Concrete class-30 (Deck slab, side walk, wheel guard, curb etc) (Batching Plant)	Cum	Rail Post on Abut.	24.00	0.200	0.200	1.050	1.01		
			Rail Bar on Abut.	12.00	5.940	0.150	0.150	1.60		
			Rail Post on Deck Slab	113.00	0.200	0.200	1.050	4.75		
			Rail Bar on Deck Slab	18.00	22.00	0.150	0.150	8.91		
			Deck Slab	6.00	25.00	9.80	0.200	294.00		
			Side Walk	6.00	25.00	1.225	0.290	53.29		
			Deduction for Duct	(6.00)	25.00	0.615	0.215	(19.83)		
			Wheel Guard	4.00	14.280	0.700	0.127	5.08		
	Approach Slab	2.00	18.200	4.500	0.250	40.95				
									<b>389.75</b>	
16	High Yield Reinforcement Bars	Kg	Deck Slab					515,844.00		
			Girder					93,406.82		
			Abutment-(A1 & A2)					189,556.80		
			Abutment Railing					1,608.00		
			Pier-(P1 & P2)					136,115.68		
									<b>936,531.30</b>	
17	FBECR: Extra over item code: 4.11.01 for providing Fusion Bonded Epoxy Coating (FBEC) to reinforcement For Re-bar diameter: 16mm to 50mm	Kg						300,695.82		
										<b>300,695.82</b>
18	Expansion Joint complete as detailed on the Drawings in the location described in the BoQ.	M	Abutment	2.00	19.60			39.20		
			Pier	2.00	19.60			39.20		
										<b>78.40</b>
19	RWDP: Providing & fixing rainwater down pipes including cost of all materials, labours, equipment,	M		50.00	0.600			30.00		<b>30.00</b>
20	Neoprene rubber bearing or Elastomeric bearing supplying & fitting fixing, etc.	No	Elastomeric/ Neoprene bearing	42.00				42.00		
			For Test	1.00				1.00		
										<b>43.00</b>
21	Back filling behind abutments, wing walls and retaining walls with selected granular material (50:50 best quality plicked brick chips & sand of min. FM 1.00) of minimum 450 mm width, in layers of 150 mm thickness free from dust, impurities etc.	Cum	Back Filling							
			Wing Wall	4.00	14.28	0.45	4.93	126.72		
			Stem Wall	2.00	18.20	0.45	2.95	48.29		
										<b>175.01</b>

মোঃ সোলায়ম মোহাম্মদ  
উপ-প্রধান (স: দাঃ)  
শিল্প ও শক্তি বিভাগ  
পল্লীকল্যাণ, পরিবহন ও মৎস্য মন্ত্রণালয়

স্বাক্ষর  
দয়ানন্দ দেবনাথ  
মুগ্ধবাকী  
বাইবুলক (এম আই এস ও গবেষণা)



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Anisur Rahman  
Director  
Prime Minister's Office  
Govt. of the Peoples Republic of Bangladesh

*Anisur Rahman*

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দয়ানন্দ দেবনাথ  
স্বাক্ষরিত  
স্বাক্ষরিত (এম আই এস ও গবেষণা)



Sr. No.	Description of Work	Unit	Location / Component	No of	Length	Width	Height / Depth	Area / Volume	Total Quantity	Remarks
b	c	d	e	f	g	h	i	j	k	
22	Providing and fixing of drainage of structure as per drawing	LS		1.00				1.00	1.00	
23	Provision, Maintenance and Removal of Sign Boards.	LS						1.00	1.00	
24	Concrete Guide Post (1.6 m long, 200mm dia)	No	RCC Guide Post	20.00		4.00		80.00	80.00	
25	Environmental work as per Environmental Management Plan (EMP) from Section-10.	LS							1.00	
26	Maintenance, Staffing, Security and Cleaning of the Field Office for the Engineer	LS							1.00	


Part B: Protective Work										
27	[NTI-RHD-04/02/1a Driven Pre-cast Piles (300mmx300mm) including concrete class-25 (Concrete	Ln. M		360.00	8.00				2880.00	
		Ln. M		200.00	5.00				1000.00	3880.00
28	[NTI-BWDB-44-140] Labour for breaking head of hardened cast-in-situ bored pile/ pre-cast piles upto	Cum		360.00	0.300	0.300	0.200		6.480	
				200.00	0.300	0.300	0.150		2.70	9.18
29	[NTI-RHD-05/01/02 (g)] Concrete class-25 (Fundation Concrete Mixer)			360.00	0.300	0.300	0.200		6.48	
				200.00	0.300	0.300	0.150		2.70	
			0.025	560.00			0.200		2.80	11.98
30	[NTI-RHD-05/01/02(k)] Concrete class-30 (Deck slab, side walk, wheel guard, curb etc. (Concrete Mixer)	Cum		2.00	4.500	10.900	0.250	24.525		24.5250
31	[NTI-RHD-04/01/04] High Yield Deformed Steel Reinforcing Bars	Kg						40,640.17		
								4,408.02		
								3,156.85	48,637.49	
32	[NTI-BWDB-44-220-10] Supplying and laying single layer polythene sheet in floor below cement concrete, RCC slab, on wall etc. complete in all respect as per direction of E-I-C. Weight minimum 1.0kg per 6.50 sqm.	Sqm			560.00	0.250		140.00		140.00

*[Signature]*


*[Signature]*  
বোর্ড পৌলার মোহাম্মদ ক  
উপ-প্রধান (স: দাঃ)  
শিল্প ও শক্তি বিভাগ  
পল্লিকরনা কামিন্দা, পল্লিকরনা মহলা

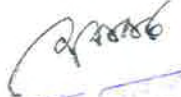


Sl. No.	Description of Work	Unit	Location / Component	No of	Length	Width	Height / Depth	Area / Volume	Total Quantity	Remarks
a	b	c	d	e	f	g	h	i	j	k
33	(NTI-RHD-05/01/02(a)) Concrete Class as Detailed on Drawings (Class10) (Concrete Mixer)	Cum		2.00	560.00	0.250	0.050	7.00	14.36	
34	(NTI-BWDB-20-200-10) Brick work with 1st class bricks in cement mortar ( sand of FM>=1.50) in foundation and plinth, including soaking bricks in clean water for 6 hours, cleaning the bricks, raking out joints, staging, sorting, curing at least for 7 days, including supply of all materials etc. complete and as per direction of E-I-C. (Proportion: 1:4)	Cum			560.00	0.250	1.000	140.00	140.00	
35	(NTI-BWDB-24-310-10) Flush pointing to brick works, in	Sqrm			560.00	0.700		295.40	295.40	

  
 Md. Anisur Rahman  
 উপসচিব  
 ব্যবস্থাপক (এস আই এস ও গবেষণা)



  
 Anisur Rahman  
 Director  
 Prime Minister's Office  
 Govt. of the Peoples Republic of Bangladesh

  
 Director  
 Prime Minister's Office  
 Govt. of the Peoples Republic of Bangladesh

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**Anisur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh



TO LEFT SIDE

TO RIGHT SIDE

Approx. Gr. Covered part  
 1.5 x 7.10 Nos. 1

Approx. 400mm x 100mm  
 Block Cover (10 Nos)  
 Approx. 100mm dia  
 Approx. 100mm dia  
 Approx. 100mm dia  
 Approx. 100mm dia  
 Approx. 100mm dia



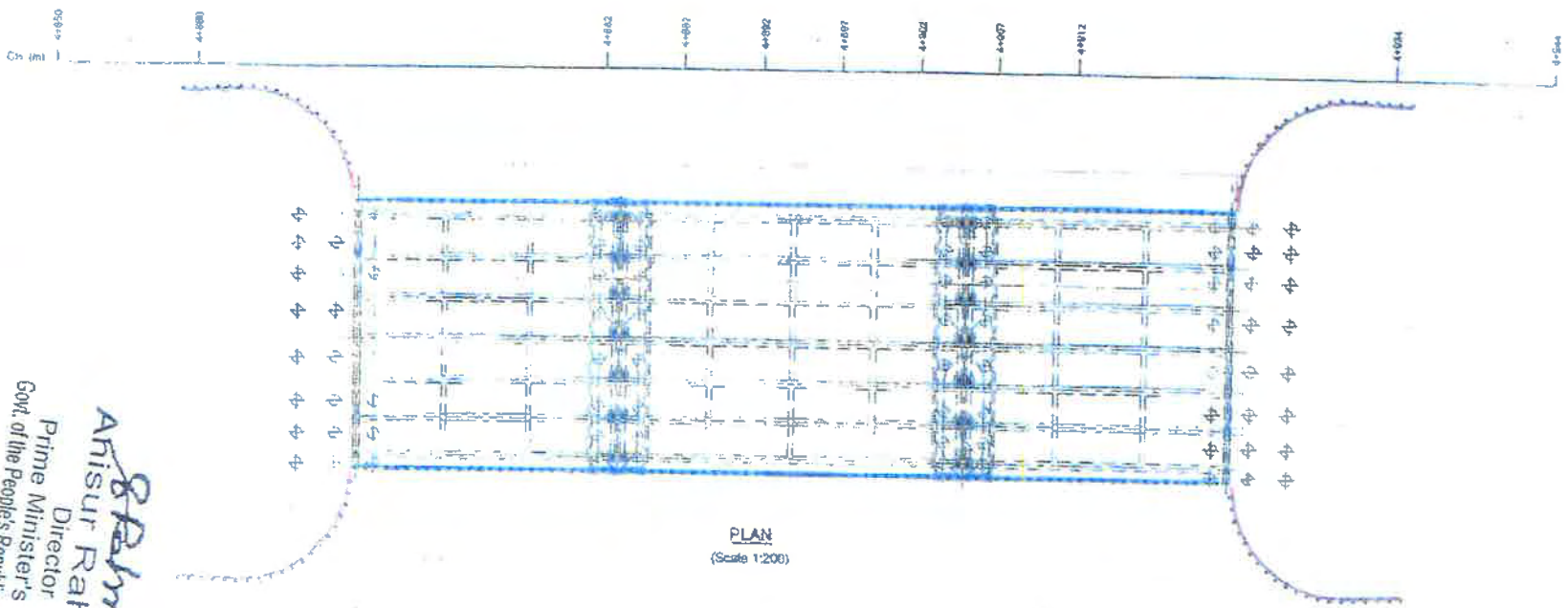
- Notes:**
1. All dimensions are in mm unless otherwise mentioned.
  2. All Levels are to RL with respect to PWD bench mark.
  3. Levels shown on lower structure are at the top of working slabs along center line of bridge.
  4. This drawing should be read in connection with Drawing No. SSR-01.
  5. Nonprestressed Vertical Channels: as HFL-1 (50)

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দরদারদ দেবনাথ  
 মুহাসত্বির  
 স্বাক্ষরকার (এম জাই এস ও গবেষণা)

 BANGLADESH ECONOMIC ZONES AUTHORITY BEZA	Bangladesh Economic Zones Development Project Mopra-02	Approved by Air Vice-Comdant (BEZA-CS-2717)	Approved by SK Khatun Miah CMO (opposite)	Approved by Sultan Hossain Sohan Office Engineer	Approved by Md. Abdul Malique Design Engineer	Approved by Dr. V. P. Hossain Team Leader	BEZA	No. 01 02 03 04 05 06 07 08 09 10 11 12	GA-01
	CONSTRUCTION OF 800 R.C.C. DEEPER BRIDGE 10'x22' - MURSHIDABAD DISTRICT - CHATTOGRAM	September, 2016							

স্বাক্ষর  
 মুহাসত্বির  
 মুহাসত্বির  
 মুহাসত্বির  
 মুহাসত্বির  
 মুহাসত্বির



PLAN  
(Scale 1:200)

*Anisur Rahman*  
**Anisur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

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PROJECT	PROJECT NO.	DESIGNER	DATE	SCALE	REVISION	DATE	BY	CHKD BY
Bangladesh Economic Zones Development Project Marsheh EZ	Aspire-BETS/AY (BEZA-CS-2111)	Sr. Kamr Usan CAD operator	September, 2020					
MINISTRY OF POWER, GAS & WATER SUPPLY UPAZLA: HISHARA, DISTRICT: GAUTOGRAM		Solman Mumer Sarkar Office Engineer						
		Md. Abdur Mokleque Design Engineer						
		Dr. V.G. Hiranath Team Leader						
		BEZA						



*দয়ানন্দ দেবনাথ*  
**দয়ানন্দ দেবনাথ**  
 মুদ্রাসচিব  
 ব্যবস্থাপক (এম আই এস ও গবেষণা)

*১২/১১/২০*  
 উপস্থাপক (সি. ডি. ডি.)  
 বিজ্ঞান বিভাগ  
 বিজ্ঞান বিভাগ, গাইবান্ধা জেলা সচিবালয়

# BOQ & ESTIMATE

Construction of 2 Lane 60.00m Long RCC Girder  
Bridge for Mirsarai EZ.

Cost : BDT. 10,07,16,090.37



**Anisur Rahman**  
Prime Minister's Office  
Govt. of the People's Republic of Bangladesh

০২/১৯  
কর্তৃপক্ষ, বিদ্যমান  
কুমিল্লা  
কর্তৃপক্ষ (১৬৬ নং পন ও শলকো)

**Rashed**  
কর্তৃপক্ষ, বিদ্যমান (১৬৬ নং পন ও শলকো)  
কুমিল্লা

Name of Work : Construction of 60.00m Long RCC Girder Bridge under Mirsarai EZ.  
 Package No. BEZA-WD-

SL No.	Item Code	Description of Work	Unit	Quantity	Unit Rate (Tk.)	Total Amount (Tk.)	Remarks
a	b	c	d	e	f	g	h
1	RHD-2/1/01	Clearing and grubbing by removal and disposal of everything above ground level	sqm	2700.00	55.00	148,500.00	
2	RHD-02/04/02	Channel Excavation in Suitable Material	cum	1218.13	211.00	257,025.41	
3	RHD-04/01/1-d	Bored pile cast in place piles (dia 900 mm)	m	1230.00	12,787.00	15,728,010.00	
4	LGED-4.05.04	Making earthen ring/ cross bundh of required height and width to prevent water from	LS	2.00	2,500,000.00	5,000,000.00	
5	RHD-6/13/1(a)	Bullah palisading (150mm-175mm)	Lin. M	280.00	10,032.00	2,808,960.00	
6	RHD-04/01/05-f	Permanent steel casing (10mm thick, 900mm dia)	m	820.00	27,899.00	22,877,180.00	
7	LGED-4.07.23	<p>SLT: Conducting static load test as per ASTM D 1143 or equivalent standard for the cast in situ/ pre-cast pile providing required scaffolding, bracing, jacks, pressure test gauge, loading unloading, arranging other necessary plants and equipment including staging, mobilization, demobilization, hire charge of gunny bag/ concrete block/ steel sheet, sand and filling sacs/ gunny bags for loading, record readings and preparation of results in standard forms and other incidental charges as per standard practice and procedures including submission of load test report, furnishing all graph and chart etc. complete in all respects approved and accepted by the Engineer (Minimum two cyclic loading; one at service load and another cycle at double the load of service load then to continue loading till failure of the pile). Before commencing load test, Contractor shall submit methodology along with combined calibration report for conducting load test to the E-I-C for approval. The Testing firm will be selected taking prior approval of procuring entity.</p> <p>The methodology of static load test and driving logs/ boring &amp; pouring logs shall be the part of test report. Load Test and Report shall be conducted under the supervision of a professional Geotechnical Engineer registered in the Bangladesh Professional Engineers Registration Board (BPERB), Institute of Engineers Bangladesh (IEB).</p> <p>(Cost of Combined Calibration Test (Hydraulic Jack, pressure gauge &amp; electric/hydraulic pump) has been included in all sub-items.)</p>					
	LGED-4.07.23.08	Above 375 ton and up to 500 ton	Each	3.00	448,285.38	1,344,856.14	

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*Djaya*  
 দায়িত্ব দেবনাথ  
 কৃষিক্ষেত্র  
 সুরক্ষা (এস আই এস ও গবেষণা)

Anisur Rahman  
 Director  
 Prime Minister's Office  
 Govt. of the Peoples Republic of Bangladesh



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*[Handwritten signature]*  
 মোঃ গোলাম মোহাম্মদ  
 উপ-প্রকাল (সি: সাঃ)  
 শিল্প ও শক্তি বিভাগ  
 পরিকল্পনা কমিশন, গণপ্রজাতন্ত্রী বাংলাদেশ

*Amirul Rahman*



Sl. No.	Item Code	Description of Work	Unit	Quantity	Unit Rate (Tk.)	Total Amount (Tk.)	Remarks
a	b	c	d	e	f	g	h
8	LGED-4.07.26	PIT (Pile Integrity Test): Conducting Low-Strain Impact Integrity Testing on cast-in-situ/ pre-cast piles in accordance with ASTM D 5882 (Standard Test Method for Low Strain Impact Integrity Testing of Deep Foundations) using pile integrity tester containing calibrated measuring devices like highly sensitive accelerometer, a magnification device, an amplification box, a small impact device (hammer) & a computer with ability to convert data from analog to digital form with graphical display on completion of required setting/ driving of piles, preparation of pile top by removing soil, mud, dust & chipping lean concrete lumps etc., mobilizing and demobilizing of equipment, preparation of results in standard forms and compiling final report with recommendations on the tests etc. complete in all respects approved and accepted by the E-I-C. Report should include proper presentable graph of same wave speed (m/sec), impedance reduction, interpretation of results, cross sectional or material changes (if any), length of pile, concrete quality etc. Routine test samples shall be chosen by E-I-C on random basis. Methodology for conducting PIT shall be submitted to the E-I-C for approval and shall be the part of PIT report. All pile integrity tests shall be performed and analyzed under the supervision of a professional geotechnical engineer registered in the Bangladesh Professional Engineers Registration Board (BPERB), Institute of Engineers Bangladesh (IEB).					
	LGED-4.07.26.01	PIT on 10 (ten) nos. piles or less of a single bridge	Set	4.00	21,271.25	85,085.00	
	LGED-4.07.26.02	Additional charge on Mobilization & demobilization beyond 100km of Dhaka/	Per Km	208.00	43.63	9,075.04	
9	LGED-4.07.27	PDA (Pile Driving Analyzer) Test: Performing high-strain dynamic testing on piles in accordance with ASTM D 4945 (Standard Method for High-Strain Dynamic Testing of Deep Foundation) to evaluate integrity of the hardened pile using pile driving analyser by impacting a weight of atleast 1.5% to 2% of required ultimate pile bearing capacity with a fall varying from 1m to 3m including preparing head, providing ply and sheet plates, fixing atleast 2 pairs of strain & acceleration sensors at diametrically opposite sides, experts, labour, mobilization, demobilization, data acquisition, CAPWAP analysis, integrity, interpolation, preparation of results in standard forms etc. complete in all respects approved and accepted by the E-I-C.					
	LGED-4.07.27.03.02	For test load above 100 MT to 300 MT	Each	2.00	169,258.38	338,516.76	
10	RHD-05/1/01	Single Layer Brick Flat Soling	sqm	224.46	507.00	113,801.22	
11	RHD-05/01/2(a)	Concrete Class as Detailed on Drawings (Class10) (Concrete Mixer)	cum	16.83	9,517.00	160,213.94	
12	RHD-05/01/03(g)	Concrete Class - 30 (Foundation) (Batching Plant)	cum	171.07	19,506.00	3,336,930.43	
13	RHD-05/01/03-h	Concrete class -30 (Vertical member col, pier,abutment/ wing wall,culvert etc) (Batching Plant)	cum	285.81	18,363.00	5,248,288.83	

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*দায়ানন্দ দেবনাথ*  
মুদ্রাসচিব  
ব্যবস্থাপক (এম আই এস ও গবেষণা)

*[Handwritten signature]*

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পরিচালনা কমিটি, পরিবহন মন্ত্রণালয়

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Prime Minister's Office  
Govt. of the People's Republic of Bangladesh

Director  
Anisur Rahman



Sl. No.	Item Code	Description of Work	Unit	Quantity	Unit Rate (Tk.)	Total Amount (Tk.)	Remarks
a	b	c	d	e	f	g	h
14	RHD-05/01/03-I	Concrete class - 30 (Girder, beam, cross girder, and slaphram etc) (Batching Plant)	cum	154.16	20,952.00	3,229,886.99	
15	RHD-05/01/03(k)	Concrete class-30 (Deck slab, side walk, wheel guard, curb etc) (Batching Plant)	cum	179.38	19,506.00	3,499,070.00	
16	RHD-05/2/02	High Yield Reinforcement Bars	kg	234,061.00	93.320	21,842,572.52	
17	LGED-4.11.02	FBECR: Extra over item code: 4.11.01 for providing Fusion Bonded Epoxy Coating (FBEC) to reinforcement bars as per ASTM A775/ BDS ISO 14654: 2013 specification for a coating thickness (after curing) of 175 to 300 microns for 10mm to 16mm and 175 to 400 microns for 20mm to 50mm re-bars including extra cost on account of careful handling during straightening, cutting, bending & placing, extra cost on account of using PVC coated binding wire instead of G.I. wire, extra cost on account of touch-up material (All cut edges/weld areas and bend locations where coating has been damaged touch up shall be done with same paint, the upper thickness limit shall not apply to repaired areas of damaged coating) supplied by coating agency and repair work, extra cost on account of transportation to and fro from steel yard to plant and plant to work site by trailer (if required), loading, unloading, flexibility & holiday testing, including all taxes, etc. complete to ensure proper resistance of FBE against corrosive environment. [Fusion Bonded Epoxy Coating to be proposed only in Coastal Area/Severe Exposure Condition with prior approval of Design Unit, LGED.]					
	LGED-4.11.02.02	For Re-bar diameter: 16mm to 50mm	Kg	150,347.91	10.470	1,574,142.62	
18	RHD-05/08/01	Expansion Joint complete as detailed on the Drawings in the location described in the BoQ.	Lin. M	39.20	13,186.00	516,891.20	
19	LGED-4.13.02.08	RWDP: Providing & fixing rainwater down pipes including cost of all materials, labours, equipment, transportation, fixtures, accessories etc. at any level as per specification, drawings and direction of the E-I-C. RWDP75PVC: 75mm uPVC Pipe of 2.9mm to 3.4mm wall thickness conforming to BS 3505	m	12.60	230.95	2,909.97	
20	RHD-05/13/1(b)	Neoprene rubber bearing or Elastomeric bearing supplying & fitting fixing, etc.	Number	25.00	20,030.00	500,750.00	
21	LGED-4.13.03	BF: Back filling behind abutments, wing walls and retaining walls with selected granular material (50:50 best quality picked brick chips & sand of min. FM 1.00) of minimum 450 mm width, in layers of 150 mm thickness free from dust, impurities etc. including compaction using plate compactor, watering & dressing, supply & cost of all materials, carrying and labour, hire charge of plate compactor and other tools etc. all complete as per direction of the Engineer-In-Charge. Payment to be made for the compacted volume only for a compaction of 90% of the maximum dry density.	cum	87.50	2,406.45	210,575.16	
22		Providing and fixing of drainage of structure as per drawing	LS	1.00	50,000.00	50,000.00	
23	RHD-01/02/04	Provision, Maintenance and Removal of Sign Boards.	LS	1.00	9,042.00	9,042.00	
24	RHD-6/15/01	Concrete Guide Pc: 6 m long, 200mm dia)	no	40.00	2,322.00	92,880.00	

স্বাক্ষর  
দয়ানন্দ দেবনাথ  
মুগ্ধসিবি  
কর্তৃপক্ষ (এম ডব্লিউ এস ও পবকো)

স্বাক্ষর

স্বাক্ষর  
উপসচিব (সি.সি.)  
শিলা ও সড়ক বিভাগ  
পট্টভাঙ্গা কমিশন, পট্টভাঙ্গা মহানগর



Director  
 Prime Minister's Office  
 Govt. of the Peoples Republic of Bangladesh  
 Anisur Rahman

SL. No.	Item Code	Description of Work	Unit	Quantity	Unit Rate (Tk.)	Total Amount (Tk.)	Remarks
a	b	c	d	e	f	g	h
25	ENV	Environmental work as per Environmental Management Plan (EMP) from Section-10.		1.00	3,000,000.00	3,000,000.00	
26	LGED-4.01.05.02	Maintenance, Staffing, Security and Cleaning of the Field Office for the Engineer	L.S	1.00	2,500,000.00	2,500,000.00	
<b>Sub-Total Part A :</b>						<b>91,985,163.23</b>	

<b>Part B: Protective Work</b>							
27	RHD-02/04/02	Channel Excavation in Suitable Material	cum	105.00	211.00	22,155.00	
28	RHD-06/17/1(b)	RCC Palisading (3m post, 150mm X 150mm) casting & driving.	m	600.00	6,713.00	4,027,800.00	
29	RHD-05/01/02(b)	Concrete class-20 (Foundation) (Concrete Mixer)	cum	6.00	19,506.00	117,036.00	
30	RHD-04/01/04	High Yield Deformed Steel Reinforcing Bars	kg	4171.86	93.320	389,317.04	
31	RHD-05/01/02(a)	Concrete Class as Detailed on Drawings (Class10) (Concrete Mixer)	cum	3.70	9,517.00	35,212.90	
32	BWDB-20-200-10	Brick work with 1st class bricks in cement mortar ( sand of FM>=1.50) in foundation and plinth, including soaking bricks in clean water for 6 hours, cleaning the bricks, raking out joints, staging, sorting, curing at least for 7 days, including supply of all materials etc. complete and as per direction of E-I-C. (Proportion: 1:4)	cum	50.00	6,399.88	319,994.00	
33	RHD-04/07/05	Sand Filling	cum	244.24	1,381.00	337,299.39	
34	RHD-06/12/01	Geotextile Filter Fabric (as detailed on the Drawings)	sqm	1680.29	217.00	364,622.00	
35	BWDB-40-140-75	Manufacturing and supplying C.C blocks in leanest mix. 1:3:6 with cement, sand (FM>=1.5) and stone (40mm down graded), to attain a minimum 28 days cylinder strength of 9.0 N/mm2 including grading, washing stone chips, mixing, laying in forms, consolidation, curing for at least 21 days, including preparation of platform, shuttering and stacking in measureable stacks etc complete including supply of all materials (steel shutter to be used) as per direction of E-I-C. (block size 400mmX400mmX150mm)	each	8901.79	297.46	2,647,925.18	
36	BWDB-40-220-20	Labour charge for protective works in laying CC blocks of different sizes including preparation of base, watering and ramming of base etc. complete as per direction of E-I-C. (Beyond 200m)	cum	213.64	2,197.90	469,565.64	
<b>Sub-Total Part B :</b>						<b>8,730,927.14</b>	
<b>Total Part (A+B) :</b>						<b>100,716,090.37</b>	

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দায়িত্ব দেবনাথ  
 মুগাসচিব  
 ব্যবস্থাপক (এম আই এম ও গবেষণা)

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মোঃ গোলাম মোহাম্মদের  
 উপ-প্রকৌশল (সি: সাঃ)  
 পিও ও শারিক বিভাগ  
 পরিচালনা মন্ত্রণালয়

*[Handwritten signature]*

Dr. V.G. Hiremath  
 Team Leader  
 aarvee -BETS JV  
 T&S FOR O&S of Infrastructure Works at Mithamora EZ  
 Bangladesh Economic Zone Authority



Name of Work : Construction of 60.00m Long RCC Girder Bridge under Mirsarai EZ.  
 Package No. : BEZA-WD-

SL. No.	Description of Work	Unit	Location / Component	No of	Length	Width	Height / Depth	Area / Volume	Total Quantity	Remarks
a	b	c	d	e	f	g	h	i	j	k
1	Clearing and grubbing by removal and disposal of everything above ground level including overhanging	Sqm		1.00	90	30		2,700.00	2,700.00	
2	Channel Excavation in Suitable Material	Cum	Abutment-(A1 & A2)	2.00	12.80	11.60	4.10	1,218.13		
									1,218.13	
3	Bored pile cast in place piles (dia 900 mm)	M	Abutment-(A1 & A2)	24.00	30.00			720.00		
			Test Pile (Abutment)	1.00	30.00			30.00		
			Pier-(P1 & P2)	16.00	30.00			480.00		
									1,230.00	
4	Making earthen ring/ cross bundh of required height and width to prevent water from entering in the working area for any type of foundation with earth arranged and carried by the contractor including bullah/bamboo palisading and douole tarja mat/drum sheets walling as and where necessary, maintaining the same throughout the working period, filling by chrowing earth in layers, removal of structure totally on completion of the bridge, etc. all complete as per requirement and instruction of the E-I-C.	LS		2.00				2.00	2.00	
5	Bullah palisading (150mm-175mm)	Ln. M		4.00	70.00			280.00	280.00	
6	Permanent steel casing (10mm thick, 900mm dia)	M	Abutment & (P1 & P2)	40.00	20.00			800.00		
			Test Pile (Abutment)	1.00	20.00			20.00	820.00	

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Anisur Rahman  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh



দায়িত্ব দেবনাথ  
 মুহুরতি  
 ব্যবস্থক (এস আই এস ও সবেকা)

*(Handwritten signature)*

শেখ মোস্তাফিজ মোহাম্মদ  
 উপ-প্রধান (সি: দা:)  
 শিল্প ও শক্তি বিভাগ  
 পরিকল্পনা কমিশন, পরিকল্পনা মন্ত্রণালয়



Director  
 Prime Minister's Office  
 Govt. of the Peoples Republic of Bangladesh  
 Ahisur Rahman

No	Description of Work	Unit	Location / Component	No of	Length	Width	Height / Depth	Area / Volume	Total Quantity	Remarks
a	b	c	d	e	f	g	h	i	j	k
7	SLT: Conducting static load test as per ASTM D 1143 or equivalent standard for the cast in situ/ pre-cast pile providing required scaffolding, bracing, jacks, pressure test gauge, loading Above 375 ton and up to 500 ton	Each		3.00				3.00	3.00	
8	PIT (Pile Integrity Test): Conducting Low-Strain Impact Integrity Testing on cast-in-situ/ pre-cast piles in accordance with ASTM D 5882 (Standard Test Method for Low Strain Impact Integrity Testing of Deep Foundations) using pile integrity tester containing calibrated measuring devices like highly sensitive PIT on 10 (ten) nos. piles or less of a single bridge	Each	Abut. Pile	1.00				1.00		
			Pier Pile	1.00				1.00	2.00	
		Set		4.00				4.00	4.00	
	Additional charge on Mobilization & demobilization beyond 100km of Dhaka/ nearby source to site	Per Km		208.00				208.00	208.00	
9	PDA (Pile Driving Analyzer) Test: Performing high-strain dynamic testing on piles in accordance with For test load above 100 MT to 300 MT	Each		1.00				1.00	1.00	
10	Single Layer Brick Flat Soling	Sqm	Abutment-(A1 & A2)	2.00	10.80	6.60		142.56		
			Approach Slab	2.00	9.10	4.50		81.90	224.46	
11	Concrete Class as Detailed on Drawings (Class10)	Cum	Abutment-(A1 & A2)	2.00	10.80	6.60	0.075	10.69		
			Approach Slab	2.00	9.10	4.50	0.075	6.14	16.83	
12	Concrete Class - 25 (Foundation) (Batching Plant)	Cum	Abutment-(A1 & A2)	2.00	10.80	6.60	1.20	171.07	171.07	

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 দমানন্দ দেবনাথ  
 যুগ্মসচিব  
 ব্যবস্থাপক (এম এম এল ও গবেষণা)

১৫৫৬  
 মোঃ মোস্তাফিজ মোহাম্মদ  
 উপ-প্রকল্প (সি: দাঃ)  
 সিসি ও সিসি বিভাগ  
 পরিচালনা কমিশন, প্রতিবেদন প্রকল্পের

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Anisur Rahman  
 Director  
 Prime Minister's Office  
 Govt. of the Peoples Republic of Bangladesh

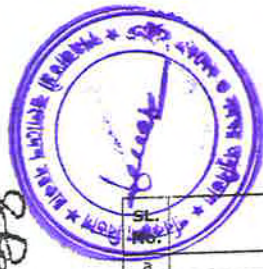


Sl. No.	Description of Work	Unit	Location / Component	No of	Length	Width	Height / Depth	Area / Volume	Total Quantity	Remarks		
a	b	c	d	e	f	g	h	i	j	k		
13	Concrete class -30 (Vertical member col, pier,abutment/ wing wall,cuivert etc) (Batching Plant)	Cum	Abutment-(A1 & A2)									
			Stem Wall	2.00	9.80	0.45	2.048	18.063				
			Abut. Cap-(Trap.)	2.00	9.80	0.795	0.530	8.258				
			Deduction-(Try.)	(2.00)	9.80	0.01		(0.166)				
			Abut. Cap-(Rect.)	2.00	9.80	1.06	0.750	15.582				
			Breast Wall	2.00	9.80	0.400	1.222	9.580				
			Curtain Wall	4.00	0.660	0.350	0.900	0.832				
			Bearing Seat on Abut.	4.00	0.700	0.630	0.100	0.176				
			Bearing Seat on Abut.	4.00	0.700	0.630	0.152	0.268				
			Wing Wall-(Bottom)	4.00	4.140	0.472	2.000	15.616				
			Wing Wall-(Bottom)	3.00	4.000			12.000				
			Wing Wall-(mid)	4.00	7.140	0.400	3.107	35.494				
			Hor. Fillet-(Wing Wall)	4.00	4.140	0.150	0.075	0.186				
			Vert. Fillet-(Wing Wall)	4.00	5.250	0.150	0.075	0.236				
			Hor. Fillet-(Stem Wall)	2.00	8.800	0.150	0.075	0.198				
			Abutment-(A1 & A2)									
			Breast Wall	2.00	9.80	0.40	0.25	1.96				
			Wing Wall-(top)	4.00	7.14	0.35	0.179	1.81				
			Pier-(P1 & P2)									
			Pier Pile Cap	2.00	9.60	4.40	1.00	84.48				
Bearing Seat on Pier	4.00	1.22	0.70	0.15	0.52							
Bearing Seat on Pier	4.00	1.22	0.70	0.10	0.34							
Pier column	16.00		0.636	7.90	80.37							
								285.81				
14	Concrete class - 30 (Girder, beam, cross girder,and diaphragm etc) (batching Plant)	Cum	Girder	12.00	20.00	0.450	1.20	129.60				
			Chamfer of Girder	24.00	20.00	0.150	0.08	5.40				
			X-Girder	36.00	2.15	0.300	0.75	17.42				
			Chamfer of X-Girder	72.00	2.15	0.150	0.08	1.74				
								154.16				

দায়ানন্দ দেবনাথ  
 মুগ্ধসচিব  
 ব্যবস্থাপক (এম এম) এস ও গবেষণা

R

মোঃ মোস্তাফিজ মোস্তাফিজ  
 উপ-প্রোগ্রামার (সি. ডাঃ)  
 শিল্প ও শক্তি বিভাগ  
 পরিকল্পনা বোর্ড, পরিকল্পনা মন্ত্রণালয়



**Anisur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

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Sl. No.	Description of Work	Unit	Location / Component	No of	Length	Width	Height / Depth	Area / Volume	Total Quantity	Remarks
a	b	c	d	e	f	g	h	i	j	k
15	Concrete class-30 (Deck slab, side walk, wheel guard, curb etc) (Batching Plant)	Cum	Rail Post on Abut.	24.00	0.200	0.200	1.050	1.01		
			Rail Bar on Abut.	12.00	5.940	0.150	0.150	1.60		
			Rail Post on Deck Slab	90.00	0.200	0.200	1.050	3.78		
			Rail Bar on Deck Slab	18.00	17.00	0.150	0.150	6.89		
			Deck Slab	3.00	20.00	9.80	0.200	117.60		
			Side Walk	6.00	20.00	1.225	0.290	42.63		
			Deduction for Duct	(6.00)	20.00	0.615	0.215	(15.87)		
			Wheel Guard	4.00	7.140	0.350	0.127	1.27		
			Approach Slab	2.00	9.100	4.500	0.250	20.48		
									179.38	
16	High Yield Reinforcement Bars	Kg	Deck Slab					25,792.00		
			Girder					46,241.00		
			Abutment-(A1 & A2)					93,840.00		
			Abutment Railing					804.00		
			Pier-(P1 & P2)					67,384.00		
									234,061.00	
17	FBECR: Extra over item code: 4.11.01 for providing Fusion Bonded Epoxy Coating (FBEC) to reinforcement For Re-bar diameter: 16mm to 50mm	Kg						150,347.91		
									150,347.91	
18	Expansion Joint complete as detailed on the Drawings in the location described in the BoQ.	M	Abutment	2.00	9.80			19.60		
			Pier	2.00	9.80			19.60		
									39.20	
19	RWDP: Providing & fixing rainwater down pipes including cost of all materials, labours, equipment,	M		42.00	0.300			12.60		
20	Neoprene rubber bearing or Elastomeric bearing supplying & fitting fixing, etc.	No	Elastomeric/ Neoprene bearing	24.00				24.00		
			For Test	1.00				1.00		
									25.00	
21	Back filling behind abutments, wing walls and retaining walls with selected granular material (50:50 best quality picked brick chips & sand of min. FM 1.00) of minimum 450 mm width, in layers of 150 mm thickness free from dust, impurities etc.	Cum	Back Filling							
			Wing Wall	4.00	7.14	0.45	4.93	63.36		
			Stem Wall	2.00	9.10	0.45	2.95	24.14		
									87.50	

১০/১১  
 দয়ানন্দ দেবনাথ  
 সুপারভাইজার  
 ব্যবস্থাপক (এম আই এস ও গবেষণা)

*[Handwritten signature]*

মোঃ সোলায়ম মোহাম্মদ  
 ইং-এম.সি. (সি. সি.)  
 পিপি ১০ পিপি বিভাগ  
 পরিচালক (সি. সি.), পরিচালনা মন্ত্রণালয়

Sl. No.	Description of Work	Unit	Location / Component	No of	Length	Width	Height / Depth	Area / Volume	Total Quantity	Remarks
a	b	c	d	e	f	g	h	i	j	k
22	Providing and fixing of drainage of structure as per drawing	LS		1.00				1.00	1.00	
23	Provision, Maintenance and Removal of Sign Boards.	LS						1.00	1.00	
24	Concrete Guide Post (1.6 m long, 200mm dia)	No	RCC Guide Post	10.00		4.00		40.00	40.00	
25	Environmental work as per Environmental Management Plan (EMP) from Section-10.	LS							1.00	
26	Maintenance, Staffing, Security and Cleaning of the Field Office for the Engineer	LS							1.00	

Part B: Protective Work										
27	Channel Excavation in Suitable Material	Cum	Protective Work	4.00	50.00	0.50	1.05	105.00		105.00
28	RCC Palisading (3m post, 150mm X 150mm) casting & driving.	M	Pre Cast Pile-(RCC)	200.00	3.00			600.00		600.00
29	Concrete class-20 (Foundation) (Concrete Mixer)	Cum	Cap Beam	4.00	50.00	0.15	0.20	6.00		6.00
30	High Yield Deformed Steel Reinforcing Bars	Kg	Protection Work	1.00				2,816.00		4,171.85
31	Concrete Class as Detailed on Drawings (Class10) (Concrete Mixer)	Cum	CC Work	4.00	50.00	0.25	0.05	2.50		3.70
			Road Side	4.00	20.00	0.10	0.15	1.20		50.00
32	New & extended brick work	Cum	Brick Work	4.00	50.00	0.25	1.00	50.00		50.00
33	Sand Filling	Cum	Sand Filling							244.24
			Under Geo-Textile: Curve Part	4.00	139.07		0.150	83.44		
			Under Geo-Textile: Slope Part	4.00	20.00	13.40	0.150	160.80		

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Prime Minister's Office  
Govt. of the People's Republic of Bangladesh

Director  
Anisur Rahman



১৬১  
দায়িত্ব (সেবাবাহী  
যুক্তিসিদ্ধ  
ব্যবস্থাপক (এম এফ এস ও পকেসগা))

R

১৬১  
মোঃ গোলাম মোহাম্মদের  
উপ-প্রধান (সি. পি.)  
শিল্প ও শক্তি বিভাগ  
পল্লীকল্যাণ বোর্ড, পল্লীকল্যাণ মহাপরিদপ্তর



Prime Minister's Office  
 Director  
 Asur Rahman  
 Govt. of the People's Republic of Bangladesh

Sl. No.	Description of Work	Unit	Location / Component	No of	Length	Width	Height / Depth	Area / Volume	Total Quantity	Remarks
a	b	c	d	e	f	g	h	i	j	k
34	Geotextile Filter Fabric (as detailed on the Drawings)	Sqm	Geo-Textile							
			Under CC Block: Curve Part	4.00	139.07			556.29		
			Under CC Block: Slope Part	4.00	20.00	11.45		916.00		
			Beside Brick Work	4.00	50.00	0.60		120.00		
			Road Side	4.00	20.00	1.10		88.00		
								<b>1,680.29</b>		
35	Manufacturing and supplying C.C blocks in leanest mix. 1:3:6 with cement, sand (FM>=1.5) and stone (40mm down graded), to attain a minimum 28 days cylinder strength of 9.0 N/mm <sup>2</sup> including grading, washing stone chips, mixing, laying in forms, consolidation	Each	CC Block							
			CC Block: Curve Part	4.00	869.20			3,476.79		
			CC Block: Slope Part	4.00	1,256.25			5,025.00		
			Road Side	4.00	100.00			400.00		
								<b>8,901.79</b>		
36	Labour charge for protective works in laying CC blocks of different sizes including preparation of base, watering and ramming of base etc. complete as per	Cum	Laying C.C Blocks	8,901.79	0.40	0.40	0.150	213.64		
								<b>213.64</b>		

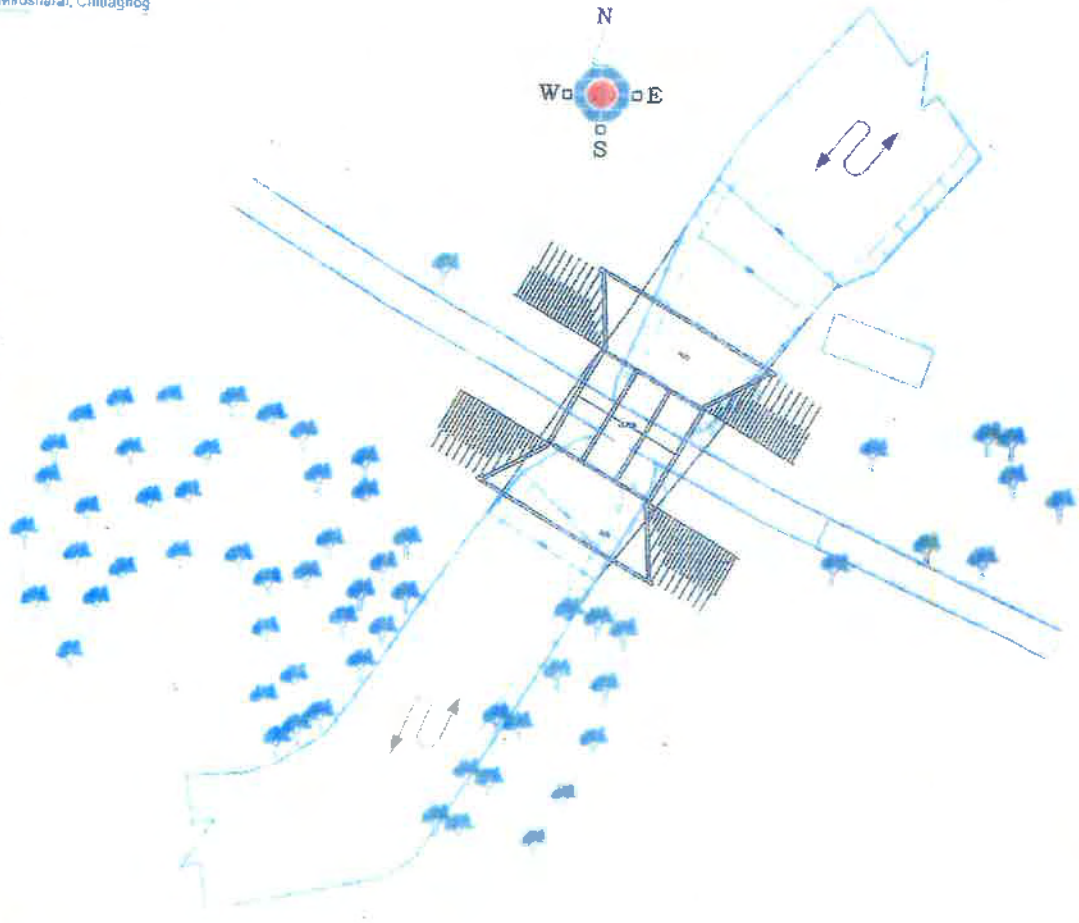
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দায়ানন্দ দেবনাথ  
 ইঞ্জিনিয়ার  
 ব্যবস্থাপক (এম আই এস ও গবেষণা)

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 মেইস মোস্তাফিজ মোহাম্মদ  
 উপ-প্রকল্প (স: দাঃ)  
 নিয়ন্ত্রণ ও পরিচালনা বিভাগ  
 পরিচালনা কমিশন, পরিচালনা মন্ত্রণালয়

3-VENT CULVERT at  
Mirsarai, Chittagong



(South)  
Mirsarai, Mirsarai, Chittagong  
RL of 3.45 (FINED)  
RM. Co-ordinate E = 24780 (H=24500) NS  
3. TBM. Sp. co. for Culvert. Finishing. W. on. set. mark.  
TBM. = 6.87 m  
4. Height T56 Level = 3.170 m  
5. Low Tide Level = 2.620 m  
6. Existing Water Level = 2.810 m

*Anisur Rahman*  
Anisur Rahman  
Director  
Prime Minister's Office  
Govt. of the People's Republic of Bangladesh

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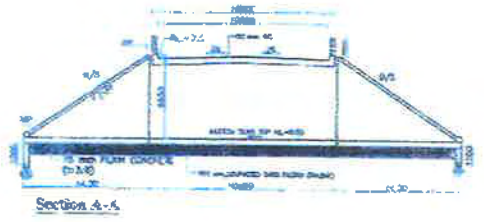
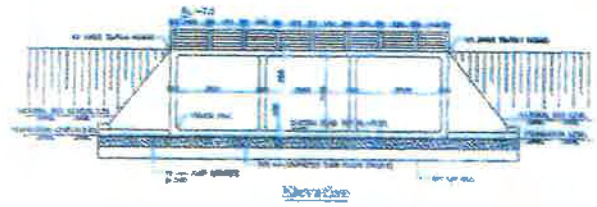
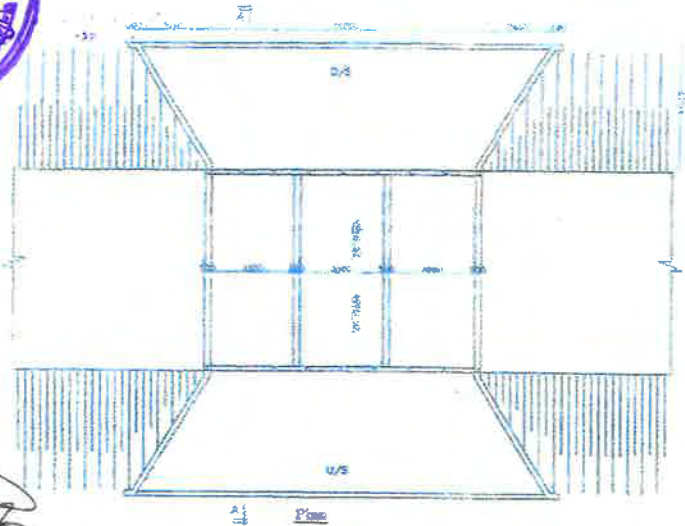
*দয়ালদেবনাথ*  
দয়ালদেবনাথ  
মুগদসভিব  
ব্যবস্থাপক (এম আই এস ও দরবেদা)

PROJECT NAME	PROJECT NO.	SCALE	DATE	DESIGNED BY	CHECKED BY	DATE	APPROVED BY	OFFICE
3-VENT 3.50M X 6.50M R.C.C. CULVERT AT MIRSARAI	AD/MS/27/24/2 (BEZA-05-171)	1:100	August, 2022	SA. Robin Islam DAD Operator	Shamir Kabir Sarkar Chief Engineer	17/08/22	MD. Abul Mubashir Division Engineer	BEZA
3-VENT 3.50M X 6.50M R.C.C. CULVERT AT MIRSARAI	AD/MS/27/24/2 (BEZA-05-171)	1:100	August, 2022	SA. Robin Islam DAD Operator	Shamir Kabir Sarkar Chief Engineer	17/08/22	MD. Abul Mubashir Division Engineer	BEZA



*দয়ালদেবনাথ*  
দয়ালদেবনাথ  
মুগদসভিব  
ব্যবস্থাপক (এম আই এস ও দরবেদা)

  
 Bangladesh Water Development Board  
 Director  
 Arifur Rahman  
 Director  
 Ministry of Water Resources  
 Government of the People's Republic of Bangladesh



NOTES :

1. All Dimensions are in mm Unless otherwise Specified.
2. 28 Days Cylinder Strength of Concrete,  $f_c' = 30$  MPa
3. MS Angel L 75 x 75 x 6 Will be Placed at Box End As Nosing.
4. Foundation Level will be Placed about 600mm Below Lowest Natural Bed Level.
5. Sand Cushion Shall be with Well Grade Medium Sand (FM=0.8)
6. Allowable Bearing Capacity of the Soil Beneath the Box Culvert Shall be 80 KN/m<sup>2</sup>

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 ১৬/০৯/১৯  
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 ১৬/০৯/১৯  
 ১৬/০৯/১৯  
 ১৬/০৯/১৯

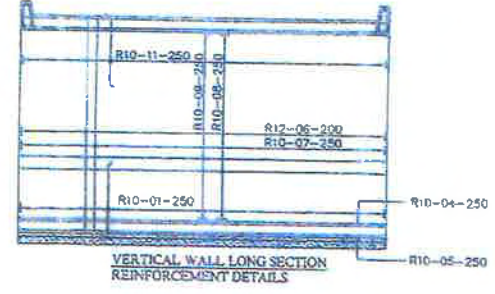
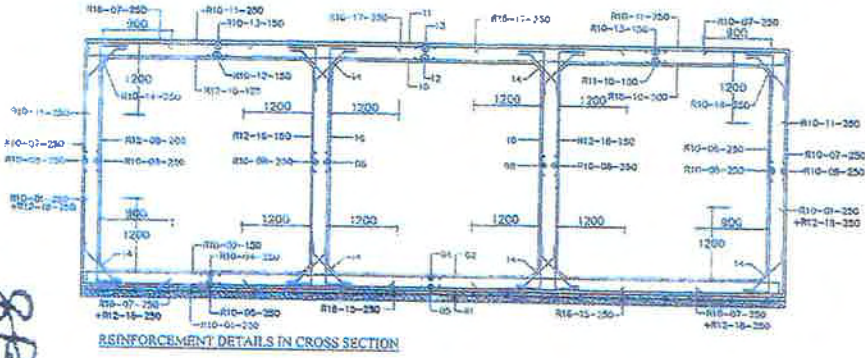
 BANGLADESH WATER DEVELOPMENT BOARD	3-CHAMBER 3.50M XL 6.0M R.C.C. CULVERT	DRAWN BY: AZDIN-BE/S/17 BEZA-C/S/214	CHECKED BY: S. Khatun (Sd/-) C/O. Asst. Engr.	SECRETARY (Exec. Secy.) Director General	Mr. Asad Hossain Deputy Engineer	Mr. M.S. Hossain Deputy Engineer	BEZA	DATE:	SCALE:
	3-CHAMBER CULVERT AT PLAN SECTION & ELEVATION	Project No.						BEZA	



Prime Minister's Office  
Govt. of the People's Republic of Bangladesh

Director  
Anisur Rahman

*আব্দুল*  
দারানন্দ দেবনাথ  
মুখ্যসচিব  
স্বরাষ্ট্রসচিব (এম আই এস ও গবেষণা)



NOTES:

1. 28 DAYS CYLINDER STRENGTH OF CONCRETE:  $f_c' = 30 \text{ MPa}$
2. MINIMUM YIELD STRENGTH OF STEEL:  $f_y = 400 \text{ MPa}$
3. CLEAR COVER: 50 mm,
4. VERTICAL & HORIZONTAL SEPARATORS ARE TO BE PROVIDED AT CONJESTION ZONES.
5. ALL DIMENSIONS IN mm UNLESS OTHERWISE SHOWN.

*১৫/০৫/১৬*

স্বরাষ্ট্রসচিব (এম আই এস ও গবেষণা)  
স্বরাষ্ট্রসচিব (এম আই এস ও গবেষণা)  
স্বরাষ্ট্রসচিব (এম আই এস ও গবেষণা)

3-VENT 3.5M X 6.6M R.C.C. CULVERT AT MIRSARAI BZ	APR-6678(01) (BEZA-CO-271)	Dr. K. M. Uddin S-2 Engineer	Engr. Nurul Haque Civil Engineer	Mr. M. A. Hossain Deputy Engineer	Dr. V. G. Hossain Team Leader	BEZA				
3-VENT CULVERT AT REINFORCEMENT DETAILS IN CROSS SECTION	DATE: 15/05/16	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>					





**Anisur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

- 1. APPROVED FOR SAMPLE 1000 DMS-4012 STEEL BAR THE TENSILE BAR MARK AT 0.5% OF 2.00MM, CENTRES IS SHOWN
- 2. APPROXIMATE COVER OF MAIN REINFORCEMENT BAR IS TO BE 30MM (OTHERWISE MENTIONED)
- 3. ALL DIMENSIONS ARE IN MILLIMETRE UNLESS OTHERWISE MENTIONED
- 4. ALL DIMENSIONS ARE IN METRE UNLESS OTHERWISE MENTIONED
- 5. 10 DMS-4012 IS RUNNING NORTH TO SOUTH CORNER TO CORNER

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দয়ানন্দ দেবনাথ  
 যুগ্মসচিব  
 ব্যবস্থাপক (এস আই এস ও পবেষণা)

মোঃ সৌদাম মোহাম্মদ  
 উপ-প্রকল্প (সি:সি)  
 দিল্লী ও সান্তি বিভাগ  
 পরিকল্পনা কমিশন, পরিকল্পনা মন্ত্রণালয়



PROJECT NAME	CLIENT	SCALE	DESIGNER	DESIGNED BY	CHECKED BY	APPROVED BY	DATE
PROJECT 30KM X 5.60KM R.C.C CULVERTY AT KUSUMBAJEEZ	AR/16-02/14/VI/0472A-C6-2011	SH Khatun 0102 CAD Operator	Sabbir Hossain 0102 Chief Engineer	Mr. HASSANUZZAMAN Design Engineer	Dr. V.G. Hossain Team Leader	BEZA	01/08/2020
REPORT AT LONG SECTION OF CULVERT (SECTION A-A)	August, 2020						

S-05

Govt. of the People's Republic of Bangladesh  
Prime Minister's Office

Director  
Anisur Rahman



BAR SCHEDULE FOR DECK SLAB OF 3x3.5mX5.10m BOX CULVERT

ITEM	NO	BAR MARK	BAR S DIA	NO OF BAR	SHAPE CODE	BENDING DIMENSIONS(MM)				CUT LENGTH(MM)	TOTAL NO OF BARS	TOTAL LENGTH(M)	UNIT WT. OF BAR(KGM)	TOTAL WT.(KOL)
						A	B	C	D					
BOX PART	1	Y 10	45	14	11780	300				12180	45	548.100	0.617	337.92
		Y 10	74	14	11780	1475				14690	74	1097.060	0.617	870.21
		Y 10	44	1	11900					11900	44	523.800	0.617	322.82
		Y 10	46	1	11900					11900	49	583.100	0.617	359.50
		Y 10	32	14	5875	500				8875	112	747.600	0.688	663.73
		Y 10	44	1	11900	1175				8025	90	722.250	0.617	445.29
		Y 10	44	1	11900					11900	44	523.600	0.617	322.82
		Y 10	44	1	11900					11900	44	523.600	0.617	322.82
		Y 10	89	14	11750	150				12050	89	1060.400	0.898	941.44
		Y 10	45	14	11750	1475				14700	45	661.500	0.617	407.84
		Y 10	76	14	10800	150				11100	75	843.600	0.617	520.11
		Y 10	90	14	10800	150				11100	90	999.000	0.617	567.49
		Y 10	528	13	300	500	300			1100	528	580.800	0.617	358.02
		Y 10	90	1	2750					2750	90	247.500	1.578	390.64
		Y 10	90	1	2750					2750	90	247.500	1.578	390.64
		Y 10	266	14	5875	500				6675	299	1975.800	0.886	1754.34
		Y 10	98	1	11900					11900	98	1047.200	0.617	645.64
		BOTTOM SLAB (SLOPE)	2	Y 10	17	14	16900	775				17350	34	589.900
Y 10	17			14	16900	300				18100	34	557.600	0.617	343.78
Y 10	24			2	4725	150				4875	108	526.900	0.617	324.61
Y 10	20			2	2500	150				2650	44	116.600	0.617	71.53
Y 10	24			2	4725	150				4875	108	526.600	0.617	324.61
Y 10	22			2	2500	150				2650	44	116.600	0.617	71.59
WING WALL	4	Y 10	34	14	3400	180	3000			5350	216	1188.800	0.889	1064.31
		Y 10	23	2	150	5000				5180	92	473.800	0.617	292.12
		Y 10	23	2	150	5000				5150	92	473.800	0.617	292.12
		Y 10	34	13	300	500	300			1100	136	149.600	0.617	92.23
U/S CUT OFF WALL	1	Y 10	99	7	150	1200				3300	99	326.700	0.888	290.06
		Y 10	10	1	19450					19450	10	164.600	0.617	119.92
D/S CUT OFF WALL	1	Y 10	10	1	19450					19450	10	164.600	0.617	119.92
		Y 10	98	7	150	1400				3700	99	366.300	0.888	325.21
		Y 10	12	1	19450					19450	12	233.400	0.617	143.90
RAIL SPOST	19	Y 10	12	1	19450					19450	12	233.400	0.617	143.89
		Y 10	4	11	75	1575	300			1350	72	140.400	1.578	221.60
RAIL BAR	6	Y 10	6	7	150	150				700	108	75.600	0.222	16.78
		Y 10	4	1	11850					11850	24	284.400	0.888	252.49
		Y 10	64	7	100	100				500	384	192.000	0.222	42.62

Note: Barbonding should be adjusted as per field condition

TOTAL WT. OF STEEL(Kasi) = 30882.34

PROJECT NAME	3.5M X 3.5M X 5.10M R.C.C. CULVERT AT MARSARAI-2	DESIGNED BY	Arifur Rahman (BS-2/2010/271)	CHECKED BY	Sir Jaku-1000 (S.D. Engineer)	APPROVED BY	Engr. Md. Kamrul Islam (S.D. Engineer)	SCALE	1:1	DATE	15/07/2020	DR	Dr. Md. Anwarul Hossain (S.D. Engineer)	SR	Dr. Md. Anwarul Hossain (S.D. Engineer)	REVISION		NO.		DATE	
CLIENT NAME	BAR SCHEDULE FOR DECK SLAB OF 3x3.5mX5.10m BOX CULVERT	APPROVED BY		DATE		PROJECT NO.		SCALE		DATE		DR		SR		REVISION		NO.		DATE	

S-06

# BOQ & ESTIMATE

Construction of 3 Vent RCC Culvert for Mirsarai EZ.

Cost : BDT. 2,04,36,551.88

*১০/১০/১৮*  
স্বাক্ষরিত  
মন্ত্রণালয়  
সংস্করণ (১০/১০/১৮)  
সংস্করণ

*Anisur Rahman*  
Anisur Rahman  
Director  
Prime Minister's Office  
Govt. of the People's Republic of Bangladesh



*Approved*

স্বাক্ষরিত (১০/১০/১৮)  
সংস্করণ (১০/১০/১৮)  
সংস্করণ (১০/১০/১৮)  
সংস্করণ (১০/১০/১৮)

**BILL OF QUANTITY (BOQ)**

Name of Work: Construction of 1(one) no. 3 Vent Culvert at Mirsarai EZ.  
 Package No: BEZA WD-  
 Date of Agreement:

SL. No.	Item Code	Description of Work	Unit	Quantity	Unit Rate (Tk.)	Total Amount (Tk.)	Remarks
1	RHD-2/1/0	Clearing and grubbing by removal and disposal of everything above ground level including overhanging branches, removing of all foundation stumps, embedded logs, tree roots and other material either to a depth of 0.3m below the proposed surface elevation or to the level as shown on the drawing, disposing of all materials resulting from clearing and grubbing at a safe distance, etc. all complete as per direction of the E-I-C.	Sqm	483.12	55.00	26,571.80	
2	PWD-02.1.5	Making earthen ring/ cross bundh of required height and width to prevent water from entering in the working area for any type of foundation with earth arranged and carried by the contractor including bullah/bamboo palisading and double tarja mat/drum sheets wailing as and where necessary, maintaining the some throughout the working period, filling by throwing earth in layers, removal of structure totally on completion of the bridge, etc. all complete as per requirement and instruction of the E-I-C.	L.S	1.00	3,000,000.00	3,000,000.00	
3	LGED-4.05.04	Earth work in excavation of foundation of structures by mechanical (Hydraulic excavator - Long Boom)/ manual means in all sorts of soil up to specified depth in accordance with requirements of lines, grades, cross sections and elevation as shown in the drawing including setting out, removal of stumps, logs, boulders and other deleterious materials, providing necessary tools and plants, construction of shoring and bracing, cleaning the excavated materials to a safe distance out of the site premises, cut to a firm surface including pumping/ bailing out water, removal of spoils to a safe distance, dressing of sides and bottom and backfilling of trenches up to original level with approved material etc. all complete as per approval of E-I-C. Contractor shall get acquainted with site conditions, nature of soil and adopt suitable adequate dewatering system as deemed fit for the nature of soil and prevailing water table to get the surface reasonably dry for laying PCC at the time of execution so that execution will not be hampered or delayed. Back-filled materials shall be compacted to a density comparable with the adjacent undisturbed material.	Cum	1,506.93	217.00	327,003.39	



**Anisur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the Peoples Republic of Bangladesh

সারসারি (স্বাক্ষর করা হয়েছে)  
 মন্ত্রণালয় পরিদপ্তর  
 ১৭/০৩/১৯

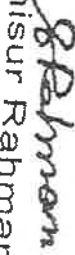
170

*(Signature)*  
 প্রকল্প পরিচালক  
 জাতীয় সড়ক পরিবহন কর্তৃক পরিচালিত  
 বাংলাদেশ সরকার


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Sl. No.	Item Code	Description of Work	Unit	Quantity	Unit Rate (Tk.)	Total Amount (Tk.)	Remarks
4	RHD-4/7/05	Supplying and filling sand in foundation of hydraulic structures, buildings and in protective works with selected sand, in 150mm thick layer, including levelling, dressing, ramming, watering etc. complete (compacted to 50% relative density by manual labour using mallet/ vibro compactor) as per direction of Engineer in charge.	Cum	297.35	1,381.00	410,634.36	
5	RHD-5/1/2a	Concrete Class as Detailed on Drawings (Class10) (Concrete Mixer)	cum	44.61	9,517.00	424,566.45	
5	RHD 05/01/2k	Concrete class -30 (Deck slab, wing wall, wheel gurd, curb etc) (Concrete Mixer)	Cum	631.50	17,751.00	11,209,815.10	
6	RHD-4/7/06	High Yield Reinforcement Bars	Ton	30.89	83,320.00	2,882,873.54	
7	LGED-4.11.05	Providing nosing with MS angles of different sizes, including cost of all materials, welding, carrying, etc. all complete as per design, drawing and direction of the E-I-C.	Kg	140.08	144.16	20,193.93	
8	LGED-4.13.01	Providing and laying wearing course on deck slab of bridge with minimum cement content relates to mix ratio 1:1.5:3 and maximum water cement ratio 0.4 having minimum required average strength, $f_{cr} = 33.5$ MPa and satisfying a compressive strength $f_c = 25$ MPa at 28 days on standard cylinders as per standard practice of Code AASHTO/ ASTM and cement conforming to BDS EN 197-1 : 2003 CEM-II/A-L/M/V/W 42.5N, Coarse sand of minimum FM 2.5 and 6mm down well graded crushed stone chips broken from boulders (preferably stone chips from Madhyapara, Dinajpur, LAA value not exceeding 30), including breaking stone boulders into chips, screening through proper sieves, casting, finishing complete to camber and grade, compacting, curing at least for 28 days, etc. including cost and carriage of all materials, labour, water, electricity, other incidental cost etc. all complete as per design, drawing, specification & directionn of E-I-C.	Cum	6.44	10,719.62	69,007.55	
9	LGED-4.01.05.02	Maintenance, Staffing, Security and Cleaning of the Field Office for the Engineer	LS	1.00	592,435.55	592,435.55	
10	ENV	Environmental work as per Environmental Management Plan (EMP).	LS	1.00	1,500,000.00	1,500,000.00	
<b>TOTAL (BDT)</b>						<b>20,436,551.88</b>	

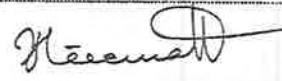
171

  
**Anisur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh



  
 দায়িত্ব দেবনাথ  
 ম্যানেজিং  
 ডিরেক্টর  
 আই এম ও গবেষণা

  
 সিনিয়র সিস্টেম এনালিস্ট  
 আই এম ও সিস্টেম বিভাগ  
 পরিচালনা কমিশন, গازیপুরা নগরালয়

  
 Dr. V.G. Hiremath  
 Team Leader  
 aarvee -BETS JV  
 TAS FOR D&S of Infrastructure Works at Mirsarai EZ  
 Bangladesh Economic Zone Authority

Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh  
 Director  
 Anisur Rahman



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Estimate for Construction of 3-VENT Culvert (Ch. 2+980Km)										Remarks
Sl No.	Description of Work	Unit	Area	No.	Length	Width/Dia.	Height	Area/Volume	Quantity	Work done
			m2		m	m	m	m2/m3		
					18.6	39.5		734.70		
1	Clearing and grubbing	Sqm							734.70	
2	Making earthen ring/ cross bundh	LS							1.00	
3	Earth work in excavation of foundation	Cum								
	Foundation Bed			2.00	15.30	16.55	2.25	1139.47		
	Mid slab			1.00	10.90	13.50	2.25	331.09		
	Cutoff wall			2.00	19.04	0.500	1.91	36.37		
									1,506.93	
4	Sand filling in foundation trenches and plinth	Cum								
	Foundation Bed			2.00	14.30	15.55	0.500	222.37		
	Mid slab			1.00	10.90	12.50	0.500	68.13		
	Cutoff wall			2.00	19.04	0.450	0.400	6.86		
									297.35	
5	Mass concrete (1:3:6) in foundation									
	Foundation Bed			2.00	14.30	15.55	0.075	33.35		
	Mid slab			1.00	10.90	12.20	0.075	9.97		
	Cutoff wall			2.00	19.04	0.450	0.075	1.29		
									44.61	
6	Concrete class -30 (Deck slab, wing wall, wheel aurd. curb etc) (Batching Plant)	Cum								
	Foundation Bed			2.00	14.30	15.55	0.500	222.37		
	Mid slab			1.00	10.90	12.50	0.500	68.125		
	Cutoff wall			2.00	19.04	0.300	1.410	16.11		
	Vertical Wall			2.00	10.90	0.500	6.60	71.94		
				2.00	10.90	0.500	6.60	71.94		
	Deck Slab			1.00	10.90	12.50	0.350	47.69		
	Wingwall		55.98	4.00			0.500	111.96		
	Filet		0.113	12.00	10.90			14.715		
	Handrail Column		9.00	2.00	0.200	0.200	1.050	0.756		
	Handrail Beam		24.00	2.00	1.300	0.150	0.150	1.404		
	Kerb			2.00	12.50	0.300	0.600	4.500		
									631.50	

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Estimate for Construction of 3-VENT Culvert (Ch. 2+980Km)										
Sl No.	Description of Work	Unit	Area m2	No.	Length m	Width/D ia. m	Height m	Area/ Volume m2/m3	Quantity Work done	Remarks
7	Supplying, Fabrication and fixing to details as per design deformed bar	Ton							30.89	
8	(LGED-4.11.05) Providing nosing with MS angles of different sizes, including cost of all materials,	Kg	6.80	2.00	10.30			140.080	140.08	
9	(LGED-4.13.01) Providing and laying wearing course on deck slab of bridge with minimum cement content relates to mix ratio 1:1.5:3 and maximum water cement ratio 0.4 having minimum required average strength, $f_{cr} = 33.5$ MPa and satisfying a compressive strength $f_c = 25$ MPa at 28 days on standard cylinders as per standard practice of Code AASHTO/ ASTM and cement conforming to BDS EN 197-1 : 2003 CEM-II/A-L/M/V/W 42.5N, Coarse sand of minimum FM 2.5 and 6mm down well graded crushed stone chips broken from boulders (preferably stone chips from Madhyapara, Dinajpur, LAA value not exceeding 30), including breaking stone boulders into chips, screening through proper sieves, casting, finishing complete to camber and grade, compacting, curing at least for 28 days, etc. including cost and carriage of all materials, labour, water, electricity, other incidental cost etc. all complete as per design, drawing, specification & direction of E-I-C.	Cum		1.00	10.30	12.50	0.050	6.438	6.44	
10	Environmental work as per Environmental Management Plan (EMP)	LS							1.000	

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Anisur Rahman  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

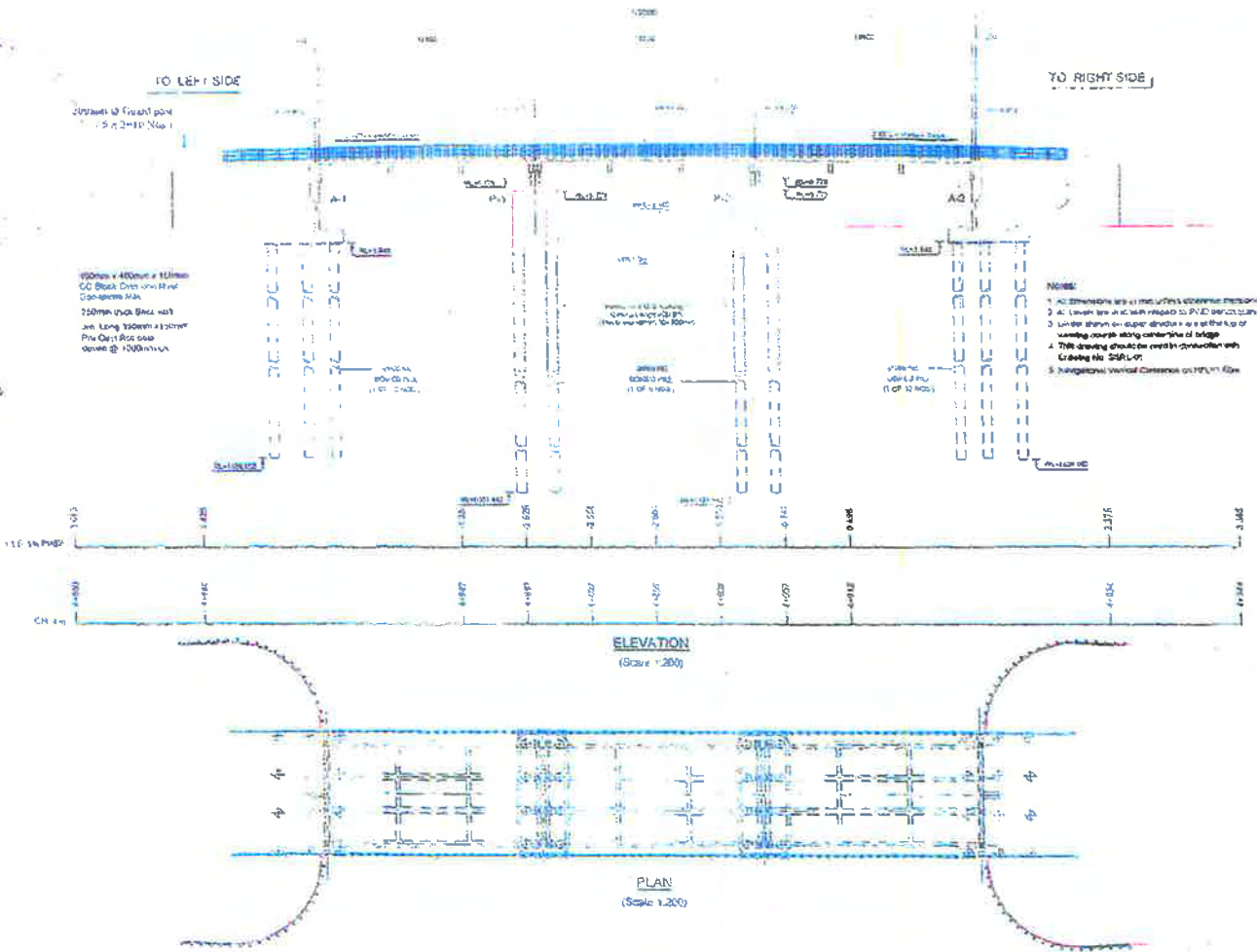


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প্রকল্প পরিচালক  
 জাতীয় সড়ক প্রকল্প (সি. ১১)  
 সড়ক ও জনস্বাস্থ্য বিভাগ  
 বাংলাদেশ সরকার, ঢাকা



১৩/১০/১৯  
 প্রকল্প পরিচালক  
 বাংলাদেশ  
 জাতীয়  
 উন্নয়ন  
 কর্তৃপক্ষ  
 (১৩৬ বঙ্গবন্ধু সড়ক ও গণপথ)



**Anisur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh  
 17/

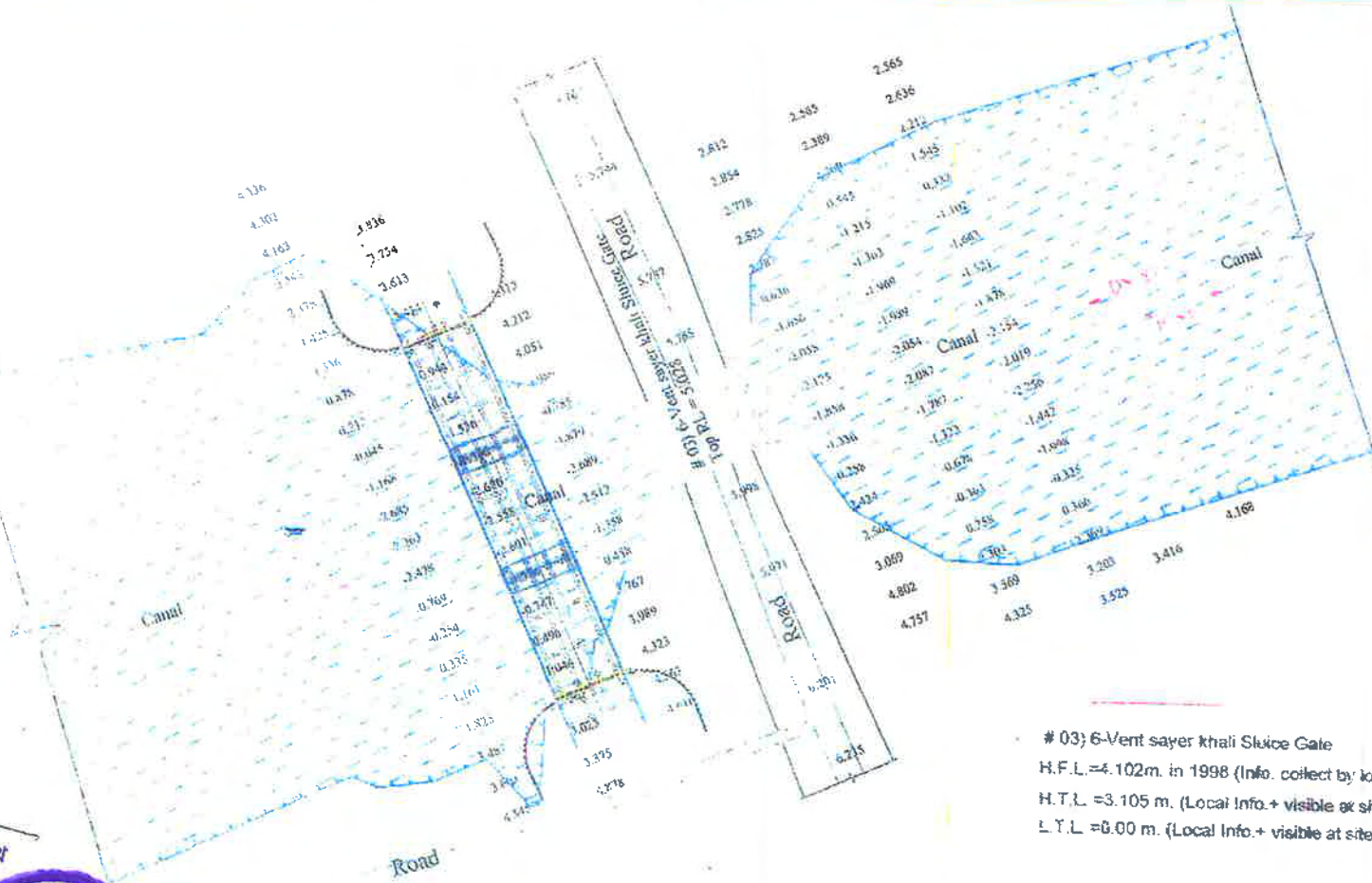
১৩/১০/১৯  
 প্রকল্প পরিচালক  
 বাংলাদেশ  
 জাতীয়  
 উন্নয়ন  
 কর্তৃপক্ষ  
 (১৩৬ বঙ্গবন্ধু সড়ক ও গণপথ)

Bangladesh Economic Zones Development Project Mirpur EJ	Aenver-QETS(AV) (BEZA-CS-2/11)	Sr. Kallin Uddin CAD operator	Subrata Kumar Sarker Civil Engineer	MSJ Abdul Wahabque Design Engineer	Dr. V.G. Hiramath Team Leader	BEZA	NO REVISION	DATE
COMMISSION OF THE PEOPLE'S REPUBLIC OF BANGLADESH PEOPLE'S REPUBLICAN DISTRICT COMMISSION	September, 2016							

Anisur Rahman  
 Director  
 Prime Minister's Office  
 People's Republic of Bangladesh

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দায়িত্ব দেবনাথ  
 যুগান্তিক  
 ব্যবস্থাপক (এস আই এন ও)



# 03; 6-Vent sayer khali Sluice Gate  
 H.F.L. = 4.102m. in 1998 (Info. collect by local people)  
 H.T.L. = 3.105 m. (Local Info. + visible at site)  
 L.T.L. = 0.00 m. (Local Info. + visible at site)

Bangladesh Economic Zone Development Project Phase II	YAS Firm, RPWC (BEZA-S-103)	Sr. Kalam Uddin CAD operator	Subrata Kumar Sarkar Office Engineer	Md. Abdul Alaque	Dr. V.G. Hironath Team Leader	BEZA	No. Date
CONSTRUCTION OF 40m x 4.0m DRAINAGE STRUCTURE WITH 6 VENT SLUICE GATE	August 2020						

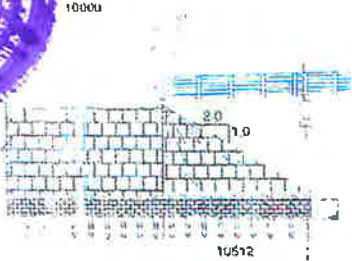
*R. Sarkar*

বাংলাদেশ জল উন্নয়ন কর্তৃপক্ষ  
 ঢাকা  
 প্রকল্প পরিচালক  
 জল উন্নয়ন, পানিসিদ্ধতা ও বন্যপ্রাণি

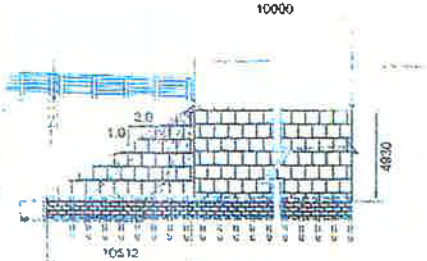


স্বাক্ষরিত  
 প্রকৌশলী  
 কাজী মাহমুদুল হক (সিনিয়র সিস্টেম এনালিস্ট)

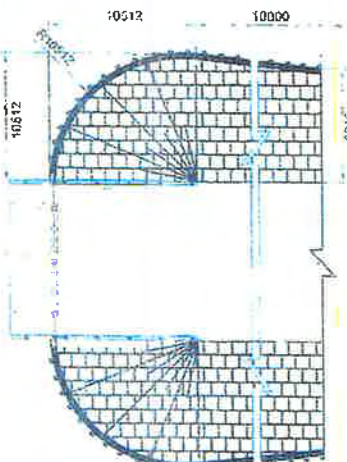
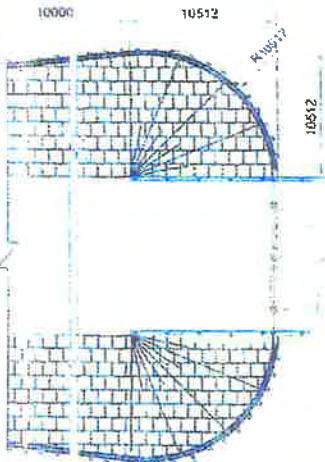
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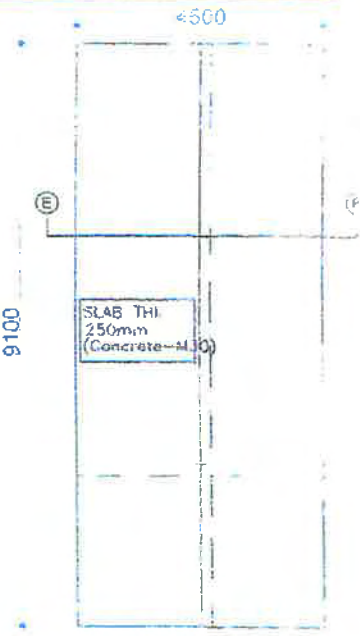
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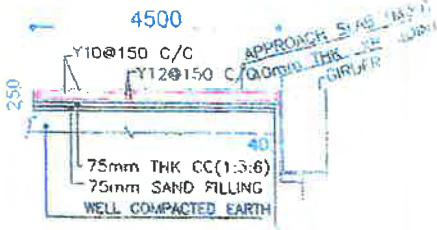
*Anisur Rahman*  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh



150mm X 150mm X 3000mm  
 Pre-Cast RCC Post Driven  
 @1000 mm C/C.



APPROACH SLAB DETAIL



SECTION E-E

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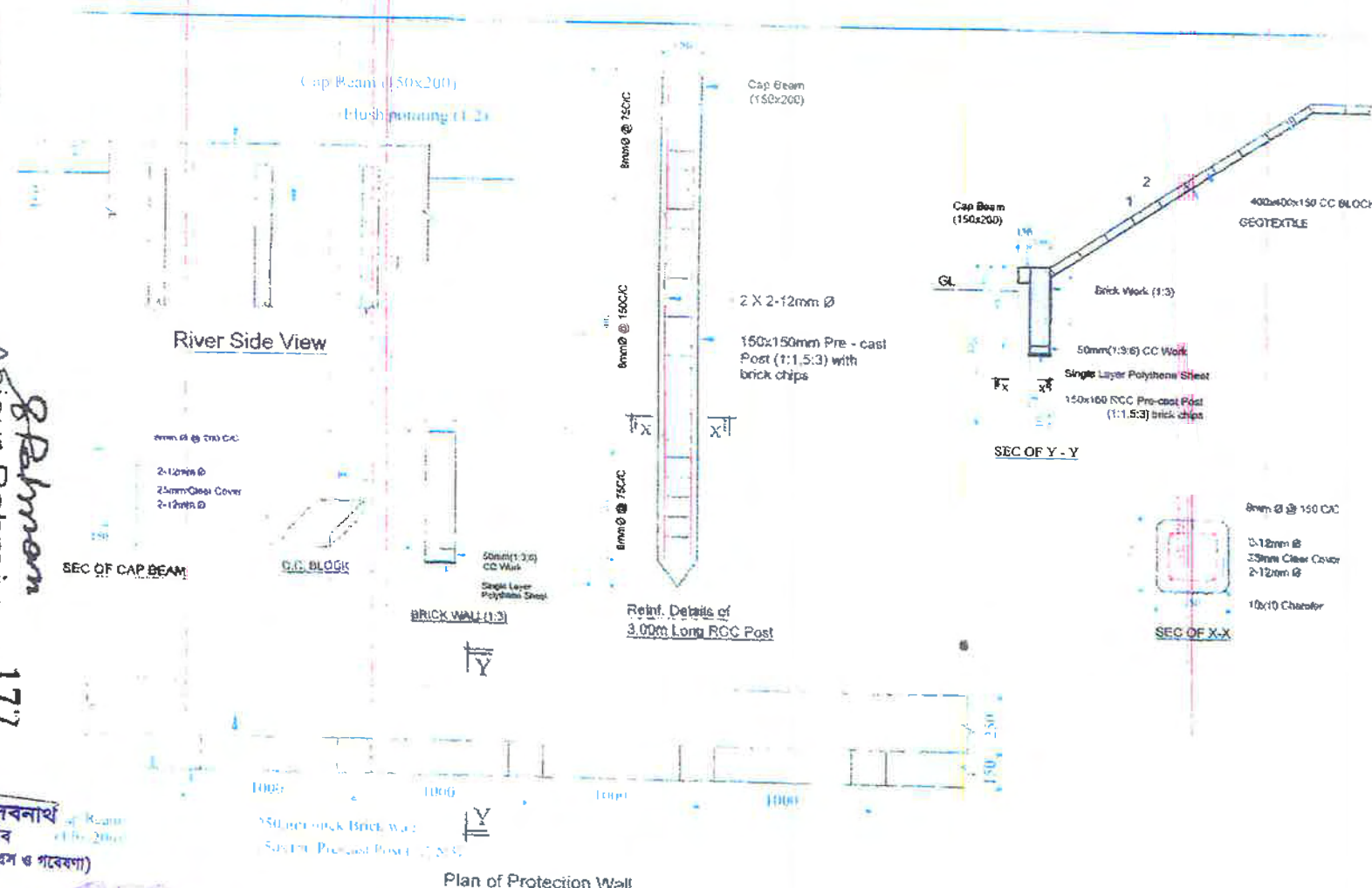
*Pranto*  
 প্রকৌশলী  
 কাজী মাহমুদুল হক (সিনিয়র সিস্টেম এনালিস্ট)

BANGLADESH ECONOMIC ZONES AUTHORITY  
 BEZA

Bangladesh Economic Zones Development Project Masumia EZ	TAS Firm: IPRAC (BEZA-S-145)	Sr. Khalim Uddin CAD operator	Subrata Kumar Saha Office Engineer	Md. Abdur Molloque	Dr. V.G. Hossain Team Leader	BEZA	
CONSTRUCTION OF 60M X 60M ROADSIDE UPAZILA BARTHANAL GAZIABAD DISTRICT	August, 2020	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>		

Director  
 Anisur Rahman  
 The Minister's Office  
 People's Republic of Bangladesh

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দায়িত্ব দেবনাথ  
 যুগ্মসচিব  
 কার্যালয় (এম জি এস ও গবেষণা)

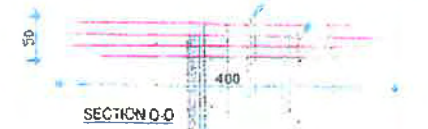
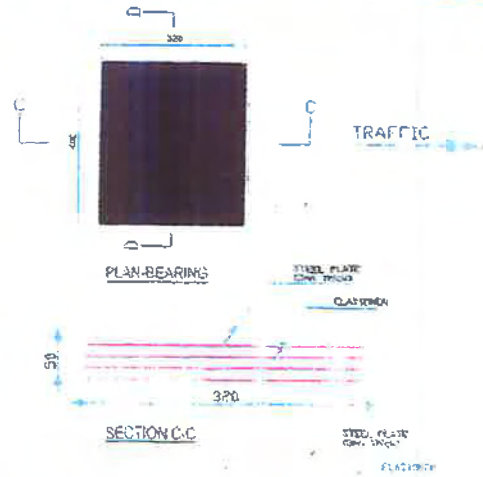
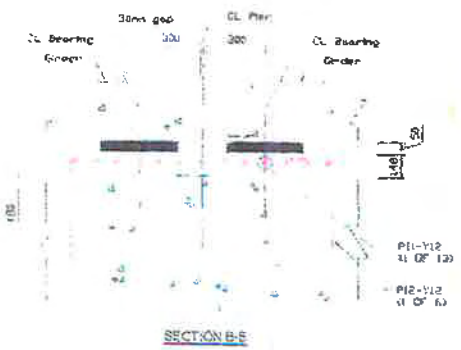
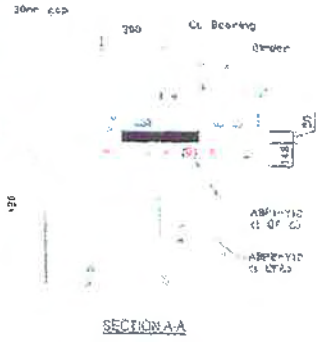


Project Name	YAS Fm, R/RMCD (RE2A-S-103)	St. Kalim Uddin CAD operator	Success Kumar Sarkar Chief Engineer	Md. Abdul Maleque	Dr. V.G. Hymath Team Leader	BEZA	NO	REVISION	DATE
Project Location	August 2020						01		
Project Description	CONSTRUCTION OF 60m RCC PROTECTIVE BRIDGE AT ADAR, MARSHAL DISTRICT, CHATTOGRAH						02		
							03		
							04		
							05		

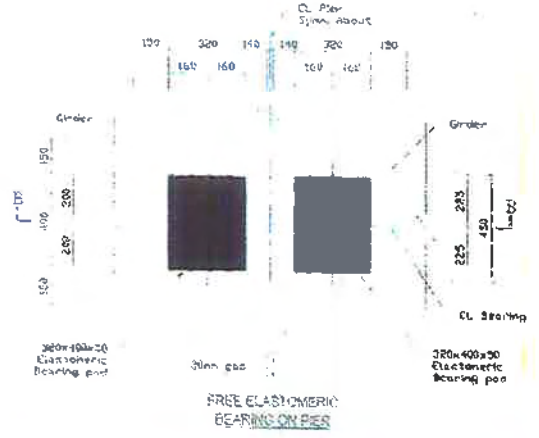
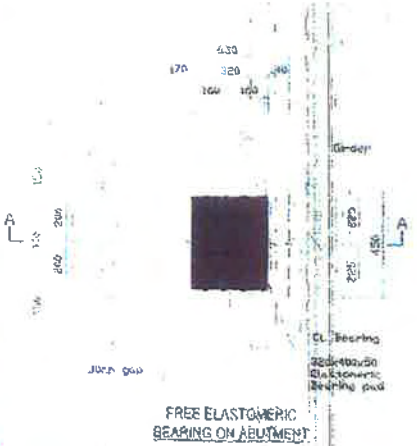
RAHMAN  
 ১০/০৮/২০  
 ১০/০৮/২০

Government of Bangladesh  
 Ministry of Transport, Road, and River Transport  
 Dhaka  
 Office of the Chief Engineer  
 Bangladesh Road Transport Corporation  
 Dhaka

Remarks on Negarene Bearing Seat  
 - bearing seat not to be out of level by more than ± 0.5mm  
 - bearing seat to be plane.



- NOTES:
- Thickness of exterior layer of elastomer=5.0mm
  - Thickness of interior layer of elastomer=5.0mm
  - Thickness of steel plate=30mm
  - Total thickness of bearing = 30+30+30+5+5=50.0mm



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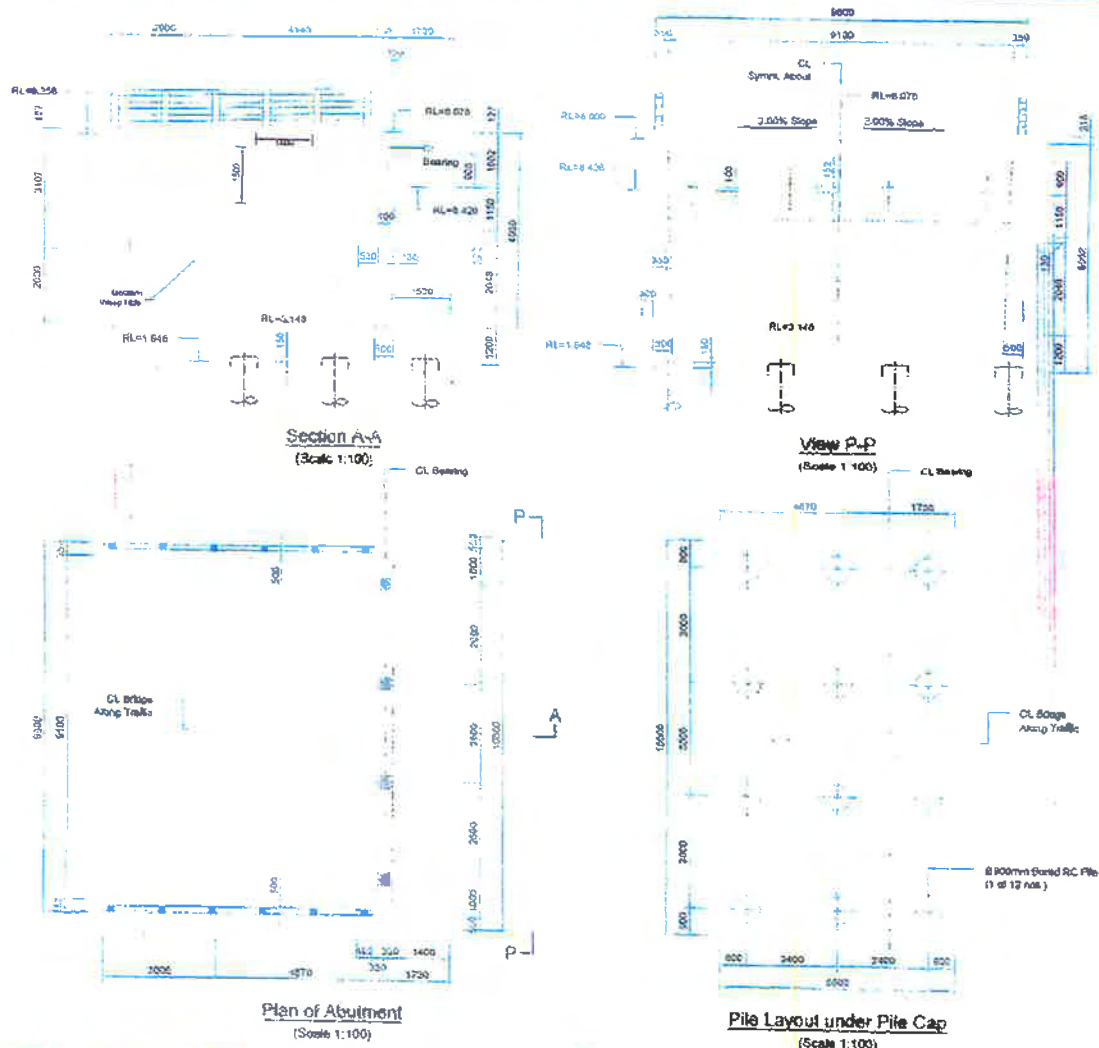
Approved  
 Chief Engineer  
 Bangladesh Road Transport Corporation  
 Dhaka

Bangladesh Economic Zones Authority (BEZA) Construction of Spun CC underpass at GAZA, MIRAHA, DISTRICT DHAKA	T&S PWA, RW&C (BEZA-G-105)	Sr. Kalim Uddin CAD operator	Subrata Kumar Senita Office Engineer	Md. Abdul Maleque	Dr. V.G. Hiranesh Team Leader	BEZA	SHEET NO.	DATE
	August, 2020							

*Anisur Rahman*  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

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*Ain*  
 দায়ানন্দ দেবনাথ  
 মুগাচিবি  
 ব্যবস্থাপক (এম এম ই এস ও পরবেশ)



Bangladesh Economic Zones Development Project Mirsad EP	T&S Plan, R&MC (BEZA-S-103)	SK Kaim Uddin CAD operator	Subrat Kumar Sanyal Civil Engineer	Md. About Hossain	CHECKED BY Dr. V.G. Hossain Town Leader	APPROVED BY BEZA	NO. / 01 02 03 04 05	REVISION     	DATE     
CONSTRUCTION OF 66.11 KV C.C. POWER BRIDGE UNDER: MURSHIDABAD DISTRICT - CIVIL WORKS	August, 2020						    	    	

*Anisur Rahman*  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

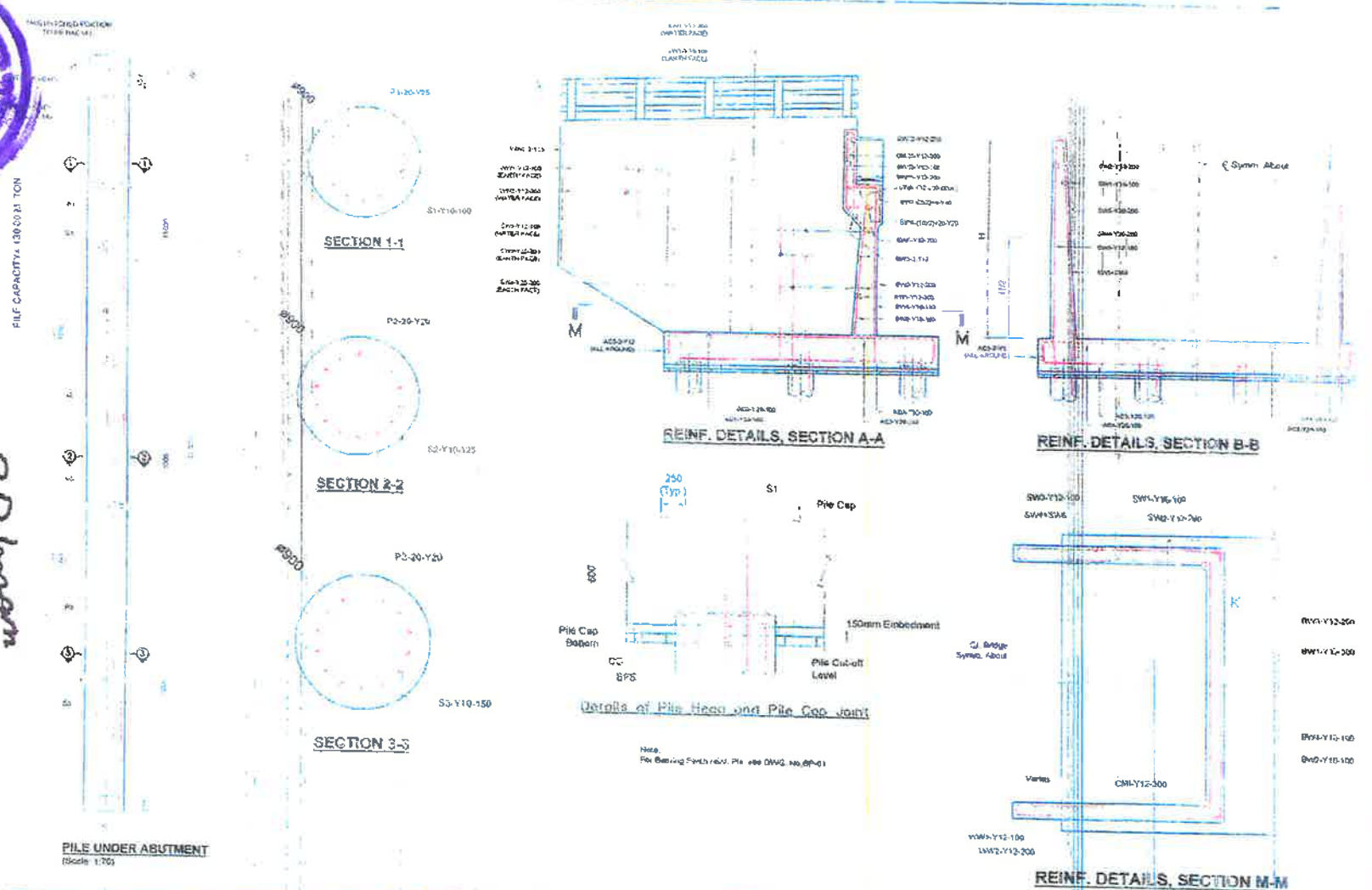


স্বাক্ষরিত (স্বাক্ষর করা হয়েছে)  
 স্বাক্ষরিত (স্বাক্ষর করা হয়েছে)  
 স্বাক্ষরিত (স্বাক্ষর করা হয়েছে)

**Anisur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the Peoples Republic of Bangladesh

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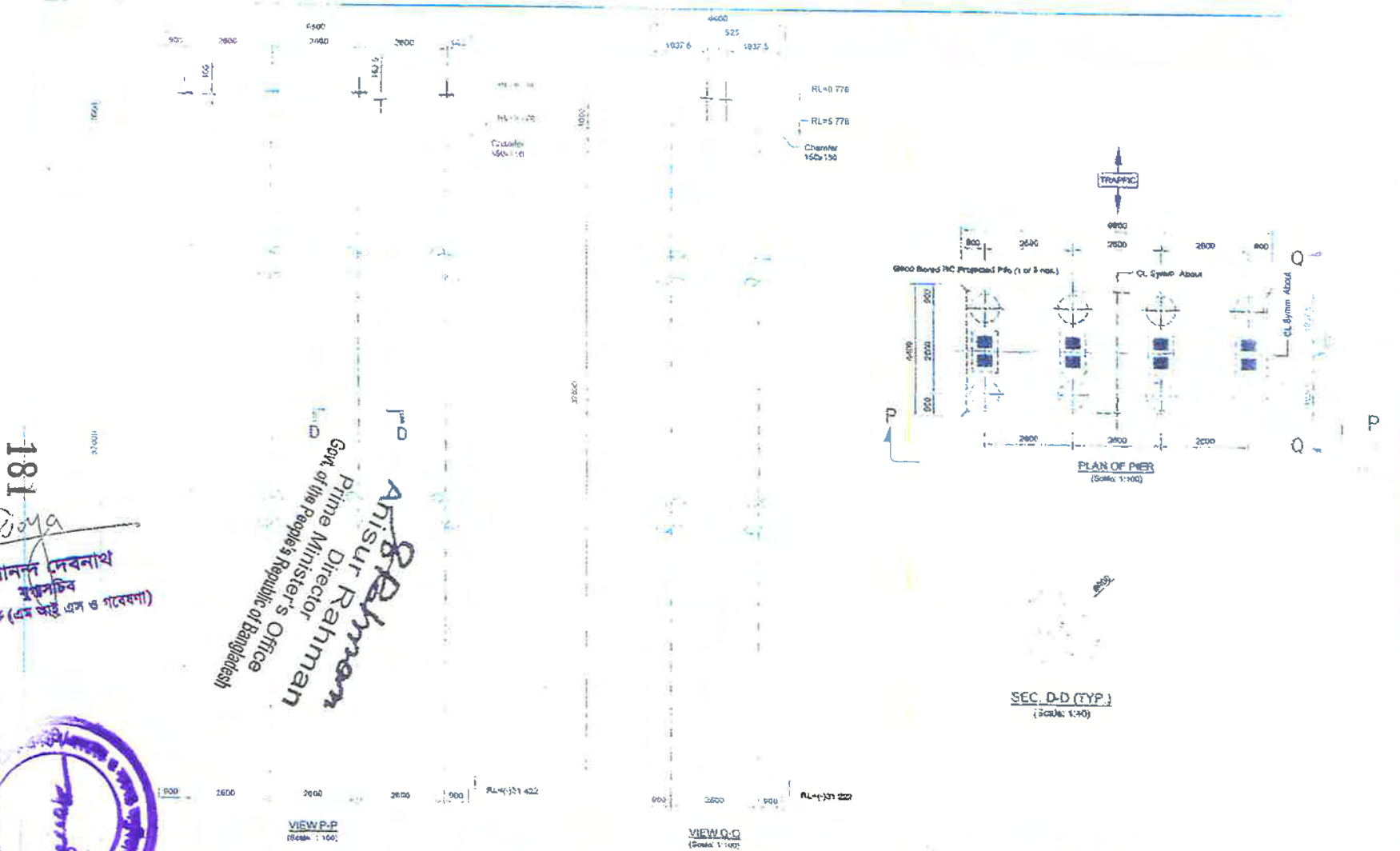
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Bangladesh Economic Zones Development Project Akkara E2	YAS Form. RP/NC (BEZA-S-103)	Sd. Kalam Uddin CAD operator	Subhas Kumar Saha Office Engineer	Md. Abdul Kholique	Dr. V.G. Hiremath Team Leader	BEZA	No. 11 Date: / / Scale: / /
	CONSTRUCTION OF 60/70 C.C. GIRDER BRIDGE (MUNDAI WARDHARA, DISTRICT CHATTOGRAM)	August, 2020	<i>Signature</i>	<i>Signature</i>	<i>Signature</i>	<i>Signature</i>	BEZA

BANGLADESH ECONOMIC ZONES AUTHORITY  
 (BEZA)





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Doya

দায়ানন্দ দেবনাথ  
স্বাক্ষরিত্ব  
স্বাক্ষরিত্ব (এস এফ এস ও গবেষণা)

Anisur Rahman  
Prime Minister's Office  
Govt. of the People's Republic of Bangladesh



PROJECT	DATE	DRAWN BY	CHECKED BY	DESIGNED BY	APPROVED BY	REVISION
Bangladesh Economic Zones Development Project Menzai EZ	TAS FRII, RPNC (BEZA-6-103)	Sh. Kalam Uddin CAD operator	Subrata Kumar Sarker Office Engineer	Md. Abdul Maleque	Dr. V.G. Mousam Team Leader	
CONSTRUCTION OF 800 P.C.C. CIRCULAR PIER UPAZILA: MIRSHAPUR, DISTRICT: CHATTOGRAM	August, 2020	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	

Rashed

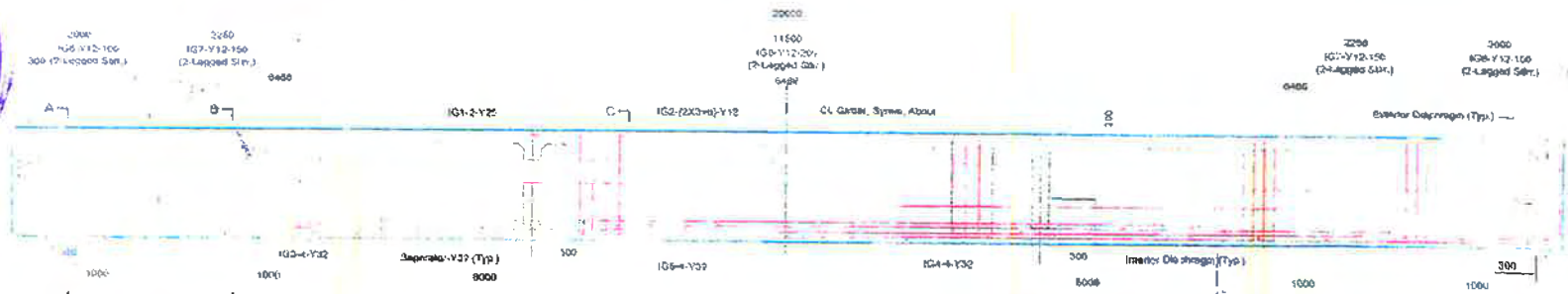
স্বাক্ষরিত্ব  
স্বাক্ষরিত্ব (এস এফ এস ও গবেষণা)  
স্বাক্ষরিত্ব, গবেষণা স্বাক্ষরিত্ব



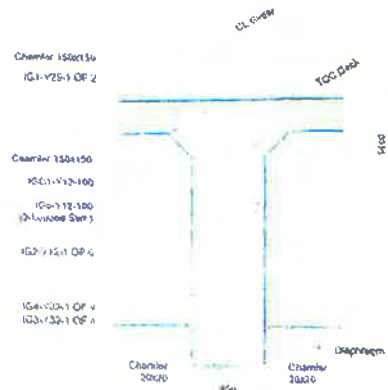
স্বাক্ষরিত (সহকারী প্রকৌশলী) *Pranab*  
 প্রকৌশল (সহকারী) *Pranab*  
 প্রকৌশল (সহকারী) *Pranab*

**Anisur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

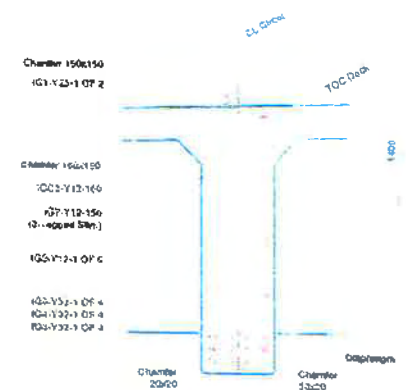
182



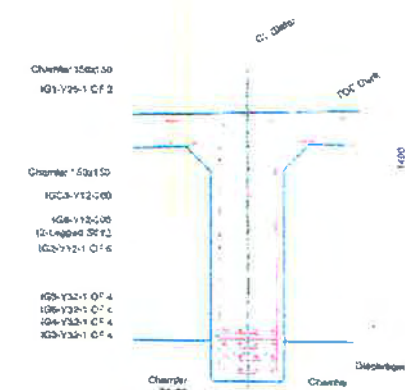
**LONG SECTION OF GIRDER REINF. DETAILS**  
 (Scale: 1:50)



**SECTION A-A**  
 (Scale: 1:20)



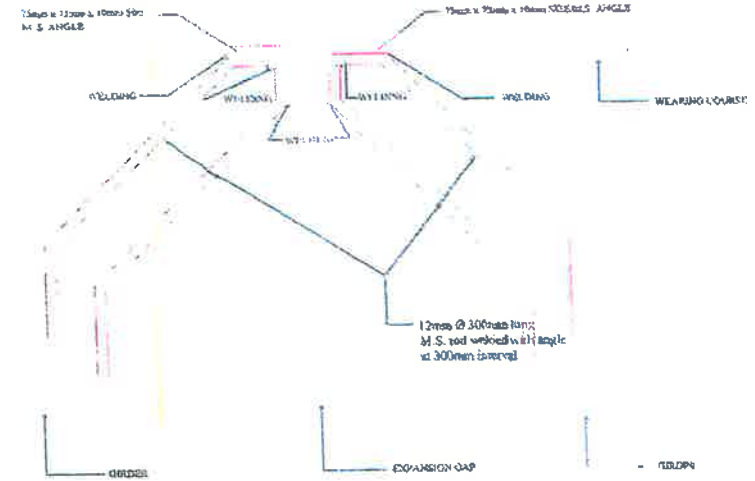
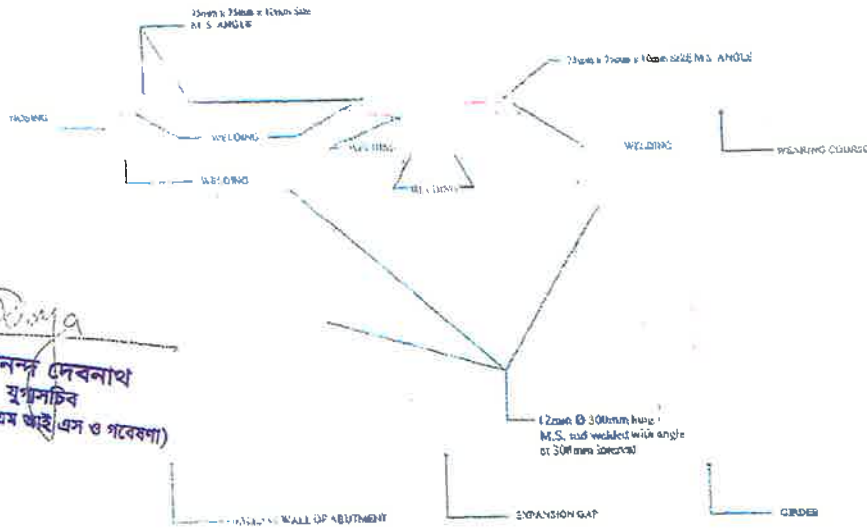
**SECTION B-B**  
 (Scale: 1:20)



**SECTION C-C**  
 (Scale: 1:20)

Bangladesh Economic Zones Development Project Mirsarai EZ BEZA	YAS FM, R/R/OC (BEZA-S-103)	SK Kalim Uddin CAD operator	Suhret Kumar Sarkar Office Engineer	Md. Aboul Maleque	Dr. V.G. Hiremath Town Leader	BEZA	NO 1 2 3 4 5
	August, 2020	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>		

BANGLADESH ECONOMIC ZONES AUTHORITY (BEZA)



CROSS SECTION OF EXPANSION JOINT OVER ABUTMENT

Scale: 1:5

CROSS SECTION OF EXPANSION JOINT OVER PIER

Scale: 1:5

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দায়ানন্দ দেবনাথ  
যুগ্মসচিব  
ব্যবস্থাসক (এম আই এস ও গবেষণা)

Prime Minister's Office  
Govt. of the People's Republic of Bangladesh

Director  
Anisur Rahman



NO.	REVISION	DATE
01		
02		
03		
04		
05		

CONSTRUCTION OF MULTI-CO. OVER BRIDGE  
CH-27, HAZARAT E-SHARIF, GAZIPUR

TAS Pw. (PwMC)  
(BEZA-S-102)  
August, 2020

SK. Kadir Uddin  
CAD Operator

Satish Kumar Sankar  
Chief Engineer

Md. Abdul Moleque

Dr. V.G. Hironath  
Team Leader

BEZA

Handwritten signature and red official stamp of the Bangladesh Economic Zones Development Authority (BEZA).

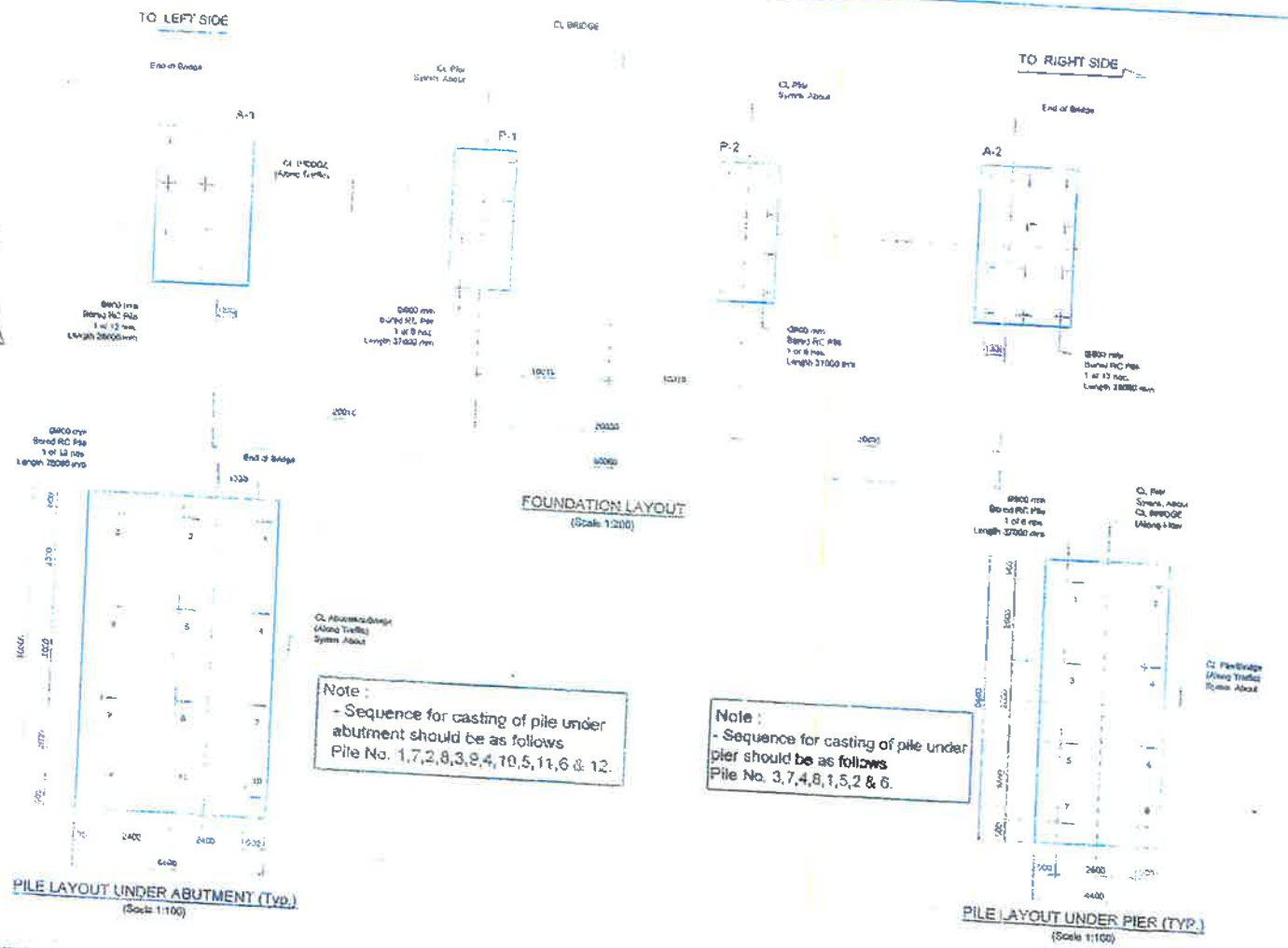


১০/১১/২০  
 বাংলাদেশ জেলা প্রশাসন  
 কুমিল্লা (১৩৫) ডি.বি.ও. অফিস

**Anisur Rahman**  
 Director  
 Prime Minister's Office  
 Govt of the People's Republic of Bangladesh

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১০/১১/২০  
 বাংলাদেশ জেলা প্রশাসন  
 কুমিল্লা (১৩৫) ডি.বি.ও. অফিস



Bangladesh Economic Zones Development Project Mersha EZ	TNS Firm, BPRC (BC2A-S-103)	Sr. Nizam Uddin CAD Operator	Executive Engineer Office Engineer	Md. Abdul Maleque	Dr. Y.G. Hiremath Team Leader	BEZA	১০/১১/২০	১০/১১/২০	১০/১১/২০	১০/১১/২০
	August, 2020	[Signature]	[Signature]	*	[Signature]					

## GUIDE LINES FOR CONSTRUCTION OF BORED & CAST-IN-SITU PILES.

1. For making bore hole of Cast-in situ pile upto 800mm diameter and 25m length either percussion drilling or rotary drilling method may be used.
2. If pile diameter is more than 800mm of any length rotary drilling method must be used for making bore hole
3. Continuous bentonite circulation as drilling mud/fluid must be used for making bore holes smoothly to avoid bore hole walls caving and also for bore hole washing. The bentonite powder/slurry must be tested before using to maintain the following properties.

**Dry bentonite Powder.**

- Liquid limit of bentonite powder shall be > 350%
- Swell index shall be >450%

**Bentonite slurry.**

- The quantity of bentonite powder to be added to water for maintaining the required density and viscosity depends on the quality of the Dry bentonite powder. For soil boring operation concentration of bentonite shall be typically between 4% to 6% by weight.

**Note :** Density of Fresh/Re-used Bentonite Slurry shall be measured with sample from slurry intake tank.  
Before concreting the slurry sample shall be taken using SAMPLER from bottom of the bore hole to measure the slurry properties.

4. Washing of bore hole shall be continued with the circulation of bentonite slurry until the sand content in slurry is reduced to less than 4%
  - Slurry density to be tested using Mud Balance
  - Viscosity to be tested using MARSH FUNNEL
  - Sand content in slurry to be tested using SAND CONTENT SET

5. Specified type of admixture (ASTM-C494/C 494M-08) must be used with concrete to attain slump between 150mm and 200mm for smooth flowing of concrete through trireme pipe. The quantity of admixture to be added shall be determined as per manufacturer's specification.
6. The quality of Bentonite & admixture must be approved by the Engineer in charge before use in construction work.
7. Slurry Tank Design
  - The pit should be three times the volume of the finished borehole.
  - Each pit should have a settling section and a suction section.
  - The dimension of the settling pit can be determined by using a basic equation to establish the width. Once width is known, the length and depth can be calculated.

$$\text{Width (ft)} = \sqrt[3]{\frac{\text{hole volume (gal)} \times 2}{2.125 \times 7.5}}$$

**For Settling pit**

- Length = 2.5x Width
- Depth = 0.85 x Width


**For Suction pit**

- Length = 1.25 x Width
- Depth = 0.85 x Width

8. The contractor shall arrange the following test kit/equipment for routine test of materials at Site at his own cost (Not reimbursable).

- Mud Balance
- Marsh Funnel
- Sand Content Set
- Sieve set (Complete)
- Hydrometer
- Pycnometer
- Slump cone
- Concrete Cylinder Mould
- Oven
- Balance
- PH Meter

TABLE - CHARACTERISTICS OF BENTONITE SLURRY					
Property	Units	Stages			Test Equipment
		Fresh	Ready for reuse	Before concreting	
Density	g/ml	<1.1	<1.25	<1.15	Mud Balance
Viscosity(946ml)	sec	32 to 50	32 to 60	32 to 50	Marsh Funnel
Fluid Loss (30min)	ml	<30	<50	n.a	Filter Press
pH		7 to 11	7 to 12	n.a	pH Meter
Sand Content	%	n.a	n.a	<4	Sand Content Set

	Bangladesh Economic Zone Development Project Phase 02	Term: Y.P.S Firm, R.P.M.C (BEZA-S-103) Aug/21, 2021	Sd/ Kalkin Uddin CAD operator	Suman Kumar Sanyal Civil Engineer	Me. Abad Molkate	Dr. V.G. Himmatt Team Leader	BEZA	No. / Date / Time / Location
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Anisur Rahman

Director  
Prime Minister's Office  
Govt. of the Peoples Republic of Bangladesh

১৮৫  
 দায়িত্ব  
 স্বাক্ষর  
 ব্যবস্থাপক (এস আই এস ও পকেস)

১৮৫

গণপ্রজাতন্ত্রী বাংলাদেশ  
 সরকার  
 প্রধানমন্ত্রীর কার্যালয়  
 ঢাকা



Director  
**Anisur Rahman**  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh



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BANGLADESH ECONOMIC ZONES AUTHORITY (BEZA)	Bangladesh Economic Zones Development Project Narsingi EZ	TAD No. R/PL/EC (BEZA-S-103)	Sd/- Kalam Uddin CAD operator	Sd/- Kuntar Sarker Office Engineer	Sd/- Abdul Malouk	Dr. V.G. Hiremath Team Leader	BEZA	NO. DATE BY REVISION
	CONSTRUCTION OF R.C.C GIRDER BRIDGE (MAZLA, THAKHANA DISTRICT - DUTI ODGRAH)	August, 2020						

## GENERAL NOTES & SPECIFICATION FOR CONSTRUCTION OF RCC WORKS

1. DESIGN STANDARD : AASHTO LRFD Bridge Design Specification 2007
2. DESIGN LOADING : AASHTO HL-93
3. CEMENT : Cement Conforming To BDS EN 197-1: 2003 CEM I 52.5 N / ASTM C 150 TYPE I
- 3.a. SETTING TIME
  - Initial Setting Time : Not Less Than 45 Minutes
  - Final Setting Time : Not More Than 2 Hours
- 3.b. STRENGTH
  - Compressive Strength : 50mm Cube Specimen As per ASTM C 150
  - 07 Days Strength : 19.30 Mpa

### 4. REINFORCEMENT :

#### 4.1. STRENGTH :

- 4.1.1. All reinforcements are of 400 grade high strength deformed bar made from billet steel.
- 4.1.2. Ribbed or Deformed bar produced and marked as per BDS ISO 6535-2 : 2006 with minimum yield stress,  $f_y (R_{m1}) = 400$  MPa, but the actual yield strength based on mill tests does not exceed  $f_y$  by more than 125 MPa, the ratio of actual ultimate strength,  $f_u (R_{m2})$  to actual tensile yield strength ( $f_y$ ) shall be at least 1.25 and minimum elongation after fracture ( $A_{g,EL}$ ) & minimum total elongation at maximum force ( $A_{g,TM}$ ) 14% and 2.5% respectively.
- 4.1.3. The following tests for reinforcing bars from random samples shall be conducted at BUET/ KUET/ RUET/ CUET as per BDS ISO 6535-2 : 2006/ ASTM A 615M / ASTM A 706M and test result shall be submitted to the engineer for checking and record :
  - Tensile strength test
  - Elongation test
  - Bend/ Re-bend test

#### 4.2. SPLICES IN REINFORCEMENT :

- 4.2.1. Splices in Reinforcement if necessary shall be made only as approved by the Engineer-in-Charge.
- Splices in Reinforcement at maximum stress in Deck and Girders should be avoided.

#### 4.3. LAP LENGTH :

- 4.3.1. Not more than 33% of reinforcement shall be lapped at any one section
- 4.3.2. For closely spaced bars lapping may be avoided by providing suitable mechanical anchorage (with prior approval).
- 4.3.3. Splices shall be staggered at least 600mm. All splices shall be class A splice.
- 4.3.4. Minimum lap length of bar shall conform to AASHTO LRFD. Unless otherwise specified, length of the lap splice shall be as follows :
  - 4.3.4.1. Minimum lap length of bar shall conform to AASHTO LRFD. Unless otherwise specified, length of the lap splice shall be as follows :
    - 4.3.4.1.1. Minimum lap length of bar shall conform to AASHTO LRFD. Unless otherwise specified, length of the lap splice shall be as follows :
    - 4.3.4.1.2. Clear concrete cover to reinforcing bar shall be maintained as follows unless otherwise shown in the drawing or as directed by the Engineer.

Bar Dia (mm)	TENSION														
	TOP BAR					BOTTOM BAR					COMPRESSION				
	25	30	35	40	45	25	30	35	40	45	25	30	35	40	45
16	150	180	210	240	270	150	180	210	240	270	225	270	315	360	405
18	175	210	245	280	315	175	210	245	280	315	255	300	345	390	435
20	200	240	280	320	360	200	240	280	320	360	285	330	375	420	465
22	225	270	315	360	405	225	270	315	360	405	315	360	405	450	495
25	250	300	350	400	450	250	300	350	400	450	350	400	450	500	550
28	280	330	380	430	480	280	330	380	430	480	390	450	510	570	630
32	320	380	440	500	560	320	380	440	500	560	450	520	590	660	730
36	360	420	480	540	600	360	420	480	540	600	510	580	650	720	790
40	400	470	540	610	680	400	470	540	610	680	570	650	730	810	890
45	450	520	600	680	760	450	520	600	680	760	630	720	810	900	990

### 5. CONCRETE

- 5.a. Concrete shall have 28 days standard cylinder crushing strength  $f'_c = 25$  MPa, for all the Sub-structures & pile foundations.
- 5.b. Concrete shall have 28 days standard cylinder crushing strength  $f'_c = 30$  MPa, for other components.
- 5.c. The minimum suggested mix shall be 1:1.5:3 for class 25 concrete or a richer mix to attain the specified strength. Mixing ratio shall be confirmed by mix design.
5. Water to be used in concreting and curing shall conform to ASHTO LRFD
7. All Dimensions are in mm unless otherwise mentioned
6. Slump for Cast-in-Situ pile shall be : 150 to 200mm, for other Components: 50 to 75mm
9. Coarse Aggregate : 20mm down graded Crushed Stone Chips in Accordance With ASTM C 33 Or Equivalent
10. All RCC work must be form finished.
11. FM of Sand shall be 2.5 (Minimum) for all R.C.C Works whatever mentioned in other places.
12. All RCC casting work must be carried out in steel Form Work of Appropriate size & thickness.
13. Form work with Scaffolding details shall be submitted by the contractor for the approval
14. Welding of reinforcement bars shall not be permitted, unless approved by the Engineer in charge
15. Supporting Reinforcing chairs of 16mm diameter for main reinforcement shall be provided at suitable intervals
15. Construction Joint:
- 16.a. The location and provision of construction joints shall be approved by the Engineer-in-Charge. The concreting operation shall be carried out continuously up to the construction joint.
- 16.b. The preparation of construction joint shall conform to AASHTO LRFD.

Concrete Element	Clear Cover (mm)	
	Normal Exposure	Saline Water
Abutment, Pier & Deck	0	
(a) Contact with earth	60	75
(b) Exposed to weather and Water	50	60
Piles		
(a) Cast-in-place bored	75	75
(b) pre-cast	40	50
Beam, Girder, Column	50	60
Pier Cap	50	60
Deck Slab (Bottom Layer)	40	40
Deck Slab (Top Layer)	50	50
Railing	25	25

Anisur Rahman  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

মনোজ্ঞ/দেবনাথ  
 মুগাসচিব  
 ব্যবস্থাপক (এম ডি) এস ও গবেষণা

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Bangladesh Economic Zone Development Project Material E2	TAD Panel R/PWC (BEZA-S-106)	S/Asstt. Engr CAG/Contract	Sub-structure S-04 Office Engineer	Mr. Abdul Wahab	Dr. V.G. Hossain Team Leader	BEZA	August, 2023
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Approved  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh



Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh  
 Director  
 Anisur Rahman

Director  
 Anisur Rahman

D.M.A.  
 ডি.এম.এ.  
 ডায়রেক্টর (সা. প্রক. ও পরিচালনা)  
 বাংলাদেশ (সা. প্রক. ও পরিচালনা)

**Table - 01: Levels of Super Structure**

This Table should be read in connection with DRG. NO.: GA-01

Dist. from Bridge End (m)	LEVELS (mPWD)					Sub-Structure
	Top of Deck Slab over CL of EG-1	Soft Level of EG-1	Top of Deck Slab over CL of IG-1	Soft Level of IG-1	Top of Deck Slab along Bridge CL	
0.000	8.000	6.550	8.052	6.602	8.078	Starting of Bridge at Abutment A-1
0.300	8.008	6.556	8.058	6.608	8.084	CL Bearing at Abutment A-1
2.489	8.050	6.600	8.102	6.652	8.128	
4.678	8.081	6.641	8.143	6.693	8.169	
6.867	8.128	6.678	8.180	6.730	8.206	
9.066	8.163	6.713	8.215	6.765	8.241	
11.245	8.195	6.745	8.247	6.797	8.273	
13.434	8.225	6.775	8.277	6.827	8.303	
15.623	8.252	6.802	8.304	6.854	8.330	
17.812	8.278	6.828	8.330	6.880	8.356	
20.001	8.302	6.852	8.354	6.904	8.380	
22.001	8.320	6.870	8.372	6.922	8.398	CL Pier P-1
24.001	8.336	6.886	8.388	6.938	8.414	
26.001	8.350	6.900	8.402	6.952	8.428	
28.001	8.362	6.912	8.414	6.964	8.440	
30.001	8.362	6.912	8.414	6.964	8.440	
32.001	8.362	6.912	8.414	6.964	8.440	
34.001	8.350	6.900	8.402	6.952	8.428	
36.001	8.336	6.886	8.388	6.938	8.414	
38.001	8.320	6.870	8.372	6.922	8.398	
40.001	8.302	6.852	8.354	6.904	8.380	
42.190	8.278	6.828	8.330	6.880	8.356	CL Pier P-2
44.379	8.252	6.802	8.304	6.854	8.330	
46.568	8.225	6.775	8.277	6.827	8.303	
48.757	8.195	6.745	8.247	6.797	8.273	
50.946	8.163	6.713	8.215	6.765	8.241	
53.135	8.128	6.678	8.180	6.730	8.206	
55.324	8.091	6.641	8.143	6.693	8.169	
57.513	8.050	6.600	8.102	6.652	8.128	
59.702	8.006	6.556	8.058	6.608	8.084	CL Bearing at Abutment A-2
60.002	8.000	6.550	8.052	6.602	8.078	End of Bridge at Abutment A-2

Note: Reduced Levels on Top of Deck Slab are at Top Surface of IVC.

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 ডায়রেক্টর (সা. প্রক. ও পরিচালনা)  
 বাংলাদেশ (সা. প্রক. ও পরিচালনা)

BANGLADESH ECONOMIC ZONES AUTHORITY (BEZA)	Bangladesh Economic Zones Development Project Mazarra E2	T&S Firm, BMM (BEZA-S-103)	St. Kalim Uddin CAD operator	Subir Kumar Saha Office Engineer	Mr. Abdul Maleque	Dr. V.G. Hiremath Team Leader	BEZA	No. 101 REVISION
	CONSTRUCTION OF 6x6 R.C.C. GIRDER BRIDGE URUPA, MISHRAHAT DISTRICT, CHATTGRAM	August, 2020						



Bar Bending Schedule for Pier P-1 TO P-2

Item	Item No.	Bar Mark	Bar Shape Code	Bar Dia (mm)	No. of Bar / Item	Total No. of Bar	Bending Dimensions (mm)					Cut Length (mm)	Total Length (m)	Unit Wt. (Kg/m)	Total Wt. (Kg)	
							a	b	c	d	e					
Pier	P-1	P1	3	35	20	320	12000						12000	3840.00	3.853	15536.75
		P2	3	25	20	320	12000						12000	3840.00	3.853	15536.75
		P3	3	25	20	320	12000						12000	3840.00	3.853	15536.75
		P4	3	26	20	320	4700						4700	1504.00	2.766	3894.54
		S1	11	10	1	16	750	100	11450				270584	4329.35	0.617	2802.07
		S2	11	10	1	16	750	100	11200				259801	4159.70	0.617	2692.04
		S3	11	10	1	16	750	125	11600				208146	3330.32	0.617	2155.51
		S4	11	10	1	16	750	125	3700				70543	1128.69	0.617	730.68
		PC1	2	20	77	154	4250	350					5350	823.90	2.488	2133.45
		PC2	2	20	35	70	9450	350					10650	730.50	2.465	1812.31
PLINTH	P	PC3	2	20	77	154	4250	350				5350	823.90	2.466	2133.45	
		PC4	2	20	35	70	9450	350				10550	730.50	2.465	1812.31	
		PC5	4	12	6	4250	2450					27544	185.26	0.688	154.06	
		PD	10	12	104	104	620	480				1580	164.32	0.688	153.19	
		PD	10	12	6	48	1170	480				2130	102.24	0.688	95.31	

Shape Code

Bar Shape

Shape Code

Bar Shape



Note: Bar Bending should be adjusted as per field condition

Wt of 10mm dia bar (Kg) = 8343  
 Wt of 12mm dia bar (Kg) = 403  
 Wt of 16mm dia bar (Kg) = 0  
 Wt of 20mm dia bar (Kg) = 11907  
 Wt of 25mm dia bar (Kg) = 46521  
 Wt of 32mm dia bar (Kg) = 0

Anisur Rahman  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

দায়ানন্দ দেবনাথ  
 মুগসকির  
 ব্যবস্থাপক (এস এম এন ও পবেষণা)

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NO.	REVISION	DATE
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Approved  
 (Signature)  
 Director  
 Prime Minister's Office



স্বাক্ষরিত (০৯/০৯/১৯) (১৯/০৯/১৯)  
 প্রধানমন্ত্রীর কার্যালয়  
 ঢাকা

**Anisur Rahman**  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

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স্বাক্ষরিত (১৯/০৯/১৯)  
 প্রধানমন্ত্রীর কার্যালয়  
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Bar Bending Schedule for RCC Girder & Diaphragm

Item	Item No	Bar Mark	Bar Shape Code	Bar Dia (mm)	No of Bar (Item)	Total No of Bar	Bending Dimensions (mm)					Cut Length (mm)	Total Length (m)	Unit Wt. (Kg/m)	Total Wt. (Kg)
							a	b	c	d	e				
G IRDER	12	IG1	2	25	2	24	19840	400				20640	450.360	0.153	2004.24
		IG2	2	12	8	72	19840	150				20140	1450.080	0.688	1351.77
		IG3	2	32	4	48	19840	550				20940	1005.120	0.113	5862.95
		IG4	2	32	4	48	19760					19760	948.480	0.113	6267.49
		IG5	1	32	4	48	18000					18000	654.000	0.113	5727.47
		IG6	4	12	40	504	1320	370				3490	1753.920	0.688	1635.01
		IG7	4	12	32	384	1320	370				3480	1336.320	0.688	1245.72
		IG8	4	12	56	706	1320	370				3480	2463.840	0.688	2256.80
		IGC1	9	12	84	1008	1036	150				1339	1349.712	0.688	1258.21
		IGC2	9	12	84	1008	1036	150				1339	1028.352	0.688	968.63
		IGC3	9	12	112	1344	1036	150				1338	1896.024	0.688	1767.46
		DIAPHRAM D APHRAY (INTERIOR)	8	ID1	2	25	2	12	9720	150				10920	120.240
ID2	2			12	14	54	8170	100				8370	703.680	0.688	655.43
ID3	4			12	42	252	1120	220				2720	700.960	0.688	653.07
ID4	2			25	2	12	8170	150				8470	101.240	3.653	411.24
ED1	2			25	2	18	9720	150				10020	186.360	3.653	729.74
ED2	4			12	34	136	8170	100				8370	703.760	0.688	655.47
ED3	4			12	42	252	1120	220				2760	700.560	0.688	653.07
ED4	4			25	3	18	8170	150				3470	152.460	3.653	616.85

Shape Code  
 Bar Shape

Note:  
 Bar Bending should be adjusted as per field condition.

Wt of 10mm dia bar (Kg) = 0  
 Wt of 12mm dia bar (Kg) = 1313  
 Wt of 16mm dia bar (Kg) = 0  
 Wt of 20mm dia bar (Kg) = 0  
 Wt of 25mm dia bar (Kg) = 4249  
 Wt of 32mm dia bar (Kg) = 28661

Total Wt of Steel (Kg) = 46241

BANGLADESH ECONOMIC ZONES AUTHORITY (BEZA)	Bangladesh Economic Zones Development Project General E2	IAS Fariq, RMC (BEZA-2-103)	SK Kapil Uddin CAD operator	Subrata Kumar Basak Office Engineer	Md Abdul Maleque	Dr V.G. Hiranmoh Team Leader	BEZA	REVISION
	CONSTRUCTION OF RCC GIRDER BRIDGE UPZLA, MARSHAHAT DISTRICT, CHATTOGRAM	August, 2020						

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 Director  
**Anisur Rahman**

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**Bar Bending Schedule for Deck Slab and Diaphragm**

Slab	Item No.	Bar Mark	Bar Shape Code	Bar Dia (mm)	No. of Bar / Item	Total No. of Bar	Deck Slab Dimensions (mm)					Cutting Length (mm)	Total Length (m)	Unit Wt (Kg/m)	Total Wt (Kg)
							A	B	C	D	E				
Deck Slab	01	2	16	134	402	1326	150					16220	928.040	1.578	6367.85
	02	2	16	134	402	6720	150					10020	1028.040	1.578	6367.85
	03	4	12	57	174	16820	75					20070	343.970	0.688	5045.25
	04	2	12	57	133	10820	75					20070	343.970	0.688	5045.25
	05	1	12	370	960	725						725	606.000	0.680	617.32
	06	1	12	400	1000	480						480	552.000	0.617	340.33
	07	1	12	246	804	110	70	160	22.5	150		718	574.050	0.686	510.37
	08	6	12	260	624	376	75	110				555	448.290	0.688	308.16
	09	1	12	14	42	19920						19920	126.842	0.617	215.82
	10	2	12	268	618	370	196	116				478	347.700	0.686	281.62
Diaphragm	11	1	12	268	608	370	78	180				585	554.220	0.688	398.16
	12	1	12	14	42	19820						19820	126.842	0.617	215.82
	13	1	12	4	72	19832						19820	126.842	0.688	1223.38
	14	2	12	150	2760	100	100					480	1339.200	0.385	503.43
	15	2	12	240	1400	150						1500	372.000	1.578	587.14
	16	2	12	240	1400	150						1500	372.000	1.578	587.14
	17	4	12	150	600	150						600	384.000	0.385	230.66
	<p>Note: Bar Bending Index is adjusted as per field condition.</p> <p>Weight of 8mm Dia Bar (Kg) = 286                  Weight of 10mm Dia Bar (Kg) = 357                  Weight of 12mm Dia Bar (Kg) = 670                  Weight of 16mm Dia Bar (Kg) = 1388                  Weight of 20mm Dia Bar (Kg) = 2470                  Weight of 25mm Dia Bar (Kg) = 4224</p> <p>Total Wt. of Steel (Kg) = 25782</p>														

**Bar Bending Schedule for Precast Slab**

Slab	Item No.	Bar Mark	Bar Shape Code	Bar Dia (mm)	No. of Bar / Item	Total No. of Bar	Dimensions (mm)					Cutting Length (mm)	Total Length (m)	Unit Wt (Kg/m)	Total Wt (Kg)
							A	B	C	D	E				

**Bar Bending Schedule for A/C Slab**

Slab	Item No.	Bar Mark	Bar Shape Code	Bar Dia (mm)	No. of Bar / Item	Total No. of Bar	Dimensions (mm)					Cutting Length (mm)	Total Length (m)	Unit Wt (Kg/m)	Total Wt (Kg)
							A	B	C	D	E				

দায়িত্ব  
 দায়িত্ব দেবনাথ  
 যুগ্ম সচিব  
 ব্যবস্থাপক (প্রকল্প আই এম ও গবেষণা)

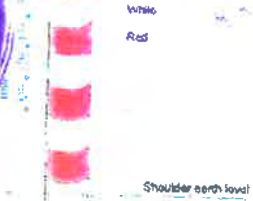


Bangladesh Economic Zones Development Project (BEZA-S-103)	TAS Firm, (P)MNC August 2020	Sir Kishor Uddin CEO Operator	Surotra Kumar Samrat Office Engineer	Md. Abdul Maleque	Dr. V.G. Moinul Team Leader	BEZA	[Blank]	[Blank]	[Blank]
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প্রকল্প পরিচালক  
 বাংলাদেশ  
 গণপ্রজাতন্ত্রী সরকার  
 বাংলাদেশ সরকার, গণপ্রজাতন্ত্রী সরকার



পাটনাম (কর্তৃপক্ষের লগো) এবং সিস্টেম  
 ডিজাইন  
 কর্তৃপক্ষ (কর্তৃপক্ষের লগো) এবং সিস্টেম



Elevation of Guard Post

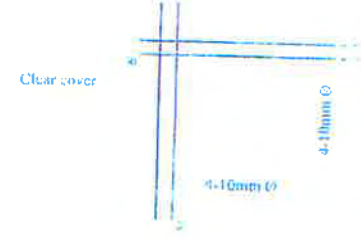
Guard Post (Section 1-1)

4-12mm dia deformed Main bar  
 8mm dia deformed stirrup @ 150mm c/c  
 Clear cover = 25mm  
 4-10mm @ Bottoms

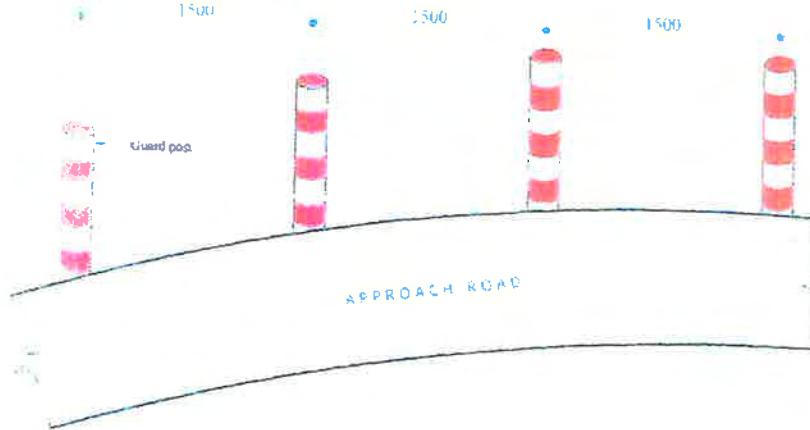


Section 2-2

25mm clear cover  
 4-12mm dia deformed Main bar  
 8mm dia deformed stirrup @ 150mm c/c



Reinf. Plan of Post Base



Plan of Guard Post

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Director  
 Anisur Rahma  
 Prime Minister's Office  
 The People's Republic of Bangladesh

Handwritten signature and stamp of the Director, Anisur Rahma.

BANGLADESH ECONOMIC ZONES AUTHORITY (BEZA)	Bangladesh Economic Zones Development Project Mirsharai EZ	YAS PERU, APMIC (BEZA-3-103)	Sd/ Khatun Uddin CAD operator	Subrata Kumar Saha Office Engineer	Md. Abdul Moleque	Dr. V.G. Hiramani Team Leader	BEZA	NO 01 02 03 04 05	GP-01
	CONSTRUCTION OF 80m R.C.C. GUARD POSTS APABLA (MIRSHARAI, DISTRICT CHATTOPGRAM)	August 2020							

### Maintenance Schedule

Year	Cost in Lac (BDT.)
Construction	34730.37
Year 1	191.02
Year 2	191.02
Year 3	191.02
Year 4	191.02
Year 5	1562.87
Year 6	191.02
Year 7	191.02
Year 8	191.02
Year 9	191.02
Year 10	1562.87
Year 11	191.02
Year 12	191.02
Year 13	191.02
Year 14	191.02
Year 15	5279.02
Year 16	191.02
Year 17	191.02
Year 18	191.02
Year 19	1562.87
Year 20	191.02

*[Signature]*

*[Signature]*

Dr. V.G. Hiramath  
Team Leader  
Bairvee - REITS JV  
TAS FOR DMS of Infrastructure Works at Iffrajati Z  
Bangladesh Economic Zone Authority

*[Signature]*  
দায়িত্ব দেবনাথ  
মুন্সিফ  
নবশাহর (এম জিই ৩৭ ও গলেশা)

*[Signature]*  
Anisur Rahman  
Director  
Prime Minister's Office  
Govt. of the People's Republic of Bangladesh



*[Signature]*  
স্বাক্ষরিত (স্বাক্ষরিত)  
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স্বাক্ষরিত (স্বাক্ষরিত)

Important Design Parameter:

01. Design Speed	: 40/60 Km/hr
02. Minimum Turning Radius	: 13.7m
03. Cross Fall (Carriageway)	: 3%
04. Cross Fall (Soft Shoulder)	: 5%
05. Verge Width	: 0.75m
06. Traffic Lane	: 3.65m
07. Maximum Gradient	: 3%
08. K Value for LSD	: 35
09. Stopping Sight Distance	: 60m
10. Intermediate Sight Distance	: 120m
11. Analysis Period	: 20 Years
12. Maximum performance	: 10 years
13. Equivalent Standard Axle	: 10 million
14. Sub-Grade CBR	: 5%
15. ISG CBR	: 10%
16. Sub-Base CBR	: 25%
17. Base Type-II	: 50%
18. Base Type-I	: 80%

**Note:**

- These design Parameter taken from 1) Policy on Geometric Design of Highway and Streets, 2001, AASHTO, 2) Geometric Design Standards Manual (Revised) 2005, Roads and Highway Department, and 3) 'Pavement Design manual, 2005, Roads and Highway Department

*Dr. V.G. Hiremath*  
স্বাক্ষরিত (স্বাক্ষরিত)  
স্বাক্ষরিত (স্বাক্ষরিত)  
স্বাক্ষরিত (স্বাক্ষরিত)

*Dr. V.G. Hiremath*

*Dr. V.G. Hiremath*

Dr. V.G. Hiremath  
Team Leader  
aarvee -BETS JV  
IAS FOR IAS of Infrastructure Works at Dhaka-12  
Bangladesh Economic Zone Authority

*Dr. V.G. Hiremath*  
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*Anisur Rahman*  
Anisur Rahman  
Director  
Prime Minister's Office  
Govt. of the People's Republic of Bangladesh



## 4 ALIGNMENT DESIGN

### 4.1 Geometric Design Standards

The selection of design standards is related to function of road; volume of traffic and type of terrain, with additional procedures for the recognition and appropriate treatment of potential hazards.

Principally RHD Geometric Design Standards Manual (Revised) 2005 (GDSM 2005) has been followed for design parameters. Besides the following reference recommendations and standards have been consulted for references.

- AASHTO "A policy on Geometric Design of Highway and Streets" 2001
- Asian Highway Classification and Design Standards, UN ESCAP
- Overseas Road Note 6 "A Guide to Geometric Design" published by TRRL 1988

For traffic signs and road markings, Bangladesh Road Transport Authority (BRTA) Traffic Signs Manual 2004 has been followed.

#### 4.1.1 Design Speed

Roads of Zone 2A and 2B is internal road network which has at grade intersection thus for this road design speed is considered as urban street (40 km/h)

For Donkhailkhail road design speed is considered to be (60km/h)


#### 4.1.2 Design Vehicle

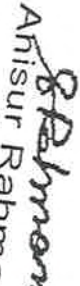
For the turning radius and intersection design semi-trailer WB-19 is considered

Vehicle Category	Vehicle Length (m)	Minimum Design Turning Radius (m)	Maximum Inside Radius (m)
Semi-trailer Full trailer combination (WB 19)	20.88	13.7	6.8
Single Unit Bus (Large)	9.15	12.8	7.4
Single Unit Truck	9.15	12.8	8.64
Passenger Car	5.79	7.3	4.39

Based on the above, the following radii have been used:

- For major intersection, minimum turning radius of 13.7m has taken into consideration

  
বর্তমান সরকার  
রাষ্ট্রপতি  
স্বরাষ্ট্র (সংসদ ও সরকার)

  
Anisur Rahman  
Director  
Prime Minister's Office  
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#### 4.1.3 Geometric Criteria

Based on the design speed and vehicle criteria, the following geometric criteria have been established.

#### Horizontal

The Geometric Design Standard Manual of RHD has been followed for horizontal design Standard

#### Vertical Criteria

From the "Pavement Design Guide for Roads & Highways Department (RHD)"

##### 2. Drainage Design

###### Freeboard

Much of Bangladesh is subject to flooding on an annual basis, and occasionally the flooding is of a severity that results in parts of the road network being inundated. Considerably trouble, and in particular heavy commercial vehicles, continue to use these roads and this can result in severe damage being done to the road pavement.

Accordingly, in the design of new roads or full reconstruction of existing roads the freeboard to the lowest edge of the pavement surface, above Highest Flood Level (HFL) (50 year return period for National and Regional Highways and 20 year return period for District (Zilla) Roads), shall be at least the values shown in the table below, and in any event the Formation Level (top of sub-grade level) should be at least 30 cm above HFL.

Road Type	Freeboard (m)
District carriageway	1.6
7.3 m carriageway	1.0
6.2 m carriageway	1.0
5.5 m carriageway	0.9
3.7 m carriageway	0.9

###### Table 3: Freeboard

In view of the foregoing all RHD Division should determine the HFL for the 50 and 20 year return period within their Division, and record this by means of permanent marks on an entire wall of the Divisional offices or other Government buildings within the Division.

#### And from Geometric Design Standard Manual Revised (2005) By RHD

##### 4.10 Design Levels

To be made national roads within its jurisdiction, it is proposed to take into consideration the flood of 75 year above the flood level of the subgrade for 100 year return period based on the design data and cross-section with the record of highest flood level in the location. Information on design flood levels on the design can be obtained from the Flood Forecasting, Control and Response Cell, as well as the Design Engineer's Unit.

So with the discussion we finally agreed to use the minimum 300 mm above the High flood Level and Road cross section is to be corrected accordingly

#### 4.1.4 Adopted cross section

##### Cross Section Elements for FMVT

Traffic lane width (m)	2 x 3.65
Paved shoulder width (m)	1.5
Verge	0.75

**Anisur Rahim**  
Prime Minister



**Quazi**  
স্বাক্ষরিত করে  
স্বাক্ষরিত  
স্বাক্ষরিত (স্বাক্ষরিত করে)

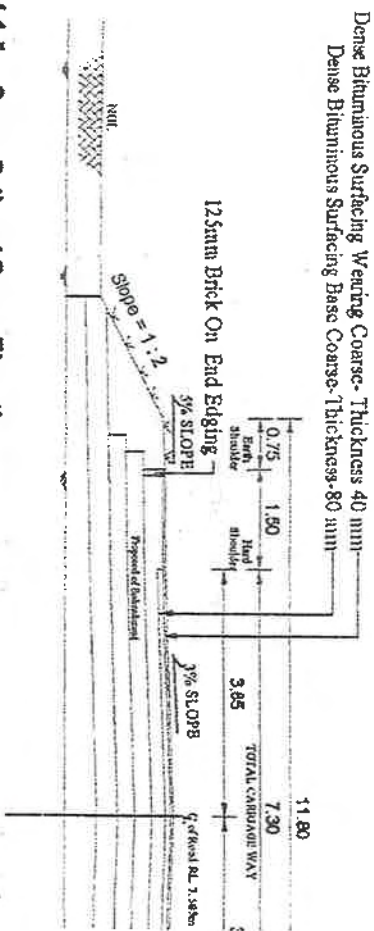
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স্বাক্ষরিত করে  
স্বাক্ষরিত করে



Typical cross sections of the road have been presented in Figure below:



#### 4.1.5 Cross Fall and Super Elevation

Considering the heavy rainfall and poor maintenance of pavement in Bangladesh, a cross fall of 3% has been applied for carriageway and paved shoulder as recommended in the GDSM 2005. For the soft shoulder/verge a cross fall of 5% has been provided. Maximum super elevation will normally be 5% in accordance with the stated requirements of Section 5.3 of the GDSM 2005. Super elevation has been applied about the centerline of the carriageway.

#### 4.1.6 Sight Distance

In accordance with Sections 5.2 and 6.1 of the GDSM 2005, the requirement of provision of Intermediate Sight Distance (ISD) has been complied for horizontal and vertical curve design. In order to improve road safety, appropriate visibility splay has been provided at all major junctions.

#### 4.1.7 Verge Width

A verge of 0.75m is provided along the outer edge of Road.

#### 4.1.8 Gradient

To provide a good level of service for all types of traffic (including non-motorized), maximum 3% gradient has been recommended for flat terrain in the GDSM 2005 (Table 6.3)

#### 4.1.9 K Value

K value of 35 for intermediate sight distance is adopted as recommended in the GDSM 2005.

#### 4.1.10 Summary of Geometric Design Criteria

Summary of geometric design criteria adopted for the project road is presented in the Table 4.2.1. All the criteria have been approved by RHD

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 রাস্তাঘাট বিভাগ  
 সড়ক পরিবহন অধিদপ্তর

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*(Signature)*  
**Anisur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh



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 প্রতিষ্ঠান পরিচালক  
 সড়ক পরিবহন অধিদপ্তর  
 রাস্তাঘাট বিভাগ

Table: 4.2.1 Adopted Geometric Design Criteria

Sl. No	Design Criteria	Value
1.	Speed Control Design Speed (Kmph)	40/60
2.	Stopping Controls Stopping Sight Distance (SSD) in meter Intermediate Sight Distance (ISD) in meter	80 120
3.	Horizontal Controls Minimum Curve Radius (m) Maximum Super Elevation Minimum Transition (m)	250 5% 35
4.	Vertical Controls Maximum Gradients Minimum K value	3% 35
5.	Cross Section Elements for FMVT Traffic lane width (m) Normal cross fall Paved shoulder width (m) Verge in meter Verge cross fall Embankment slope	3.65 3% 1.5 0.75 5% 2H:1V

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 বাংলাদেশ সরকার  
 সড়ক পরিবহন  
 বিভাগ (সড়ক ও নদী)

*Rasheed*

*Ahmed*  
**Ahmedur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

*Rasheed*  
 সড়ক পরিবহন বিভাগ  
 সড়ক পরিবহন (সড়ক ও নদী)  
 বাংলাদেশ সরকার



## 6 Pavement Design

### 6.1 Design Methodology

The thicknesses have been taken and designed from RHD published 'Pavement Design manual, 2005'.

### 6.2 Design Approaches

#### 6.2.1 Design CBR

The sub-grade strength is a basic factor in determining the thickness of the pavement and is evaluated by means of sub-grade design CBR. The road will be constructed over a compacted sand fill area thus the CBR is considered >5%

#### 6.2.7 Sub-Grade Resilient Modulus

The resilient modulus ( $M_R$ ) of sub-grade is defined as being a measure of the elastic property of sub-grade soil recognizing selected non-linear characteristics. Methods for the determination of  $M_R$  are described in AASHTO T294-92 test method. For roadbed materials, the AASHTO Guide recommends that the resilient modulus be established based on laboratory testing of representative samples in stress and moisture conditions simulating wet season.

Since modulus test equipment is not available in Bangladesh, the following correlation has been used to convert CBR values to approximate  $M_R$  values.

$$M_R \text{ (psi)} = 1500 \times \text{CBR}, \quad \text{Or} \quad M_R \text{ (Mpa)} = 10.3 \times \text{CBR}$$

This correlation is reasonably correct for fine-grained soils with a soaked CBR of 10 or less. For our project road, resilient modulus is adopted: 7500 psi or 51.5 Mpa for subgrade of CBR 5%.

#### 6.2.9 Hot Mix Asphalt Concrete

Figure: 6.2.1 below shows the relationships of layer coefficient, Marshall stability, and resilient modulus. The chart shows Hot Mix Asphalt (HMA) corresponding to bituminous wearing course, has layer coefficient 0.44 and modulus 450,000 psi whereas bituminous base course, has layer coefficient 0.42 and modulus 400,000 psi.

*2/2/19*  
মন্ত্রণালয় পরিচালিত  
স্বাক্ষরিত  
স্বাক্ষর (স্বাক্ষর করা হয়েছে)

*Er. Anisur Rahman*

*Anisur Rahman*  
Director  
Prime Minister's Office  
Govt. of the People's Republic of Bangladesh



*Qamr*  
সচিব, সরকারি কার্যালয়  
স্বাক্ষরিত (স্বাক্ষর)  
ফাইল নং: ১০৬/১৯৭৭  
অতিরিক্ত সচিব, সরকারি কার্যালয়

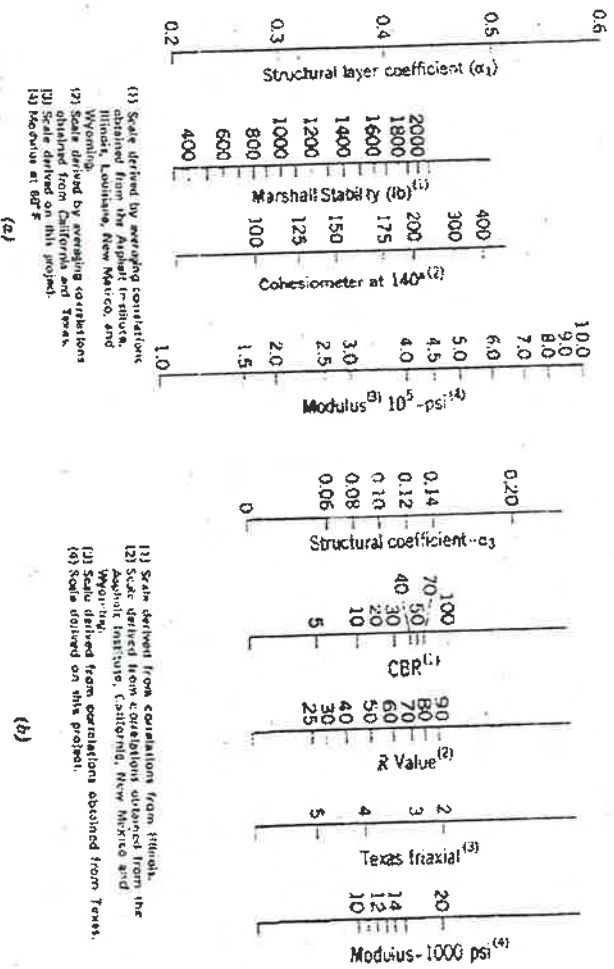


Figure: 6.2.1

To be on safe side, we adopt layer coefficient for dense graded bituminous wearing course 0.35 and bituminous base course of 0.40.

### 6.2.10 Granular Base and Subbase

High quality graded crushed stone base will be used as top unbound (base type-I) layer. It will be compacted to 100% of AASHTO modified density (T-180) having CBR  $\geq$  80%. Corresponding to this CBR value, the chart provides layer coefficient of 0.14. Similarly, Base type-II will compose of either graded crushed stone or picked brick chips compacted to 98% of modified density (T-180) having CBR  $\geq$  50%. Corresponding to this CBR value, the chart provides layer coefficient of 0.12.

The proposed sub-base material will compose of either graded gravel sand or crushed brick sand mix or salvage material's compacted to 98% of modified density (T-180) having CBR  $\geq$  25%. A layer coefficient of 0.11 is selected for this type of subbase. The layer CBR has been taken from "Pavement Design Guide for Roads & Highways Department" April 2005.



স্বাক্ষরিত  
 সিনিয়র  
 সহকারী  
 সিসিও  
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*[Signature]*

**Shur Rahman**  
 Director  
 The Minister's Office  
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Pavement Layer	CBR	RHD Specification Clause
Aggregate Base	Type I	>= 80% 3.3.2
	Type II	>= 50% 3.3.2
Sub-base		>= 25% 3.2.2
Improved Sub-grade		>= 8% 2.8.2
Sub-grade		>= 5% 2.7.2
Embankment fill/natural ground		>= 3% 2.6.2

Table 1 : Required CBR for Pavement Layers

### 6.2.16 Direction Distribution Factor

A direction distribution factor of 0.5 has been used to calculate one-way traffic load because AADT consists of two-way traffic.

### 6.2.17 Lane Distribution Factor

AASHTO suggests a lane distribution factor varying from 80% to 100% for 4-lane highway with 2 lanes in each direction whereas IRC 37-2012 suggests a unique value of 75%. We therefore, use a unique value of 80%.

### 6.2.18 Design Period

For economical reason, stage construction policy has been adopted to select pavement design period consisting of performance (design life) and analysis period.

In case of flexible pavement, the analysis period is considered 20 years. The maximum performance period (or design life) is 10 years, at the end of which strengthening for future traffic would be carried out by means of bituminous overlay to last the full analysis period.

### 6.2.20 Reliability

Table-6.2.10: Reliability

Design ESALs ( $\times 10^6$ )	% R (Reliability)	% R adopted for flexible pavement
0.1 to 5.0	75	-
5.0 to 10	85	-
> 10.0	90	95

Reliability is not a direct input into the AASHTO design equation. The use of a converted value known as Standard Normal Deviate ( $Z_R$ ) is the input into the equation.

### 6.2.21 Standard Normal Deviate ( $Z_R$ )

The Standard Normal deviate ( $Z_R$ ) is the corresponding Reliability value that has been converted into logarithmic form for calculations purposes and is given below:

Table-6.2.11: Standard Normal Deviate

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Reliability (% R)	Standard Normal Deviate (Z <sub>0</sub> )
85	-1.037
90	-1.282
95	-1.645

### 6.2.22 Standard Deviation

The Standard Deviation of 0.45 for flexible and 0.29 for rigid pavement are used in the design calculations to account for variability in traffic load predictions and construction.

### 6.2.25.4 Selection of Layer Thicknesses

Selection of layer thickness is based on stress intensity, cost effectiveness, layer coefficient, durability, drainage quality, weather impact and availability of materials. Construction and maintenance constraints are considered to avoid the possibility of producing an impractical design. HMA courses with layer coefficient 0.35 to 0.40 are more cost effective than good quality crushed stone base (layer coefficient  $\geq 0.14$ ).

For the design of pavement layers 10 million cumulative ESA has been considered. Layer thickness taken from "Pavement Design Guide for Roads & Highways Department" April 2005.

#### Determination of Pavement Layers

The estimated cumulative ESAs are then used to determine the various pavement layers from the following design chart:

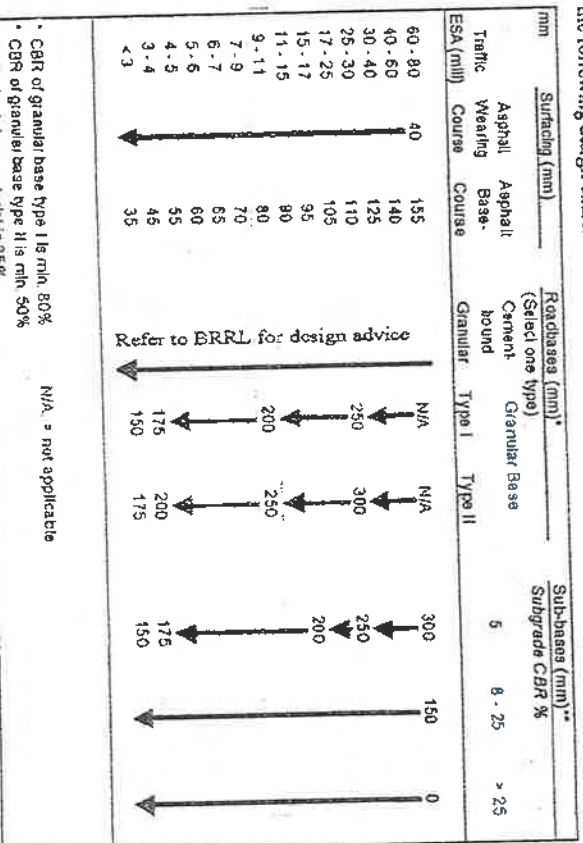


Table 5: Thickness Design Table for Flexible Pavements

Table-6.2.12: Thickness Design



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	Subgrade CBR %	Cumulative Traffic, mm	Bit. Wearing course, mm	Bit. Base course, mm	Agg. base type-I, mm	Agg. Base type-II, mm	Sub-base, mm	Improved Sub-base, mm
According to Guide	5	10	40	80	200	250	200	NA
Adopted	5	10	40	80	200	250	250	300

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Government of the People's Republic of Bangladesh  
Ministry of Communications  
Roads and Railways Division

**Pavement Design Guide  
for  
Roads & Highways Department**

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প্রোগ্রামিক পরিচালক  
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### Foreword

In order that all roads under the Roads and Highways Department are designed and built to appropriate high standards a series of RHD design guides and standards are being developed. This Pavement Design Guide, which has been prepared by RHD officers working in conjunction with the IDC3 Consultants, forms part of this series.

This Guide contains a straightforward procedure for the design of new flexible road pavements based on the cumulative number of Equivalent Standard Axles that the road will be subjected to during the required design life of the road. Standard pavement designs are included for both 3.7m and 5.5m roads whilst all other new road pavements, including the full reconstruction or widening of existing roads, should be designed in accordance with this Guide.

Where existing roads are to be partially reconstructed, or strengthened by means of an overlay, the requirement for these works will be included in the RHD Annual Roads Needs Assessment Report with typical details shown in the RHD Standard Drawings.

I wish to thank and commend all of the officers of the RHD involved in the preparation of this Guide which will go along way towards ensuring that consistent high quality road pavements are provided for an RHD roads in Bangladesh.

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### APPENDIX 1: Standard Pavement Designs

### APPENDIX 2: Example of Pavement Design

### Glossary of terms and abbreviations used

4WMV	4-Wheel Motorised Vehicle
AADT	Annual Average Daily Traffic
AASHTO	American Association of State Highway and Transportation Officials
BRRL	Bangladesh Road Research Laboratory
CBR	California Bearing Ratio
ESA	Equivalent Standard Axle
RHD	Roads and Highways Department
Standard Axle	81 60 kg
TRL	Transport Research Laboratory
UK	United Kingdom



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## 1 Introduction

The design of flexible road pavements is generally thought to be a specialist activity that can only be undertaken by consultants experienced in this type of design. Part of the reason for this may be that foreign consultants engaged on the design of road pavements in Bangladesh have tended to use design standards from their respective countries, or other international standards with which they are familiar.

~~This RHD~~ Pavement Design Guide has been prepared based on two internationally recognized design standards, namely the AASHTO Pavement Design Manual and the TRRL Overseas Road Note 31, with a view to making the design of road pavements as straightforward as possible and to ensure that the same standards are adopted for all RHD roads.

For roads that are intended to carry only low volumes of traffic standard pavement designs have been included, together with an easy to follow design procedure to identify the required thickness of the various pavement layers for other more heavily trafficked roads. In this respect, throughout this Guide the following descriptions have been adopted for these pavement layers:



Sub-grade

Figure 1.1: Pavement Structure

**Surfacing** is the riding surface of the road and varies from a light bitumen spray with stone chippings (bitumen surface treatment) to one or more layers of dense bitumen surfacing.

**Base** is the main load-spreading layer of the road pavement. It must be constructed of high quality brick or stone aggregate.

**Sub-base** is the secondary load-spreading layer of the pavement. It is usually either crushed stone, broken brick aggregate (frequently mixed with sand) or locally available gravel.

**Improved Sub-grade** is imported material (e.g. fine or coarse sand) that is locally available. It is intended to act as a cushioning layer between weak sub-grades and the road pavement layers. If the sub-grade is of sufficient strength (i.e. CBR value) then an improved sub-grade may not be required.

**Sub-grade** is the soil immediately beneath the road structure. It is a layer of natural locally available material that meets the requirements of RHD Technical Specifications.

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**2 Pavement Design**

**2.1 Principles of Design**

Natural ground, including earth embankments, cannot support the wheel loads of vehicles - particularly when wet. The purpose of a road pavement is to distribute and spread wheel loads through to the underlying ground (i.e. the sub-grade) via pavement layers of the required thickness and strength such that each layer can support the load transmitted from the layer immediately above it without deformation.

The strength of each layer is expressed in terms of the California Bearing Ratio (CBR) and it is essential that the materials used, and compaction obtained, for each layer achieves the required CBR for that layer. If the underlying layers do not have the required CBR then the upper layers of a road pavement will fail even if they have been correctly constructed.

The CBR requirements for the various pavement layers are contained in the RHD Specification and are summarized as follows:

Pavement Layer	CBR		RHD Specification Clause
	Type I	Type II	
Aggregate Base	$\geq 80\%$	$\geq 50\%$	3.3.2
			3.3.2
Sub-base		$\geq 25\%$	3.2.2
Improved Sub-grade		$\geq 8\%$	2.8.2
Sub-grade		$\geq 5\%$	2.7.2
Embankment		$\geq 3\%$	2.6.2
Fill/natural ground			

Table 1: Required CBR for Pavement Layers

Reference should be made to the RHD specification for the materials, workmanship and testing procedures that should be adopted to achieve the above CBR values.

Standard pavement designs for 3.7m and 5.5m roads are shown at Appendix 1. All other road pavements require to be designed with the thickness of the various pavement layers, including the bituminous surfacing, being determined by estimating the cumulative number of Equivalent Standard Axles (ESAs) that the road will be subjected to over its design life, and then reading off the required thickness for each layer from the design chart included at Table 5. An example of a pavement design based on this method is included at Appendix 2.

**2.2 Design Procedure**

*Base Year Traffic Counts*

For both the geometric and pavement design of new roads, or the upgrading / widening of existing roads, traffic counts must be undertaken to establish the current Average Annual Daily Traffic (AADT) on the road. At least one whole day (24 hour) traffic count in both



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directions of flow should be undertaken on a typical weekday for sections of the road having more or less the same traffic volumes.

For geometric design purposes the forecast traffic demand for the road in the design year should be estimated expressed in passenger car units (PCUs). This determines the required capacity or width of the road and details of this design procedure are contained in the RHD Geometric Design Manual.

For the design of road pavements a different approach is adopted in that an estimate must be made of the cumulative number of heavy axle loads that the road pavement will be subjected to over its design life. In this case, rickshaws and other light traffic may be ignored with only trucks and other commercial vehicles being considered.

For single carriageway roads the average truck and commercial vehicle flow in both directions is adopted for design purposes i.e. 0.5 x the sum of both directions. For dual carriageways, where trucks may be more heavily loaded in one direction than the other, the pavement for each carriageway should be subject to a separate design based on the forecast commercial traffic for that carriageway (heaviest loaded lane).

#### *Pavement Life and Traffic Growth Rates*

For new roads and the full depth reconstruction of existing roads the following design standards are to be adopted:

	Pavement Design Life	Traffic Growth Rate
National Road	20 years	10% pa
Regional Road	20 years	7% pa

Table 2: Pavement Design Life and Traffic Growth Rates

Where a new or reconstructed road is likely to lead to a significant generation or diversion of traffic, detailed traffic studies should be undertaken to estimate the additional traffic that will use the road in addition to the estimated base flow.

#### *Determining Cumulative ESAs Over the Pavement Design Life*

For pavement design purposes all heavy commercial vehicles are expressed in terms of the equivalent number of standard axles that they represent. A Standard Axle is taken to be 8,160 kg. Based on axle load studies previously undertaken in Bangladesh, the following equivalence factors have been determined:

Vehicle Category	Equivalence Factor
Large Truck (dual axle)	4.8
Medium Truck (Single axle)	4.62
Small Truck	1.0
Large Bus	1.0
Mini Bus	0.5

Table 3: Vehicle Equivalence Factors

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Using the recorded (or estimated) AADT for the above vehicle categories together with their equivalence factors, estimates should be made of the current daily ESAs for the road. This should then be multiplied by 365 to obtain the annual ESAs for the road.

To obtain the cumulative ESA loading over the design life of the road, the current annual ESA loading should be multiplied by one of the following factors:

Road Type	Factor
National Road	57.3
Regional Road	41.0

Table 4: Cumulative Growth Factors

The above factors have been derived from the following compound growth formula:

$$\text{Cumulative ESA} = \frac{(1+r)^n - 1}{r} \quad \text{where } r = \text{annual traffic growth rate}$$

$$n = \text{design life in years}$$

(Note: For National Roads  $r = 10\%$  and  $n = 20$  years; For Regional Roads  $r = 7\%$  and  $n = 20$  years)

*Determination of Pavement Layers*

The estimated cumulative ESAs are then used to determine the various pavement layers from the following design chart:

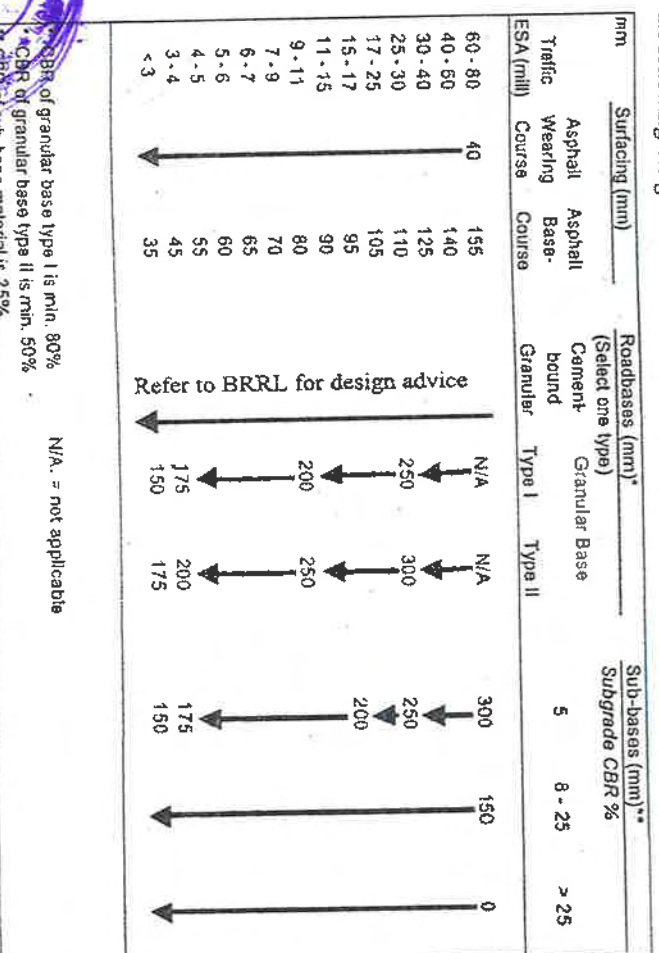


Table 5: Thickness Design Table for Flexible Pavements



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*Determination of Improved Sub-grade Thickness*

It can be seen from the foregoing design chart that it assumes a minimum sub-grade strength of 5% CBR. In Bangladesh, apart from higher ground within the Chittagong Hill Tracts where in situ CBRs will be higher, most roads are constructed on embankments that will have a CBR of less than 5%. Under these circumstances an improved sub-grade layer should be provided as follows:

CBR Required	Compacted Thickness of additional layer to provide required CBR			
	CBR of Underlying layer			
5%	2%	3%	4%	5%
	250 mm	150 mm	100 mm	-

**Table 6: Improved Sub-grade Requirements**

In all cases, sub-grade material with a CBR of less than 2% should be removed and replaced with fill material complying with Section 2.6 of the RHD Specification

**3. Drainage Design**

*Freeboard*

Much of Bangladesh is subject to flooding on an annual basis, and occasionally this flooding is of a severity that results in parts of the road network being inundated. Understandably traffic, and in particular heavy commercial vehicles, continue to use these roads and this can result in severe damage being done to the road pavement.

Accordingly, in the design of new roads or full reconstruction of existing roads the freeboard to the lowest edge of the pavement surface, above Highest Flood Level (HFL) (50 year return period for National and Regional Highways and 20 year return period for District (Zila) Roads), shall be at least the values shown in the table below, and in any event the Formation Level (top of sub-grade level) should be at least 30 cm above HFL.

Road Type	Freeboard (m)
Dual 1 carriageway	1.0
7.3 m carriageway	1.0
6.2 m carriageway	1.0
5.5 m carriageway	0.9
3.7 m carriageway	0.9

**Table 7: Freeboard**

In view of the foregoing all RHD Divisions should determine the HFL for the 50 and 20 year return period within their Division, and record this by means of permanent marks on an outer wall of the Divisional offices or other Government building within the Division.

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### Sub-grade Drainage

To prevent rapid deterioration of the pavement layers and to maintain the sub-grade at or above the design strength it is essential to allow all water entering the pavement layers to drain away as quickly as possible. [Standing water in the pavement layers will cause a reduction in strength and result in high pore-water pressures under traffic loading that will lead to surface disintegration.]

Where full depth pavement construction is being undertaken incorporating an improved sub-grade (i.e. a sand layer) this should be extended for the full width of the embankment such that it can act as a drainage layer.

Where only partial reconstruction is being undertaken, or only the provision of hard shoulders, sub-grade drains should be provided between the existing road pavement and the edge of the embankment as detailed in the RHD Standard Drawings.

### Surface Water Drainage

The road surface should be designed to shed water as quickly as possible during rain. Standing water is both a serious traffic hazard and will eventually soak through the pavement layers, weakening its structure. Key design considerations are as follows:

- A good surface drainage requires an impermeable surface. This will be achieved through meeting the RHD Specification for surfacing materials and through carrying out sufficient planned maintenance.
- The surface must be laid to the correct camber and falls and low spots should be avoided.
- Unpaved shoulders should generally have a steeper camber than the road pavement (e.g. 5%) with a small step (e.g. 25-38 mm) between pavement and shoulder.
- Rural roads in cuttings should include a side ditch a minimum of 1m deep with culverts provided through access roads to ensure the ditch is continuous.

Where existing roads pass through villages or bazaars it is frequently the case that they require full or partial reconstruction. Almost invariably the deterioration of these roads is a direct result of inadequate surface water drainage, either because such drainage was not provided in the first place or because the drainage facilities that are there are blocked due to lack of maintenance.

In any event where roads pass through villages, bazaars and other locations where there is frontage development they should be provided with positive surface water drainage with a longitudinal gradient of not less than 0.3% to an outfall. This drainage must be maintained and regularly cleaned as part of the routine maintenance of the road.

### Cross Drainage

Where embankments are, or have been, constructed they may obstruct the natural passage of water at ground level. In effect this means that the embankment can act as a dam and cause localized flooding.

To prevent this, in addition to the provision of bridges and culverts where embankments cross existing water courses, cross drainage structures in the form of 1m diameter pipe culverts should be provided at regular intervals. Typical details for pipe culverts are contained in the RHD Standard Drawings.

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#### 4. Partial Reconstruction of Roads and Pavement Strengthening

##### *Partial Reconstruction*

Where existing roads require partial reconstruction these will have been identified in the RHD Annual Roads Needs Assessment Report. The type of partial reconstruction that is required will differ for Zilla roads and National / Regional roads, and for the latter whether they are high or low volume traffic routes.

Typical details for the various types of partial reconstruction are contained in the RHD Standard Drawings and these should be adopted wherever partial reconstruction is to be undertaken.

##### *Pavement Strengthening*


An existing road pavement that is in otherwise good condition may require strengthening to extend or maintain its design life. Frequently this takes the form of a bituminous overlay, the thickness of which being a function of the forecast ESA loading and the condition of the existing road.


Here again the strengthening requirements will be identified in the RHD Annual Roads Needs Assessment Report and no design by the Divisions will be required.

#### 5. Strategic Roads

These design standards are a simplified version of the international standards upon which they are based. As such they will be appropriate for the design of road pavements for the majority of the roads in Bangladesh.

However, for strategic roads in the National Road network that will be subjected to very high traffic flows these Standards may only be used as a guide to the pavement design. In all such cases these roads must be designed in accordance with the AASHTO Design Manual or Overseas Road Note 31 as appropriate.

  
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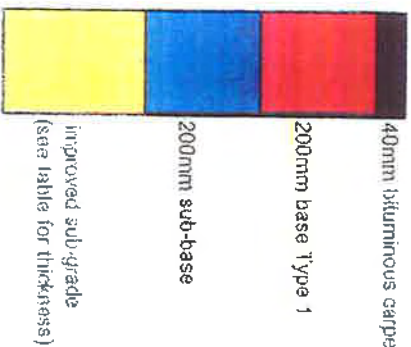
  
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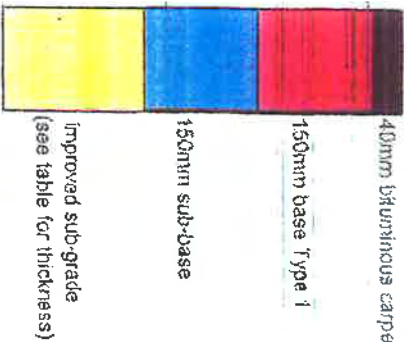
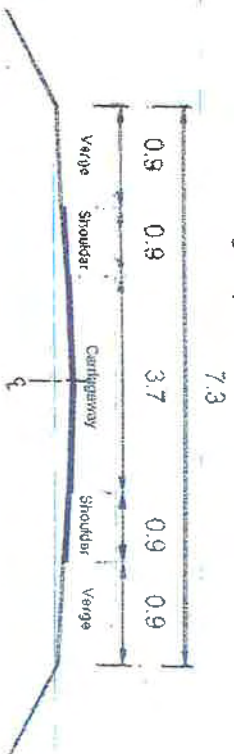
## Appendix 1: Standard Pavement Designs

Type 5: 5.5m Carriageway



Existing Subgrade CBR	Improved Subgrade (mm)
3%	300
4%	250
5%	200

Type 6: 3.7m Carriageway



Existing Subgrade CBR	Improved Subgrade (mm)
3%	300
4%	250
5%	200



प्रमाणित, निस्सह  
अभिज्ञान  
शुभराज (का. सं. १९९९/१९९९)

Page 18  
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Director  
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*Anisur Rahm*  
प्रमाणित, निस्सह  
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शुभराज (का. सं. १९९९/१९९९)

## Appendix 2: Example of Pavement Design

**Background:** An existing 6.2m Regional Road that is located on an embankment requires full reconstruction. A check has been made and the existing road surface is 1.0m above the Highest Flood Level for a 50 year return period. Accordingly the embankment does not require to be raised.

A number of trial pits were undertaken and the CBR of the sub-grade beneath the existing road was found to be 3%.

A 24 hour classified traffic count was carried out on a typical weekday.

n-way flow of commercial vehicles is used to determine the cumulative ESAs over the design life of the road as follows:

	Existing Flow / day (0.5two-way flow) (a)	ESA Factor (b)	Existing ESAs / day (a) x (b)	Annual ESAs (a) x (b) x 365
Heavy truck	20	4.8	96	35,040
Medium truck	150	4.62	693	252,945
Light truck	50	1.00	50	18,250
Large bus	100	1.00	100	36,500
<b>Total</b>			<b>100</b>	<b>342,735</b>

By reference to Table 4 and using the appropriate factor for a Regional road the cumulative ESAs over the design life for the road will be:

$$342,735 \times 41.0 = 14 \text{ million ESAs}$$

By reference to Table 6 an improved sub-grade will be required to achieve a sub-grade strength of 5% CBR and by reference to the design chart in Table 5 the required pavement layers will be:

- 130 mm DBS (40mm wearing course + 90mm base course)
- 250 mm Base Type 1
- 200 mm Sub-Base
- 300 mm Improved sub-grade

*Vijaya*  
 মহাপরিচালক  
 জাতীয় সড়ক  
 পরিবহন অধিদপ্তর

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*Rezaul*  
 Director General (Roads)  
 Ministry of Transport, Government of Bangladesh



Comparison with RHD DPP	
Sl. No.	RHD DPP
	BEZA DPP
	Road (2 lane, 10.3m width): Including Embankment fill, Sub-grade preparation, ISG, Sub-Base, Base Type-II, Base-Type-I, Prime Coat, Surfacing Base coarse, Tack Coat, Surfacing Wearing coarse. Cost per KM: BDT. 8.93 crore (RHD rate schedule 2018)- Attached
	RHD DPP
	Road (2 lane, 10.3m width): Including Embankment fill, Sub-grade preparation, ISG, Sub-Base, Base Type-II, Base-Type-I, Prime Coat, Surfacing Base coarse, Tack Coat, Surfacing Wearing coarse. Cost per KM: BDT. 9.15 crore (RHD rate schedule 2018)- Attached
1	Sub-Base, Base Type-II, Base-Type-I, Prime Coat, Surfacing Base coarse, Tack Coat, Surfacing Wearing coarse. Cost per KM: BDT. 8.93 crore (RHD rate schedule 2018)- Attached
2	Road (4 lane, 20.6m width): Including Embankment fill, ISG, Sub-Base, Base Type-II, Base-Type-I, Prime Coat, Surfacing Base coarse, Tack Coat, Surfacing Wearing coarse. Cost per KM: BDT. 20.81 crore
3	Bridge (4 lane, 75m)- 01 nos: Cost: BDT. 26.41 Crore
4	Bridge (2 lane)- 3 Nos: Cost Each Bridge: BDT 10.07 Crore
5	Culvert (2 lane)- 01 nos: 3 Vent Culvert Cost: BDT. 2.04 Crore
	Very Much depending on subsoil condition

*Ziana*  
 মন্ত্রিপরিষদ (স্বরাষ্ট্র)  
 সিনিয়র সিস্টেম অফিসার (সি.সি.সি. & সিসি.সি.)

*Ziana*

*Ziana*

D. VG. Hiremath  
 Team Leader  
 aarvee - BETS JV  
 IAS FOR DAS of Infrastructure Works at Khasara E  
 Bangladesh Economic Zone Authority

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**Cost Comparison per KM (RHD Rate Schedule 2018)**

Sl. No.	Item Description	Unit	Length (m)	Width/Dia. (m)	Height (m)	Quantity	Rate	Amount (Tk)	Length (m)	Width/Dia. (m)	Height (m)	Quantity	Rate	Amount (Tk)
BEZA Design (RHD Rate Schedule-2018)									RHD Design for Mirsarai Economic Zone Connecting Road Project (RHD Rate Schedule-2018)					
1	Cleaning and Grubbing	Sqm							1000	25		25000.00	39.70	992,500.00
2	Roadway excavation in un-suitable materials	Cum							1000	7.3	1.07	7811.00	150.88	1,178,523.68
3	Preparation of Sub-grade	Sqm	1000	17.8		17800	24.00	427,200.00	1000	10.3		10300.00	24.00	247,200.00
4	Providing Layout and carry over Bench Mark (BM) at site from nearby BM pillar	Sqm	1000	17.8		17800	11.65	207,370.00				0	11.65	
5	Improved Subgrade (Sand F.M >0.80)	Cum	1000	11.3	0.3	3390.00	1,099.00	3,725,610.00	1000	10.3	0.3	3090	1,099.00	3,395,910.00
6	Sub-Base (Sand F.M >1.0 and Brick Khoo <40 mm)	Cum	1000	11.3	0.25	2825.00	5,174.00	14,616,550.00	1000	10.3	0.25	2575	5,174.00	13,323,050.00
7	Aggregate base type-II	Cum	1000	10.8	0.25	2700.00	5,662.00	15,287,400.00	1000	10.3	0.2	2060	5,662.00	11,663,720.00
8	Aggregate base type-I	Cum	1000	10.05	0.2	2010.00	8,273.00	16,628,730.00	1000	10.05	0.2	2010	8,273.00	16,628,730.00
9	Bituminous Prime Coat (Plant Placed)	Sqm	1000	10.05		10050.00	113.00	1,135,650.00	1000	10.3		10300	113.00	1,163,900.00
10	Bituminous Tack Coat (Plant Work)	Sqm	1000	7.3		7300.00	50.00	365,000.00	1000	7.3		7300	50.00	365,000.00
11	80 mm Dense Bituminous Surfacing-Base Course (Plant Method) Bitumen Grade 60/70 (Coarse Sand F.M >2.5, Crushed boulder/gravel aggregate <25 mm etc.	Cum	1000	7.3	0.08	584.00	22,133.00	12,925,672.00	1000	10.3	0.07	721	22,133.00	15,957,893.00
12	40 mm Dense bituminous Surfacing wearing course (Plan method) Bitumen Grade 60/70	Cum	1000	10.05	0.04	402.00	23,295.00	9,364,590.00	1000	7.3	0.05	365	23,295.00	8,502,675.00
13	125 mm Thick Brick on End Edging (1st Class)	Lin. M	1000	2		2000.00	189.00	378,000.00	1000	2		2000	189.00	378,000.00
14	Road Marking	Sqm	1000	0.15	3	450.00	1,114.00	501,300.00	1000	0.1	3	300	1,114.00	334,200.00
Cost per KM for Road									Cost per Meter for Road					
75,563,072.00									74,131,301.68					
15	Earth filling work. (Filling in embankment, ditches, widening at intersection & curves.) Contractors Arranged Land	Cum				34782.35	397.00	13,808,596.92				43965.2	397.00	17,454,184.40
Total Cost per KM for Road Construction									Total Cost per KM for Road Construction					
89,371,668.92									91,585,486.08					

Note:

01. Comparison between BEZA (2018-RHD) & Approved "RDPP-01 & RDPP-02 of Abu-turab(Bartakia) to Mirsarai Economic Zone Connecting Road" Ctg Division, RHD.

Prime Minister's Office  
Govt. of the Peoples Republic of Bangladesh

Director

Anisur Rahman

*Anisur Rahman*

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স্বাক্ষর  
ব্যবস্থাপক (এম এম এম ও গবেষণা)

*R. M. A.*  
স্বাক্ষর  
সিনিয়র প্রকৌশলী  
উপ-প্রকৌশল (সি-সি)  
শিল্প ও স্বাস্থ্য বিভাগ  
পল্লিকরনা ক্যান্টনমেন্ট, পল্লিকরনা মহানগর

*V. G. Hiremath*  
Dr. V.G. Hiremath  
Team Leader  
agreee -BETS JV  
TAS FOR D&S of Infrastructure Works at Mirsarai  
Bangladesh Economic Zone Authority

**Summary of Drainage Structures(Storm Water)**

	Description	Taka in Lakh
1	Construction of 17.6 km Storm Water RCC Drain in2A	10500
2	Construction of 13.8 km Storm Water RCC Drain in2B (including 4,5 zones)	10700
	<b>Total</b>	<b>21200</b>

*Signature*

*Signature*

Dr. V.G. Hiremath  
Team Leader  
raivee -BETS JV  
TAS FOR D&S of Infrastructure Works at Internal E  
Bangladesh Economic Zone Authority

*Ahishur Rahman*  
**Ahishur Rahman**  
Director  
Prime Minister's Office  
Govt. of the People's Republic of Bangladesh

*Signature*  
স্বাক্ষরিত  
২০১৬ সালের  
১১/১১/১৬ তারিখে  
স্বাক্ষরিত (স্বাক্ষরিত  
১১/১১/১৬ তারিখে)

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১১/১১/১৬ তারিখে  
স্বাক্ষরিত (স্বাক্ষরিত  
১১/১১/১৬ তারিখে)



Transaction Advisory Services Firm for D&S of Infrastructure Works  
Bangladesh Economic Zones Development Project (BEZDP)

Name of Work Construction of Storm Water RCC Drains at 2A Zone  
Package No BEZA WD -  
Drain Length 17 608 km Including Road-X Structure & Plot Connecting X Structure Length- 1 270 km  
Total estimated amount 105,04,17,669.85

Item No	Description of Works	Unit	Rate (Taka)	Quantity	Amount (Tk)	Remarks
1	Construction & maintenance of site office for Engineers and provide required facilities	Ls	500 000.00	1.00	500 000.00	
2	(RMD-07/05) Roadway Excavation in Suitable soil	Cum	144.00	145,134.72	20 899 299.04	
3	(RMD-04/07/05) Sand filling on the prepared foundation bed with sand of FM>0.80 in layers not more than 150mm thick including necessary carriage, leveling, watering and ramming to achieve minimum dry density (MDD) of 95% STD compaction with optimum moisture content.	Cum	1 381.00	17 883.04	24 596 471.36	
4	(RMD-04/07/05) Concrete class as Detailed on Drawings (Class 10) (Concrete Mixer)	Cum	9 517.00	5 658.41	53 851 040.38	
5	(RMD-04/07/05) Concrete class-30 (Decor. slab, side walk, wheel guard, curb etc) (Concrete Mixer) Reinforcement provided with using Stone Chips & steel shutter with minimum cement content relative to mix ratio and maximum water cement ratio 0.4.	Cum	17 751.00	35 510.83	630 552,715.49	
6	(BWD-3-10-140-55) Manufacturing and supplying G.C blocks (300X300X150 mm) in leanest mix (1:1.5) with cement, sand (F.M>=1.5) and Stone Chips (40mm down graded), to attain a minimum 28 days cylinder strength of 9.0 N/mm2 including grading, washing stone chips, mixing, laying in forms, consolidation, curing for at least 21 days, including preparation of platform, shuttering and stacking in measurable stacks etc complete including supply of all materials (steel shutter to be used) as per direction of E.I.C.	Each	171.35	251.00	40 267.25	
7	(BWD-40-239-10) Labour charge for protective works in laying CC blocks of different sizes including preparation of base, watering and ramming at base etc. complete as per direction of Engineer in charge.	Cum	1,236.87	3.17	3 920.26	
8	(BWD-44-140) Labour for breaking head of hardened pre-cast piles upto required length by any means and removing the dismantled materials such as concrete to a safe distance including scrapping and removing concrete from steel MS rods, all sorts of handling, stacking the same properly after clearing, leveling and dressing the site and clearing the river bed etc. complete as per direction of E.I.C.	Cum	2 600.24	0.54	1 404.13	

স্বাক্ষরিত (স্বাক্ষর করা হয়েছে)  
প্রকল্প পরিচালক (সি.এ.জি.ও. অফিস)  
জি.এ.জি.ও. অফিস  
জি.এ.জি.ও. অফিস  
জি.এ.জি.ও. অফিস

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অনিসুর রহমান

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Genl. of the Public & Relations  
 Prime Minister's Office  
 Anisur Rahman  
 Director

শ্রী সারওয়ার (সি.সি.এ.সি.সি.)  
 বাংলাদেশ জেলা প্রশাসন  
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সি.সি.এ.সি.সি.  
 সারওয়ার (সি.সি.এ.সি.সি.)  
 বাংলাদেশ জেলা প্রশাসন  
 সারওয়ার (সি.সি.এ.সি.সি.)

2/9/2020

Item No	Description of Works	Unit	Rate (Taka)	Quantity	Amount (Tk)	Remarks
9	RBWB-50(1-2) High Yield Reinforcement Bars	Kg	90.58	3,457,376.74	313,089,664.99	
10	RBWB-11(1-1) Single layer Brick Flat using 75mm thick compacted sand cushion (1st class)	Sqm	616.11	99.07	61,026.84	
11	RBWB-20(1-1) 150 mm Brick work with 1st class bricks in cement mortar (sand of 4.75mm sieve) in foundation and plinth including soaking in clean water for 6 hours, cleaning the bricks, raking out joints, sagging, setting, curing at least for 7days, including supply of all materials etc. complete and as per direction of E-I-C.	Cum	6,388.88	5.63	55,193.97	
12	RBWB-20(1-1) 125 mm thick Brick work with 1st class bricks in cement mortar (sand of 4.75mm sieve) including soaking in clean water for 6 hours, cleaning the bricks, raking out joints, sagging, setting, curing at least for 7days, including supply of all materials etc. complete and as per direction of E-I-C.	Sqm	921.50	49.41	45,492.59	
13	RBWB-26(3) Supplying 100 mm inside dia best quality uPVC Pipe weep hole filled with Khoo @ 2m	M	617.05	4,085.00	2,520,445.00	
14	RBWB-27(7) Supplying 75 mm dia wall thickness uPVC Pipe weep hole filled with Khoo @ 2m	M	449.00	5,931.70	2,690,273.30	
15	RBWB-75(170) N/S work in Angles, including fabricating, machining, cutting, bending, welding, forging, milling, riveting, embending anchor bars and fitting, fixing, local handling etc. complete with energy consumption and supply of labours including the cost of materials as per design, specifications and direction of E-I-C.	Kg	145.99	712.99	104,099.21	
16	RBWB-85(10) Supplying 3 layers polythene sheet @ 1 kg per sqm Sany	Sqm	21.37	5,835.77	214,434.17	
17	RBWB-122(10) Supplying and placing including, embedment along the toe line under the PVC weep, through impervious non-woven needle punched type geo-textile filter of different grades, specifications for effective erosion protection/inverted filter in hydraulic structure	Sqm	165.87	184.20	285,111.24	
18	Construction Management Plan as per Bid Document	L.S	1,000,000.00	1.00	1,000,000.00	
<b>Total Tk.:</b>					<b>1,050,417,669.85</b>	

*(Signature)*

*(Signature)*

Dr. V.G. Hiremath  
 Team Leader  
 aarvee-BETS JV  
 TAS FOR D&S of Infrastructure Works at Maszari EJ  
 Bangladesh Economic Zone Authority



**Transaction Advisory Services Firm for D&S of Infrastructure Works  
Bangladesh Economic Zones Development Project (BEZDP)**

Name of Work: Construction of Storm Water RCC Drains at 2B Zone under BEZA in Bangabandhu Sheikh Mujib Shilpanagar, Mirsarai EZ  
 Package No: BEZA WD -  
 Total Drain Length: 13.823 km including Road-X Structure & Individual Plots Connecting X Structure (Length- 1.08 km)  
 Total estimated amount: 107,88,19,828.63

*2020/07*  
 প্রকল্প পরিচালক (স্বয়ং পরিচালিত) /  
 প্রকল্প পরিচালক (স্বয়ং পরিচালিত) /  
 প্রকল্প পরিচালক (স্বয়ং পরিচালিত) /

Item No	Description of Works	Unit	Rate (Taka)	Quantity	Amount (Tk)	Remarks
1	(WD-11/13) Construction of Engineer's site office of minimum 38 sqm plinth area with providing security fencing, 5 KVA stand-by generator, IBM compatible PC with monitor, computerable power supply (UPS), laserJet printer (minimum 25 ppm), furniture, first aid box, safety helmet, level/theodolite/ODM, consumables, stationeries etc.	Each	56,463.00	1	56,463.00	
2	(RD-11/2/02) Roadway Excavation in Suitable soil	Cum	144.00	145,301.23	20,923,377.54	
3	(RD-11/2/03) Sand filling on the prepared foundation bed with sand or FM>0.80 in layers not more than 150mm thick including necessary carriage, leveling, watering and ramming to achieve minimum dry density (MDD) of 95% STD compaction with optimum moisture content	Cum	391.00	14,762.64	5,803,603.76	
4	(RD-11/2/04) Concrete Dress as Detailed on Drawings (Class10) (Concrete Mixer)	Cum	9,517.00	4,918.77	46,911,976.92	
5	(RD-11/2/05) Curb, Concrete class 20 (Cock slab, side walk, wheel guard, curb etc) (Concrete form, reinforced cement concrete works using Stone chips & steel shutter with minimum cement content relates to mix ratio and maximum water cement ratio 0.4)	Cum	17,781.00	35,649.88	632,817,553.43	
6	(RD-11/2/06) Masonry and supplying (CC blocks) 300x300x150 mm in leanest mix 1:2:4 with cement, sand (M-10) and Stone Chips (60mm de-graded), to attain a minimum 28 days cylinder strength of 4.0 Mpa including grading, washing stone chips, laying, laying in form, consolidation, curing for at least 21 days, including preparation of platform, shuttering and stacking in measurable stacks etc. complete including supply of all materials (steel shutter to be used, as per direction of E.I.C)	Each	17.35	290.00	5,071.50	
7	(RD-11/2/07) Labour charge for protective works in laying CC blocks of different sizes including preparation of base, watering and ramming of base etc. complete as per direction of Engineer in charge	Cum	1,206.67	2.78	4,574.51	
8	(RD-11/2/08) Labour for breaking head of hardened precast piles upto required length by dry break and removing the dismantled materials such as concrete to a safe distance including crushing and removal concrete from steel MS ruff, all parts of herding, stacking the same properly after cleaning, leveling and dressing the site and cleaning the river bed etc. complete as per direction of the firm.	Cum	2,500.00	0.540	1,350.00	

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2/9/2020

*2020/07*  
 প্রকল্প পরিচালক (স্বয়ং পরিচালিত) /  
 প্রকল্প পরিচালক (স্বয়ং পরিচালিত) /  
 প্রকল্প পরিচালক (স্বয়ং পরিচালিত) /

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Prime Minister's Office

Director  
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 প্রকল্প পরিচালক (সি.এস.সি.)  
 বাংলাদেশ জলবিদ্যুৎ নিয়ন্ত্রণ কর্তৃক  
 পরিচালিত জাতীয় জল সরবরাহ কর্মসূচী

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 পরিচালিত জাতীয় জল সরবরাহ কর্মসূচী

Item No	Description of Works	Unit	Rate (Taka)	Quantity	Amount (Tk)	Remarks
9	(RHD-13/02/07) High Yield Reinforcement Bars	Kg	90.56	3,853,832.24	348,991,485.73	
10	(RHD-13/02/07a) Single layer Brick Flat soling 75mm thick compacted sand cushion (1st class)	Sqm	516.39	97.55	50,105.25	
11	(RHD-13/02/07b) 250 mm Brick work with 1st class bricks in cement mortar (sand of F.M=1.50) in foundation and plinth, including soaking in clean water for 6 hours, cleaning the bricks, raking out joints, staging, sorting, curing at least for 7days, including supply of all materials etc. complete and as per direction of E.I.C.	Cum	6,395.88	4.63	35,198.97	
12	(RHD-13/02/07c) 125 mm thick Brick work with 1st class bricks in cement mortar (sand of F.M=1.50) including soaking in clean water for 5 hours, cleaning the bricks, raking out joints, staging, sorting, curing at least for 7days, including supply of all materials etc. complete and as per direction of E.I.C.	Sqm	831.65	49.15	39,221.73	
13	(PWD-16/34) Supplying 100 mm inside dia best quality uPVC Pipe weep hole filled with Khao @ 3m c/c. approved and accepted by the E.I.C.	M	67.00	3,186.50	1,966,070.50	
14	(PWD-16/37) Supplying 75 mm dia wall thickness uPVC Pipe weep hole filled with Khao @ 3m c/c. approved and accepted by the E.I.C.	M	449.00	4,673.51	2,098,416.47	
15	(PWD-16/38) M.S. work in Angles, including fabricating, machining, cutting, bending, welding, forging, drilling, riveting, embedding anchor bars and fitting, fixing, local handling etc. Complete with energy consumption and supply of labours including the cost of materials as per design, specification and direction of E.I.C.	Kg	146.95	51.27	7,485.24	
16	(PWD-06/5/2) Supplying, fitting and fixing ribbed PVC water stopper with center bulb of width approx. 25 mm and approx. 5 mm thick for non-rabbed, non-working, RCC joints, having minimum tensile strength 5.27 MPa (approx. 1100 psi), minimum ultimate elongation 350%, approx. wall thickness 50, minimum tear resistance 0.0175 kN/mm (100 lbs/inch) at RCC joint including girth joints in basements, approved and in consultation with design office, providing 15 mm x 50 mm wooden battens at the top and bottom of water stopper, holding in position and below the water stopper - true horizontal or vertical by appropriate means as per design specification, and accepted by the E.I.C.	M	1,017.00	2,966.00	3,046,832.00	
17	Environmental Management Plan as per B d Document	L.S	1,000,000.00	1.00	1,000,000.00	

Total Tk.: 1,078,819,828.63

*Arifur Rahman*

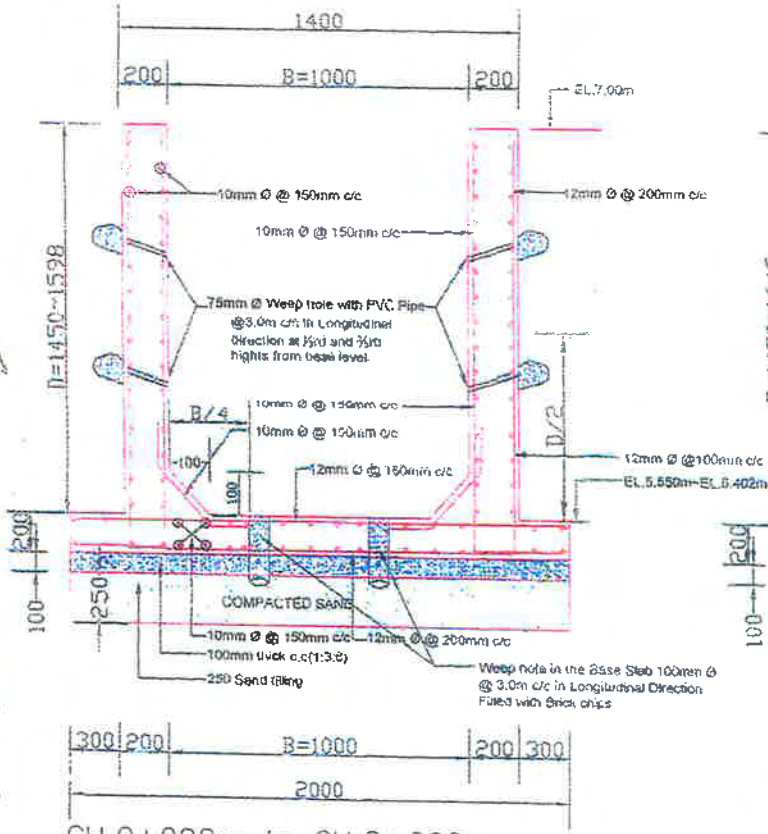
*Dr. V.G. Hiremath*

Dr. V.G. Hiremath  
 Team Leader  
 aarvee -BETS JV  
 TAS FOR D&S of Infrastructure Works at AEEs  
 Bangladesh Economic Zone

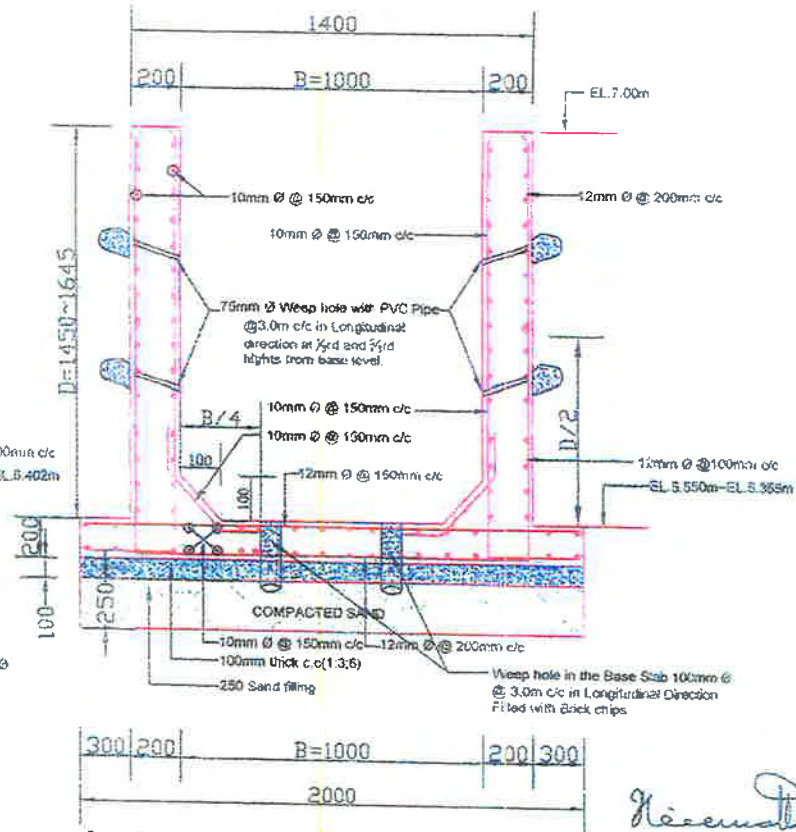
2/6/2020

222

# Drainage Structure



CH.0+000m to CH.0+222m:  
B=1000mm, D=1450~1598mm,  
CROSS SECTION OF DRAIN S1a & S1b



CH.0+000m to CH.0+292m:  
B=1000mm, D=1450~1645mm,  
CROSS SECTION OF DRAIN S2

*Hiremath*

Dr. V.G. Hiremath  
Team Leader  
aarvee -BETS JV  
TAS FOR D&S of Infrastructure Works at Misra 02  
Bangladesh Economic Zone Authority

অসিউর রহমান (সি.এস.এস. ও সিসি)  
প্রকল্প পরিচালক  
আরবীয়া  
জি.এ.সি.জি.  
আরবীয়া (সি.এস.এস. ও সিসি)

223 Anisur Rahman  
Director  
Prime Minister's Office  
Govt. of the Peoples Republic of Bangladesh

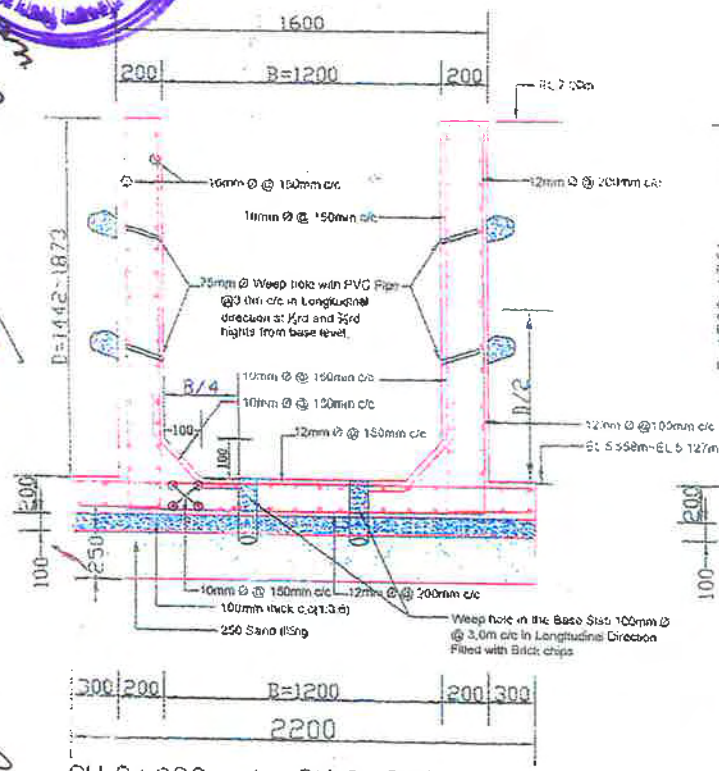
	CONSTRUCTION OF WATER REGULATION STRUCTURE	TAS FOR D&S (S&S-103)	Revised Issue CAD operator	Dr. V.G. Hiremath Office Engineer	Co-ordinator Stephen Hinch	Chief Engineer Md. Mohammod Akbar Team Leader	BEZA	01	
	CROSS SECTION OF S1a & S1b	APRIL, 2018	<i>Rahul</i>	<i>Stephen</i>				02	
								03	
								04	

*Rahul*  
অসিউর রহমান (সি.এস.এস. ও সিসি)  
প্রকল্প পরিচালক  
আরবীয়া (সি.এস.এস. ও সিসি)

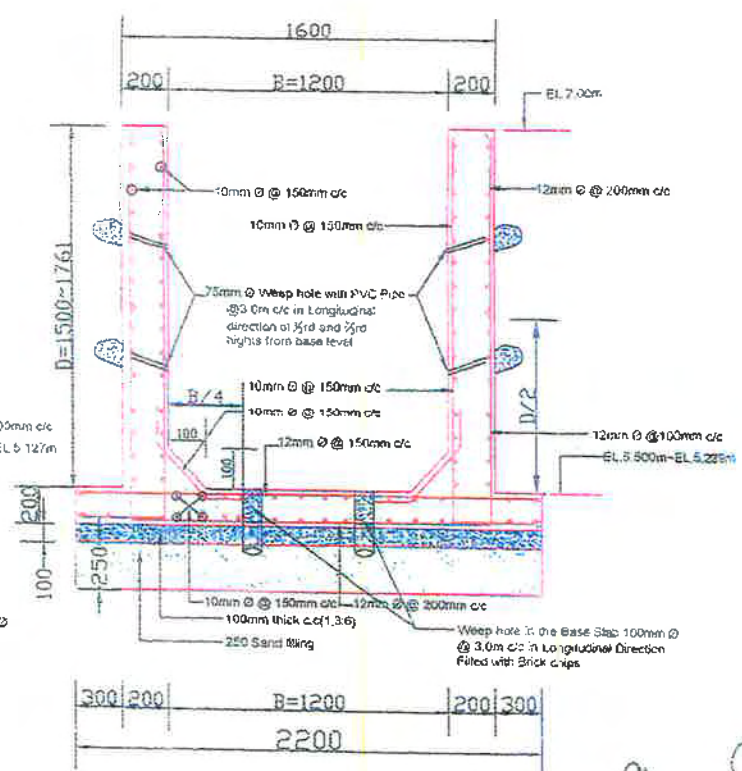
Anisur Rahman  
 Director's Office  
 Govt. of the People's Republic of Bangladesh



১৯৯৮  
 বাংলাদেশ সরকার  
 অর্থসচিব (সি.এস.এস. ও পল্লী) অফিস



CH.0+000m to CH.0+646m:  
 B=1200mm, D=1442~1873mm,  
 CROSS SECTION OF DRAIN S1a & S1b



CH.0+000m to CH.0+392m:  
 B=1200mm, D=1500~1761mm,  
 CROSS SECTION OF DRAIN S2a & S2b.

*Dr. V.G. Hiremath*  
 Dr. V.G. Hiremath  
 Team Leader  
 aarvee -BETS JV  
 T&S FOR D&S of Infrastructure Works at Mirsarai EJ  
 Bangladesh Economic Zones Authority

Drainage Structure

 BANGLADESH ECONOMIC ZONES AUTHORITY (BEZA)	CONSTRUCTION OF STORM WATER DRAIN (ZA ZONE)	V/S Form. P/NO. (BEZA-S-102)	Rajad Nathi C&S Operator	Slobod Kumar Saha Office Engineer	George Nazim Islam	Qazi Mohammad Motam Team Leader	BEZA	01 02 03 04 05 06	FOR CONSTRUCTION
	CROSS SECTION OF S1a & S1b, S2a & S2b	FEBRUARY, 2010	<i>Rajad Nathi</i>	<i>Slobod Kumar Saha</i>					S-01

Water Supply Network  
 Summary of Tentative Capital Cost for 50 MLD Water Treatment  
 Plant from CTPP and UG Tubewell) for Reuse

Schedule No.	Description	Total Price in Lakh BDT
1	Civil Works for SWTP and Ancillary Structures	5985
2	Treated Water Transmission pipeline	6915
3	Mechanical equipment including installation	3760
4	Electricity equipment including installation	2040
<b>Total</b>		<b>18700</b>

*(Signature)*  
 ডি.এ.সি.  
 মহাপরিচালক, ঢাকা জল সরবরাহ কর্তৃপক্ষ  
 (সি.এ.সি. অফিস, ঢাকা)

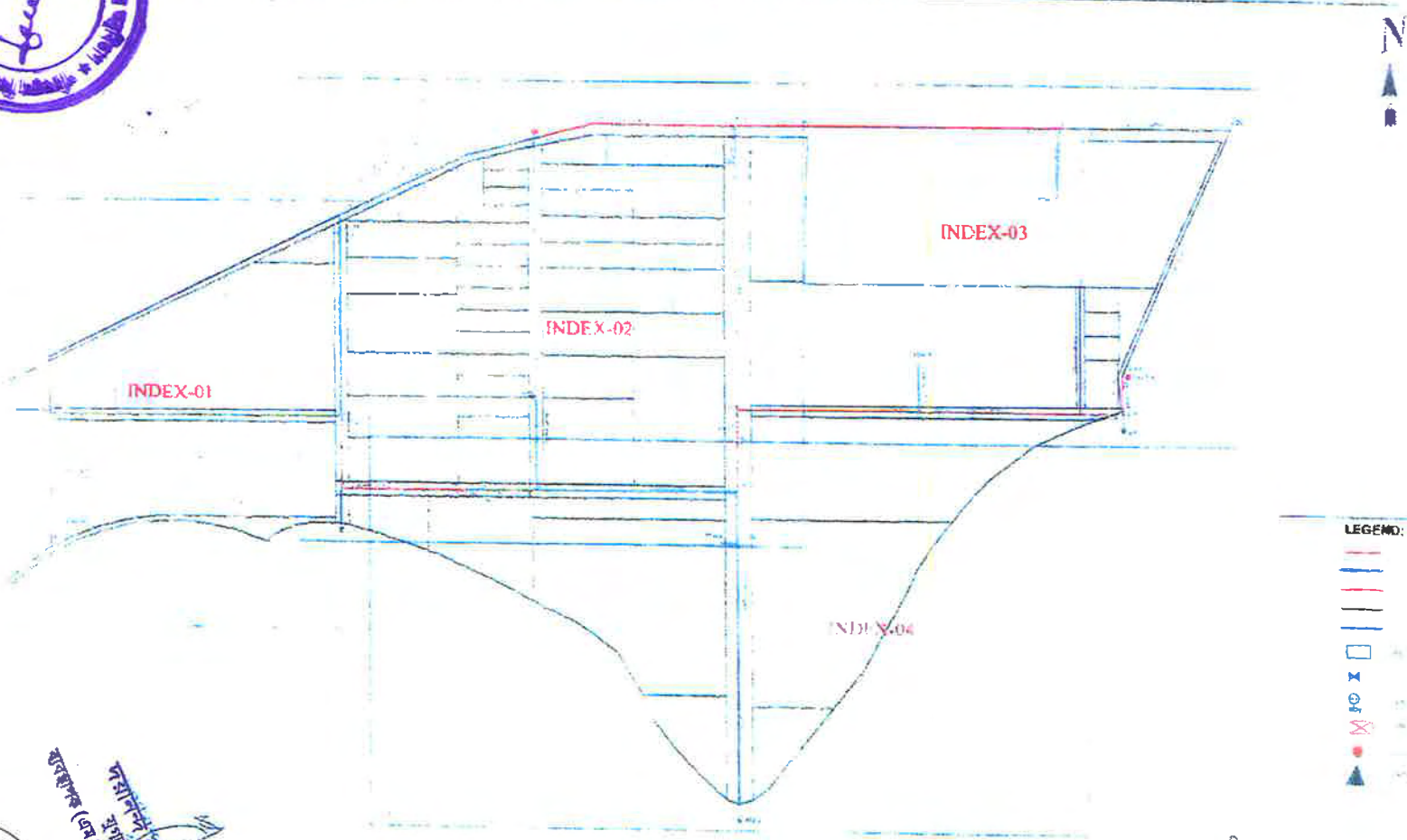
*(Signature)*  
 প্রোগ্রামার সফটওয়্যার ইঞ্জিনিয়ার  
 জলসি.সি. প্রকল্প (১৯৯৮)



*(Signature)*  
 প্রোগ্রামার সফটওয়্যার ইঞ্জিনিয়ার  
 জলসি.সি. প্রকল্প (১৯৯৮)  
 জলসি.সি. প্রকল্প (১৯৯৮)

*(Signature)*  
**Anisur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

Water Supply Network



LEGEND:

- 100mm
- 150mm
- 200mm
- 250mm
- 300mm
- Valve
- Manhole
- Check Valve
- Other

226

Ahissur Rahman  
Director

Prime Minister's Office  
Govt. of the People's Republic of Bangladesh



স্বাক্ষর (স্বাক্ষর করে ও পাঠান)

স্বাক্ষরিত

স্বাক্ষরিত

স্বাক্ষরিত

স্বাক্ষরিত

Government of the People's Republic of Bangladesh

CLIENT



Bangladesh Economic Zones Authority  
Water Utilities Engineering Department  
Dhaka

Detail Study on Total Water Demand and Water Availability Assessment for Bangabandhu Sheikh Mujib Sippi Nagar

CONSULTANT



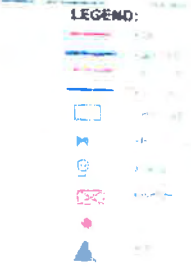
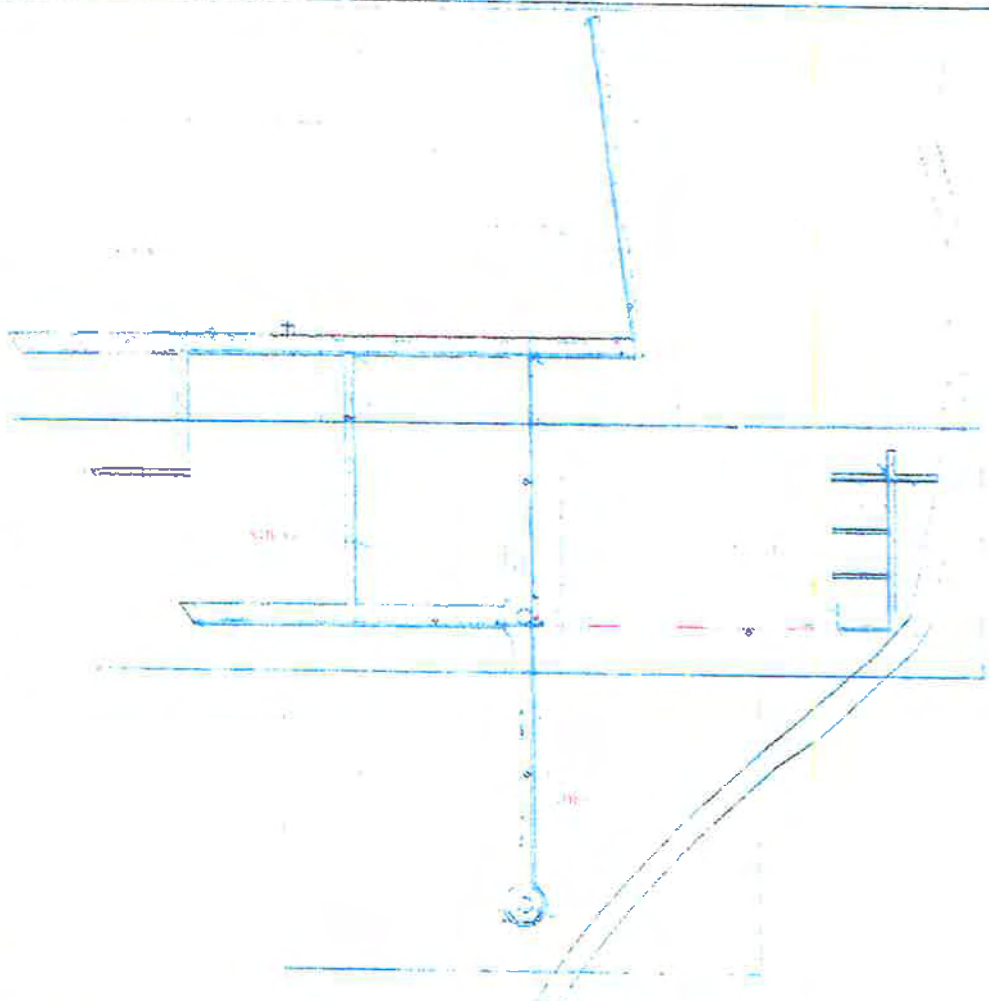
Institute of Water Modelling  
House-402, Road-10, P.O. Box 0016  
Dhaka-1000, Dhaka-1000 Bangladesh

ORIGINARY DRAWING SIZE: 42 x 420/217

Detail Design Index Map for Distribution

DATE: 10/02/2017  
SCALE: 1:1000  
DESIGNED BY: Mr. Md. Abdur Rahman  
CHECKED BY: Mr. Md. Abdur Rahman  
APPROVED BY: Mr. Abdur Rahman

Water Supply Network



*Signature*

*Prime Minister's Office*  
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার  
প্রধানমন্ত্রীর কার্যালয়  
১০, সফল রাস্তা, ঢাকা-১০০

*Anisur Rahman*  
Anisur Rahman  
Director  
Prime Minister's Office  
Govt. of the People's Republic of Bangladesh

227



Government of the People's Republic of Bangladesh  
CLIENT  
Ministry of Water Resources, Power and Energy  
Prime Minister's Office, Dhaka-1000  
CONSULTANT  
IWA  
Institute of Water Modelling  
PO Box 146, Plot 12, New CBD  
Mirpur-12, Dhaka-1216, Bangladesh

NOTES  
All dimensions are in millimeters and all levels in meters  
PWD unless otherwise mentioned in drawing

DRAWING  
Main Index

ORIGINAL DRAWING SIZE  
A3 420x297

DESIGNED  
Azizul Hossain Khan

CHECKED  
Md. Saikat

REVISIONS  
No. Description  
Date

APPROVED  
Date

Detail Design - Index Map for Distribution System of ...

Sl. No &	Description of work	Quantity	Unit	Rate	Amount
1	Erection of bamboo scaffold with full bamboo posts and pegs not less than 60mm in diameter and four strings etc complete as per direction of Engineer in charge	15.23 nos	Each	326.03	4,999.13
2	Earth work by mechanical Excavator (long Room) in construction/recentring of embankment/canal bank from etc. compacted to 85% / 90%maximum dry density at optimum moisture content, with reference to laboratory test (ASTM) modified hammer, wet clayey soil/minum 30% clay, 6-10% silt, 0-30% sand) within the canal bed of 30m and all lifts including throwing the spoils to nearby or layers not exceeding 2.10m in thickness with cloud breaking to a maximum size of 100mm, benching the side slopes, removing roots & stumps of trees of girth upto 240mm from the ground, stripping/ploughing the base of embankment and borrow pit areas, dung bailing, rough dressing including 150mm cankerbering at the centre of the crest etc,complete including maintenance of the same for 6 months after completion. (compactness will be done by the contractor with approved equipment, including all ancillary charges for transportation and testing) as per direction of Engineer in charge.	54080.00 cum	Pcum	151.92	8,203,734.00
3	Earth work by mechanical Excavator (long Room)				
28-130	Reinforced Cement Concrete Works in least one: 1-2-4 with 25mm down graded coarse aggregates and sand of F.F.P.W 1.5, to attain a minimum 28 days cylinder strength of (6.0 N/mm <sup>2</sup> including breaking, screening, grading, washing aggregates with clear water, mixing, laying in forms, consolidation in levels, curing, including supply of all materials, excluding the cost of M.S. work for reinforcement and formworks etc complete and as per direction of Engineer in charge.	2322.25 cum	Pcum	13221.53	33,347,296.48
4	M.S. Work for reinforcement with deformed M.S. bar. f) - 276 N/mm <sup>2</sup> (made from mild) in RCC works including local handling, cutting, forging, bending, cleaning and fabrication with supply of deformed M.S. 700 in different sizes and binding with 22 to 18 gages C.I. wire etc complete including the cost of all materials as per direction of Engineer in charge	69992.00 kg	K/kg	80.21	5,614,058.32

স্বাক্ষরিত  
মুদ্রিত  
১৯/০১/১৭

১৯/০১/১৭  
১৯/০১/১৭

**Anisur Rahman**  
Director  
Prime Minister's Office  
Govt. of the People's Republic of Bangladesh

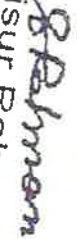
228






Sl No &	Description of work	Quantity	Unit	Rate	Amount
5	Form work for centering and water tight shuttering as per drawing with 14 BWC M.S. sheet, fitted and fixed with 40mm x 40mm x 6mm M.S. Angle frame and 25mm x 6mm F.1 bar stiffener, with necessary fabrication, welding, making the forms including fitting, fixing of steel forms with necessary ties, batten, struts, nuts & bolts, props etc as per designed shape and size including leveling and removing the forms after specified period including the cost of all materials as per direction of Engineer in charge.				
16-150-60	Forming, fixing, bracing, girder beams, foundation slab with 60-80mm dia/brack bamboo props.	477.00 sqm	Psqm	882.73	421,061.26
04-600	Providing cork sheet/polyethylene sheet in expansion joints of concrete works including supply of all materials etc complete as per direction of Engineer in charge				
04-600-10	25mm thick sheet	1290.75 sqm	Psqm	526.12	679,089.39
07	Filling of expansion joints upto a depth of 40mm with bitumen raised with coarse sand (F.M.=2.5) in concrete works including supply of all materials etc complete as per specification and direction of Engineer in charge.				
04-620					
04-620-10	25mm wide	17210.00 m	Pm	99.74	1,716,525.40
08	Earth work in cutting and filling of eroded bank of river, channel etc. as design slope, including leveling, dressing and compacting the earth in 150mm layers and preparation of the base for bank protection work as per direction of Engineer in charge				
40-090		5044.63 cum	Pcum	170.990	862,581.85
Total (for Item)=					50,850,445.82
Total for 10 Km					508,500,458.22

  
 Md. Anisur Rahman  
 Director  
 Civil Engineering Division  
 Bangladesh Water Development Corporation  
 Dhaka-1215

  
**Anisur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

  
 Md. Anisur Rahman  
 Director  
 Prime Minister's Office  
 Dhaka-1215





229



# BSMSN Channel Lining



## Legend

-  Ichamhali Channel
-  Adjacent area
-  Admin Building
-  Canal



**Ahissur Rahman**  
Director  
Prime Minister's Office  
Govt. of the People's Republic of Bangladesh



**BANGLADESH  
ECONOMIC ZONES  
AUTHORITY**



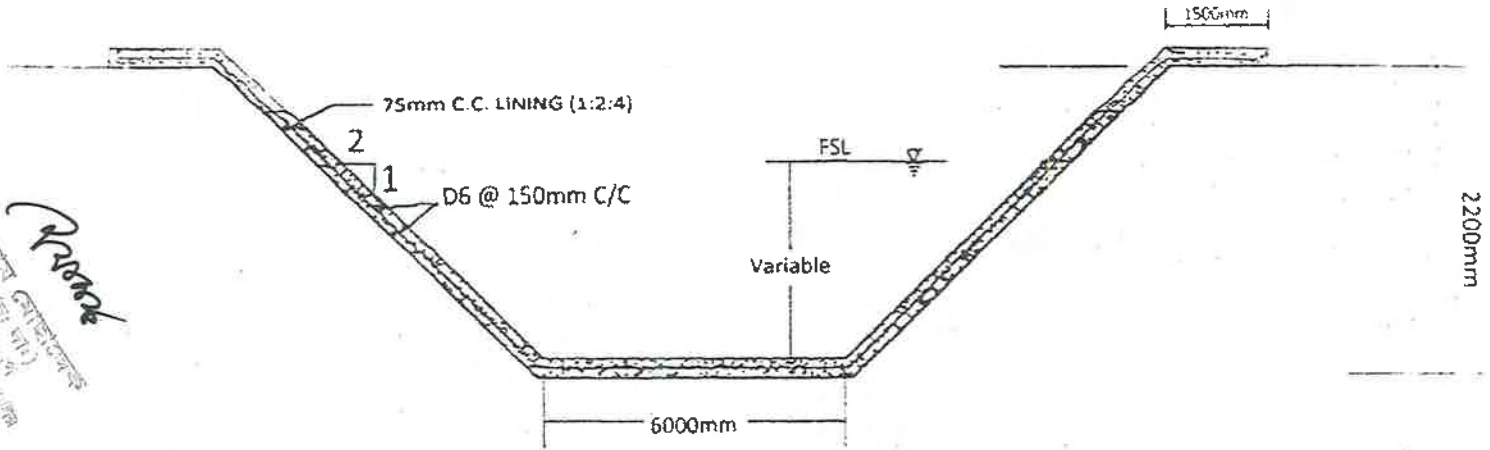
*Diya*  
সহকারী পরিচালক  
প্রশাসনিক ও ব্যবসায়িক  
সহকারী (সহকারী পরিচালক)

230

*S. Sarkar*

*R. Khan*  
সিনিয়র প্রকৌশলী  
সিস্টেম এনালিসিস ও ডিজাইন  
১৯৯০-১৯৯১

231



TYPICAL SECTION OF C.C. LINING

*Handwritten signature*

*Road*

সড়ক সীমান্ত সীমিতকরণের  
 প্রকল্পের (সি. এম.)  
 কাজের নকশা, সিলেট জেলা

*Handwritten signature*

সড়ক সীমান্ত সীমিতকরণ  
 প্রকল্পের (সি. এম.)  
 কার্যালয় (সি. এম. এফ. ও. সিস্টেম)



**Ahmedur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

Estimate of Telecommunication Network					Total price in lac taka
Item	Unit	Quantity	Unit Price		
Telephone with internet facilities (OLT, ODF, Cabinet, Splitter, MDU, ONT, Rectifier, Battery, NMS, accessories and other services etc.) for additional 10000 subscribers	LOT	1	76,500,000		765.00
Router	Number	1	9775000		97.75
Aggregation Switch	Number	1	3400000		34.00
OSP					
OFC (24 Core)	km	100	150,000		150.00
Duct (F/DPE etc)	km	100	90,000		90.00
OFC materials and laying	km	100	300,000		300.00
Overhead OFC/ Optical Drop wire (4/6-core)	km	150	60,000		90.00
Overhead OFC installation with necessary clamp and insulator	km	150	25,000		37.50
Overhead OFC Accessories (Pole etc.)	LS	1			50.00
UTP Cat-6 Cable (305m Box)	Box	300	12,000		36.00
Integration Items (balancing equipment as needed)	LS	1			50.00
<b>Total</b>					<b>1,700.25</b>

*Dr. VG. Hiremath*  
 (Signature)  
 Dr. VG. Hiremath  
 Team Leader  
 sarvee -BETS JV  
 (Date)

*Dr. VG. Hiremath*  
 (Signature)  
 Dr. VG. Hiremath  
 Team Leader  
 sarvee -BETS JV  
 TAs FOR O&S of Infrastructure Works at Mirsaaal E  
 Bangladesh Economic Zone Authority

*Dr. VG. Hiremath*  
 (Signature)  
 Dr. VG. Hiremath  
 Team Leader  
 sarvee -BETS JV  
 TAs FOR O&S of Infrastructure Works at Mirsaaal E  
 Bangladesh Economic Zone Authority

*Ahisur Rahman*  
 (Signature)  
 Ahisur Rahman  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh




Supply of Electricity In 2A and 2B Areas of Bangabandhu Sheikh Mujib Shilpanagar 33KVA & 11KVA  
Estimates Of Electrical Infrastructure Construction Work-

S No.	Description of work	Description	Unit	Rate (Tk. Lakhs)	Amount	Cost (Tk. Lakhs)
1	33 KVA Electric Cable Supply, Cable Laying, Cable Joining, Supervision, Testing and Commissioning and Technical Services and Support Work.	800 sq mm, XLPE (Cu) cable, three phase;	Km	545.00	20.00	10,900.00
2	11 KVA Electric Cable Supply, Cable Laying, Cable Joining, Supervision, Testing and Commissioning and Technical Services and Support Work.	300 sq mm, XLPE (Cu) cable, three phase;	Km	172.00	13.5	2,322.00
3	Construction Of 33/11 KVA Power Substation with Supply of All Goods; Supervision, Testing and Commissioning And Technical Services/Support Work.	4x20/26 MVA power transformer;	Each	502.00	4.00	2,008.00
4	Civil Work	According to the drawing and design	Each	460.00	2.00	920.00
Total=						16,150.00


Estimates have been made using the rate schedule of DPDC, REB and PWD




Dr. V.G. Hiremath  
Team Leader  
2A/VEE -BETS JV  
TAS FOR/D/S of Infrastructure Works at MFSZ/EE  
Bangladesh Economic Zone Authority

  
স্বাক্ষরিত করেছেন  
স্বাক্ষরিত  
স্বাক্ষরিত (কম্পিউটার ও হস্তাক্ষর)

  
স্বাক্ষরিত করেছেন (কম্পিউটার ও হস্তাক্ষর)  
স্বাক্ষরিত করেছেন (কম্পিউটার ও হস্তাক্ষর)  
স্বাক্ষরিত করেছেন (কম্পিউটার ও হস্তাক্ষর)

  
Anisur Rahman  
Director  
Prime Minister's Office  
Gov. of the People's Republic of Bangladesh

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## Summary Estimate of the Gas Pipeline Network

## 1 Main Physical Work:

Description of the Items	Length/Number
a. 20" dia Casting Pipe	100 meter
b. 16" dia Line pipe	6000 meter
c. HP-DRS (Capacity 50 MMCFD)	02 numbers
d. Internal (6" , 8" , 10" , 12") dia pipeline	26000 meter

## 2 Cost of Different Heads

Serial No.	Description of Items	Total Cost in Lakh Taka
1	Pipe line Material Cost	1181.00
2	Pipe line Construction Cost	464.00
3	Casting Pipe Construction Cost	25.00
4	HP- DRS (Capacity 50MMCFD), with Civil Works(EPC) basis -02 numbers	6869.10
5	Civil Works and Site Development cost	700.00
6	Miscellaneous( Road restoration, Chief Explosive Office, EIA, IEE, RAP, fees of other Agencies)	1587.00
7	Internal (6" , 8" , 10" , 12") dia Pipeline Material and Construction Cost	6055.00
8	Consultancy & Supervision Fee(10% of 2,3 & 5)	118.9
9	Total	17000.00

*Ahmed Rahman*  
Ahmed Rahman

Director's Office  
Prime Minister's Office  
The People's Republic of Bangladesh

চিঃ সেক্রেটারী সা/সিএমও  
জাকাতী সড়ক-৩ (৩৩ সেক্টর)

*Dr. M. M. Hossain*  
Dr. M. M. Hossain  
সিনিয়র প্রকৌশলী  
জাকাতী সড়ক-৩ (৩৩ সেক্টর)

*Arshad*  
Arshad  
সিনিয়র প্রকৌশলী  
জাকাতী সড়ক-৩ (৩৩ সেক্টর)

234

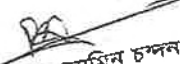



Grand Total for Security and Sport Amenities

Sl No.	Name of Item	Amount in BDT
1	A. Civil Works: Construction of Bounadry wall (Footing, RCC Column, Brick Wall, Grill & Barbed Wire) in BSMSN	1,229,570,397.70
2	B. CCTV & Other amenities set up in Boundary Wall in BSMSN	45,500,000.00
<b>Total</b>		<b>1,275,070,397.70</b>

  
 Md. Anisur Rahman (সি.এ.সি.)  
 সিনিয়র সিসিও  
 গণিতকলা কামিনা, গাজিপুর মহানগর

  
 Md. Anisur Rahman (সি.এ.সি.)  
 গণিতকলা কামিনা ও গাজিপুর

  
 Md. Aminul Choudhury  
 সহকারী প্রকৌশলী (পূর্ব বৌশল)

  
 Anisur Rahman  
 Director  
 Prime Minister's Office  
 Govt. of the Peoples Republic of Bangladesh



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Estimate for Security and Support Amenities

A Civil Works: Construction of Boundary wall (Footing, RCC Column, Brick Wall, Grill & Barbed Wire) in BSMSN

SI No.	BPWD Code	Description of Item	Unit	Quantity	Rate In BDT	Amount in BDT
		Providing and injecting the unslaked lime slurry shall be a filled with bore. Proportion unslaked lime within the range of 1% volume of soil and closed with sand gunny bags or stone slabs including necessary tools, plants, machinery and all related operations as required to complete the work as per drawings and Specifications with all leads, lifts etc. all complete and accepted by the Engineer-in-charge.	Kg	23,370	12	280,440.00
		Lime soil mix filling in foundation trenches and plinth in 150 mm layers. proportion of lime soil mix 1:4 including leveling, by ramming each layer up to finished level as per design supplied by the design office only etc. all complete and accepted by the Engineer.	Cum	82.5	2,797	230,752.50
	2.1.1	Earth work in excavation in all kinds of soil for foundation trenches including layout, providing center lines, local bench-mark pillars, leveling, ramming and preparing the base, fixing bamboo spikes and marking layout with chalk powder, providing necessary tools and plants, protecting and maintaining the trench dry etc., stacking, cleaning the excavated earth at a safe distance out of the area enclosed by the layout etc. all complete and accepted by the Engineer, subject to submit method statement of carrying out excavation work to the Engineer for approval. However, Engineer's approval shall not relieve the contractor of his responsibilities and obligations under the contract Layout and marking for earthwork in excavation in foundation accepted by the Engineer. [Plinth area of the structure shall be considered for measurement]	Sqm	300	15	4,500.00
4	2.1.2	Earthwork in excavation in foundation trenches up to required depth and maximum 10 m lead, in soft clayey soil / loose sand / silt.	Cum	4,134	88	363,774.40
5	2.10.1	Sand filling in foundation trenches and plinth with sand having F.M. 0.5 to 0.8 in 150 mm layers including leveling, watering and compaction to achieve minimum dry density of 90% with optimum moisture content (Modified proctor test) by ramming each layer up to finished level as per design supplied by the design office only etc. all complete and accepted by the Engineer.	Cum	126	635	79,732.19

Prime Minister's Office,  
the People's Republic of Bangla

Director  
Anisur Rahme

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স্বাক্ষরিত  
সহকারী প্রকৌশলী (পূর্ব কৌশল)  
স্বাক্ষরিত  
সহকারী প্রকৌশলী (পূর্ব কৌশল)

মোঃ রুহুল আমিন চন্দন  
সহকারী প্রকৌশলী (পূর্ব কৌশল)

মোঃ গোলাম মোহাম্মদ  
সহকারী প্রকৌশলী (পূর্ব কৌশল)  
স্বাক্ষরিত  
সহকারী প্রকৌশলী (পূর্ব কৌশল)



১০৮ কোম্পানি সোভারিসনাল  
 ডি.এ.এস.এল (পে.সি)  
 পি.ও.এস.ডি.পি.ও.  
 সিসিআর সিস্টেম, সিসিআর সিস্টেম

*Rahman*

Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh  
 Director  
 Anisur Rahman

Sl No.	RPWD Code	Description of Item	Unit	Quantity	Rate in BDT	Amount in BDT
6	2.13.4	Earth filling in foundation trenches and plinth in 150 mm layers with carted earth carried by truck or by any other means including loading and unloading at both ends, leveling, watering and compacting to achieve minimum dry density 95% with optimum moisture content (modified proctor test) including local carriage each layer up to finished level including cost of water and test (carried from beyond 300 m) etc. all complete and accepted by the Engineer-in-charge.	Cum	3076	393	1,208,797.26
7	3.4.1	Mass concrete (1:3:6) in foundation with cement, sand (F.M. 1.2) and picked phama chips including breaking chips, screening, mixing, laying, compacting to levels and curing for at least 7 days including the supply of water, electricity and other charges and costs of tools and plants etc. all complete and accepted by the Engineer. (Cement: CEM-II/A-M) Mass concrete in foundation (1:3:6) with cement, brick chips and sand of F.M.1.2	Cum	160.0306	6,647	1,063,723.56
	3.7	Supplying and laying of single layer polythene sheet weighing one kilogram per 6.5 square meter in floor or any where below cement concrete complete in all respect and accepted by the Engineer.	Sqm	300	42	12,600.00
	7.3	RCC WORKS: 1:1.5:3 (measured on gross concrete section) (f'c = 25MPa, minimum f'cr = 30 MPa in nominal mix 1:1.5:3), with stone chips (100% sand of F.M. 2.2) Reinforced cement concrete works with minimum cement content relates to mix ratio 1:1.5:3 having minimum f'cr = 30 MPa, satisfying a specified compressive strength f'c = 25 MPa at 28 days on standard cylinders as per standard practice of Code ACI/BNBC/ASTM. Cement conforming to BDS EN-197-1-CEM-I, 52.5N (52.5 MPa) / ASTM-C 150 Type - 1, best quality Sylhet sand or coarse sand of equivalent F.M. 2.2 and 20 mm down well graded stone chips conforming to ASTM C-33, making and placing shutter in position and maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position; mixing with standard mixer machine with hopper, fed by standard measuring boxes or mixing in batching plant, casting in forms, compacting by vibrator machine and curing at least for 28 days, removing centering-shuttering after specified time approved; including cost of water, electricity, testing charges of materials and cylinders as required, other charges etc. all complete, approved and accepted by the Engineer-in-charge. (Rate is excluding the cost of reinforcement and its fabrication, placing, binding etc. and the cost of shuttering & centering)				
9	7.3.1	Pedestals, footing, beam, column, column capitals, lift walls and walls up to ground floor	Cum	653	12,154	7,936,683.54
10	7.3.2	Pedestals, beam, column, column capitals, lift walls and walls from ground floor to wall top	Cum	131.475	12,367	1,625,951.33
11	7.9.1	Formwork/shuttering, prop and necessary supports etc. (steel) up to ground floor	Sqm	6,857	438	3,003,541.20

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১০৮ কোম্পানি সোভারিসনাল  
 ডি.এ.এস.এল (পে.সি)  
 পি.ও.এস.ডি.পি.ও.  
 সিসিআর সিস্টেম (এস.আর.এল ও হাউসিং)



*Anisur Rahman*  
 মোঃ রুহুল আমিন চন্দন  
 সহকারী প্রকৌশলী (পূর্ব কোশা)



Govt. of the Peoples Republic of Bangladesh

Prime Minister's Office

Director

Misur Rahman

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RANWB

১৯৯৩ সালের ১১ নভেম্বর  
১৯৯৩ সালের ১১ নভেম্বর  
১৯৯৩ সালের ১১ নভেম্বর  
১৯৯৩ সালের ১১ নভেম্বর

১৯৯৩ সালের ১১ নভেম্বর  
১৯৯৩ সালের ১১ নভেম্বর  
১৯৯৩ সালের ১১ নভেম্বর  
১৯৯৩ সালের ১১ নভেম্বর

Sl No.	BPWD Code	Description of Item	Unit	Quantity	Rate in BDT	Amount in BDT
12	7.2.7	Formwork/shuttering, prop and necessary supports etc. (steel) from ground floor to wall top	Sqm	1,753	532	932,596.00
13	8.1.2	Supplying, fabrication and fixing to details as per design deformed bar reinforcement in concrete in accordance with BDS 1313 : 1991 standard including lapping, straightening and cleaning rust, if any, bending and binding in position including supply of G.I. wires etc. complete in all respects and accepted by the Engineer. Grade 400 (RB 400 / 400W, complying BDS ISO 6935:2:2006) ribbed or deformed bar produced and marked according to Bangladesh Standard, with minimum yield strength fy (ReH) = 400 Mpa but fy not exceeding 418 MPa and whatever is the yield strength within allowable limit as per BNBC sec 8.3.3.5 / ACI 318-11 sec 21.1.3.2, the ratio ultimate tensile strength fu to yield strength fy, shall be at least 1.25 and minimum elongation after fracture and minimum total elongation at maximum force is 16% and 8% respectively : up to ground floor.	Kg	76,442	82	6,268,232.59
14	4.10	125 mm brick works with first class bricks in cement sand (F.M. 1:2) mortar (1:4) and making bond with connected walls including necessary scaffolding, raking out joints, cleaning and soaking the bricks for at least 24 hours before use and washing of sand curing at least for 7 days in all floors including cost of water, electricity and other charges etc. all complete and accepted by the Engineer (Cement, CEM-II/A-M)	Sqm	2,750	948	2,607,000.00
15	15.4	Minimum 12 mm thick cement sand (F.M. 1:2) plaster (1:4) with fresh cement to wall both inner and outer surface, finishing the corner and edges including raking out joints, cleaning the surface, scaffolding and curing at least for 7 days, cost of water, electricity and other charges etc. all complete in all respects as per drawing and accepted by the Engineer	Sqm	5,625	228	1,282,500.00
16	15.1.1	Exterior standard acrylic emulsion paint of approved best quality and color having water resisting properties and resistance properties against fungi, fading & flaking delivered from authorized local agent of the manufacturer (Berger weather coat smooth/ Elite smooth exterior/ Asian apex weather coat or equivalent brand) in a sealed container; applying to exterior surface with surface preparation including cleaning, drying, making free from dirt, grease, wax, removing all chalked and scaled materials, fungus, mending good the surface defects using sand paper and necessary scaffolding; applying 1 coat of exterior sealer of specified brand on prepared surface; then applying 1 coat of exterior putty of specified brand for levelling, spot filling, crack filling and cutting by sand paper/zero water paper; finally applying 2 coats of exterior emulsion paint spreading by brush/roller/spray & necessary scaffolding etc. upto desired finishing, elapsing specified time for drying or recoating, all complete in all floors and accepted by the Engineer-in-charge.	Sqm	5,625	236	1,338,750.00

মোঃ মাহমুদ আমিন চন্দন  
সহকারী প্রকৌশলী (পূঃ কৌশল)

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Sl No.	BPWD Code	Description of Item	Unit	Quantity	Rate in BDT	Amount in BDT
17	21.7	Supplying, fitting and fixing 12 B/WG barbed wire (2 ply, 4 points) in fencing work @ 150 mm c/c in both horizontally and vertically, supported by 38 x 38 x 6 mm M.S. angle post (300 mm embedded in R.C.C or in brick work with a cement concrete base of 75 x 75 x 300 mm) 600 mm vertical and 450 mm inclined or as per requirement @ 2.5 m c/c including straightening, binding the joints with 18 B/WG wire making holes in the angle etc. including supplying of all necessary materials complete in all respect and accepted by the Engineer. (Rate is excluding the cost of R.C.C or brick work or C.C which is to be paid as per corresponding items in the schedule)	Sqm	1,000	887	887,000.00
18	852	Supplying, fitting and fixing ribbed PVC water stopper with centre bulb of width approx. 250 mm and approx 9 mm thick for immovable (non working) RCC joints, having minimum tensile strength 8.27 MPa (approx. 1200 psi) minimum ultimate elongation 350%, approximate hardness 50, minimum tear resistance 0.0175 kN/mm (100 lbs/inch) at RCC construction green joints in basements, approved and in consultation with design office, providing 38 mm x 62 mm wooden batten at the top and bottom of water stopper, holding in position and keeping the water stopper in true horizontal or vertical by appropriate means as where necessary etc; all complete and accepted by the Engineer-in-charge.	Rm	1,700	1,017	1,728,391.50
<b>Total:</b>						<b>30,854,966.07</b>
Estimate of Boundary Wall for -1 KM						<b>30,854,966.07</b>
Estimate of Boundary Wall for -39.85 KM						<b>1,229,570,397.70</b>

## B. CCTV &amp; Other amenities set up in Boundary Wall in BSMSN

Sl No.	Item Code	Description of Item	Unit	Quantity	Rate in BDT	Amount in BDT
1	M#	CCTV & Other amenities set up in Boundary Wall ( about 40 km) in BSMSN	Ls	1	45,500,000	45,500,000.00
<b>Total</b>						<b>45,500,000.00</b>

**Anisur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

দায়ানন্দ দেবনাথ  
 যুগ্মসচিব  
 ব্যবস্থাপক (এস আই এস ও গবেষণা)



মোঃ মুনতাস জামিন হান্নান  
 সহকারী প্রকৌশলী (পূর্ব পৌশল)

মোঃ গোলাম মোহাম্মদ ক  
 উপ-প্রধান (সি: দাঃ)  
 শিল্প ও শক্তি বিভাগ  
 পরিচালনা কমিশন, পরিকল্পনা মন্ত্রণালয়

**Summary of Public Private Partnership (PPP) Components**

*(Cost in Lac Taka)*

Sl. No.	Name of PPP Components	Total	Government Contribution	Private Partner Contribution
1.	Central Effluent Treatment Plant (CETP)	510,00.00	204,00.00	306,00.00
2.	Desalination Plant	956,25.00	382,50.00	573,75.00
3.	Steam Network	170,00.00	68,00.00	102,00.00
4.	Solid Waste Management	318,75.00	127,50.00	191,25.00
5.	Biogas Plant and Waste Sorting	170,00.00	68,00.00	102,00.00
6.	Rooftop and Floating Solar	1487,50.00	595,00.00	892,50.00
<b>Total Cost Estimate of PPP Components</b>		<b>3612,50.00</b>	<b>1445,00.00</b>	<b>2167,50.00</b>

**Md. Nazrul Islam**  
PMMS, STCB

*DM*  
নাসরুল ইসলাম (সি.এম.এ.)  
প্রোগ্রামার  
সি.এম.এ. (সি.এম.এ. ও বিসিআই)  
সি.এম.এ. (সি.এম.এ. ও বিসিআই)

*Ah isur Rahman*  
**Ah isur Rahman**  
Director  
Prime Minister's Office  
Govt. of the People's Republic of Bangladesh

*MD. NAZRUL ISLAM*  
সি.এম.এ. (সি.এম.এ. ও বিসিআই)  
সি.এম.এ. (সি.এম.এ. ও বিসিআই)  
সি.এম.এ. (সি.এম.এ. ও বিসিআই)



**Estimated Cost of CETP**

5. No.	Particulars	Construction Cost (in BDT Lakhs)
<b>PART I - CETP Costs</b>		
<b>CETP Technology: Sequencing Batch Reactor (SBR)</b>		
A)	Electrical & Mechanical Cost	2,143.04
B)	Civil Cost (including Effluent Pumping Station and Sludge Treatment & Disposal)	9,295.07
C)	SCADA and online monitoring system	38.11
D)	Effluent Channel	63.52
E)	Environment Plan Cost	12.70
F)	Staff Quarters	12.70
G)	Public Awareness	5.08
<b>Total (Part I) (in BDT lakhs)</b>		<b>14,570.23</b>
<b>PART II - Effluent cum Sewerage Network Costs</b>		
A)	Effluent Network in Mirsaral 2A	4,850.16
B)	SCADA System	10.00
C)	Cost of Effluent Meters at each industry (to be borne by Industry)	
D)	Public Awareness	1.00
E)	Environmental Cost	1.00
<b>Total (Part II) (in BDT lakhs)</b>		<b>4,862.16</b>
<b>PART III - Reuse Water Supply Pipeline Costs</b>		
A)	Transmission Pressure pipe type (in BDT lakhs)	2,080.35
<b>Total (Part III) (in BDT lakhs)</b>		<b>2,080.35</b>
<b>Total Construction Cost (in BDT lakhs) (Part I + II + 3)</b>		<b>18,512.75</b>
<b>PART IV - Expected Augmentation of CETP capacity</b>		
A)	Electromechanical equipment added in Year 3	800.25
B)	Electromechanical equipment added in Year up to 5	1,082.00
<b>Total (Part IV) (in BDT lakhs)</b>		<b>1,882.25</b>
<b>Total Construction Cost (in BDT lakhs) (Part I + II + III + IV)</b>		<b>20,400.00</b>

Government Contribution = 204,00,00,00 Lac  
 Private Partner's Contribution = 306,00,00,00 Lac  
 Total = 510,00,00,00 Lac

Md. Nazrul Islam  
 PMMS ST/2



**Ahissur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

*Dr. A. K. M. Nazim*  
 ডাঃ এ. কে. এম. নাজিম  
 অতিরিক্ত সচিব (সে. পাব. ও. মাসফ.)  
 সরকার (সে. পাব. ও. মাসফ.)

*Dr. Md. Nazim*  
 ডাঃ মোঃ নাজিম  
 সিনিয়র সিস্টেম এনালিস্ট  
 সিস্টেম এনালিস্ট, মাসফ. (সে. পাব. ও. মাসফ.)

## 1 Sample Design of CETP and Effluent Network

### A. Layout Design of the Effluent Network in the BSMSN - 2A Economic Zone

A sample layout of the proposed effluent network in BSMSN - 2A is provided in the figure below. The layout will be further updated during the preparation of the tender documents.

Figure 23: Sample Layout Design of Effluent Network in BSMSN - 2A



Ministry of Water Resources and Power and BETS Consulting Services Ltd

**Md. Nazrul Islam**  
 Director

Minister's Office

Prime Minister's Office  
 Dhaka, the People's Republic of Bangladesh

স্বাক্ষরিত (স্বাক্ষরিত) (স্বাক্ষরিত)  
 স্বাক্ষরিত (স্বাক্ষরিত) (স্বাক্ষরিত)  
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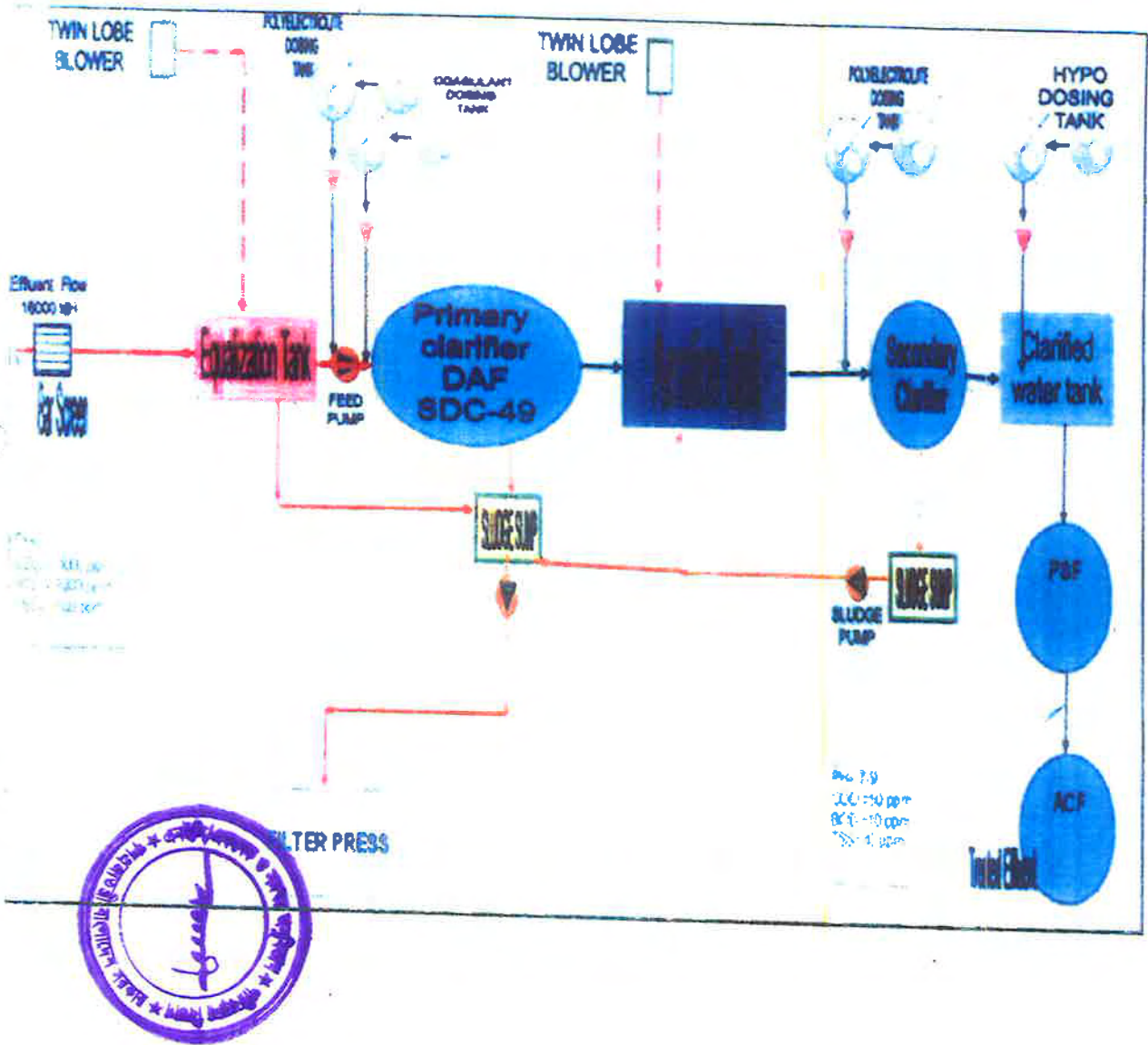
**Md. Nazrul Islam**  
 Director  
 Ministry of Water Resources and Power  
 Dhaka, the People's Republic of Bangladesh

Transaction Advisory Services for the Centralized Effluent Treatment Plant (CETP) at Bangabandhu Sheikh Mujib Shilpa Nagar (BSMSN)

**2. Sample Layout of the CETP**

A sample layout of the proposed CETP in BSMSN 2A is provided in the figure below. The layout will be further updated during the preparation of the tender documents.

Figure 24: Sample Layout of the CETP<sup>21</sup>



*Diya*  
 স্বাক্ষরিত প্রকল্প  
 প্রকল্প  
 (প্রকল্পের জন্য ও প্রকল্পের)

Md. Nazimul Islam  
 PMMS, STCB

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*Arifur Rahman*  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh





Anisur Rahman  
 Director  
 Prime Minister's Office  
 Government of the People's Republic of Bangladesh

Desatination Plan:

Year	0	1	2	3	4	5	6	7	8	9
Capacity	20,000 m <sup>3</sup> /day	10000	20000	20000	20000	20000	20000	20000	20000	20000
Loss of efficiency		1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
Net Capacity		10,000.00	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00
Inflation rate		1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
Water tariff (TSS/m <sup>3</sup> )		1.11	1.11	1.12211	1.1332311	1.144664411	1.156111055	1.167672166	1.179348867	1.191142376
Total Revenues		4,015,000.00	8,110,300.00	8,191,405.00	8,275,317.03	8,356,050.20	8,439,610.70	8,524,006.81	8,609,246.88	8,695,339.35
O&M		(2,993,000.00)	(6,045,560.00)	(6,106,318.60)	(6,167,381.79)	(6,229,055.60)	(6,291,346.16)	(6,354,259.62)	(6,417,802.23)	(6,481,980.24)
EBITDA		1,022,000.00	2,064,740.00	2,085,086.40	2,105,935.24	2,126,994.60	2,148,264.54	2,169,747.19	2,191,444.66	2,213,359.11
Investment(USD)	(45,000,000.00)									
Cash flow(USD)	(45,000,000.00)	1,022,000.00	2,064,740.00	2,085,086.40	2,105,935.24	2,126,994.60	2,148,264.54	2,169,747.19	2,191,444.66	2,213,359.11

Note: USD 1 = BDT 85

Total Cost In Lac	38,250.00(BDT)
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দায়ানন্দ দেবনাথ  
 মুগসচিব  
 ব্যবস্থাপক (এম আই এল ও গবেষণা)

Government Contribution = 382,50,00 Lac  
 Private Partner's Contribution = 373,75,00 Lac  
 Total = 956,25,00 Lac

Md. Rashedul Alam  
 Managing Director (E&C)

Md. Rashedul Alam  
 Managing Director (E&C)



Desalination Plant

10	11	12	13	14	15	16	17	18	19	20
20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000
1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
20,000.00	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00
1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
1,20,505.33	1,21,508.43	1,22,733.51	1,23,950.75	1,25,190.26	1,26,442.16	1,27,706.58	1,28,983.50	1,30,273.48	1,31,576.22	1,32,891.98
8,782,392.74	8,870,118.67	8,958,818.82	9,048,404.27	9,138,889.04	9,230,277.93	9,322,581.71	9,415,806.52	9,509,964.58	9,605,064.23	9,701,114.87
(6,546,800.04)	(6,612,268.04)	(6,678,399.72)	(6,745,174.63)	(6,812,626.38)	(6,880,752.44)	(6,949,560.17)	(7,019,055.77)	(7,089,246.33)	(7,160,138.79)	(7,231,740.18)
2,235,492.70	2,257,847.62	2,280,426.10	2,303,230.36	2,326,262.67	2,349,525.29	2,373,020.54	2,396,750.75	2,420,718.26	2,444,925.44	2,469,374.69
										(45,000,000.00)
2,235,492.70	2,257,847.62	2,280,426.10	2,303,230.36	2,326,262.67	2,349,525.29	2,373,020.54	2,396,750.75	2,420,718.26	2,444,925.44	2,469,374.69
										(175,812,757.91)
										43984844.17

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*Diyar*  
 দয়ানন্দ দেবনাথ  
 মুখ্যমন্ত্রীর  
 ব্যবস্থাপক (এম অফিস ও পবেষণা)

*[Signature]*  
 মোঃ কবুল আহমদ চন্দন  
 সহকারী প্রকৌশলী (পুর কৌশল)

*[Signature]*  
 মোঃ গোলাম মোহাম্মদের  
 উপ-প্রধান (সি: দা:)  
 শিল্প ও সক্তি বিভাগ  
 পরিকল্পনা কমিশন, পরিকল্পনা মহাপর্ষদ



*Anisur Rahman*  
 Anisur Rahman  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh



Prime Minister's Office  
Govt. of the Peoples Republic of Bangladesh

*Ahmedur Rahman*  
Director

**Steam Network**

Year	0	1	2	3	4	5	6	7	8	9	10
Low pressure steam		33,000.00	33,000.00	33,000.00	33,000.00	33,000.00	33,000.00	33,000.00	33,000.00	33,000.00	33,000.00
Inflation rate		1%	1%	1%	1%	1%	1%	1%	1%	1%	1%
steam fee / T. SS-ton		30.00	30.30	30.60	30.91	31.22	31.53	31.85	32.16	32.49	32.81
Total Revenues steam (60%)		594,000.00	599,940.00	605,939.40	611,998.79	618,118.78	624,299.97	630,542.97	636,848.40	643,216.88	649,649.05
Operative		-	-	-	-	-	-	-	-	-	-
O&M		(59,400.00)	(59,994.00)	(60,593.94)	(61,199.88)	(61,811.88)	(62,430.00)	(63,054.30)	(63,684.84)	(64,321.69)	(64,964.91)
Total A Steam distribution		534,600.00	539,946.00	545,345.46	550,798.91	556,306.90	561,869.97	567,488.67	573,163.56	578,895.19	584,684.15
Investment		(8,000,000)									
Cash flow S		(8,000,000)	534,600.00	539,946.00	545,345.46	550,798.91	556,306.90	561,869.97	567,488.67	573,163.56	578,895.19
IRR steam		4%									

Note: USD 1 = BDT 85

Total cost	6,800.00 BDT
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*Abir*  
দায়ানন্দ দেবনাথ  
মুদ্রাস্বত্ব  
স্বয়ংস্বাক্ষর (এম আই এস ও গবেষণা)

Government Contribution = 63,00,00,00 Lac  
Private Partner's Contribution = 102,00,00,00 Lac  
Total = 170,00,00,00 Lac

*[Signature]*  
মোঃ হাফিজ আহম্মদ চক্কর  
কর্তৃপক্ষ (প্রকল্প পরিচালক, পুষ্টি সেক্টর)

*[Signature]*  
মোঃ গোলাম মোহাম্মদের  
উপ-প্রোগ্রামার (চি: দাঃ)  
শিবা ও শাক বিভাগ  
পরিচালনা বোর্ড, গাজিয়াবা মন্ত্রণালয়

Steam Network

11	12	13	14	15	16	17	18	19	20
33,000.00	33,000.00	33,000.00	33,000.00	33,000.00	33,000.00	33,000.00	33,000.00	33,000.00	33,000.00
1%	1%	1%	1%	1%	1%	1%	1%	1%	1%
333.00	334.70	338.00	341.40	344.80	348.30	351.80	355.30	358.80	362.24
656,145.54	662,707.00	669,334.07	676,027.41	682,787.68	689,615.56	696,511.72	703,476.83	710,511.60	717,616.72
(65,614.55)	(66,270.70)	(66,933.41)	(67,602.74)	(68,278.77)	(68,961.56)	(69,651.17)	(70,347.68)	(71,051.16)	(71,761.67)
590,530.99	596,436.30	602,400.66	608,424.67	614,508.91	620,654.00	626,860.54	633,129.15	639,460.44	645,855.04
590,530.99	596,436.30	602,400.66	608,424.67	614,508.91	620,654.00	626,860.54	633,129.15	639,460.44	645,855.04

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*Arifur*  
 দায়মানদ সেবাব  
 সিনিয়র  
 সিস্টেম এনালিস্ট ও মনোবা

*[Signature]*  
 মোঃ আব্দুল হামিদ চন্দন  
 সিনিয়র সিস্টেম এনালিস্ট

*[Signature]*  
 মোঃ গোলাম মোহাম্মদ  
 উপ-প্রধান (ই: দা:) শিল্প ও শক্তি বিভাগ  
 পল্লিকরনা কমিশন, পল্লিকরনা মন্ত্রণালয়

*Arifur Rahman*  
 Director  
 Prime Minister's Office  
 Govt. of the Peoples Republic of Bangladesh





Anisur Rahman  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

### Solid Waste Management

Year	1	2	3	4	5	6	7	8	9
Waste to landfill	30,000.00	30,000.00	30,000.00	30,000.00	30,000.00	30,000.00	30,000.00	30,000.00	30,000.00
Inflation rate	1%	1%	1%	1%	1%	1%	1%	1%	1%
Landfill service fee (USD/ton)	35.00	35.35	35.70	36.06	36.42	36.79	37.15	37.52	37.90
Total Revenues from material recovery	1,050,000.00	1,060,500.00	1,071,105.00	1,081,816.05	1,092,634.21	1,103,560.55	1,114,596.16	1,125,742.12	1,136,999.54
Operators	(24,000.00)	(24,240.00)	(24,482.40)	(24,727.22)	(24,974.50)	(25,224.24)	(25,476.48)	(25,731.25)	(25,988.56)
O&M (including logistics)	(210,000.00)	(212,100.00)	(214,221.00)	(216,363.21)	(218,526.84)	(220,712.11)	(222,919.23)	(225,148.42)	(227,399.91)
EBITDA Landfill	\$16,000.00	\$24,160.00	\$32,401.60	\$40,725.62	\$49,132.87	\$57,624.20	\$66,200.44	\$74,862.45	\$83,611.07
Investment (USD)	(15,000,000)								
Cash flow landfill (USD)	(15,000,000)	\$16,000.00	\$24,160.00	\$32,401.60	\$40,725.62	\$49,132.87	\$57,624.20	\$66,200.44	\$74,862.45
IRR landfill	2%								

Note: USD 1 = BDT 85

Total Cost in Lac BDT= 12,750.00

দায়ানন্দ দেবনাথ  
 মুগ্ধসচিব  
 ব্যবস্থাপক (এম আই এস ও গবেষণা)

Government Contribution = 127,50,00 Lac  
 Private Partner's Contribution = 191,25,00 Lac  
 Total = 318,75,00 Lac

মোঃ জহুর আহম্মেদ চন্দন  
 প্রকল্প পরিচালক (পূর্ব কোম্পানি)

মোঃ গোলাম মোহাম্মদ  
 উপ-পরিচালক (সি. দাঃ)  
 শিল্প ও শক্তি বিভাগ  
 পরিচালনা কমিশন, গ্যাস/কয়লা মন্ত্রণালয়

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Solid Waste Management

10	11	12	13	14	15	16	17	18	19	20
30,000.00	30,000.00	30,000.00	30,000.00	30,000.00	30,000.00	30,000.00	30,000.00	30,000.00	30,000.00	30,000.00
1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%
300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00
1,178,166.54	1,184,385.25	1,171,451.76	1,183,166.28	1,194,997.94	1,206,947.92	1,219,017.40	1,231,207.58	1,243,519.65	1,255,954.85	1,268,514.40
(26,248.45)	(26,517.93)	(26,776.04)	(27,043.80)	(27,314.24)	(27,587.38)	(27,863.25)	(28,141.89)	(28,423.31)	(28,707.54)	(28,994.61)
(229,673.91)	(231,970.45)	(234,290.35)	(236,633.26)	(238,999.59)	(241,389.58)	(243,803.48)	(246,241.52)	(248,703.93)	(251,190.97)	(253,702.88)
932,447.18	901,371.65	910,385.37	919,489.22	928,584.12	937,970.96	947,350.67	956,824.17	966,392.42	976,056.34	985,816.90
892,447.18	901,371.65	910,385.37	919,489.22	928,584.12	937,970.96	947,350.67	956,824.17	966,392.42	976,056.34	985,816.90

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*Darya*  
 দায়াদ্দ মেবনাথ  
 সিস্টেমিক  
 কন্ট্রোলার (এস ও আই এস ও সিস্টেম)

*[Signature]*  
 মোঃ আব্দুল মান্নান চন্দন  
 সিস্টেম এনালিস্ট (সিস্টেম এনালিস্ট)

*[Signature]*  
 মোঃ গোলাম মোহাম্মদ  
 উপ-প্রোগ্রামার (সিস্টেম এনালিস্ট)  
 সিস্টেম এনালিস্ট বিভাগ  
 পরিচালনা কমিশন, পরিবহন অধিদপ্তর

*[Signature]*  
 Anisur Rahman  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh





**Biogas Plant and Waste Sorting**

Waste Sorting	0	1	2	3	4	5	6	7	8	9
Year		30000	30000	30000	30000	30000	30000	30000	30000	30000
Processed Waste		21,000.00	21,000.00	21,000.00	21,000.00	21,000.00	21,000.00	21,000.00	21,000.00	21,000.00
Received material average (70%)		1%	1%	1%	1%	1%	1%	1%	1%	1%
Inflation rate		25.00	25.25	25.50	25.76	26.02	26.28	26.54	26.80	27.07
Received material average price (US\$/ton)		525,000.00	530,250.00	535,552.50	540,908.03	546,317.11	551,780.28	557,298.08	562,871.06	568,499.77
Total Revenues from Recover		(60,000.00)	(60,600.00)	(61,206.00)	(61,818.06)	(62,436.24)	(63,060.60)	(63,691.21)	(64,328.12)	(64,971.40)
Operators		(105,000.00)	(106,050.00)	(107,110.50)	(108,181.61)	(109,263.42)	(110,356.06)	(111,459.62)	(112,574.21)	(113,699.95)
O&M		(27,000.00)	(27,270.00)	(27,542.70)	(27,818.13)	(28,096.31)	(28,377.27)	(28,661.04)	(28,947.65)	(29,237.15)
Waste to landfill		333,000.00	336,330.00	339,693.30	343,090.23	346,521.14	349,986.35	353,486.21	357,021.07	360,591.28
EBITDA Recover	(4,021,200)									
Investment		333,000.00	336,330.00	339,693.30	343,090.23	346,521.14	349,986.35	353,486.21	357,021.07	360,591.28
Cash flow recovery	(4,021,200)									
IRR recovery	6%									

Note: USD 1 = BDT 85

Year	0	1	2	3	4	5	6	7	8	9
Gas Produced		5,266,648.41	5,266,648.41	5,266,648.41	5,266,648.41	5,266,648.41	5,266,648.41	5,266,648.41	5,266,648.41	5,266,648.41
Inflation rate		1%	1%	1%	1%	1%	1%	1%	1%	1%
Gas Tariff Power (US\$/Mwh)		0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12
Total Revenues from power		568,323.16	594,206.40	600,148.46	606,149.94	612,211.44	618,333.56	624,516.89	630,762.96	637,069.68
Operators		(12,000.00)	(12,120.00)	(12,241.20)	(12,363.61)	(12,487.29)	(12,612.13)	(12,738.24)	(12,865.62)	(12,994.28)
O&M		(147,080.79)	(148,551.60)	(150,037.11)	(151,537.49)	(153,052.86)	(154,583.39)	(156,129.22)	(157,690.52)	(159,267.42)
Rental		(24,000.00)	(24,240.00)	(24,482.40)	(24,727.22)	(24,974.50)	(25,224.24)	(25,476.48)	(25,731.25)	(25,988.55)
EBITDA Power		405,242.37	409,294.80	413,287.74	417,221.62	421,096.84	424,913.81	428,672.94	432,374.67	436,019.42
Investment	(4,021,300)									
Cash flow Power	(4,021,200)	405,242.37	409,294.80	413,287.74	417,221.62	421,096.84	424,913.81	428,672.94	432,374.67	436,019.42
IRR Power	9%									

Note: USD 1 = BDT 85

Waste Sorting	3,400.00	BDT
Biogas Plant	3,400.00	BDT
Total Cost in Lac =	6,800.00	BDT

Government Contribution = 68,00,00,00 Lac  
 Private Partner's Contribution = 102,00,00,00 Lac  
 Total = 170,00,00,00 Lac

*(Signature)*  
 মোঃ রুহুল আমিন চন্দন  
 সহকারী প্রকৌশলী (পূ. কৌশল)

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*(Signature)*  
**Anisur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

*(Signature)*  
 মোঃ গোলাম মোহাম্মদ  
 উপ-সচিব (স: দা:)  
 বিজ্ঞান ও শিল্প বিভাগ  
 পরিকল্পনা ইকোনমিক্স, পরিবেশ ও মন্ত্রণালয়

*(Signature)*  
 দাঃ সাদিক হোসেন  
 উপসচিব  
 বন বিভাগ (এম আই এস ও গবেষণা)

Biogas Plant and Waste Sorting

10	11	12	13	14	15	16	17	18	19	20
21,000.00	21,000.00	21,000.00	21,000.00	21,000.00	21,000.00	21,000.00	21,000.00	21,000.00	21,000.00	21,000.00
1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%
27.62	27.62	27.89	28.17	28.45	28.74	29.02	29.31	29.61	29.90	30.20
574,184.77	479,976.62	365,725.88	591,583.14	557,498.97	603,473.96	609,598.70	615,603.79	621,759.83	627,977.42	634,257.20
663,621.12	(66,277.33)	166,940.10	(67,609.33)	169,285.60	(68,968.45)	(69,658.14)	(70,354.73)	(71,058.27)	(71,768.85)	(72,486.34)
111,536.95	(113,888.32)	(117,145.18)	(118,316.63)	(119,499.79)	(120,694.79)	(121,901.74)	(123,120.76)	(124,351.97)	(125,595.48)	(126,851.44)
129,429.00	(29,824.80)	(30,123.65)	(30,424.28)	(30,728.52)	(31,035.80)	(31,346.16)	(31,659.62)	(31,976.22)	(32,295.98)	(32,618.94)
304,097.29	377,839.17	371,517.56	375,232.74	378,985.06	382,774.91	386,602.66	390,468.69	394,373.38	398,317.11	402,300.28
364,197.20	367,839.17	371,517.56	375,232.74	378,985.06	382,774.91	386,602.66	390,468.69	394,373.38	398,317.11	402,300.28

10	11	12	13	14	15	16	17	18	19	20
5,266,648.41	5,266,648.41	5,266,648.41	5,266,648.41	5,266,648.41	5,266,648.41	5,266,648.41	5,266,648.41	5,266,648.41	5,266,648.41	5,266,648.41
1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%
0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
643,440.38	649,874.78	656,270.53	662,937.27	669,566.64	676,262.31	683,024.92	689,845.18	696,753.73	703,721.27	710,758.48
(13,124.32)	(13,755.47)	(14,388.32)	(15,021.90)	(15,657.12)	(16,293.69)	(16,931.63)	(17,570.94)	(18,211.65)	(18,853.77)	(19,497.31)
(160,860.09)	(161,468.70)	(164,093.38)	(166,714.32)	(169,351.66)	(172,005.58)	(174,756.22)	(177,463.79)	(180,188.43)	(182,920.32)	(185,689.62)
(26,248.45)	(26,510.95)	(26,776.04)	(27,043.80)	(27,314.24)	(27,587.38)	(27,863.25)	(28,141.89)	(28,423.31)	(28,707.56)	(28,994.61)
443,207.61	447,639.69	452,116.09	456,637.25	461,203.62	465,815.66	470,473.81	475,178.55	479,930.34	484,729.64	489,576.94
443,207.61	447,639.69	452,116.09	456,637.25	461,203.62	465,815.66	470,473.81	475,178.55	479,930.34	484,729.64	489,576.94

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Anisur Rahman  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

দায়িত্ব দেবনাথ  
 মুগাকচিব  
 কলকাতা (কেন্দ্রীয় গ্রাম ও গবেষণা)



মোঃ রুহুল আমিন চান্দ  
 মহাপরিচালক (পূর্ব সীংগ)

মোঃ মোস্তাফিজ মোস্তাফিজ  
 উপ-মহাপরিচালক (সে. ডাঃ)  
 বিজ্ঞান ও প্রযুক্তি বিভাগ  
 পরিচালনা কমিশন, পরিচালনা মন্ত্রণালয়



### Rooftop and Floating Solar

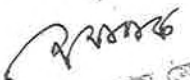
1. Floating Solar		1	2	3	4	5	6	7	8	9	10
FSS Adjustment factor		1	2	3	4	5	6	7	8	9	10
Year	0	1	2	3	4	5	6	7	8	9	10
MW	10	10	10	10	10	10	10	10	10	10	10
Loss of efficiency		0.80%	0.80%	0.80%	0.80%	0.80%	0.80%	0.80%	0.80%	0.80%	0.80%
Gross MW		9.538461538	9.462153846	9.386456615	9.311364962	9.236874043	9.16297905	9.089675218	9.016957816	8.944822154	
MW to ENS		0	0	0	0	0	0	0	0	0	
Net MW		9.538461538	9.462153846	9.386456615	9.311364962	9.236874043	9.16297905	9.089675218	9.016957816	8.944822154	
Inflation rate		1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	
US\$/MWh		100	101	102.01	103.0301	104.060401	105.101005	106.1520151	107.2135352	108.2856706	
Total Revenues		1,788,461.54	1,791,895.58	1,795,335.82	1,798,782.87	1,802,236.53	1,805,696.83	1,809,163.76	1,812,637.36	1,816,117.92	
O&M		(194,230.77)	(196,173.08)	(198,134.81)	(200,116.16)	(202,117.32)	(204,138.49)	(206,179.88)	(208,241.67)	(210,324.09)	
Rental		1,594,230.77	1,595,722.31	1,597,201.02	1,598,666.71	1,600,119.21	1,601,558.34	1,602,983.89	1,604,395.68	1,605,793.53	
EBITDA											
Investment		(10,001,692.00)									
Cash flow		(10,001,692.00)	1,594,230.77	1,595,722.31	1,597,201.02	1,598,666.71	1,600,119.21	1,601,558.34	1,602,983.89	1,604,395.68	1,605,793.53
IRR		14%									
Total Investment Cost= 10.00 Million Dollar X BDT 85		BDT 850.00 Lac									
2 Rooftop Solar		0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	
Loss of efficiency											
Gross MW		59.13846154	58.66535385	58.19603102	57.7304628	57.2686191	56.81047011	56.35598635	55.90513846	55.45789735	
MW to ENS		0	0	0	0	0	0	0	0	0	
Net MW		59.13846154	58.66535385	58.19603102	57.7304628	57.2686191	56.81047011	56.35598635	55.90513846	55.45789735	
Inflation rate		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
US\$/MWh		100	101	102.01	103.0301	104.060401	105.101005	106.1520151	107.2135352	108.2856706	
Total Revenues		11088461.54	11109751.38	11131082.11	11152453.8	11173866.5	11195320.32	11216815.33	11238351.62	11259929.26	
O&M		-602115.3846	-608136.538	-614217.9038	-620360.083	-626563.68	-632829.3206	-639157.614	-645549.1899	-652004.6818	
Rental		-2232000	-2254320	-2276863.2	-2299631.83	-2322628.2	-2345854.432	-2369312.98	-2393006.106	-2416936.167	
EBITDA		8254346.154	8247294.846	8240001.003	8232461.87	8224674.66	8216636.567	8208344.745	8199796.325	8190988.407	
Investment		(60,018,674)									
Cash flow		(60,018,674)	8247294.846	8240001.003	8232461.87	8224674.66	8216636.567	8208344.745	8199796.325	8190988.407	
IRR		12%									
2 Total Investment Cost= USD 60.00 Million X BDT 85		BDT 51,000.00 Lac									


Total Cost in Lac (Rooftop and Floating Solar) =	59,500.00	BDT
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সফটওয়্যার: (সি.এস.এস. ও.এস.এস.)  
 সফটওয়্যার: (সি.এস.এস. ও.এস.এস.)  
 সফটওয়্যার: (সি.এস.এস. ও.এস.এস.)

Government Contri. Mtg = 505,00,00 Lac  
 Private Partner's Contribution = 892,50,00 Lac  
 Total = 1487,50,00 Lac

  
**Anisur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

  
 মোঃ কামরুল আমিন  
 উপ-সচিব (সি.সি.)  
 শিল্প ও পাতি বিভাগ  
 পরিকল্পনা কমিশন, পরিকল্পনা মন্ত্রণালয়

  
 মোঃ কামরুল আমিন চন্দন  
 নব্বকরী সরকারী (পুর বেঙ্গাল)



Rooftop and Floating Solar

1	11	12	13	14	15	16	17	18	19	20
0.80%	0.80%	0.80%	0.80%	0.80%	0.80%	0.80%	0.80%	0.80%	0.80%	0.80%
8.873263577	8.802277466	8.731859248	8.662004374	8.592708339	8.523966672	8.455774939	8.38812874	8.32102371	8.25445552	8.188419876
0	0	0	0	0	0	0	0	0	0	0
1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
110.3685273	110.4622125	111.5668347	112.682503	113.809328	114.9474213	116.0968955	117.2578645	118.4304431	119.6147476	120.810895
1.819.604.57	1.825.098.21	1.826.598.56	1.830.105.63	1.835.619.43	1.837.139.98	1.840.667.29	1.844.201.37	1.847.742.23	1.851.289.90	1.854.844.38
(212.427.33)	(214.551.61)	(216.697.12)	(218.864.09)	(221.052.73)	(223.263.26)	(225.495.89)	(227.750.85)	(230.028.36)	(232.328.64)	(234.651.93)
1.607.177.24	1.608.546.60	1.609.901.44	1.611.241.53	1.612.566.70	1.613.876.72	1.615.171.39	1.616.450.52	1.617.713.87	1.618.961.26	1.620.192.45
1.607.177.24	1.608.546.60	1.609.901.44	1.611.241.53	1.612.566.70	1.613.876.72	1.615.171.39	1.616.450.52	1.617.713.87	1.618.961.26	1.620.192.45

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0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
55.01423417	54.5741203	54.13752734	53.7044271	53.2747917	52.84859337	52.42580462	52.00639819	51.590347	51.1776242	50.76820323
0	0	0	0	0	0	0	0	0	0	0
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
109.3685273	110.4622125	111.5668347	112.682503	113.809328	114.9474213	116.0968955	117.2578645	118.4304431	119.6147476	120.810895
11281548.32	11303208.89	11324911.05	11346654.9	11368440.5	11390267.87	11412137.18	11434042.48	11456001.86	11477997.4	11500035.14
-658524.729	-665109.976	-671761.076	-678478.686	-685263.473	-692116.108	-699037.269	-706027.642	-713087.9182	-720218.797	-727420.985
-2441105.53	-2465516.58	-2490171.75	-2515073.47	-2540224.2	-2565626.44	-2591282.71	-2617195.54	-2643367.491	-2669801.17	-2696499.18
8181918.062	8172582.333	8162978.228	8153102.73	8142952.78	8132525.314	8121817.203	8110825.306	8099546.447	8087977.42	8076114.972
8181918.062	8172582.333	8162978.228	8153102.73	8142952.78	8132525.314	8121817.203	8110825.306	8099546.447	8087977.42	8076114.972

*A. Rahman*  
 Nur Rahman  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

*Abya*  
 দায়ানন্দ দেবনাথ  
 মুগসচিব  
 সরকার (এস/জি/এস ও গবেষণা)



*[Signature]*  
 সিনিয়র সিস্টেম এনালিস্ট  
 বিদ্যুৎ সঞ্চালনা কর্তৃপক্ষ

*[Signature]*  
 সিনিয়র প্রকৌশলী  
 বিদ্যুৎ সঞ্চালনা কর্তৃপক্ষ

Environment Lab and Monitoring System

(In Lacs Taker)

Item No.	Description	Unit	No. of Unit	Unit Cost	Sub-Total
1	Civil Infrastructure for Lab Equipment & Environment Monitoring System (2 storied, 5000	Lot.	1	500.00	500.00
2	Electrical Installation	Lot.	1	50.00	50.00
3	Mechanical/Plumbing/Sanitary/Lift System	Lot.	1	50.00	50.00
4	Lab Interior, Furniture & HVAC System	Lot.	1	140.00	140.00
5	Data Base Management & Server Control System	Lot.	1	50.00	50.00
Total					790.00

*[Signature]*  
 সিনিয়র প্রোগ্রামার (সিস্টেম)  
 সিস্টেমের প্রোগ্রামিং এবং ডেটা বেস  
 সিস্টেমের পরিচালনা

*[Signature]*  
 প্রোগ্রামার (সিস্টেম)  
 সিস্টেমের প্রোগ্রামিং এবং ডেটা বেস  
 সিস্টেমের পরিচালনা

*[Signature]*  
 সিস্টেমের পরিচালক  
 সিস্টেমের প্রোগ্রামিং এবং ডেটা বেস  
 সিস্টেমের পরিচালনা

*[Signature]*  
**Anisur Rahman**  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh



Land Development works in BSMSN

SL No	Description	Unit	Quantity	Rate	Amount in BDT
1	Site development/improvement by dredged sand, sandy silt free from any organic, foreign, environmental hazardous substances inc/ cost of cutting or by dredging of sand, sandy silt, all; inc/ local carrying, placing the sand, sandy silt in the designated area, maintaining slopes, breaking lumps, leveling and dressing in layers up to finished level etc. The rate includes cost of dredging of materials, construction of earthen dyke, mobilization and demobilization of dredgers, carrying, laying, joining, shifting, extending and dismantling, floating and shore pipes to prepare pipelines for disposal of dredged materials within the dyke, including river transportation by barge or other means, pumping and all other ancillary costs for dredging. The measurement is made on the basis of compacted volume. The measurement will be made on the basis of pre and post work measurement of filling area including volume due to settlement/shrinkage shall be required above the given Finished Ground Level (FGL). Contractor will not get any payment for shrinkage volume/settlement volume. The contractor to commence dredging at least 1 Km away from the coast line towards the sea/river. All required permission from concerned Authority must be obtained prior to start of the work by the contractor. All complete as per the direction of F-I-C.	Cum	10,000,000.00	255.00	2,550,000,000.00
In Word : Two hundred fifty five crore taka only.					2,550,000,000.00

*Wazir*  
 वजीर  
 सहायक (संस्थापक एवं विकास)

*Prasad*

Office of the Director  
 Economic Zone Authority  
 Dhaka, Bangladesh

*Mehrab*

Dr. V.G. Hossain  
 Team Leader  
 BETS JV  
 145, FOR D&S, Infrastructure, West, at Mirasa  
 Bangladesh Economic Zone Authority



*Arifur Rahman*  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

Summary Sheet Land Development in BSMSN PRIDE Project

Sl No.	Zone Number	Average pie level In m (pww)	Area(sqgm)	Area (acre)	Formation level In m (pww)	Filling Height	Volume(cum)
1	zone-11	4.334	495781.513	122.510	6.5	2.166	1073940.081
2	zone-12	3.742	1487681.272	367.614	6.5	2.758	4102966.553
3	zone-13	4.211	1259218.434	311.160	6.5	2.289	2881757.128
4	zone-17	3.963	765375.334	189.128	6.5	2.537	1941757.222
			Total Area =	990.412	Total quantity =		10000420.98

Quantity 10.00 million CUM

*[Signature]*

*[Signature]*  
 প্রকল্প পরিচালক  
 জি.এ.ই. জোন  
 বাংলাদেশ জি.এ.ই. জোন

*[Signature]*

Dr. V.G. Hiremath-  
 Team Leader  
 JARVES - BETS JV  
 IAS FOR IAS of Infrastructure Works at Karsrai E.  
 Bangladesh Economic Zone Authority

*[Signature]*  
**Anisur Rahman**  
 Director's Office  
 Prime Minister's Office  
 Govt. of the Peoples Republic of Bangladesh

*[Signature]*  
 গণপ্রজাতন্ত্রী বাংলাদেশ  
 সরকারের প্রধান কার্যালয়  
 ঢাকা-১০০



RI of Land Filling Area PRIDE Project

SI No.	Easting	Northing	RI (Z) in M (PWD)	Zone number
1	343784.694	2516680.043	4.373	zone -11
2	343784.614	2516659.523	4.348	zone -11
3	343760.067	2516665.68	4.484	zone -11
4	343755.645	2516671.527	4.462	zone -11
5	343789.731	2516666.966	4.238	zone -11
6	343747.248	2516706.833	4.357	zone -11
7	343755.302	2516711.735	4.381	zone -11
8	343767.953	2516672.65	4.538	zone -11
9	343754.762	2516698.461	4.441	zone -11
10	343778.789	2516683.099	4.379	zone -11
11	343766.824	2516688.472	4.313	zone -11
12	343761.919	2516690.446	4.535	zone -11
13	343898.763	2516701.204	4.193	zone -11
14	343897.789	2516700.139	4.119	zone -11
15	343915.336	2516705.876	4.29	zone -11
16	343991.25	2516738.203	4.269	zone -11
17	343994.182	2516744.898	4.384	zone -11
18	343899.541	2516774.354	4.125	zone -11
19	343766.424	2516652.914	3.861	zone -11
20	343785.511	2516671.341	3.895	zone -11
21	343774.546	2516667.077	3.977	zone -11
22	343759.434	2516649.146	4.502	zone -11
23	343892.109	2516699.181	4.374	zone -11
24	343746.409	2516639.722	4.4	zone -11
25	343733.779	2516659.621	4.481	zone -11
26	343753.65	2516681.264	4.467	zone -11
27	343738.112	2516721.457	4.437	zone -11
28	343725.251	2516726.035	4.252	zone -11
29	343738.4	2516743.813	4.395	zone -11
30	343747.406	2516724.289	4.092	zone -11
31	343563.059	2516769.162	4.386	zone -11
32	343668.752	2516758.944	4.312	zone -11
33	343805.275	2516755.958	4.325	zone -11
34	343590.048	2516806.935	4.427	zone -11
35	343694.785	2516798.64	4.292	zone -11
36	343731.684	2516756.69	4.324	zone -11
37	343684.78	2516801.938	4.41	zone -11
38	343730.002	2516755.187	4.262	zone -11
39	343676.353	2516815.648	4.08	zone -11
40	343577.432	2515809.63	4.336	zone -11
41	343646.512	2516618.801	4.425	zone -11
42	343631.968	2516653.36	4.386	zone -11
43	343681.754	2516638.005	4.342	zone -11
44	343601.93	2516699.742	4.388	zone -11
45	343619.225	2516732.939	4.405	zone -11
46	343680.655	2516740.133	4.37	zone -11
47	343654.666	2516714.837	4.325	zone -11
48	343686.089	2516686.701	4.305	zone -11
49	343731.29	2516668.802	4.418	zone -11
50	343640.161	2516648.878	4.45	zone -11
51	344182.363	2516820.178	4.371	zone -11
52	344252.32	2516977.735	4.315	zone -11
53	344309.786	2516992.665	4.436	zone -11
54	344244.506	2517016.011	4.413	zone -11
55	344187.962	2516971.771	4.353	zone -11

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স্বাক্ষরিত

স্বাক্ষরিত

স্বাক্ষরিত

স্বাক্ষরিত



**G. P. Rahman**  
 Director's Office  
 Ministry of Land, Urban Planning and Construction  
 Government of the People's Republic of Bangladesh



**Anisur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

*Amir*  
 অতিরিক্ত সচিব  
 প্রাথমিক ও গণশিক্ষা

Sl.No.	Easting	Northing	RI (Z) In M (PWD)	Zone number
56	344132.375	2517104.775	4.374	zone -11
57	344344.457	2517100.35	4.462	zone -11
58	344282.493	2517101.065	4.327	zone -11
59	344366.81	2516999.532	4.418	zone -11
60	344365.289	2517031.69	4.386	zone -11
61	344416.818	2517029.147	4.347	zone -11
62	344396.966	2516984.184	4.558	zone -11
63	344305.778	2517023.522	4.432	zone -11
64	344348.838	2517068.459	4.441	zone -11
65	344278.95	2517071.64	4.344	zone -11
66	344002.608	2516987.336	4.432	zone -11
67	344057.034	2517110.559	4.355	zone -11
68	344058.269	2517082.388	4.359	zone -11
69	343916.442	2516982.947	4.362	zone -11
70	343718.979	2516970.914	4.224	zone -11
71	343803.604	2516972.91	4.337	zone -11
72	343868.706	2516978.91	4.347	zone -11
73	344197.398	2517083.189	4.368	zone -11
74	344198.483	2517101.332	4.368	zone -11
75	344111.148	2517081.35	4.381	zone -11
76	344180.606	2517012.134	4.399	zone -11
77	343960.372	2517081.65	4.363	zone -11
78	343963.404	2517111.008	4.366	zone -11
79	344083.209	2517001.127	4.346	zone -11
80	344418.974	2517005.852	4.379	zone -11
81	344180.51	2516925.587	4.41	zone -11
82	344108.572	2516876.73	4.395	zone -11
83	344187.456	2516890.368	4.351	zone -11
84	344304.559	2516918.964	4.257	zone -11
85	344243.22	2516898.387	4.272	zone -11
86	344241.383	2516931.648	4.383	zone -11
87	344090.982	2516958.296	4.398	zone -11
88	344049.067	2516813.311	4.125	zone -11
89	344157.381	2516814.301	4.432	zone -11
90	344008.4	2516949.343	4.432	zone -11
91	344100.154	2516913.822	4.318	zone -11
92	343995.706	2516868.336	4.343	zone -11
93	343991.93	2516906.377	4.349	zone -11
94	344463.814	2516941.506	4.428	zone -11
95	344399.931	2516910.722	4.196	zone -11
96	344355.167	2516908.006	4.349	zone -11
97	344449.574	2516926.435	4.319	zone -11
98	344462.044	2516929.698	4.403	zone -11
99	344409.57	2516934.31	4.306	zone -11
100	344422.716	2516924.502	4.224	zone -11
101	344380.669	2516908.462	4.265	zone -11
102	344301.841	2516914.404	4.282	zone -11
103	344397.436	2516928.88	4.344	zone -11
104	344357.436	2516903.171	4.38	zone -11
105	344355.237	2516934.089	4.427	zone -11
106	344339.238	2516906.335	4.382	zone -11
107	344340.266	2516893.454	4.363	zone -11
108	343354.795	2517077.733	4.128	zone -11
109	343354.795	2517077.734	4.109	zone -11
110	343292.71	2517070.417	4.492	zone -11
111	343461.774	2517051.57	4.308	zone -11
112	343467.597	2517013.91	4.255	zone -11

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*Amir*  
 অতিরিক্ত সচিব  
 প্রাথমিক ও গণশিক্ষা

S/No.	Eastng	Northing	RI (Z) in M (PWD)	Zone number
111	343486.206	2517020.206	4.422	zone -11
114	343674.141	2517104.637	4.358	zone -11
115	343631.616	2517090.825	4.332	zone -11
116	343637.139	2517045.044	4.244	zone -11
117	343675.314	2517051.673	4.309	zone -11
118	343570.859	2517037.716	4.132	zone -11
119	343587.152	2517074.51	4.245	zone -11
120	343589.573	2517037.153	4.24	zone -11
121	343469.46	2517029.145	4.359	zone -11
122	343512.311	2517023.571	4.089	zone -11
123	34351.763	2517014.4	4.09	zone -11
124	343486.169	2517001.642	4.504	zone -11
125	343501.196	2516989.292	4.435	zone -11
126	343457.96	2517023.883	4.296	zone -11
127	343464.844	2517019.461	4.308	zone -11
128	343472.105	2517015.531	4.148	zone -11
129	343513.569	2517009.319	4.26	zone -11
130	343503.637	2517017.302	4.146	zone -11
131	343505.283	2517014.118	4.396	zone -11
132	343602.88	2517039.861	4.241	zone -11
133	343971.504	2517220.123	4.406	zone -11
134	343975.511	2517288.764	4.352	zone -11
135	344063.884	2517218.522	4.475	zone -11
136	344173.879	2517253.587	4.545	zone -11
137	343795.054	2517098.19	4.353	zone -11
138	344143.52	2517275.385	4.433	zone -11
139	344214.339	2517236.749	4.455	zone -11
140	344082.789	2517327.527	4.426	zone -11
141	344133.414	2517336.436	4.416	zone -11
142	344128.807	2517361.307	4.47	zone -11
143	344080.207	2517351.587	4.486	zone -11
144	344061.756	2517296.451	4.427	zone -11
145	344035.312	2517326.622	4.455	zone -11
146	344143.799	2517301.416	4.414	zone -11
147	343752.617	2517123.345	4.379	zone -11
148	343754.244	2517168.917	4.309	zone -11
149	343764.359	2517068.375	4.226	zone -11
150	343709.716	2517109.629	4.421	zone -11
151	343680.911	2517077.385	4.407	zone -11
152	343701.247	2517123.738	4.241	zone -11
153	343706.731	2517059.524	4.39	zone -11
154	343889.467	2517088.899	4.417	zone -11
155	343803.569	2517121.727	4.429	zone -11
156	343807.186	2517167.901	4.345	zone -11
157	343890.360	2517113.045	4.352	zone -11
158	343748.837	2517103.979	4.463	zone -11
159	343741.801	2517062.015	4.357	zone -11
160	343887.395	2517213.898	4.368	zone -11
161	343544.858	2516972.652	4.345	zone -11
162	343684.116	2516923.37	4.24	zone -11
163	343680.104	2516874.36	4.24	zone -11
164	343527.738	2516874.656	4.426	zone -11
165	343946.771	2516947.13	4.432	zone -11
166	343712.272	2516935.917	4.246	zone -11
167	343806.787	2516943.128	4.245	zone -11
168	343871.1	2516943.908	4.352	zone -11
169	343592.828	2515973.412	4.41	zone -11



স্বাক্ষরিত  
 (স্বাক্ষরিত) (স্বাক্ষরিত)  
 (স্বাক্ষরিত) (স্বাক্ষরিত)

১৯৯৬ সাল  
 ২৫৯  
 ২৫৯

**Anisur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh



**Anisur Rahman**  
 Director  
 Prime Minister's Office  
 Government of the People's Republic of Bangladesh

স্বাক্ষরিত  
 সিনিয়র সিস্টেম অফিসার  
 প্রোগ্রামিং (সিস্টেম এনালিসিস)

Sl No.	Easting	Northing	RL (Z) in M (PWD)	Zone number
170	343573.712	2516843.434	4.16	zone -11
171	343629.402	2516851.498	4.3	zone -11
172	343555.129	2516795.09	4.388	zone -11
173	343632.61	2516842.757	4.012	zone -11
174	343639.076	2516828.513	4.239	zone -11
175	343671.272	2516823.963	3.836	zone -11
176	343834.53	2516820.886	4.112	zone -11
177	343914.2	2516861.564	4.325	zone -11
178	343910.548	2516902.298	4.377	zone -11
179	343694.725	2516815.237	4.242	zone -11
180	343721.912	2516771.904	4.31	zone -11
181	343707.247	2516797.869	4.249	zone -11
182	343698.453	2516809.853	4.25	zone -11
183	343693.727	2516854.249	4.097	zone -11
184	343692.832	2516892.655	4.077	zone -11
185	343650.594	2516960.188	4.219	zone -11
186	343743.455	2516896.31	4.271	zone -11
187	343838.112	2516859.728	4.139	zone -11
188	343837.767	2516900.083	4.29	zone -11
189	343744.353	2516860.377	4.264	zone -11
190	343618.756	2516871.409	4.212	zone -11
191	343456.304	2516941.966	4.509	zone -11
192	343462.408	2516928.459	4.429	zone -11
193	343425.351	2516999.758	4.398	zone -11
194	343451.729	2516950.169	4.534	zone -11
195	343585.089	2516922.251	4.385	zone -11
196	343537.202	2516921.647	4.405	zone -11
197	343484.484	2516947.78	4.372	zone -11
198	343531.05	2516989.336	4.414	zone -11
199	343534.262	2516989.23	4.272	zone -11
200	343547.62	2516972.502	4.344	zone -11
201	343518.545	2517002.117	4.202	zone -11
202	343437.289	2516978.041	4.458	zone -11
203	343442.933	2516967.906	4.467	zone -11
204	343528.337	2516995.254	4.507	zone -11
205	343613.081	2516879.677	4.449	zone -11
206	343618.99	2516867.648	4.463	zone -11
207	343631.302	2516847.973	4.018	zone -11
208	343601.843	2516890.907	4.43	zone -11
209	343599.716	2516906.598	4.126	zone -11
210	343657.168	2516923.791	4.206	zone -11
211	343595.713	2516910.134	4.298	zone -11
212	343570.168	2516939.315	4.405	zone -11
213	343571.571	2516941.721	4.251	zone -11
214	343586.353	2516921.008	4.428	zone -11
215	343562.802	2516949.787	4.43	zone -11
216	343563.7	2516873.447	4.388	zone -11
217	343511.877	2516895.323	4.385	zone -11
218	343574.5	2516943.143	3.948	zone -11
219		Average Level =	4.334	zone -12
220	344476.529	2516775.081	4.166	zone -12
221	344485.554	2516774.143	4.191	zone -12
222	344497.226	2516777.803	4.285	zone -12
223	344508.757	2516774.753	4.242	zone -12
224	344523.527	2516777.91	4.252	zone -12
225	344533.956	2516793.39	4.332	zone -12
226	344542.874	2516797.007	4.126	zone -12

স্বাক্ষরিত  
 সিনিয়র সিস্টেম অফিসার  
 প্রোগ্রামিং (সিস্টেম এনালিসিস)



Sl No.	Eastng	Northing	Rt (Z) in M (PWD)	Zone number
227	344547.519	2516740.379	4.385	zone -12
228	344403.282	2516758.01	4.285	zone -12
229	344416.04	2516760.98	4.355	zone -12
230	344416.257	2516763.822	4.234	zone -12
231	344445.629	2516766.824	4.268	zone -12
232	344463.007	2516771.739	4.373	zone -12
233	344467.651	2516700.82	4.356	zone -12
234	344398.056	2516641.243	4.428	zone -12
235	344600.548	2516663.107	4.375	zone -12
236	344534.76	2516626.348	4.388	zone -12
237	344477.593	2516551.877	4.285	zone -12
238	344621.754	2516566.772	4.445	zone -12
239	344515.201	2516503.976	2.445	zone -12
240	344673.95	2516497.265	4.386	zone -12
241	344586.957	2516497.3	4.418	zone -12
242	344238.987	2516578.478	4.395	zone -12
243	344229.842	2516592.053	2.67	zone -12
244	344378.172	2516566.772	3.912	zone -12
245	344349.23	2516427.037	2.425	zone -12
246	344339.231	2516486.95	2.388	zone -12
247	344215.866	2516402.995	2.985	zone -12
248	344146.724	2516479.705	2.605	zone -12
249	344125.932	2516428.048	2.68	zone -12
250	344087.353	2516447.249	3.112	zone -12
251	344192.345	2516523.396	2.696	zone -12
252	344119.851	2516553.98	2.725	zone -12
253	344071.971	2516592.488	2.67	zone -12
254	344016.627	2516552.415	2.78	zone -12
255	344059.481	2516646.148	3.771	zone -12
256	344055.352	2516640.916	4.695	zone -12
257	343921.158	2516505.432	4.605	zone -12
258	343811.833	2516502.668	4.488	zone -12
259	343753.741	2516479.177	4.385	zone -12
260	343689.965	2516490.653	4.321	zone -12
261	343703.77	2516473.493	4.313	zone -12
262	343712.211	2516460.985	4.387	zone -12
263	343741.824	2516423.945	4.357	zone -12
264	343730.808	2516416.925	4.336	zone -12
265	343758.484	2516408.72	4.426	zone -12
266	343725.623	2516444.371	4.456	zone -12
267	343813.883	2516405.972	4.456	zone -12
268	343760.619	2516389.428	4.361	zone -12
269	343785.125	2516363.406	4.379	zone -12
270	343763.422	2516380.632	4.31	zone -12
271	343782.68	2516368.071	4.353	zone -12
272	343773.037	2516386.987	4.337	zone -12
273	343770.323	2516333.007	4.33	zone -12
274	343795.554	2516326.598	4.332	zone -12
275	343789.464	2516347.917	4.295	zone -12
276	343870.665	2516338.424	4.425	zone -12
277	343809.052	2516280.827	4.751	zone -12
278	343803.215	2516278.565	4.354	zone -12
279	343867.054	2516261.197	4.312	zone -12
280	343812.441	2516261.403	4.735	zone -12
281	343817.458	2516253.517	4.696	zone -12
282	343921.448	2516278.007	4.705	zone -12
283	343877.013	2516272.837	4.728	zone -12

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স্বাক্ষরিত  
স্বাক্ষরিত  
স্বাক্ষরিত

স্বাক্ষরিত  
স্বাক্ষরিত  
স্বাক্ষরিত

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স্বাক্ষরিত  
স্বাক্ষরিত  
স্বাক্ষরিত

Prime Minister's Office  
Director  
Minister  
Prime Minister's Office  
Director  
Minister  
Prime Minister's Office  
Director  
Minister





**Dr. M. Isur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

স্বাক্ষরিত  
 ডায়েরী  
 নং: ১০৬ (০৩.০৩.১৯৭৬)

S/No.	Easting	Northing	RL (Z) in m (PWD)	Zone number
284	343870.665	2516274.308	4.638	zone -12
285	343821.028	2516224.096	4.709	zone -12
286	343847.745	2516182.958	4.725	zone -12
287	343863.053	2516161.673	4.673	zone -12
288	343884.351	2516112.771	4.585	zone -12
289	343923.723	2516036.755	4.714	zone -12
290	343921.305	2516066.743	4.691	zone -12
291	343942.724	2515984.649	4.611	zone -12
292	343942.64	2515983.849	4.67	zone -12
293	343947.443	2515980.697	4.694	zone -12
294	343966.871	2515969.441	4.548	zone -12
295	343942.724	2515984.649	4.67	zone -12
296	343942.64	2515983.849	4.67	zone -12
297	343947.443	2515980.697	4.694	zone -12
298	343966.871	2515969.441	4.548	zone -12
299	343998.084	2515907.155	4.592	zone -12
300	343985.718	2515938.991	4.643	zone -12
301	343979.111	2515938.535	4.647	zone -12
302	343966.171	2515949.785	4.647	zone -12
303	343985.146	2515957.699	4.692	zone -12
304	343995.294	2515951.074	4.692	zone -12
305	344011.929	2515938.006	4.565	zone -12
306	344005.255	2515935.358	4.561	zone -12
307	344021.598	2515927.413	4.579	zone -12
308	344025.791	2515911.044	4.645	zone -12
309	344031.491	2515902.464	4.67	zone -12
310	344048.999	2515913.324	4.673	zone -12
311	343985.718	2515938.535	4.647	zone -12
312	343979.111	2515949.785	4.647	zone -12
313	343966.171	2515957.699	4.692	zone -12
314	343985.146	2515951.074	4.692	zone -12
315	343995.294	2515938.006	4.565	zone -12
316	344011.929	2515935.358	4.561	zone -12
317	344005.255	2515927.413	4.579	zone -12
318	344021.598	2515911.044	4.645	zone -12
319	344025.791	2515902.464	4.67	zone -12
320	344031.491	2515913.324	4.673	zone -12
321	344048.999	2515873.877	4.613	zone -12
322	344020.416	2515882.253	4.651	zone -12
323	344050.187	2515834.89	4.69	zone -12
324	344024.067	2515841.355	4.658	zone -12
325	344032.922	2515862.776	4.616	zone -12
326	344039.499	2515852.772	4.687	zone -12
327	344051.742	2515824.736	4.645	zone -12
328	344050.619	2515817.505	4.589	zone -12
329	344035.615	2515882.253	4.651	zone -12
330	344024.067	2515834.89	4.69	zone -12
331	344032.922	2515841.355	4.658	zone -12
332	344039.499	2515852.776	4.616	zone -12
333	344051.742	2515824.736	4.645	zone -12
334	344050.619	2515817.505	4.589	zone -12
335	344035.615	2515882.253	4.651	zone -12
336	344024.067	2515834.89	4.69	zone -12
337	344032.922	2515841.355	4.658	zone -12
338	344039.499	2515852.776	4.616	zone -12
339	344051.742	2515824.736	4.645	zone -12
340	344050.619	2515817.505	4.589	zone -12

*Handwritten signature*

**Dr. M. Isur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

Sl.No.	Easting	Northing	RI (Z) in M (PWD)	Zone number
341	344057.543	2515770.515	4.621	zone -12
342	344057.543	2515770.515	4.621	zone -12
343	344062.835	2515748.352	4.636	zone -12
344	344146.095	2515666.646	4.145	zone -12
345	344178.537	2515623.01	4.486	zone -12
346	344123.807	2515632.751	4.039	zone -12
347	344126.333	2515628.526	4.033	zone -12
348	344151.432	2515580.237	4.706	zone -12
349	344156.402	2515568.279	4.592	zone -12
350	344151.432	2515580.237	4.706	zone -12
351	344156.402	2515568.279	4.592	zone -12
352	344170.578	2515536.297	4.54	zone -12
353	344170.578	2515536.297	4.54	zone -12
354	344273.754	2515524.743	4.595	zone -12
355	344204.58	2515471.208	4.582	zone -12
356	344204.58	2515471.208	4.582	zone -12
357	344216.189	2515451.422	4.564	zone -12
358	344216.189	2515451.422	4.564	zone -12
359	344235.258	2515424.839	4.563	zone -12
360	344245.298	2515407.676	4.582	zone -12
361	344235.258	2515424.839	4.563	zone -12
362	344245.298	2515407.676	4.582	zone -12
363	344261.849	2515384.014	4.546	zone -12
364	344261.849	2515384.014	4.546	zone -12
365	344288.663	2515395.474	4.312	zone -12
366	344273.466	2515360.268	4.568	zone -12
367	344273.466	2515360.268	4.568	zone -12
368	344973.941	2515611.374	4.029	zone -12
369	344919.9659	2515551.049	4.036	zone -12
370	344859.6407	2515506.599	4.023	zone -12
371	344442.6566	2515670.641	4.034	zone -12
372	344636.337	2515571.157	4.015	zone -12
373	344553.7818	2515647.357	4.037	zone -12
374	344956.4784	2515518.77	4.033	zone -12
375	344964.4159	2515481.463	4.027	zone -12
376	344538.713	2515528.295	4.034	zone -12
377	344374.6585	2515548.138	4.028	zone -12
378	344348.4647	2515489.401	4.011	zone -12
379	344430.2211	2515476.701	4.027	zone -12
380	344618.4348	2515783.936	4.574	zone -12
381	344954.909	2515663.941	4.445	zone -12
382	344945.468	2515794.186	4.385	zone -12
383	344926.003	2515675.604	4.475	zone -12
384	344916.075	2515601.04	4.625	zone -12
385	344881.235	2515755.307	4.425	zone -12
386	344874.674	2515602.537	4.585	zone -12
387	344867.735	2515611.579	4.572	zone -12
388	344852.038	2515714.484	4.435	zone -12
389	344830.76	2515768.915	4.445	zone -12
390	344827.799	2515566.434	4.585	zone -12
392	344746.715	2515564.426	4.586	zone -12
393	344729.094	2515582.155	4.485	zone -12
394	344708.955	2515571.462	4.625	zone -12
395	344631.126	2515525.262	4.485	zone -12
396	344633.136	2515694.597	4.57	zone -12
397	344647.411	2515587.519	4.485	zone -12

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স্বাক্ষরিত  
১১/১০

স্বাক্ষরিত (স্বাক্ষরিত ও প্রাপ্তকাল)

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১১/১০

স্বাক্ষরিত (স্বাক্ষরিত ও প্রাপ্তকাল)



**Anisur Rahman**  
Prime Minister's Office  
Gov. of the People's Republic of Bangladesh



Sl No.	Easting	Northing	RL (Z) in M (PWD)	Zone number
398	3447.6886	2515702.257	4.574	zone -12
399	344457.223	2515546.321	4.525	zone -12
400	344365.798	2515584.971	4.485	zone -12
401	344349.929	2515743.465	4.486	zone -12
402	344295.972	2515676.898	4.505	zone -12
403	345062.8411	2515594.97	4.018	zone -12
404	345042.2036	2515583.857	4.039	zone -12
405	345042.9974	2515622.751	4.037	zone -12
406	345101.735	2515646.564	4.022	zone -12
407	345099.3537	2515636.245	4.013	zone -12
408	345130.31	2515644.182	4.021	zone -12
409	345138.2475	2515643.389	4.034	zone -12
410	345141.4226	2515603.701	4.018	zone -12
411	345160.4726	2515611.638	4.029	zone -12
412	345163.6476	2515644.182	4.035	zone -12
413	345111.26	2515644.182	4.011	zone -12
414	345110.4662	2515618.782	4.017	zone -12
415	345090.7888	2515597.701	0.87	zone -12
416	345072.5987	2515630.774	0.865	zone -12
417	345152.6353	2515675.422	0.942	zone -12
418	345127.8305	2515671.123	0.893	zone -12
419	345107.9868	2515667.154	0.907	zone -12
420	345167.8489	2515678.729	0.858	zone -12
421	345159.2499	2515674.43	0.875	zone -12
422	345145.69	2515671.123	0.873	zone -12
423	345139.4061	2515670.13	0.881	zone -12
424	345125.8462	2515666.823	0.735	zone -12
425	345118.5701	2515665.5	0.921	zone -12
426	345097.0727	2515663.516	0.973	zone -12
427	345086.8201	2515659.216	0.945	zone -12
428	345083.8435	2515656.901	0.859	zone -12
429	345081.8591	2515651.94	0.73	zone -12
430	345078.8825	2515643.011	0.986	zone -12
431	345077.2289	2515635.735	0.069	zone -12
432	345078.5518	2515627.466	0.86	zone -12
433	345084.5049	2515616.883	0.739	zone -12
434	345088.143	2515607.953	0.795	zone -12
435	345092.4425	2515601.008	0.838	zone -12
436	345092.4425	2515588.109	0.822	zone -12
437	344995.249	2515593.061	4.385	zone -12
438	345236.301	2515594.984	4.382	zone -12
439	345243.045	2515587.931	4.351	zone -12
440	345238.186	2515587.745	4.344	zone -12
441	345180.3164	2515594.441	4.019	zone -12
442	345218.738	2515583.459	4.376	zone -12
443	345152.5351	2515579.888	4.036	zone -12
444	345115.2288	2515566.395	4.037	zone -12
445	345136.591	2515552.163	4.305	zone -12
446	345174.139	2515546.768	4.204	zone -12
447	345192.531	2515562.727	4.211	zone -12
448	345146.030	2515530.751	4.31	zone -12
449	34522.386	2515525.882	4.162	zone -12
450	34501.735	2515508.01	4.165	zone -12
451	345095.48	2515514.907	4.038	zone -12
452	345075.6974	2515508.397	4.164	zone -12
453	345078.707	2515492.076	4.099	zone -12
454	345057.662	2515492.076	4.099	zone -12

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*Anisur Rahman*

Director's Office  
Prime Minister's Office  
Govt. of the Peoples Republic of Bangladesh

স্বাক্ষরিত  
স্বাক্ষরিত  
স্বাক্ষরিত

*Anisur Rahman*

স্বাক্ষরিত  
স্বাক্ষরিত  
স্বাক্ষরিত

Sl No.	Eastng	Northng	RL (Z) in M (PWD)	Zone number
455	3410482.74	2515480.718	4.456	zone -12
456	345018359	2515497.159	0.874	zone -12
457	345019.3512	2515504.104	0.866	zone -12
458	345022.6585	2515094.844	0.968	zone -12
459	345024.9736	2515488.56	0.887	zone -12
460	345030.9267	2515479.299	0.936	zone -12
461	344999.341	2515490.195	4.021	zone -12
462	345005.282	2515468.636	4.633	zone -12
463	344980.702	2515461.541	4.632	zone -12
464	344987.667	2515450.017	4.631	zone -12
465	344949.441	2515451.123	4.633	zone -12
466	344911.2346	2515468.763	4.031	zone -12
467	344876.3025	2515463.207	4.029	zone -12
468	344860.4345	2515449.713	4.035	zone -12
469	344925.0364	2515432.699	0.737	zone -12
470	344923.3431	2515436.086	0.997	zone -12
471	344921.0147	2515439.049	0.982	zone -12
472	344917.4166	2515441.706	0.994	zone -12
473	344912.9114	2515448.367	0.989	zone -12
474	344908.5164	2515450.902	0.934	zone -12
475	344906.4097	2515451.537	0.987	zone -12
476	344898.578	2515451.537	0.771	zone -12
477	341891.3613	2515450.479	1.005	zone -12
478	344884.608	2515449.209	0.859	zone -12
479	344876.7163	2515444.129	0.796	zone -12
480	344871.6963	2515430.159	0.672	zone -12
481	344933.112	2515429.234	3.092	zone -12
482	344931.137	2515427.96	0.825	zone -12
483	344927.935	2515426.59	0.985	zone -12
484	344924.379	2515424.756	3.316	zone -12
485	344935.322	2515430.119	4.174	zone -12
486	344916.288	2515454.46	3.957	zone -12
487	344901.661	2515456.746	3.936	zone -12
488	344878.967	2515452.407	3.739	zone -12
489	344871.093	2515437.309	4.102	zone -12
490	344890.784	2515445.531	3.838	zone -12
491	344905.369	2515446.109	4.033	zone -12
492	344914.553	2515438.79	4.453	zone -12
494	344891.168	2515456.131	3.873	zone -12
496	344907.936	2515419.68	4.612	zone -12
497	344890.5971	2515413.201	4.014	zone -12
498	344846.147	2515421.932	4.027	zone -12
499	344828.6844	2515392.563	4.033	zone -12
500	344852.0137	2515381.687	0.824	zone -12
501	344866.8279	2515420.846	0.957	zone -12
502	344853.0179	2515408.992	0.878	zone -12
503	344857.0913	2515395.077	0.729	zone -12
504	344850.6772	2515392.865	4.379	zone -12
505	344850.572	2515395.137	4.381	zone -12
506	344856.434	2515388.143	4.395	zone -12
507	344757.5656	2515445.927	4.026	zone -12
508	344734.7572	2515402.882	4.425	zone -12
509	344734.564	2515425.7	4.825	zone -12
510	344603.643	2515420.615	4.825	zone -12
511	344783.4886	2515390.182	4.013	zone -12

১৩/০৫/২০১৮

প্রশাসনিক (সং. কারি. ক্রম ও পরিচালনা)  
মুদ্রিত

১৩/০৫/২০১৮

১৩/০৫/২০১৮

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১৩/০৫/২০১৮



**Anisur Rahman**  
Prime Minister's Office  
Govt. of the People's Republic of Bangladesh

**Anisur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

Sl.No.	Easting	Northing	Rt (Z) in M (PWD)	Zone number
512	341792.0656	2515375.365	4.021	zone -12
513	344817.703	2515365.15	4.511	zone -12
514	344759.0989	2515347.848	4.032	zone -12
515	344724.1238	2515363.723	4.01	zone -12
516	344752.7489	2515377.482	4.035	zone -12
517	344770.148	2515339.693	4.603	zone -12
518	344737.403	2515329.063	4.034	zone -12
519	344697.7154	2515339.382	4.025	zone -12
520	344664.3778	2515348.113	4.018	zone -12
521	344679.9259	2515317.764	0.818	zone -12
522	344663.8392	2515314.8	0.951	zone -12
523	344657.7009	2515319.88	0.841	zone -12
524	344671.4592	2515316.917	0.735	zone -12
525	344690.0899	2515314.8	0.775	zone -12
526	344707.667	2515308.068	0.657	zone -12
527	344708.086	2515310.788	0.563	zone -12
528	344635.976	2515318.735	1.165	zone -12
529	344635.141	2515322.077	0.794	zone -12
530	344659.639	2515329.648	4.707	zone -12
531	344618.3403	2515337	4.017	zone -12
532	344621.315	2515315.809	3.354	zone -12
533	344620.575	2515311.957	3.194	zone -12
534	344621.257	2515309.978	3.95	zone -12
535	344629.453	2515327.694	4.665	zone -12
536	34452.4589	2515295.725	4.016	zone -12
537	344578.6527	2515302.859	4.018	zone -12
538	344556.4276	2515317.95	4.021	zone -12
539	344612.161	2515300.328	3.984	zone -12
540	344591.451	2515287.61	4.156	zone -12
541	344599.827	2515288.064	4.024	zone -12
542	344582.344	2515282.503	4.091	zone -12
543	344587.862	2515279.064	4.142	zone -12
544	344576.383	2515274.05	3.979	zone -12
545	344571.189	2515276.982	3.176	zone -12
546	344572.951	2515274.992	3.119	zone -12
547	344574.632	2515273.232	4.334	zone -12
548	344571.01	2515279.282	4.023	zone -12
549	344553.105	2515280.806	4.062	zone -12
550	344569.116	2515273.419	4.106	zone -12
551	344532.165	2515274.515	4.178	zone -12
552	344532.316	2515280.118	4.065	zone -12
553	344537.352	2515284.055	4.083	zone -12
554	344525.146	2515291.212	4.008	zone -12
555	344472.0525	2515298.0	4.027	zone -12
556	344507.215	2515308.475	4.026	zone -12
557	344515.1326	2515318.744	4.033	zone -12
558	344506.0244	2515292.902	4.013	zone -12
559	344488.5619	2515236.631	4.031	zone -12
560	344491.7369	2515274.731	4.03	zone -12
561	344476.6556	2515267.984	4.017	zone -12
562	344578.974	2515287.586	4.169	zone -12
563	344597.29	2515291.266	4.041	zone -12
564	344493.069	2515290.556	4.031	zone -12
565	344503.299	2515291.699	4.107	zone -12
566	344515.571	2515295.958	4.057	zone -12
567	344504.314	2515293.366	4.3	zone -12
568	344497.627	2515297.541	4.153	zone -12

*Wasta*

নসিফুল হোসেন

প্রোগ্রামার

সিস্টেম এনালিস্ট (সিস্টেম এনালিস্ট ও সফটওয়্যার)

*Signature*

*Signature*

সিস্টেম এনালিস্ট  
 প্রোগ্রামার  
 সিস্টেম এনালিস্ট ও সফটওয়্যার

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SI No.	Easting	Northing	RL (z) in M (PWD)	Zone number
569	344489761	2515295.954	4.046	zone -12
570	344481285	2515287.34	4.194	zone -12
571	344578617	2515272.448	4.493	zone -12
572	344543679	2515247.678	4.525	zone -12
573	344580804	2515259.928	4.514	zone -12
574	344568783	2515237.587	4.505	zone -12
575	344568783	2515237.587	4.505	zone -12
576	344407.7315	2515292.815	4.025	zone -12
577	344422.2836	2515271.913	4.034	zone -12
578	34442.9212	2515293.344	4.039	zone -12
579	344394.8992	2515246.156	4.034	zone -12
580	344319.8179	2515237.027	4.011	zone -12
581	344455.6212	2515254.887	4.038	zone -12
582	344455.6993	2515243.774	4.011	zone -12
583	344450.983	2515278.475	4.069	zone -12
584	344445.954	2515275.187	3.925	zone -12
585	344435.742	2515260.116	4.005	zone -12
586	344457.234	2515275.56	4.409	zone -12
587	344455.528	2515274.484	3.965	zone -12
588	344450.279	2515269.846	4.009	zone -12
589	344440.384	2515255.57	3.727	zone -12
590	344430.041	2515254.405	4.057	zone -12
591	344435.876	2515251.732	3.719	zone -12
592	344405.801	2515233.636	4.205	zone -12
593	344399.02	2515222.585	3.034	zone -12
594	344399.303	2515224.326	2.968	zone -12
595	344398.879	2515225.455	3.157	zone -12
596	344398.723	2515226.367	4.133	zone -12
597	344418.926	2515235.591	4.099	zone -12
598	344388.136	2515224.185	4.202	zone -12
599	344405.86	2515223.404	4.012	zone -12
600	344441.3137	2515202.896	4.012	zone -12
601	344425.8555	2515220.756	4.012	zone -12
602	344363.9429	2515229.487	4.027	zone -12
603	344391.3173	2515199.721	4.038	zone -12
604	344367.1179	2515199.721	4.016	zone -12
605	344397.852	2515239.475	4.059	zone -12
606	344397.288	2515219.144	4.134	zone -12
607	344391.465	2515217.728	4.01	zone -12
608	344368.436	2515213.47	3.95	zone -12
609	344356.832	2515219.051	4.154	zone -12
610	344356.202	2515212.872	4.055	zone -12
611	344390.9304	2515180.671	4.023	zone -12
612	344414.536	2515177.316	4.581	zone -12
613	344475.708	2515206.325	4.503	zone -12
614	344359.229	2515169.403	4.509	zone -12
615	344359.229	2515169.403	4.509	zone -12
616	344346.489	2515188.675	4.545	zone -12
617	344351.2428	2515237.027	4.014	zone -12
618	344341.955	2515224.561	3.37	zone -12
619	344341.35	2515223.428	3.045	zone -12
620	344341.278	2515271.553	3.072	zone -12
621	344340.635	2515219.811	3.456	zone -12
622	344342.887	2515224.751	4.153	zone -12
623	344335.244	2515230.187	4.237	zone -12
624	344332.282	2515222.482	4.006	zone -12
625	344333.32	2515216.201	4.481	zone -12

*Signature*

পরিচালক (স্বাক্ষর)  
প্রকল্প পরিচালক (স্বাক্ষর)  
স্বাক্ষর (স্বাক্ষর করা ও স্বাক্ষর)

স্বাক্ষর (স্বাক্ষর করা ও স্বাক্ষর)

*Signature*

*Signature*

Anisur Rahman  
Director  
Prime Minister's Office  
Govt. of the People's Republic of Bangladesh





**Anisur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

S/No.	Easting	Northing	RL (Z) In M (P.W.C)	Zone number
626	344329.8116	2515253.299	4.014	zone -12
627	344320.481	2515242.48	4.097	zone -12
628	344320.481	2515242.48	4.097	zone -12
629	344369.6314	2515269.532	4.027	zone -12
630	344399.2648	2515325.623	4.024	zone -12
631	344338.909	2515294.909	4.27	zone -12
632	344296.415	2515289.88	4.59	zone -12
633	344298.821	2515284.077	4.623	zone -12
634	344296.415	2515289.88	4.59	zone -12
635	344298.821	2515284.077	4.623	zone -12
636	344287.318	2515316.505	4.51	zone -12
637	344280.164	2515337.245	4.575	zone -12
638	344287.318	2515316.505	4.51	zone -12
639	344280.164	2515337.245	4.575	zone -12
640	344387.3712	2515352.875	4.039	zone -12
641	344381.8023	2515356.05	4.033	zone -12
642	344447.154	2515350.22	4.245	zone -12
643	344521.5026	2515469.557	4.034	zone -12
644	344537.778	2515445.756	4.345	zone -12
645	344459.741	2515438.214	4.305	zone -12
646	344374.152	2515435.7	4.325	zone -12
647	344630.918	2515372.875	4.325	zone -12
648	345101.735	2515698.157	4.02	zone -12
649	345117.61	2515723.557	4.037	zone -12
650	345075.88	2515724.204	4.425	zone -12
651	345009.7	2515716.428	4.481	zone -12
652	345145.3913	2515707.687	4.029	zone -12
653	345136.66	2515698.157	4.027	zone -12
654	345165.8645	2515686.336	0.738	zone -12
655	345176.3476	2515682.914	4.032	zone -12
656	345199.3664	2515621.164	4.016	zone -12
657	345170.7914	2515625.132	4.02	zone -12
658	345050.1411	2515560.838	4.039	zone -12
659	345025.5348	2515550.52	4.029	zone -12
660	345010.4535	2515539.407	4.035	zone -12
661	344992.1973	2515491.788	4.011	zone -12
662	345065.2224	2515575.126	4.014	zone -12
663	345023.1596	2515563.22	4.037	zone -12
664	345043.1637	2515535.854	0.969	zone -12
665	345085.1664	2515563.966	0.959	zone -12
666	345090.4581	2515579.841	0.918	zone -12
667	345087.8122	2515564.55	0.83	zone -12
668	345081.8597	2515567.935	0.909	zone -12
669	345076.5674	2515557.021	0.932	zone -12
670	345070.7836	2515545.037	0.78	zone -12
671	345065.4726	2515550.737	1.009	zone -12
672	345038.3723	2515546.107	0.937	zone -12
673	345049.4476	2515542.138	0.869	zone -12
674	345042.175	2515537.508	0.995	zone -12
675	345033.2418	2515531.885	0.903	zone -12
676	344999.341	2515511.626	4.022	zone -12
677	345032.9711	2515527.917	0.724	zone -12
678	345028.9423	2515529.24	0.723	zone -12
679	345023.6507	2515524.609	0.993	zone -12
680	345021.0418	2515518.695	0.748	zone -12
681	345019.377	2515517.372	0.833	zone -12
682	345001.915	2515499.335	4.405	zone -12

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 বঙ্গবন্ধু স্মরণীয়  
 বাংলাদেশ সরকার  
 সরকারি (সি. এফ. ও. সরকারি)

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০১০  
 বাংলাদেশ সরকার  
 সরকারি (সি. এফ. ও. সরকারি)

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Sl.No.	Eating	Northing	Rt (Z) in M (PWD)	Zone number
683	344834.52	2515854.159	3.481	zone -12
684	344733.305	2515844.73	4.712	zone -12
685	344653.501	2515856.393	3.685	zone -12
686	344935.735	2515897.217	4.425	zone -12
687	344902.646	2515823.346	4.405	zone -12
688	344873.449	2515901.105	4.481	zone -12
689	344927.95	2515967.2	4.485	zone -12
690	344756.663	2515984.695	4.325	zone -12
691	344879.289	2516031.351	4.445	zone -12
692	344832.574	2516008.023	4.425	zone -12
693	344666.404	2516060.368	3.685	zone -12
694	344634.037	2516111.053	3.725	zone -12
695	344579.5	2516139.804	3.485	zone -12
696	344534.76	2516127.392	3.305	zone -12
697	344527.304	2516050.438	3.345	zone -12
698	344597.054	2516004.135	3.425	zone -12
699	344837.995	2516102.568	4.388	zone -12
700	344770.288	2516112.997	4.356	zone -12
701	344828.949	2516171.316	4.456	zone -12
702	344768.4	2516291.228	4.205	zone -12
703	344717.734	2516241.299	2.705	zone -12
704	344651.555	2516227.691	2.705	zone -12
705	344528.928	2516235.467	3.123	zone -12
706	344478.752	2516255.317	2.925	zone -12
707	344444.162	2516229.463	2.912	zone -12
708	344462.749	2516132.487	3.225	zone -12
709	344351.802	2516093.558	3.016	zone -12
710	344309.952	2516142.006	4.245	zone -12
711	344379.132	2516187.607	3.118	zone -12
712	344365.427	2516208.252	2.696	zone -12
713	344294.737	2516228.735	2.581	zone -12
714	344258.758	2516367.241	3.044	zone -12
715	344254.608	2516273.281	2.67	zone -12
716	344224.198	2516201.425	4.285	zone -12
717	344222.780	2516234.589	2.605	zone -12
718	344182.66	2516358.956	3.029	zone -12
719	344137.001	2516316.119	2.705	zone -12
720	344121.175	2516376.654	4.117	zone -12
721	344658.584	2516335.935	4.317	zone -12
722	344567.072	2516330.946	4.388	zone -12
723	344500.89	2516310.591	4.375	zone -12
724	344488.438	2516350.665	4.386	zone -12
725	344343.109	2516309.209	4.388	zone -12
726	344326.555	2516356.192	4.385	zone -12
727	344304.428	2516320.264	4.375	zone -12
728	344159.493	2516146.011	4.725	zone -12
729	344086.493	2516234.798	4.705	zone -12
730	344012.066	2516114.717	4.581	zone -12
731	344038.884	2516168.231	4.588	zone -12
732	344064.275	2516079.474	4.545	zone -12
733	344397.623	2516098.453	4.67	zone -12
734	344398.101	2516146.041	4.712	zone -12
735	344159.493	2516050.915	4.705	zone -12
736	344080.145	2516197.697	4.723	zone -12
737	344472.482	2516251.395	4.445	zone -12
738	344472.712	2516225.883	4.685	zone -12
739	344461.635	2516382.941	4.795	zone -12

ন্যাশনাল চেম্বার  
সার্টিফিক্স  
কারখানা (১ম ধর ও ১৫৫৯১১)

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Rahman  
১৫৫৯১১  
১৫৫৯১১



Anisur Rahman  
Prime Minister's Office  
Govt. of the People's Republic of Bangladesh



**Anisur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

Sl.No.	Easting	Northing	RL (Z) in M (PWD)	Zone number
740	344318.189	2515917.809	4.705	zone -12
741	344315.015	2515803.693	4.572	zone -12
742	344270.58	2515844.902	4.588	zone -12
743	344279.319	2515936.829	4.584	zone -12
744	344197.58	2515822.713	4.584	zone -12
745	344146.797	2515936.829	4.725	zone -12
746	344565.911	2515883.609	4.585	zone -12
747	344536.714	2515939.984	4.681	zone -12
748	344440.214	2516432.03	2.585	zone -12
749	344661.522	2516417.829	4.375	zone -12
750	344555.916	2516402.085	4.416	zone -12
751	344466.3	2516385.211	4.312	zone -12
752	344425.216	2516504.924	2.562	zone -12
753	343981.759	2516272.837	4.685	zone -12
754	343937.318	2516703.099	4.745	zone -12
755	Average Level (SOB)=		3.742	
756	344271.5072	2514738.737	4.384	zone -13
757	345251.547	2514765.246	4.385	zone -13
758	346153.6	2514763.623	4.385	zone -13
759	346085.399	2514742.475	4.37	zone -13
760	346202.799	2514711.364	4.285	zone -13
761	346137.126	2514685.501	4.425	zone -13
762	346206.229	2514823.438	4.452	zone -13
763	346137.126	2514825.593	4.412	zone -13
764	346087.539	2514855.767	4.349	zone -13
765	344971.007	2514821.748	4.288	zone -13
766	345944.427	2514769.556	4.305	zone -13
767	346033.659	2514797.696	4.386	zone -13
768	345924.345	2514713.632	4.312	zone -13
769	345820.939	2514854.236	4.456	zone -13
770	345812.615	2514802.888	4.481	zone -13
771	345778.773	2514717.763	4.471	zone -13
772	345758.631	2514663.781	4.525	zone -13
773	345684.014	2514834.434	4.512	zone -13
774	345560.973	2514847.23	4.288	zone -13
775	345499.01	2514854.713	4.271	zone -13
776	345630.042	2514739.383	4.522	zone -13
777	345555.414	2514705.997	4.581	zone -13
778	345453.887	2514676.704	4.445	zone -13
779	345439.184	2514586.015	4.345	zone -13
780	345343.335	2514645.158	4.425	zone -13
781	345297.429	2514548.129	4.389	zone -13
782	345226.016	2514541.507	4.325	zone -13
783	345151.562	2514582.066	4.356	zone -13
784	345091.804	2514445.188	4.302	zone -13
785	345073.533	2514536.1	4.342	zone -13
786	344950.755	2514399.731	4.275	zone -13
787	344902.154	2514514.468	4.138	zone -13
788	344819.908	2514455.883	4.425	zone -13
789	344777.785	2514570.192	4.125	zone -13
790	344684.146	2514584.32	4.305	zone -13
791	344608.627	2514593.333	4.312	zone -13
792	344556.736	2514522.525	4.312	zone -13
793	344494.607	2514622.477	4.485	zone -13
794	344507.297	2514592.477	4.324	zone -13
795	344346.723	2514738.819	4.585	zone -13
796	344270.133	2514738.819	4.585	zone -13

স্বাক্ষরিত  
 প্রধান কার্যালয়  
 প্রধানমন্ত্রীর কার্যালয়  
 ঢাকা

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স্বাক্ষরিত  
 প্রধান কার্যালয়  
 প্রধানমন্ত্রীর কার্যালয়  
 ঢাকা

S/No.	Easting	Northing	RI (Z) in M (PWD)	Zone number
797	344817.652	2514687.971	4.488	zone -13
798	344727.404	2514773.789	4.446	zone -13
799	344649.849	2514665.667	4.516	zone -13
800	344664.134	2514748.809	4.462	zone -13
801	344595.435	2514803.339	4.117	zone -13
802	344594.72	2514804.236	4.297	zone -13
803	344596.704	2514802.612	4.349	zone -13
804	344587.453	2514794.804	4.3	zone -13
805	344586.47	2514798.841	4.349	zone -13
806	344575.861	2514789.12	4.356	zone -13
807	344572.457	2514793.863	4.36	zone -13
808	344560.768	2514795.848	4.335	zone -13
809	344559.655	2514789.753	4.32	zone -13
810	344557.953	2514785.305	4.527	zone -13
811	344595.435	2514803.339	4.117	zone -13
812	344594.72	2514802.612	4.297	zone -13
813	344596.704	2514804.236	4.349	zone -13
814	344587.453	2514794.804	4.3	zone -13
815	344586.47	2514798.841	4.349	zone -13
816	344575.861	2514789.12	4.356	zone -13
817	344572.457	2514793.863	4.36	zone -13
818	344560.768	2514785.848	4.335	zone -13
819	344559.655	2514789.753	4.32	zone -13
820	344557.953	2514785.305	4.527	zone -13
821	344554.767	2514801.323	4.548	zone -13
822	344571.581	2514797.495	4.534	zone -13
823	344628.135	2514814.154	4.425	zone -13
824	344565.473	2514780.139	4.503	zone -13
825	344583.151	2514775.48	4.502	zone -13
826	344586.548	2514761.612	4.466	zone -13
827	344578.841	2514749.274	4.535	zone -13
828	344588.631	2514732.269	4.504	zone -13
829	344590.961	2514713.038	4.486	zone -13
830	345201.198	2514751.062	4.125	zone -13
831	344787.563	2514322.537	4.488	zone -13
832	344137.126	2514927.58	4.425	zone -13
833	346031.431	2514935.511	4.342	zone -13
834	345978.403	2514863.637	4.305	zone -13
835	345955.901	2514881.63	4.342	zone -13
836	345927.056	2514905.517	4.375	zone -13
837	346055.169	2515010.945	4.375	zone -13
838	346016.058	2515086.713	4.386	zone -13
839	345805.535	2515035.491	3.685	zone -13
840	345859.116	2515061.532	2.485	zone -13
841	345816.759	2515023.558	2.67	zone -13
842	345813.471	2514994.18	2.685	zone -13
843	345928.768	2515076.456	4.316	zone -13
844	345881.55	2515001.785	4.28	zone -13
845	345902.395	2515030.42	4.282	zone -13
846	345973.53	2515021.271	4.27	zone -13
847	345824.162	2514949.961	4.312	zone -13
848	345785.708	2514937.396	4.372	zone -13
849	345856.163	2514960.396	4.312	zone -13
850	345730.226	2515025.175	3.912	zone -13
851	345706.264	2514957.055	4.356	zone -13
852	345678.936	2514989.701	3.345	zone -13
853	345761.707	2515014.158	2.725	zone -13



পত্রাঙ্কন ও সীমানা  
সংশোধন

সরকারি (সি.এ.এ. ও সরকারি)

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*Rahman*

সি.এ.এ. (সি.এ.এ. ও সরকারি)  
সরকারি (সি.এ.এ. ও সরকারি)

*Rahman*



**Prime Minister's Office**  
Gov. of the People's Republic of Bangladesh



**Anisur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

Sl.No.	Easting	Northing	R <sub>z</sub> (Z) in M (PWD)	Zone number
854	345742.516	2514973.439	2.69	zone -13
855	345611.958	2514980.571	3.112	zone -13
856	345605.981	2515019.66	3.212	zone -13
857	345642.707	2514946.243	3.346	zone -13
858	345703.504	2514938.433	3.312	zone -13
859	345937.484	2515117.056	2.581	zone -13
860	345886.776	2515090.755	2.605	zone -13
861	345820.939	2515085.003	3.782	zone -13
862	345774.101	2515075.827	2.724	zone -13
863	345786.708	2515124.319	3.772	zone -13
864	345817.287	2515121.577	2.72	zone -13
865	345742.199	2515145.121	2.605	zone -13
866	345605.282	2515078.166	3.67	zone -13
867	345608.299	2515109.685	3.305	zone -13
868	345696.257	2515098.495	3.205	zone -13
869	345728.859	2515085.465	3.172	zone -13
870	345682.573	2515144.643	3.375	zone -13
871	345650.138	2515045.621	3.356	zone -13
872	345567.946	2515035.405	3.345	zone -13
873	345553.275	2515079.924	3.35	zone -13
874	345572.762	2514973.893	4.112	zone -13
875	345418.922	2515056.409	3.245	zone -13
876	345570.956	2514907.05	4.325	zone -13
877	345512.857	2515030.303	4.345	zone -13
878	345487.183	2514944.833	4.325	zone -13
879	345406.74	2515067.909	4.325	zone -13
880	345461.186	2515041.702	4.302	zone -13
881	345457.712	2514998.312	4.285	zone -13
882	345521.217	2515102.183	3.11	zone -13
883	345531.541	2515129.872	3.205	zone -13
884	345456.776	2515099.3	3.225	zone -13
885	345488.545	2515135.66	4.272	zone -13
886	345464.933	2515122.61	4.582	zone -13
887	345266.626	2514956.111	4.584	zone -13
888	345232.16	2515119.191	4.584	zone -13
889	345027.474	2515071.029	4.584	zone -13
890	344935.888	2514935.832	4.584	zone -13
891	344868.599	2515107.78	4.584	zone -13
892	344824.47	2514920.059	4.585	zone -13
893	341766.816	2515069.3	4.445	zone -13
894	345305.288	2515560.673	4.38	zone -13
895	345316.83	2515504.629	4.379	zone -13
896	345307.973	2515488.174	4.358	zone -13
897	345291.071	2515497.697	4.425	zone -13
898	345291.941	2515497.697	4.291	zone -13
899	345291.361	2515486.561	4.237	zone -13
900	345269.154	2515486.481	4.237	zone -13
901	345268.154	2515486.481	4.301	zone -13
902	345288.298	2515442.317	4.311	zone -13
903	345283.693	2515471.183	4.258	zone -13
904	345272.505	2515486.174	4.123	zone -13
905	345254.315	2515482.482	4.123	zone -13
906	345247.399	2515474.819	4.292	zone -13
907	345229.029	2515465.086	4.282	zone -13
908	345228.02	2515457.205	4.284	zone -13
909	345246.034	2515450.577		
910	345230.012	2515443.475		

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প্রকল্প পরিচালক  
 জেলা পরিষদ  
 কক্সবাজার (সাবেক ৬৭ ও ৬৮নং)

২৭২

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১৩/১১/১১  
 ১৩/১১/১১  
 ১৩/১১/১১

Sl No.	Eastng	Northing	RL (Z) in M (PWD)	Zone number
911	345279.524	2515467.109	4.149	zone -13
912	345338.934	2515461.51	4.475	zone -13
913	345358.298	2515436.171	4.377	zone -13
914	345313.504	2515434.135	4.445	zone -13
915	345381.378	2515394.312	4.37	zone -13
916	345271.422	2515365.811	4.389	zone -13
917	345255.132	2515403.802	4.386	zone -13
918	345242.315	2515303.476	4.305	zone -13
919	345206.262	2515332.457	4.345	zone -13
920	345202.19	2515361.774	4.388	zone -13
921	345188.615	2515403.802	4.405	zone -13
922	345398.182	2515320.899	4.288	zone -13
923	345359.658	2515291.274	4.286	zone -13
924	345333.866	2515333.303	4.425	zone -13
925	345396.311	2515232.977	4.345	zone -13
926	345361.016	2515201.794	4.305	zone -13
927	345329.794	2515279.073	4.382	zone -13
928	345301.382	2515281.784	4.318	zone -13
929	345225.767	2515276.361	4.305	zone -13
930	345173.683	2515260.092	4.549	zone -13
931	345150.606	2515352.284	4.325	zone -13
932	345138.823	2515237.139	4.584	zone -13
933	345207.859	2515455.159	4.228	zone -13
934	345308.036	2515452.677	4.368	zone -13
935	345192.643	2515440.318	4.094	zone -13
936	345182.711	2515435.941	4.197	zone -13
937	345147.392	2515411.446	4.183	zone -13
938	345147.306	2515411.486	4.187	zone -13
939	345118.539	2515408.903	4.084	zone -13
940	345120.997	2515393.753	4.214	zone -13
941	345101.958	2515394.32	3.982	zone -13
942	345107.344	2515386.511	4.173	zone -13
943	345072.449	2515385.947	4.336	zone -13
944	345002.044	2515343.72	4.481	zone -13
945	345025.026	2515272.109	4.556	zone -13
946	344947.045	2515315.101	4.436	zone -13
947	344916.859	2515294.404	4.414	zone -13
948	344937.228	2515267.064	4.584	zone -13
949	344908.3442	2515281.173	4.039	zone -13
950	344883.9875	2515247.307	4.019	zone -13
951	344833.766	2515258.119	4.462	zone -13
952	344795.0823	2515191.215	4.02	zone -13
953	344779.229	2515227.441	4.457	zone -13
954	344809.282	2515237.135	4.472	zone -13
955	344683.123	2515179.599	4.506	zone -13
956	344661.741	2515170.472	4.525	zone -13
957	344642.502	2515162.671	4.517	zone -13
958	344506.542	2515138.1	4.536	zone -13
959	344630.022	2515115.973	4.549	zone -13
960	344545.443	2515169.252	4.549	zone -13
961	344574.401	2515129.842	4.516	zone -13
962	344535.479	2515088.739	4.583	zone -13
963	344504.312	2515090.911	4.564	zone -13
964	344508.04	2515047.659	4.585	zone -13
965	344461.179	2515026.493	4.583	zone -13
966	344475.991	2514980.952	4.527	zone -13
967	344537.16	2514956.618	4.584	zone -13

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স্বাক্ষর (স্বাক্ষর ও সীলন)  
 প্রধান নির্বাহী কর্মকর্তা  
 জাতীয় সড়ক কর্তৃপক্ষ

*Rahman*

*A. H. S. Rahman*  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh





**Anisur Rahman**  
 Director  
 Prime Minister's Office  
 Government of Bangladesh

স্বাক্ষরিত (স্বাক্ষর করা হয়েছে)

Sl No.	Easting	Northing	RL (Z) in M (PWD)	Zone number
968	344085.781	2514938.774	4.535	zone -13
969	344507.233	2514885.162	4.536	zone -13
970	344505.073	2514897.719	4.555	zone -13
971	344521.345	2514894.929	4.546	zone -13
972	344498.797	2514918.273	4.494	zone -13
973	344532.574	2514880.534	4.582	zone -13
974	344526.408	2514864.664	4.585	zone -13
975	344531.115	2514848.54	4.555	zone -13
976	344550.888	2514836.532	4.545	zone -13
977	344549.111	2514847.775	4.553	zone -13
978	344541.495	2514828.809	4.544	zone -13
979	344544.583	2514808.697	4.506	zone -13
980	344546.675	2514819.103	4.54	zone -13
981	344544.402	2514815.692	4.509	zone -13
982	3445396.47	2515151.669	4.342	zone -13
983	344871.8	2514823.167	4.585	zone -13
984	345365.897	2514825.421	4.305	zone -13
985		Average Level =	4.211	
986	34602.7983	2514570.727	4.025	zone -17
987	346149.7986	2514595.862	-1.222	zone -17
988	346209.731	2514566.472	4.245	zone -17
989	346114.723	2514557.29	4.205	zone -17
990	345984.09	2514419.382	4.188	zone -17
991	346162.896	2514456.301	4.125	zone -17
992	346114.0798	2514511.857	4.430	zone -17
993	346257.103	2514513.113	3.985	zone -17
994	346380.042	2514582.528	3.985	zone -17
995	346409.401	2514522.873	3.283	zone -17
996	346329.649	2514469.181	4.345	zone -17
997	346301.573	2514637.892	3.912	zone -17
998	346306.782	2514499.133	3.912	zone -17
999	346288.7051	2514544.19	4.135	zone -17
1000	346795.544	2514593	3.945	zone -17
1001	345977.447	2514159.036	4.125	zone -17
1002	345538.583	2514115.089	4.312	zone -17
1003	345689.138	2514132.73	4.325	zone -17
1004	345873.363	2514172.39	4.272	zone -17
1005	345598.269	2513994.59	4.345	zone -17
1006	345697.329	2513959.606	4.387	zone -17
1007	345812.497	2514076.878	4.288	zone -17
1008	345722.938	2514211.508	4.349	zone -17
1009	345713.124	2514409.129	4.183	zone -17
1010	345715.173	2514485.566	4.205	zone -17
1011	345848.682	2514484.268	4.275	zone -17
1012	345645.016	2514474.202	4.245	zone -17
1013	345640.259	2514295.921	4.123	zone -17
1014	345430.942	2514333.93	4.225	zone -17
1015	345551.785	251447.706	3.905	zone -17
1016	346382.528	2514443.98	4.334	zone -17
1017	346374.674	2514443.3	3.812	zone -17
1018	346421.599	2514443.364	5.37	zone -17
1019	346396.979	251446.694	4.209	zone -17
1020	346428.423	2514419.183	4.323	zone -17
1021	346410.577	2514441.946	4.181	zone -17
1022	346403.271	2514443.395	2.866	zone -17
1023	34647.59	2514403.864	3.467	zone -17
1024	34640.458	2514383.186	3.366	zone -17

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স্বাক্ষরিত (স্বাক্ষর করা হয়েছে)

Sl No.	Easting	Northing	RL (Z) in M (PWD)	Zone number
1025	346464.558	2514334.635	4.264	zone -17
1026	346522.922	2514337.735	4.132	zone -17
1027	346553.532	2514379.044	4.394	zone -17
1028	346444.59	2514448.98	3.159	zone -17
1029	346429.898	2514435.603	3.379	zone -17
1030	346422.773	2514378.002	4.255	zone -17
1031	346303.148	2514417.110	3.299	zone -17
1032	346303.706	2514414.402	3.931	zone -17
1033	346281.352	2514406.378	3.947	zone -17
1034	346349.706	2514436.634	3.862	zone -17
1035	346355.635	2514473.095	3.837	zone -17
1036	346377.578	2514485.258	3.691	zone -17
1037	346402.016	2514496.397	4.277	zone -17
1038	346295.854	2514399.182	3.941	zone -17
1039	346389.344	2514373.856	4.275	zone -17
1040	346389.303	2514406.624	4.233	zone -17
1041	346418.149	2514415.687	4.206	zone -17
1042	346356.798	2514400.871	4.322	zone -17
1043	346324.554	2514408.837	3.265	zone -17
1044	346341.23	2514368.91	4.273	zone -17
1045	346331.263	2514380.313	3.747	zone -17
1046	345768.771	2513895.05	4.339	zone -17
1047	346165.95	2514249.17	4.069	zone -17
1048	346165.667	2514230.066	3.897	zone -17
1049	346206.1	2514263.239	3.96	zone -17
1050	346120.597	2514230.196	4.02	zone -17
1051	346099.812	2514279.624	3.939	zone -17
1052	346091.514	2514222.871	3.942	zone -17
1053	346126.362	2514250.014	4.075	zone -17
1054	346101.669	2514192.438	3.677	zone -17
1055	346212.129	2514237.664	4.081	zone -17
1056	346110.594	2514236.56	4.114	zone -17
1057	346206.449	2514223.263	3.146	zone -17
1058	346213.231	2514220.231	4.353	zone -17
1059	346217.632	2514179.104	3.939	zone -17
1060	346203.466	2514174.223	3.625	zone -17
1061	346211.142	2514199.544	3.899	zone -17
1062	345868.42	2514334.782	4.235	zone -17
1063	345970.397	2514287.144	4.305	zone -17
1064	345975.831	2514350.679	3.925	zone -17
1065	345805.918	2514392.277	4.235	zone -17
1066	346264.653	2514334.14	3.986	zone -17
1067	346223.773	2514332.61	3.96	zone -17
1068	346261.718	2514370.541	3.606	zone -17
1069	346188.748	2514297.264	3.821	zone -17
1070	346119.664	2514307.585	3.784	zone -17
1071	346121.085	2514278.635	3.962	zone -17
1072	346105.196	2514302.602	4.225	zone -17
1073	346154.537	2514288.218	3.936	zone -17
1074	346186.865	2514325.961	3.694	zone -17
1075	346148.646	2514317.472	3.935	zone -17
1077	346167.015	2514118.131	3.961	zone -17
1078	346154.354	2514129.874	3.902	zone -17
1079	346154.413	2514129.552	3.866	zone -17
1080	346140.758	2514129.556	3.892	zone -17
1081	346093.79	2514150.344	3.954	zone -17

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স্বরাষ্ট্র মন্ত্রণালয়  
জমি, শহর পরিকল্পনা ও নির্মাণ  
বিভাগ

স্বাক্ষর (স্বাক্ষর সহ ও সিকি)  
স্বাক্ষর (স্বাক্ষর সহ ও সিকি)

*Rahman*

**Rahman**  
Director  
The Minister's Office  
People's Republic of Bangladesh



**M. Isur Rahman**  
 Director  
 Prime Minister's Office  
 Government of the People's Republic of Bangladesh

Sl No	Easting	Northing	RL (Z) in M (PWD)	Zone number
1082	346102.862	2514142.799	3.759	zone -17
1083	346130.754	2514138.593	3.974	zone -17
1084	346171.832	2514109.725	3.986	zone -17
1085	346101.98	2514052.238	4.342	zone -17
1086	345873.109	2513971.467	4.345	zone -17
1087	345992.294	2513982.344	4.325	zone -17
1088	346216.834	2514138.146	3.88	zone -17
1089	346201.409	2514112.073	3.975	zone -17
1090	346194.831	2514133.366	3.94	zone -17
1091	346330.688	2514117.21	3.818	zone -17
1092	346767.521	2514188.455	4.282	zone -17
1093	346276.429	2514189.652	4.112	zone -17
1094	346269.969	2514179.177	4.261	zone -17
1095	346256.909	2514187.349	3.762	zone -17
1096	346205.972	2514231.327	3.349	zone -17
1097	346248.711	2514205.568	3.9	zone -17
1098	346284.698	2514192.289	3.979	zone -17
1099	346272.388	2514184.41	3.208	zone -17
1100	346116.852	2514179.129	3.902	zone -17
1101	346116.311	2514158.077	3.943	zone -17
1102	346093.229	2514150.355	3.956	zone -17
1103	346156.347	2514185.218	3.967	zone -17
1104	346279.082	2514135.537	3.841	zone -17
1105	346269.43	2514159.699	3.919	zone -17
1106	346157.944	2514169.49	3.928	zone -17
1107	346882.672	2513982.112	3.974	zone -17
1108	346646.598	2513924.741	4.026	zone -17
1109	346702.308	2513965.607	4.372	zone -17
1110	346658.764	2514004.026	4.455	zone -17
1111	346653.764	2513988.029	4.078	zone -17
1112	346648.64	2513990.154	3.648	zone -17
1113	346668.011	2514007.256	4.351	zone -17
1114	346730.723	2514008.116	4.201	zone -17
1115	346871.645	2513953.117	4.372	zone -17
1116	346879.576	2513970.866	3.376	zone -17
1117	346899.976	2513946.496	4.28	zone -17
1118	346790.633	2513965.998	4.192	zone -17
1119	346748.415	2513990.606	4.2	zone -17
1120	346764.904	2513971.9	4.17	zone -17
1121	346829.469	2513982.971	4.381	zone -17
1122	346678.527	2514123.817	4.79	zone -17
1123	346650.173	2514058.783	3.327	zone -17
1124	346674.145	2514074.316	4.23	zone -17
1125	346655.227	2514115.27	4.217	zone -17
1126	346580.471	2514082.383	4.224	zone -17
1127	346614.437	2514097.299	4.167	zone -17
1128	346622.963	2514070.674	4.172	zone -17
1129	346717.391	2514092.747	4.317	zone -17
1130	346765.806	2514048.05	4.444	zone -17
1131	346638.609	2514000.607	4.178	zone -17
1132	346630.959	2514005.661	3.687	zone -17
1133	346741.83	2514071.287	4.444	zone -17
1134	346668.729	2514087.563	4.18	zone -17
1135	346831.936	2514084.939	3.328	zone -17
1136	346709.654	2514042.282	4.305	zone -17
1137	346750.445	2513975.391	4.172	zone -17
1138	346326.167	2513947.594	4.241	zone -17

স্বাক্ষরিত (স্বাক্ষরিত)  
 স্বাক্ষরিত (স্বাক্ষরিত)  
 স্বাক্ষরিত (স্বাক্ষরিত)

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Sl.No.	Easting	Northing	Rt (Z) in M (PWD)	Zone number
1139	346392.883	2513958.454	4.259	zone -17
1140	346709.067	2513873.743	3.891	zone -17
1141	346664.797	2513863.963	3.868	zone -17
1142	346679.302	2513890.565	3.893	zone -17
1143	346677.442	2513841.794	3.855	zone -17
1144	346406.268	2513967.078	2.306	zone -17
1145	346551.549	2513958.503	3.887	zone -17
1146	346605.895	2513951.064	3.989	zone -17
1147	346579.082	2513927.422	3.785	zone -17
1148	346502.281	2513963.962	3.859	zone -17
1149	346457.889	2513952.115	3.702	zone -17
1150	346483.818	2513934.991	3.795	zone -17
1151	346504.448	2513944.307	3.842	zone -17
1152	346838.246	2513899.583	4.236	zone -17
1153	346738.607	2513929.393	4.093	zone -17
1154	346738.044	2513909.781	4.239	zone -17
1155	346812.357	2513923.519	4.19	zone -17
1156	346877.358	2513922.37	4.296	zone -17
1157	346901.145	2513917.051	3.046	zone -17
1158	346789.329	2513983.479	4.025	zone -17
1159	346734.808	2513913.632	3.877	zone -17
1160	346736.672	2513857.923	3.065	zone -17
1161	346760.126	2513881.581	4.031	zone -17
1162	346608.505	2513996.055	3.814	zone -17
1163	346738.112	2513932.51	4.004	zone -17
1164	346743.771	2513930.534	3.068	zone -17
1165	346740.697	2513930.524	3.473	zone -17
1166	346729.214	2513917.789	3.977	zone -17
1167	346626.98	2514072.921	4.24	zone -17
1168	346500.423	2513985.636	3.663	zone -17
1169	346433.889	2514004.201	2.736	zone -17
1170	346439.29	2514004.296	3.962	zone -17
1171	346492.309	2513989.45	3.172	zone -17

*Rahim*  
 মহাপরিচালক (সি.এ.এ.সি.)  
 বাংলাদেশ সড়ক পরিবহন ও মواصلতা মন্ত্রণালয়

*Rahim*  
 সিনিয়র সিস্টেম এনালিস্ট (সি.এ.এ.সি.)  
 সিস্টেম এনালিস্ট (সি.এ.এ.সি.)  
 সিস্টেম এনালিস্ট (সি.এ.এ.সি.)

*Rahim*  
 Anisur Rahman  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh





**Anisur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

S/No.	Easting	Northing	RI (Z) in M (PWD)	Zone number
1172	346512.258	2514014.502	3.793	zone -17
1173	346535.605	2514012.391	2.838	zone -17
1174	346504.272	2513994.738	2.706	zone -17
1175	346444.131	2514017.567	4.004	zone -17
1176	346401.552	2513986.102	2.21	zone -17
1177	346307.281	2514016.506	3.771	zone -17
1178	346308.907	2513986.759	3.866	zone -17
1179	346404.837	2513973.725	2.933	zone -17
1180	346452.923	2513981.784	3.889	zone -17
1181	346466.173	2514024.697	3.944	zone -17
1182	346478.103	2513995.458	3.701	zone -17
1183	346542.987	2514272.283	4.225	zone -17
1184	346570.713	2514259.863	4.225	zone -17
1185	346540.913	2514236.481	4.236	zone -17
1186	346521.847	2514301.199	4.308	zone -17
1187	346499.096	2514335.585	4.276	zone -17
1188	346497.434	2514330.513	4.303	zone -17
1189	346506.954	2514295.341	4.227	zone -17
1190	346553.436	2514247.687	4.277	zone -17
1191	346577.952	2513981.133	3.973	zone -17
1192	346529.631	2513982.971	3.883	zone -17
1193	346503.814	2514033.538	3.932	zone -17
1194	346581.878	2514235.742	4.298	zone -17
1195	346565.317	2514254.96	4.351	zone -17
1196	346572.757	2514242.18	4.496	zone -17
1197	346569.061	2514229.301	4.261	zone -17
1198	346387.576	2514182.523	4.198	zone -17
1199	346546.296	2514053.43	3.995	zone -17
1200	346573.138	2514013.873	3.946	zone -17
1201	346574.542	2514207.614	4.265	zone -17
1202	346551.342	2514172.588	4.175	zone -17
1203	346618.714	2514193.037	4.356	zone -17
1204	346618.677	2514194.074	4.345	zone -17
1205	346560.951	2514007.163	3.986	zone -17
1206	346603.782	2514064.868	4.249	zone -17
1207	346627.454	2514085.526	4.389	zone -17
1208	346612.234	2514057.426	4.249	zone -17
1209	346591.643	2514052.771	3.418	zone -17
1210	346553.574	2514035.314	3.923	zone -17
1211	346571.253	2514032.666	4.171	zone -17
1212	346618.655	2514020.382	4.287	zone -17
1213	346729.462	2514073.932	3.871	zone -17
1214	346775.035	2514031.251	3.755	zone -17
1215	346536.671	2514068.143	3.897	zone -17
1216	346312.393	2514036.974	3.903	zone -17
1217	346323.395	2513990.37	3.853	zone -17
1218	346352.348	2514010.462	3.838	zone -17
1219	346377.289	2514017.319	4.271	zone -17
1220	346325.327	2514108.753	3.941	zone -17
1221	346508.791	2514159.752	4.193	zone -17
1222	346504.59	2514183.949	4.231	zone -17
1223	346545.205	2514136.932	4.245	zone -17
1224	346462.752	2514148.746	4.227	zone -17
1225	346400.54	2514101.924	3.975	zone -17
1226	346360.774	2514037.532	3.763	zone -17
1227	346427.336	2514137.05	4.043	zone -17
Average Level =			3.963	

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*for info*

*স্বাক্ষর*  
 দায়িত্ব (দায়িত্ব)  
 প্রধান (প্রধান)  
 প্রধান (প্রধান)

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**Anisur Rahman**  
 Director's Office  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

*Signature*  
**দয়ানন্দ দেবনাথ**  
 মুগলচিৎ  
 ব্যবস্থাপক (এম আই এম ও গবেষণা)

*Signature*  
 বাংলাদেশ জেলা প্রশাসন  
 মুগলচিৎ  
 মুগলচিৎ

*Signature*  
**Dr. V.G. Hiremath**  
 Team Leader  
 aarvee -BETS JV  
 IAS FOR O&S of Infrastructure Works at Mega-6  
 Bangladesh Economic Zone Authority



*Anisur Rahman*  
Anisur Rahman  
Director  
Prime Minister's Office  
Govt. of the People's Republic of Bangladesh



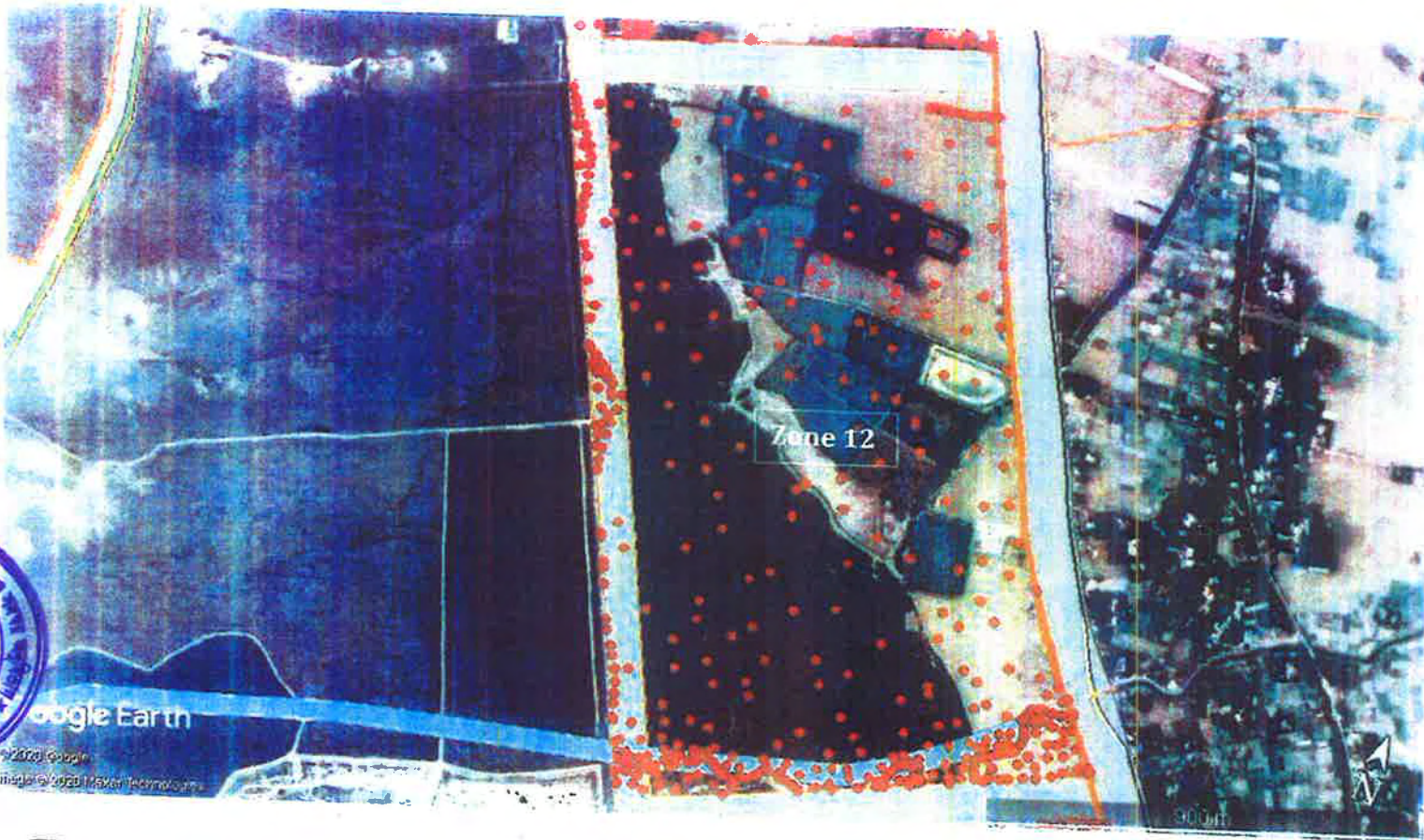
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*[Signature]*

*[Signature]*  
দয়ানন্দ দেবনাথ  
মুদ্রাসচিব  
ব্যবস্থাপক (এম আই এস ও গবেষণা)

*[Signature]*

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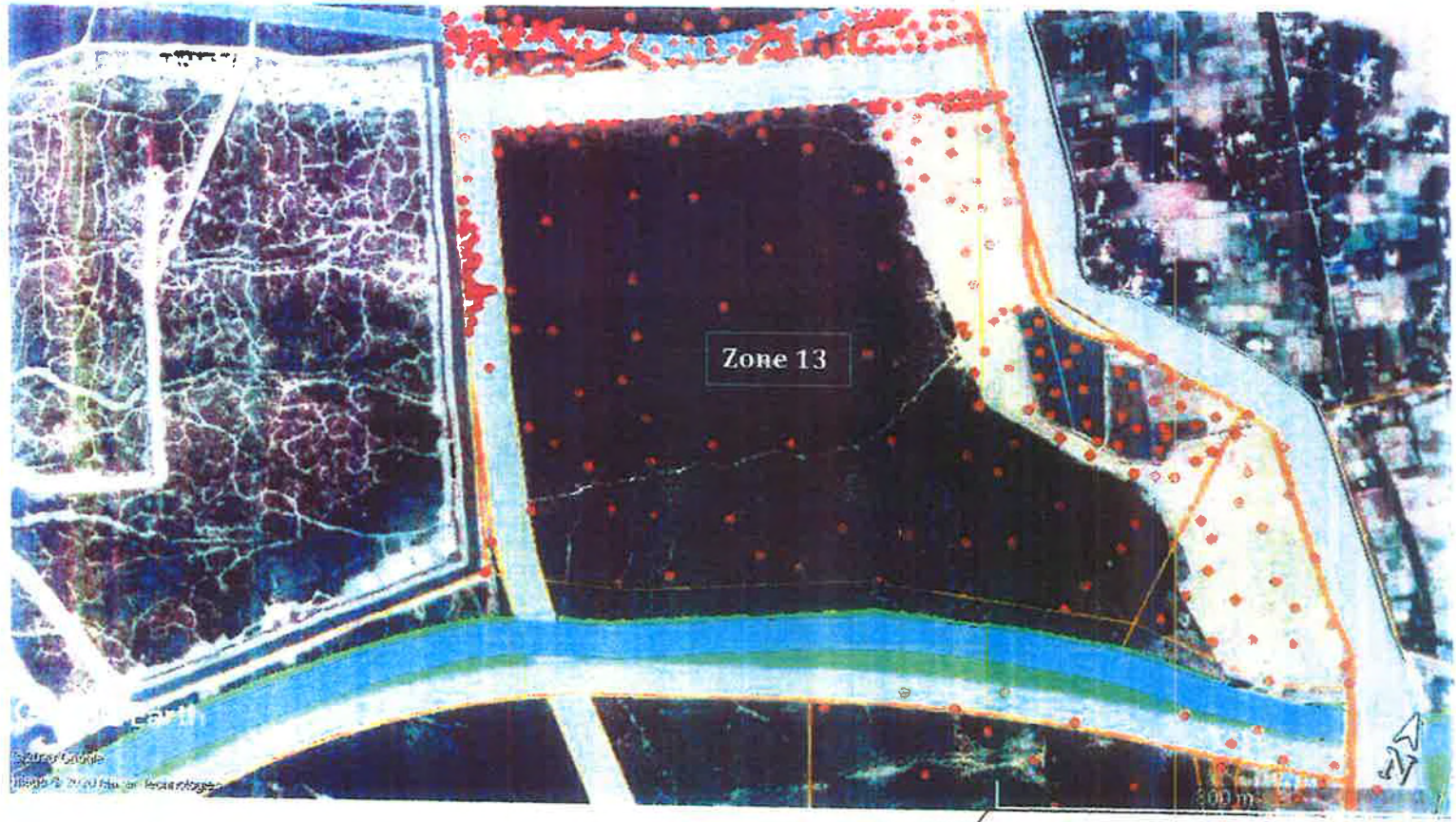
**Anisur Rahman**  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

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*[Handwritten signature]*  
**দয়ানন্দ দেবনাথ**  
 যুগ্মসচিব  
 ব্যবস্থাপক (এম আই এস ও গবেষণা)

*[Handwritten signature]*  
 সচিব (স্বাস্থ্য) (সি.সি.)  
 বি.সি.সি. বিভাগ  
 কেম্পাস, প.সি.সি. মন্ত্রণালয়

*Anisur Rahman*  
Anisur Rahman  
Director  
Prime Minister's Office  
Govt. of the People's Republic of Bangladesh



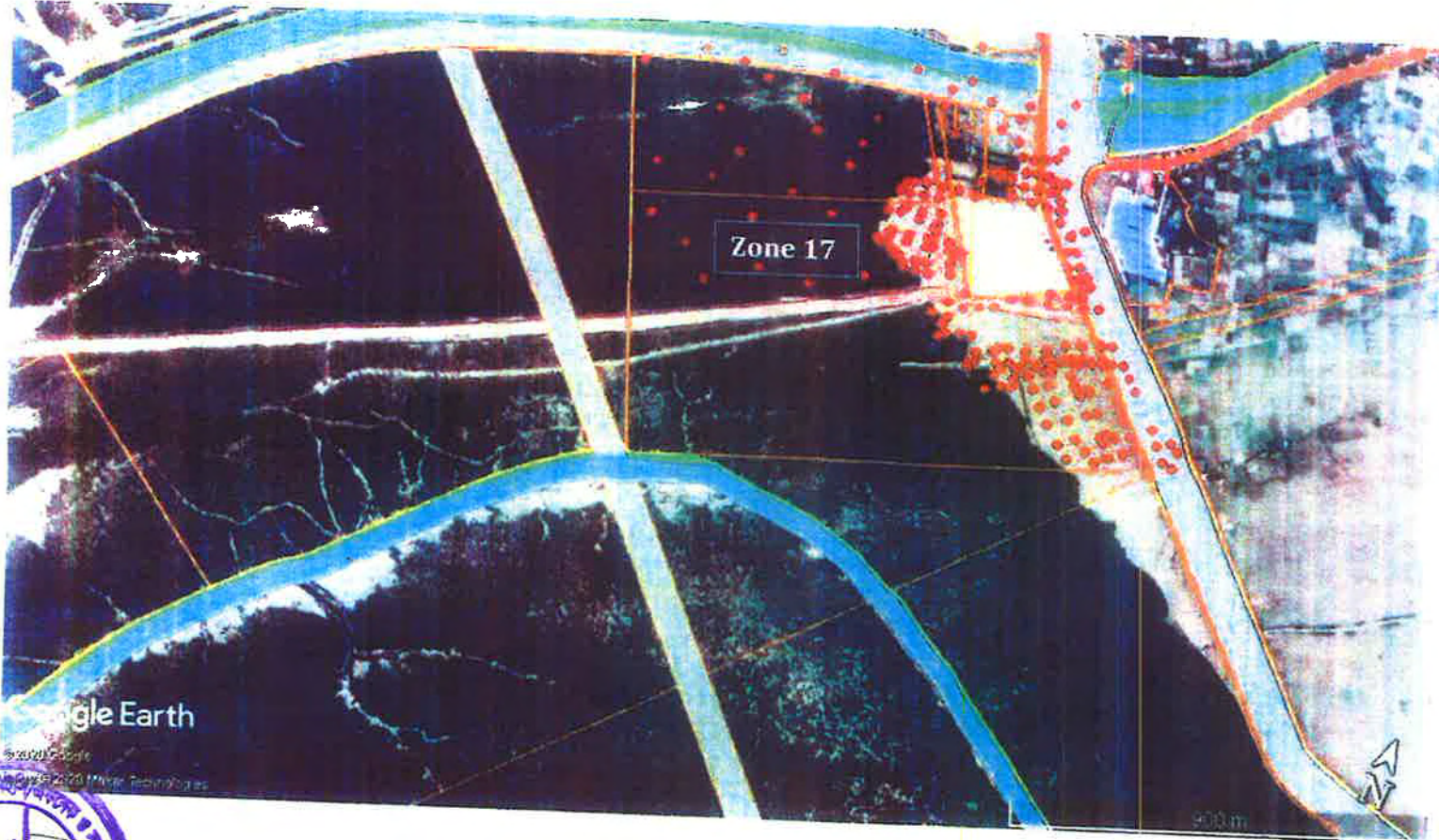
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*Farzana*

*দীনন্দ*  
দীনন্দ দেবনাথ  
মুগ্ধাচিব  
স্বরাষ্ট্রপত্র (এম আই এস ও গবেষণা)

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*Anisur Rahman*  
 Anisur Rahman  
 প্রধানমন্ত্রীর  
 কার্যালয় (এস আই এল ও পবেক্যা)

*Anisur Rahman*  
 Anisur Rahman  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

*Rahman*  
 প্রধানমন্ত্রীর কার্যালয় (এস আই এল ও পবেক্যা)  
 গণপ্রজাতন্ত্রী বাংলাদেশ  
 পরিচালনা কমিটিন, পরিচালনা নথিগালনা

**TOR for Individual Consultants [Component (1, 2 & 3)] of Bangabandhu Sheikh Mujib Shilpa Nagar (BSMSN) Development Project**

Name of the Post	No. of Post	Qualifications	Mode of Recruitment	Responsibilities/ Accountabilities	Remarks
1	2	3	4	5	6
1. Component Coordinator (for comp. 1 & 3)	01	<ul style="list-style-type: none"> <li>Bachelor in Engineering or Master Degree in any discipline or equivalent.</li> <li>The individual who have experience in project management particularly in EZ development will be given preference.</li> </ul>	Competitive Selection	<ul style="list-style-type: none"> <li>Support to PD/DPD to implement the project on times especially package 1 &amp; 3</li> <li>Ensure the safeguards issues of BSMSN as well as others EZs</li> <li>Support to Planning and coordination of a program and its activities</li> <li>Maintaining budget and tracking expenditures/transactions</li> <li>To undertake a variety of administrative and program management tasks</li> <li>Help in planning and organizing programs and activities as well as carry out important operational duties</li> <li>Help build positive relations within the team and external parties</li> <li>Manage communications through media relations, social media etc.</li> <li>Schedule and organize meetings/events and maintain agenda</li> <li>Work with diversity and multi-disciplinary teams</li> <li>Monitor the development and construction activities</li> <li>Responsible for preparing project document related to infrastructure development issues;</li> <li>Perform day to day monitoring schedule for all projects under BEZA;</li> <li>Prepare implementation monitoring plan for all projects implemented by BEZA;</li> <li>Ensure baseline infrastructure related project documents are produced, maintained and effectively used.</li> <li>Ensure assigned projects are correctly planned and managed during execution.</li> <li>Monitor and control financial status of project.</li> <li>Report financial, resources, technical issues, customer satisfaction status of assigned projects to management.</li> <li>Identify important potential risks related to project. Establish and execute detailed plans to ensure risks are mitigated and opportunities are realized.</li> <li>Develop overall project plans for cross-organizational projects, consistent with specific project objectives as defined by project owner and key stakeholders.</li> <li>Ensure assigned individuals are executing identified and assigned tasks.</li> </ul>	<ul style="list-style-type: none"> <li>10 years working experience with exposure of implementation of project, as a consultant or Project Coordinator/Team Leader/ Deputy Team Leader in development project;</li> <li>Should have sufficient knowledge of Project Implementation and Management in Development Assisted project;</li> <li>Good communication and coordination skills;</li> </ul>
2. Component Coordinator (for comp. 2)	01	<ul style="list-style-type: none"> <li>Bachelor in civil engineering or equivalent degree</li> <li>The individual who have experience in project management will be given preference.</li> </ul>	Competitive Selection.	<ul style="list-style-type: none"> <li>Support to PD/DPD to implement the project on times especially package 1 &amp; 3</li> <li>Ensure the safeguards issues of BSMSN as well as others EZs</li> <li>Support to Planning and coordination of a program and its activities</li> <li>Maintaining budget and tracking expenditures/transactions</li> <li>To undertake a variety of administrative and program management tasks</li> </ul>	<ul style="list-style-type: none"> <li>10 years working experience with exposure of implementation of project, as a consultant or Project Coordinator/Team Leader/ Deputy Team Leader in development project;</li> <li>Should have sufficient knowledge of Project Implementation and</li> </ul>



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 Anisur Rahman  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

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 দায়িত্ব

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**TOR for Individual Consultants [Component (1, 2 & 3)] of Bangabandhu Sheikh Mujib Shilpa Nagar (BSMSN) Development Project**



Govt. of the People's Republic of Bangladesh  
 Prime Minister's Office  
 Director  
**Anisur Rahman**

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Name of the Post	No. of Post	Qualifications	Mode of Recruitment	Responsibilities/ Accountabilities	Remarks
				<ul style="list-style-type: none"> <li>• Help in planning and organizing programs and activities as well as carry out important operational duties</li> <li>• Help build positive relations within the team and external parties</li> <li>• Manage communications through media relations, social media etc.</li> <li>• Schedule and organize meetings/events and maintain agenda</li> <li>• Work with diversity and multi-disciplinary teams</li> <li>• Monitor the development and construction activities</li> <li>• Responsible for preparing project document related to infrastructure development issues;</li> <li>• Perform day to day monitoring schedule for all projects under BEZA;</li> <li>• Prepare implementation monitoring plan for all projects implemented by BEZA;</li> <li>• Ensure baseline infrastructure related project documents are produced, maintained and effectively used.</li> <li>• Ensure assigned projects are correctly planned and managed during execution.</li> <li>• Monitor and control financial status of project.</li> <li>• Report financial, resources, technical issues, customer satisfaction status of assigned projects to management</li> <li>• Identify important potential risks related to project. Establish and execute detailed plans to ensure risks are mitigated and opportunities are realized.</li> <li>• Develop overall project plans for cross-organizational projects, consistent with specific project objectives as defined by project owner and key stakeholders.</li> <li>• Ensure assigned individuals are executing identified and assigned tasks.</li> </ul>	Management in Infrastructure project; • Good communication and coordination skills.
3. PPP Senior Advisor (International)	03	<ul style="list-style-type: none"> <li>• Master degree in any discipline or equivalent.</li> <li>• Professional degree in PPP from any internationally recognized institution will be given preference.</li> </ul>	Competitive Selection	<ul style="list-style-type: none"> <li>• Support to prepare PPP documents on Sewer Network, Water Supply, Power Network, Storm Water, Central Effluent Treatment Plant, Rooftop and floating solar, Steam network, Solid Waste Management, Biogas plant, waste sorting and material recovery facility, PPP master developers etc.</li> <li>• Support to implement PPP project &amp; Capacity building of BEZA PPP unit</li> <li>• Provide technical support in identification of capacity gaps;</li> <li>• Policy advice and support through technical assistance to the national counterparts;</li> <li>• Specify the necessary unit needs to be established to manage the sectorial PPP projects;</li> <li>• Any other task assigned by the authority.</li> </ul>	<ul style="list-style-type: none"> <li>• 15 years working experience with exposure of implementation of project, as PPP consultant</li> <li>• Should have sufficient knowledge of Project Implementation and Management in Development Assisted project;</li> <li>• Good communication and coordination skills</li> <li>• Post-Graduation on PPP is plus to be eligible.</li> </ul>
4. PPP Senior Advisor (Local)	01	<ul style="list-style-type: none"> <li>• Master degree in any discipline or equivalent.</li> <li>• Professional certification in PPP from any internationally</li> </ul>	Competitive Selection	<ul style="list-style-type: none"> <li>• Support to prepare PPP documents on Sewer Network, Water Supply, Power Network, Storm Water, Central Effluent Treatment Plant, Rooftop and floating solar, Steam network, Solid Waste Management, Biogas plant, waste sorting and material recovery</li> </ul>	<ul style="list-style-type: none"> <li>• 10 years working experience with exposure of implementation of project,</li> <li>• Minimum 5 (five) years' experience</li> </ul>

*(Signature)*  
 দায়িত্ব প্রাপ্ত  
 প্রকল্প পরিচালক  
 (সি.এ.স. ও পাবনা)

*(Signature)*  
 প্রকল্প পরিচালক  
 (সি.এ.স. ও পাবনা)

**TOR for Individual Consultants [Component (1, 2 & 3)] of Bangabandhu Sheikh Mujib Shilpa Nagar (BSMSN) Development Project**

Name of the Post	No. of Post	Qualifications	Mode of Recruitment	Responsibilities/ Accountabilities	Remarks
		recognized institution will be given preference.		<ul style="list-style-type: none"> <li>facility, PPP master developers etc.</li> <li>Support to implement PPP project &amp; Capacity building of BEZA PPP unit</li> <li>Provide technical support in identification of capacity gaps;</li> <li>Policy advice and support through technical assistance to the national counterparts;</li> <li>Specify the necessary unit needs to be established to manage the sectorial PPP projects;</li> <li>Any other task assigned by the authority.</li> </ul>	<ul style="list-style-type: none"> <li>in PFP economic zone development including joint venture agreement, land lease agreement, development agreement etc.</li> <li>Should have sufficient knowledge of Project Implementation and Management in Development Assisted project;</li> <li>Good communication and coordination skills</li> </ul>
5. PPP Consultant (Local)	02	<ul style="list-style-type: none"> <li>Master degree in any discipline or equivalent</li> <li>Professional degree in Policy Analysis or Certification in International Trade, Procurement Management or PPP from any internationally recognized institution will be given preference.</li> </ul>	Competitive Selection	<ul style="list-style-type: none"> <li>Support to prepare PPP documents on Sewer Network, Water Supply, Power Network, Storm Water, Central Effluent Treatment Plant, Rooftop and floating solar, Steam network, Solid Waste Management, Biogas plant, waste sorting and material recovery facility, PPP master developers etc.</li> <li>Support to implement PPP project &amp; Capacity building of BEZA PPP unit</li> <li>Provide technical support in identification of capacity gaps;</li> <li>Policy advice and support through technical assistance to the national counterparts;</li> <li>Specify the necessary unit needs to be established to manage the sectorial PPP projects;</li> <li>Any other task assigned by the authority.</li> </ul>	<ul style="list-style-type: none"> <li>10 years working experience with exposure of implementation of project,</li> <li>Minimum 2 (two) years' experience in PPP economic zone development including joint venture agreement, land lease agreement, development agreement etc.</li> <li>Should have sufficient knowledge of Project Implementation and Management in Development Assisted project;</li> <li>Good communication and coordination skills</li> </ul>
6. Legal Consultant	01	<ul style="list-style-type: none"> <li>Master degree with Graduation (Hon's) in Law from public University or equivalent.</li> </ul>	Competitive Selection	<ul style="list-style-type: none"> <li>Legislative drafting of Rules, Regulation, Procedure and Policy;</li> <li>Providing legal opinion on critical legal issues;</li> <li>Amendment of laws, rules and regulations wherever required ;</li> <li>Advising on labor-related Issues under Labor Law as adopted in BEZA;</li> <li>Time to time review of BEZA's Laws, Rules, Procedure, Developer Agreement, RFP documents, Private EZ Developer and Operator Agreements, PEZ licenses, Land Lease Agreements and other legal instruments and preparation of draft of amendment/ modification and adjustment of changes in those legal instrument ;</li> <li>Case Management, preparation of statement of facts and Affidavit in Opposition in law suits/writ cases and assisting BEZA for taking measures for properly defending BEZA in law suits /writ cases;</li> <li>Preparation of draft SROs and Gazette notifications including for incentives, zone declaration, time to time decisions of BEZA Governing Board;</li> <li>Drafting and examining the Agreements with PPP, PEZ and G2G model Developers;</li> <li>Vetting of prequalification letters and licenses for PEZs;</li> <li>Drafting memorandum of Understanding.</li> </ul>	<ul style="list-style-type: none"> <li>Minimum 10 (ten) years' experience in Judicial Services with at least 3 (three) years as District Judge.</li> <li>Preference will be given to candidates having proven experience in legislative drafting of laws, rules, regulations, government notifications and amendment thereof and other legal and administrative instruments in the government offices, experience in providing legal opinion, case management including drafting of replies to the court cases and legal notices and in discharging project related responsibilities.</li> <li>Experience in preparing legal instruments, for establishment and development of EZ, and SEZ will get priority.</li> </ul>

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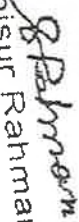
Prime Minister's Office  
Govt. of the People's Republic of Bangladesh




Director  
 Ashraf Rahman  
 ১৯/০৬/২০১৬  
 ১৯/০৬/২০১৬  
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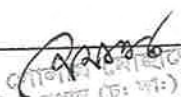
**TOR for Individual Consultants [Component (1, 2 & 3)] of Bangabandhu Sheikh Mujib Shilpa Nagar (BSMSN) Development Project**



Name of the Post	No. of Post	Qualifications	Mode of Recruitment	Responsibilities/ Accountabilities	Remarks
<p align="center">   <b>Anisur Rahman</b>                      Director                      Prime Minister's Office                      Government of the People's Republic of Bangladesh                 </p>				<ul style="list-style-type: none"> <li>Assisting BEZA Officials in day to day administrative and Zone related activities involving legal issues;</li> <li>Educating the BEZA officials on BEZA's legal framework;</li> <li>Drafting reply to Legal Notices demanding justice;</li> <li>keeping Liaison with Solicitor, Attorney General, concerned DAG/ Privately engaged Lawyer in respect of suits/ writ petitions and with Prime Minister's Office and Ministry of Law in respect of legislative activities;</li> <li>Preparation of legal documents for dispute resolution,</li> <li>Providing consultation services on legal issues involved in BEZA's day to day decision making process;</li> <li>Vetting/examining of papers and legal documents prepared by BEZA Officials/coming from outside;</li> <li>Providing consultancy services for smooth implementation of One Stop Service Act and Rules;</li> <li>Advisory services to investors on clarification of legal issues as may be required time to time;</li> <li>Translation of legal instruments from Bangla to authentic English text;</li> <li>Any other relevant tasks as BEZA may assign time to time on matters involving legal issues that may arise during development and operational phase of economic zones.</li> </ul>	
<p>7. Investment Promotion Consultant</p>	<p align="center">01</p>	<ul style="list-style-type: none"> <li>The candidate should have Master's degree in Business Administration, Accounting, Management, Finance, Economics, Marketing, or equivalent.</li> </ul>	<p align="center">Competitive Selection</p>	<ul style="list-style-type: none"> <li>Implementation of IP strategy of BEZA and IUP related policy formulation and Review;</li> <li>Examine existing rules, policies and procedures followed for Economic Zone (Zone) development.</li> <li>Advise preparation of pragmatic policies and rules for better investment facilitation.</li> <li>Render advisory service to Private sector zone developer under BEZA.</li> <li>Liaison and Review of policy activities done by Transaction Advisory (TAS) Firms.</li> <li>Investment Promotion:</li> <li>Review and update Investment promotion program of Zone.</li> <li>Provide updated global investment opportunities and recommend strategies.</li> <li>Formulate Unique Selling Point (USP) for investment promotion campaign.</li> <li>Promotional booklets and compilation of rules and procedures.</li> <li>Formulate media advertisement plan for BEZA.</li> <li>Prepare seminar and Road show program for BEZA.</li> <li>Maintain constant liaison with prospective investors both local and foreign.</li> <li>Maintain liaison with foreign embassies in Bangladesh and our</li> </ul>	<ul style="list-style-type: none"> <li>10 years working experience with exposure of Investment Promotion, Taxation etc.;</li> <li>Should have sufficient knowledge of Investment Promotion;</li> <li>Experience of preparation of IP strategy and promotional material's</li> <li>In-depth knowledge of incentives for development of EZs</li> <li>Experience of investment promotion trend globally;</li> <li>Organize investment promotion road-show, seminar and workshop;</li> <li>Experience of work for development of EZ will get priority.</li> <li>Good communication and coordination skills</li> </ul>

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 প্রকল্প পরিচালক  
 বাংলাদেশ জেলা প্রশাসন  
 গাজীপুর জেলা  
 গাজীপুর

  
 প্রকল্প পরিচালক  
 উপ-প্রকল্প (সি: পি):  
 শিল্প ও শক্তি বিভাগ  
 বাংলাদেশ সরকার, পদ্মনগর, ঢাকা

**TOR for Individual Consultants [Component (1, 2 & 3)] of Bangabandhu Sheikh Mujib Shilpa Nagar (BSMSN) Development Project**

Name of the Post	No. of Post	Qualifications	Mode of Recruitment	Responsibilities/ Accountabilities	Remarks
				<ul style="list-style-type: none"> <li>missions abroad.</li> <li>Provide investment advisory service to investors of BEZA. Formulate Investment Tracking system to monitor and expedite investment decision. Investment Advisory service to investors in getting incentives.</li> <li>Formulate updated One Stop Service for investors of BEZA suggesting implementation.</li> <li>Advise Zone Developers responsibility and rights.</li> </ul>	
8. Procurement Consultant	02	<ul style="list-style-type: none"> <li>B. Sc. in Engineering or Masters in Economics/Statistics/Finance/ Procurement/Law or any other relevant field.</li> <li>Professional degree in Procurement from any internationally recognized institution will be given preference.</li> </ul>	Competitive Selection.	<ul style="list-style-type: none"> <li>Developing procurement plan for the project in consultant with the PIU and CCU</li> <li>Monitoring and updating the procurement plan on a regular (quarterly) basis</li> <li>Ensuring that all procurement is carried out according to WBG and GoB guidelines</li> <li>Monitoring the contracts and implementation of activities so that they are in harmony with the project development objectives (PDO) and the budget estimates</li> <li>Working with technical staff, consultants, and PD/DPD of the project for preparation of bidding documents</li> <li>Monitoring and ensuring that all bidding/tendering process is free, fair and transparent</li> <li>Coordinating project activities and progress with relevant stakeholders</li> <li>Reviewing and anticipating potential issues on procurement or any other issues and bringing to the attention of the PD</li> <li>Monitoring and keeping track of the deliverables of consulting services and goods/works</li> <li>Following up with Technical Evaluation Committees on short-listing and proposal evaluations</li> <li>Building capacity and transferring knowledge to GoB and local staff on procurement issues</li> <li>Coordinating closely with the ERD (CCU) and IMED and maintaining regular flow of information on procurement matters of the project</li> <li>Preparing quarterly, annual and semi-annual reports and other required reports for the WB and the Government, and</li> <li>Participating in meetings and committees related to the project and delivering opinion and making decisions (where applicable)</li> </ul>	<ul style="list-style-type: none"> <li>At least 10 years' experience is required with exposure of implementing similar project especially Foreign or World Bank funded project,</li> <li>Prior experience in procurement and contract/project management is required.</li> <li>Knowledge of international procurement is preferred.</li> <li>Good communication and coordination skills;</li> </ul>
9. Jr. Procurement Consultant	03	<ul style="list-style-type: none"> <li>B. Sc. in Engineering or Masters in Economics/Statistics/Finance/ Procurement/Law or any other relevant field.</li> <li>Professional degree in</li> </ul>	Competitive Selection	<ul style="list-style-type: none"> <li>Developing procurement plan for the project in consultant with the PIU and CCU</li> <li>Monitoring and updating the procurement plan on a regular (quarterly) basis</li> <li>Ensuring that all procurement is carried out according to WBG and GoB guidelines</li> </ul>	<ul style="list-style-type: none"> <li>At least 5 years' experience is required with exposure of implementing similar project especially Foreign or World Bank funded project,</li> <li>Prior experience in procurement and</li> </ul>

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*Anisur Rahman*  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh



*স্বাক্ষরিত*  
 মহানগরী সেকেন্ডারী  
 বাসভবন  
 বাহাদুর (এম খান এল এম গংগাবন্দা)

*২২৪৪৬*  
 গণপ্রজাতন্ত্রী বাংলাদেশ  
 স্বরাষ্ট্র মন্ত্রণালয়  
 পত্রিকার কার্যালয়, পল্লী ও শান্তি বিভাগ  
 পল্লীকল্যাণ কমিশন, পল্লীকল্যাণ মহলায়

# TOR for Individual Consultants [Component (1, 2 & 3)] of Bangabandhu Sheikh Mujib Shilpa Nagar (BSMSN) Development Project



Anisur Rahman  
 Director  
 Prime Minister's Office  
 Government of the People's Republic of Bangladesh

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Name of the Post	No. of Post	Qualifications	Mode of Recruitment	Responsibilities/ Accountabilities	Remarks
		Procurement from any internationally recognized institution will be given preference.		<ul style="list-style-type: none"> <li>Monitoring the contracts and implementation of activities so that they are in harmony with the project development objectives (PDO) and the budget estimates</li> <li>Working with technical staff, consultants, and PD/DPD of the project for preparation of bidding documents</li> <li>Monitoring and ensuring that all bidding/tendering process is free, fair and transparent</li> <li>Coordinating project activities and progress with relevant stakeholders</li> <li>Reviewing and anticipating potential issues on procurement or any other issues and bringing to the attention of the PD</li> <li>Monitoring and keeping track of the deliverables of consulting services and goods/works</li> <li>Following up with Technical Evaluation Committees on short-listing and proposal evaluations</li> <li>Building capacity and transferring knowledge to GoB and local staff on procurement issues</li> <li>Coordinating closely with the ERD (CCU) and IMED and maintaining regular flow of information on procurement matters of the project</li> <li>Preparing quarterly, annual and semi-annual reports and other required reports for the WB and the Government, and</li> <li>Participating in meetings and committees related to the project and delivering opinion and making decisions (where applicable)</li> </ul>	contract/project management is required. • Knowledge of international procurement is preferred. • Good communication and coordination skills.
10. Contract Management Specialist	01	<ul style="list-style-type: none"> <li>Bachelor's in Civil/ Structural Engineering or Master's degree in Project Management, Procurement and Supply Chain Management, or other relevant technical area.</li> <li>Candidate having professional certificate in International Trade, Procurement Management or similar will be given priority.</li> <li>Contract management specialists should have excellent written, proofreading, and verbal communication skills.</li> </ul>	Competitive Selection	<ul style="list-style-type: none"> <li>This position is responsible for all aspects of contract-related activities</li> <li>Contract management specialists should be capable of independently handling all contractual aspects of major projects.</li> <li>Contract management specialist jobs include monitoring commercial issues and drafting correspondence and notices, as well as promoting the maintenance of records for use in substantiating future claims. Contract management specialists also have to prepare comparisons of various contractors and help the tender committee to award the contract.</li> <li>Analysis of construction requirements for cost-saving and reduction strategies.</li> <li>Planning and implementing a sound and sustainable procurement process, including sourcing strategy, supplier selection and evaluation, quality management and performance measurement.</li> <li>Timely and duly prepared procurement plans for the office and monitoring of their implementation.</li> <li>Prepare Statement of Works, Terms of Reference, solicitation documents, Contracts, Grant Agreements and other documents required for project implementation in cooperation with PD</li> </ul>	<ul style="list-style-type: none"> <li>Minimum 10 years of professional experience at national and international levels in preparation of technical documentation like Contract Management etc.</li> <li>Experience in working in complex environments and large infrastructure and/or civil works, particularly in the field of construction technical project documentation development as well as construction supervision;</li> <li>Experience in community mobilization/ community monitoring sites, coupled with the ability to address and manage all aspects of monitoring of a construction (legal aspects of positioning, procurement, law and knowledge of construction contracts, construction information</li> </ul>

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 প্রধান নির্বাহী  
 কর্মকর্তা  
 (এন এম এন ও পাবনা)

উপ-প্রধান (সি: দা:)  
 শিল্প ও পুষ্টি বিভাগ  
 পরিচালনা কমিটি, গাইবান্ধা মহানগর

**TOR for Individual Consultants [Component (1, 2 & 3)] of Bangabandhu Sheikh Mujib Shilpa Nagar (BSMSN) Development Project.**

Name of the Post	No. of Post	Qualifications	Mode of Recruitment	Responsibilities/ Accountabilities	Remarks
				<ul style="list-style-type: none"> <li>Assist in National and international bidding processes; under the direction of Supply Unit, manage the prequalification and short-listing of bidders, preparations of bids, issuance of bids, pre-bid conference, receipt and opening of bids, bid evaluation, recommendation of award, contracts negotiations, contract finalization and issuance.</li> <li>Develop and implement systems for internal control that would ensure compliance with contractual terms and conditions, in collaboration with the operations team</li> <li>Make recommendations for payments upon review of reports and comments from the Operations.</li> <li>Monitor and analyze contract performance against agreed benchmarks and through agreed reporting mechanism. Advise PD on any potential issues and recommend remedial actions or solutions.</li> <li>Negotiate, within the terms and conditions of the contract, solutions to conflicts/problems arising in case of poor performance or non-compliance with contractual obligations.</li> <li>Frequently convene meetings with contractors to allow ample opportunity for the identification and early resolution of potential disputes.</li> <li>Realize syntheses of lessons learnt and best practices in procurement/contract management.</li> <li>Develop appropriate contract management tools, guidelines and manuals for standardization and knowledge sharing purposes.</li> <li>Ensure key meetings and work procedures are properly documented and institutionalized.</li> <li>Engage and involve government counterparts as appropriate, to facilitate contract management as well as to contribute to the capacity building plan.</li> </ul>	<ul style="list-style-type: none"> <li>technologies, and follow-up).</li> <li>Experience in managing and supervising medium to large-scale construction works in the public sector;</li> <li>Knowledge of procurement, tendering and contracting processes and requirements;</li> <li>Excellent and proven experience in dealing with contractors and local partners;</li> <li>Working experience in the area of preparation, implementation and monitoring of technical/(re)construction projects; methodological and calculation skills;</li> <li>Experience in technical design of high-rise structure is an asset;</li> <li>Knowledge of the WB rules, procedures and regulations would be an asset.</li> <li>Working experience in WB or other international development organization is an asset.</li> <li>Good communication and coordination skills.</li> </ul>
11. Jr. Contract Management Specialist	01	<ul style="list-style-type: none"> <li>Bachelor's in Civil/ Structural Engineering or Master's degree in Project Management, Procurement and Supply Chain Management, or other relevant technical area.</li> <li>Contract management specialists should have excellent written, proofreading, and verbal communication skills.</li> </ul>	Competitive Selection.	<ul style="list-style-type: none"> <li>Analysis of construction requirements for cost-saving and reduction strategies.</li> <li>Planning and implementing a sound and sustainable procurement process, including sourcing strategy, supplier selection and evaluation, quality management and performance measurement.</li> <li>Timely and duly prepared procurement plans for the office and monitoring of their implementation.</li> <li>Prepare Statement of Works, Terms of Reference, solicitation documents, Contracts, Grant Agreements and other documents required for project implementation in cooperation with PD</li> <li>Assist in National and international bidding processes; under the direction of Supply Unit, manage the prequalification and short-listing of bidders, preparations of bids, issuance of bids, pre-bid conference, receipt and opening of bids, bid evaluation,</li> </ul>	<ul style="list-style-type: none"> <li>Minimum 5 years of professional experience at national and international levels in the relevant field of civil engineering, especially in preparation of construction technical documentation; and Contract Management</li> <li>Experience in working in complex environments and large infrastructure and/or civil works, particularly in the field of construction technical project documentation development as well as construction supervision;</li> </ul>

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Ahissur Rahman  
 Director,  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

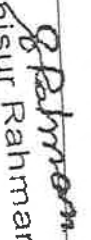


স্বাক্ষরিত  
 মহাপরিচালক (প্রকল্প) এম ও গবেষণা


২২/১১/১৬  
 কোঃ পৌঃদার মোহাম্মদ  
 উপ-প্রোগ্রাম (সিঃ দাঃ)  
 শিল্প ও শক্তি বিভাগ  
 পরিকল্পনা বোর্ড, পরিকল্পনা মহাপলয়

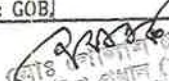
# TOR for Individual Consultants [Component (1, 2 & 3)] of Bangabandhu Sheikh Mujib Shilpa Nagar (BSMSN) Development Project



Name of the Post	No. of Post	Qualifications	Mode of Recruitment	Responsibilities/ Accountabilities	Remarks
<p style="text-align: center;">   <b>Ahisur Rahman</b>                      Director                      Prime Minister's Office                      Govt. of the People's Republic of Bangladesh                 </p>				<p>recommendation of award, contracts negotiations, contract finalization and issuance.</p> <ul style="list-style-type: none"> <li>Develop and implement systems for internal control that would ensure compliance with contractual terms and conditions, in collaboration with the operations team</li> <li>Make recommendations for payments upon review of reports and comments from the Operations.</li> <li>Monitor and analyze contract performance against agreed benchmarks and through agreed reporting mechanism. Advise PD on any potential issues and recommend remedial actions or solutions.</li> <li>Negotiate, within the terms and conditions of the contract, solutions to conflicts/problems arising in case of poor performance or non-compliance with contractual obligations.</li> <li>Frequently convene meetings with contractors to allow ample opportunity for the identification and early resolution of potential disputes.</li> <li>Realize syntheses of lessons learnt and best practices in procurement /contract management</li> <li>Develop appropriate contract management tools, guidelines and manuals for standardization and knowledge sharing purposes.</li> <li>Ensure key meetings and work procedures are properly documented and institutionalized.</li> <li>Engage and involve government counterparts as appropriate, to facilitate contract management as well as to contribute to the capacity building plan.</li> </ul>	<ul style="list-style-type: none"> <li>Experience in community mobilization/ community monitoring sites, coupled with the ability to address and manage all aspects of monitoring of a construction (legal aspects of positioning, procurement, law and knowledge of construction contracts, construction information technologies, and follow-up).</li> <li>Experience in managing and supervising medium to large-scale construction works in the public sector;</li> <li>Knowledge of procurement, tendering and contracting processes and requirements;</li> <li>Excellent and proven experience in dealing with contractors and local partners;</li> <li>Working experience in the area of preparation, implementation and monitoring of technical/ (re)construction projects; methodological and calculation skills;</li> <li>Experience in technical design of high-rise structure is an asset;</li> <li>Knowledge of the WB rules, procedures and regulations would be an asset.</li> <li>Working experience in WB or other international development organization is an asset.</li> <li>Good communication and coordination skills.</li> </ul>
12. Financial Management Specialist (FMS)	02	<ul style="list-style-type: none"> <li>Masters/MBA (Major in Accounting) with Graduation (Hon's) in Business Administration from public university or equivalent.</li> <li>Post-Graduate in Financial Management from public Institution with professional certification in Accounting (CA/CPA), Finance</li> </ul>	Competitive Selection	<p>The Major responsibilities for the FMS include but is not limited to:</p> <ol style="list-style-type: none"> <li><b>Flow of Funds Process:</b> <ul style="list-style-type: none"> <li>To ensure smooth flow of funds from the world bank to the project to facilitate project implementation; and</li> <li>Ensure adequate internal control an arrangement is in place for proper utilization, management and accounting of funds by the implementing entity.</li> </ul> </li> <li><b>Accounting System:</b> <ul style="list-style-type: none"> <li>To ensure that accounting system covers the entire project activities i.e., all sources of funds for the project (e.g.: GOB)</li> </ul> </li> </ol>	<ul style="list-style-type: none"> <li>The candidate should have 8 (Eight) years' solid experience in financial management with a minimum 5 (five) years' proven experience in the IDA financed project in Bangladesh.</li> <li>Good communication and coordination skills.</li> </ul>

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 মহাপরিচালক (প্রকল্প পরিচালনা)  
 বাংলাদেশ সরকার  
 কক্সবাজার (সে. প্র.) জেলা ও পরিষদ

  
 উপ-পরিচালক (সি. অ.)  
 নিউ ও পলি বিভাগ  
 পরিকল্পনা কমিশন, বাংলাদেশ সরকার

**TOR for Individual Consultants [Component (1, 2 & 3)] of Bangabandhu Sheikh Mujib Shilpa Nagar (BSMSN) Development Project**

Name of the Post	No. of Post	Qualifications	Mode of Recruitment	Responsibilities/ Accountabilities	Remarks
		(CFS/PGDFM) & Auditing (CFE/IS Audit) will be given preference.		<p>Donations and World Bank) and utilization of funds in project activities.</p> <ul style="list-style-type: none"> <li>The accounting system would be based on principles of double entry bookkeeping.</li> <li>Identify and install user friendly computerized accounting system and</li> <li>Ensure training of the staff for smooth operation of the computerized accounting system.</li> </ul> <p>3. Development of a Chart of Accounts:</p> <ul style="list-style-type: none"> <li>The Chart of Accounts would be used to:               <ul style="list-style-type: none"> <li>(a) Capture financial data under appropriate head and</li> <li>(b) Classify and group financial data for the various financial reports.</li> </ul> </li> <li>FMC will give to ensure that structure of the chart of accounts would cater data to be captured by:               <ul style="list-style-type: none"> <li>(i) Project components and sub-components;</li> <li>(ii) expenditure categories;</li> <li>(iii) World Bank disbursement categories for the project; and</li> <li>(iv) Project's usual activities.</li> </ul> </li> <li>To ensure that the structure of the chart of accounts conform closely to the project cost tables to enable comparison of actual project costs during implementation with those estimated during project preparation;</li> <li>The Chart of Accounts also requires providing appropriate linkages with the reporting heads of Government's Budgeting and expenditure system as applicable.</li> </ul> <p>4. Compliance to Financial and Accounting Policies:</p> <ul style="list-style-type: none"> <li>To ensure that simple, clear and transparent financial and accounting policies is in place which would govern financial management and accounting for the project.</li> <li>These would include both:               <ul style="list-style-type: none"> <li>(a) Accounting Policies (for accounting and financial reporting for the project);</li> <li>(b) Financial Policies and procedures e.g., policies and procedures for transfer of funds; and accounting for expenditures (including payment of advances, recovery of amounts);</li> <li>(c) Policies regarding expenditures which can be created as project expenditures, and</li> <li>(d) The classification of these expenditures under appropriate headings in the Chart of Accounts.</li> </ul> </li> </ul> <p>5. Design Formats and maintenance of Books and Registrar:</p> <ul style="list-style-type: none"> <li>Design voucher formats ensure maintenance of accounting books, records and statements e.g., cash and bank books, journals, various ledgers, trial balance etc.</li> </ul>	

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 Govt. of the Peoples Republic of Bangladesh  
 Prime Minister's Office  
 Director

Anisur Rahman



স্বাক্ষরিত  
 সয়াসী দেবনাথ  
 মহাসচিব  
 ব্যবস্থাপক (স্ব.স্ব.স. ও প.স.স.)

স্বাক্ষরিত  
 মোঃ গোলাম মোহাম্মদ  
 উপ-প্রধান (স্ব.স্ব.স.)  
 শিল্প ও দাতব্য বিভাগ  
 পরিচালনা কমিশন, পরিকল্পনা মন্ত্রণালয়




# TOR for Individual Consultants [Component (1, 2 & 3)] of Bangabandhu Sheikh Mujib Shilpa Nagar (BSMSN) Development Project




Anisur Rahman  
 Director  
 Prime Minister's Office  
 Government of the People's Republic of Bangladesh

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Name of the Post	No. of Post	-Qualifications	Mode of Recruitment	Responsibilities/ Accountabilities	Remarks
				<p>6. Compliance of Financial and Accounting Procedures: To ensure that-</p> <ul style="list-style-type: none"> <li>a satisfactory system of internal controls operates including controls over data integrity and standard EDP controls;</li> <li>there is appropriate delegation of financial power, separation of duties and policy for authorization of transactions;</li> <li>there is internal check controls system to safeguard physical assets;</li> <li>timely periodic and regular reconciliation is done</li> <li>Conformity to project procurement policies and procedures is maintained etc.</li> </ul> <p>7. Budgeting system: To ensure that</p> <ul style="list-style-type: none"> <li>Budgeting system is integrated with the accounting system to enable comparison of actual performance with budgets/ targets (quarterly, annual and cumulative for the project)</li> <li>That Financial forecasts is based on projected work programs and actual performance. Forecasts should include both short-term forecasts (say 2 quarters) and longer-term forecasts over the life of the project.</li> </ul> <p>8. Contract Administration Monitoring System:</p> <ul style="list-style-type: none"> <li>To ensure that there is sufficient system for recording commitments, expenditure and performance of contracts and a system for generating periodic report on the status of each contract.</li> <li>FMS will be responsible for processing all vendors' bills for payment and arrange disbursements of all bills after approval of the PD.</li> </ul> <p>9. Bank Account operation and Reconciliation:</p> <ul style="list-style-type: none"> <li>The FMS will be responsible for providing advice on operation of project's Bank accounts in efficient manner and preparing monthly bank Reconciliation Statements.</li> </ul> <p>10. Financial Reporting: To ensure that-</p> <ul style="list-style-type: none"> <li>financial reports are substantially generated from the Excel based/ computerized financial management system;</li> <li>financial reports provide quality and timely information to the project management, Project and various stakeholders on project performance and also NEC of the project the financial reports should inter-alia include:</li> <li>date for preparation of withdrawal Applications to be submitted to the World Bank for reimbursement of expenditure;</li> <li>Annual Financial Statements; and</li> <li>All the Project Management Reports to be used by project management to monitor project performance.</li> </ul>	

  
 Anisur Rahman  
 Director  
 Prime Minister's Office  
 Government of the People's Republic of Bangladesh

  
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 Director  
 Prime Minister's Office  
 Government of the People's Republic of Bangladesh

**TOR for Individual Consultants [Component (1, 2 & 3)] of Bangabandhu Sheikh Mujib Shilpa Nagar (BSMSN) Development Project**

Name of the Post	No. of Post	Qualifications	Mode of Recruitment	Responsibilities/ Accountabilities	Remarks
				<ul style="list-style-type: none"> <li>These reports include financial statements (e.g., Sources and uses of funds; Uses of funds by project Activities; Project Balance sheet; Cash withdrawal; Cash forecast; Special Account statement; output Monitoring report).</li> </ul> <p>11. Interface with External auditors:</p> <ul style="list-style-type: none"> <li>The FMS will attend meetings with auditors; facilitate timely completion of audits by arranging timely submission of annual financial statement in appropriate format, supply of information and documents responding to queries, initiate actions for holding meetings and coordinating with various units of the project in meeting audit objections.</li> </ul>	
13. Infrastructure Consultant (for comp. 2)	01	<ul style="list-style-type: none"> <li>Bachelor in civil engineering or equivalent degree</li> <li>The individual who have experience in infrastructure project management will be given preference.</li> </ul>	Competitive Selection.	<ul style="list-style-type: none"> <li>Support to PD/DPD to implement the project on times especially package 1 &amp; 3</li> <li>Develop guidelines for construction of common infrastructures by developers, advising PPP infrastructures by co developers, advising sustainable source of income for BEZA and application of successful capacity building model for BEZA. The candidate having analytical capability in identifying and resolving technical issues with practical Knowledge and understanding of financial, commercial and legal aspects of World Bank financed projects will be an added advantage. Candidate should possess relevant training in zone development and operation. Proficiency in English and Bengali is required. Should independently complete work using technology and computers.</li> <li>Ensure the safeguards issues of BSMSN as well as others EZs</li> <li>Support to Planning and coordination of a program and its activities</li> <li>Maintaining budget and tracking expenditures/transactions</li> <li>To undertake a variety of administrative and program management tasks</li> <li>Help in planning and organizing programs and activities as well as carry out important operational duties</li> <li>Help build positive relations within the team and external parties</li> <li>Manage communications through media relations, social media etc.</li> <li>Schedule and organize meetings/events and maintain agenda</li> <li>Work with diversity and multi-disciplinary teams</li> <li>Monitor the development and construction activities</li> <li>Responsible for preparing project document related to infrastructure development issues;</li> <li>Perform day to day monitoring schedule for all projects under BEZA;</li> <li>Prepare implementation monitoring plan for all projects implemented by BEZA;</li> <li>Ensure baseline infrastructure related project documents are produced, maintained and effectively used.</li> <li>Ensure assigned projects are correctly planned and managed during execution.</li> </ul>	<ul style="list-style-type: none"> <li>10 years working experience with exposure of implementation of project, as a consultant or equivalent;</li> <li>Should have sufficient knowledge of Project Implementation and Management in infrastructure project;</li> <li>Good communication and coordination skills.</li> </ul>

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Director  
Prime Ministers Office  
of the Peoples Republic of Bangladesh

*M. Nurul Hossain*  
M. Nurul Hossain  
Director



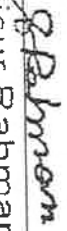
*M. Nurul Hossain*  
দায়িত্ব দেবনাথ  
স্বাক্ষরিত  
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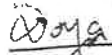
# TOR for Individual Consultants [Component (1, 2 & 3)] of Bangabandhu Sheikh Mujib Shilpa Nagar (BSMSN) Development Project




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Name of the Post	No. of Post	Qualifications	Mode of Recruitment	Responsibilities/ Accountabilities	Remarks
14. Monitoring & Evaluation Consultant	01	<ul style="list-style-type: none"> <li>B. Sc. in Civil Engineering or Masters in Project Management or equivalent.</li> <li>The individual who have experience in project management will be given preference.</li> </ul>	Competitive Selection	<ul style="list-style-type: none"> <li>Monitor and control financial status of project.</li> <li>Report financial, resources, technical issues, customer satisfaction status of assigned projects to management.</li> <li>Identify important potential risks related to project. Establish and execute detailed plans to ensure risks are mitigated and opportunities are realized.</li> <li>Develop overall project plans for cross-organizational projects, consistent with specific project objectives as defined by project owner and key stakeholders.</li> <li>Ensure assigned individuals are executing identified and assigned tasks.</li> </ul>	<ul style="list-style-type: none"> <li>The candidate shall have at least 10 (ten) years of upper management role, and working experience</li> <li>Exposure of implementation of development project;</li> <li>Preparation of development project proposal and monitoring report skills.</li> <li>Should have sufficient knowledge of project management/ procurement under GOB and development project;</li> <li>Should have good knowledge in DPP, procurement process etc.</li> <li>Good communication and coordination skills.</li> </ul>
15. Social Consultant	01	<ul style="list-style-type: none"> <li>The candidate should have Master's Degree in Social sciences, or any relevant subject;</li> <li>Post-Graduation on Land Acquisition and Resettlement or any other relevant issues will get priority;</li> </ul>	Competitive Selection	<ul style="list-style-type: none"> <li>Oversight of the implementation of the Resettlement action Plan (RAP) for the sub-projects as per Resettlement Policy Guideline:</li> <li>Ensure continuous consultation with Project Affected People (PAP)</li> <li>Counseling on Labor and Environment management related issues in light with BEZA</li> <li>Coordinate with the Executive Engineers, Community Development Officer and PAP and all other stakeholders in all phases of the project</li> <li>Supervise all aspects of the process of compensation to PAPs, in all its phases</li> <li>Establish and oversee the Grievance Mechanism, its functions and effectiveness</li> <li>Establish and implement a Monitoring and Evaluation system for the RAP</li> </ul>	<ul style="list-style-type: none"> <li>10 years' experience on social issues with exposure of dealing issues on Economic Zone development or Industrial development;</li> <li>Experience on World Bank Safeguards policies e.g. ESF, SEP, ESA etc.</li> <li>Experience on preparation and review of ESIA, Resettlement Plan, Master Plan and Feasibility Study etc.;</li> <li>Good communication and coordination skills;</li> </ul>

  
**Anisur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

  
**দয়ানন্দ দেববার্থ**  
 প্রোগ্রামার

স্বাক্ষরিত (এম এম এল ও গবেষণা)

  
 মেম্বার সিনিয়র সিনিয়র  
 উপ-প্রধান (সি: পি)  
 শিল্প ও শক্তি বিভাগ  
 পরিকল্পনা কমিশন, বাংলাদেশ

**TOR for Individual Consultants [Component (1, 2 & 3)] of Bangabandhu Sheikh Mujib Shilpa Nagar (BSMSN) Development Project**

Name of the Post	No. of Post	Qualifications	Mode of Recruitment	Responsibilities/ Accountabilities	Remarks
				<ul style="list-style-type: none"> <li>Supervision on the ground of compensation payments in all its aspects and phases:</li> <li>Ensure that surveys and census identify all PAPs and that ID cards are distributed to all entitled PAPs understand their entitlements and rights fully</li> <li>Conduct frequent site visits to ensure smooth implementation of the RAP, with respect to displacement of PAPs and distribution of compensation</li> <li>Ensure consultation with PAPs regarding any misunderstandings or issues that may arise, before directing them to Grievance Redress Committee</li> <li>Oversight of the public consultation and information strategy:</li> <li>Ensure that the consultation strategy is effective, comprehensive and constitutes an ongoing process throughout project duration</li> <li>Inform PAPs of their rights, entitlements and obligations under the RAP and make this an iterative process to update PAPs as the RAP is implemented</li> <li>Inform PAPs about accessing and lodging grievances with the Grievance Redress Committee, its functions and responsibilities towards the PAPs and</li> <li>Advise PAPs about what recourse to adopt if the Grievance Committee does not resolve the dispute.</li> <li>Manage of the data and information on resettlement and other social issues:</li> <li>Conduct field investigations, surveys, analysis of data and preparation of necessary documents</li> <li>Build a database containing PAP lists</li> <li>Monitoring and evaluation</li> </ul>	
16. Social Counselors	15	<ul style="list-style-type: none"> <li>Min. Bachelor's degree in Social Science or LLB/BBA from recognized University or equivalent degree preferably with diploma in HR or Industrial Management.</li> </ul>	Competitive Selection	<ul style="list-style-type: none"> <li>To put into practice "The EZ Workers Welfare Policy</li> <li>To implement BEZA Labor Law</li> <li>To motivate &amp; notify the Female Workers that 30% provision is provided for them in Workers Welfare Association &amp; the Executive committee</li> <li>To develop good industrial relation</li> <li>To improve workers morale</li> <li>To support workers in respect of achieving optimum productivity</li> <li>To reduce workers grievances</li> <li>To ensure sound working environment in the factory(as per ILS)</li> <li>To effort for generating more jobs</li> <li>To ensure human and legal rights of a worker</li> <li>To motivate workers in learning English and computer literacy</li> <li>To ensure improvement of working condition</li> <li>To ensure harmonious relationship between workers &amp; management through Social Dialogue</li> </ul>	<ul style="list-style-type: none"> <li>2 years' experience in a large industrial unit/NGO/Marketing Company/Law firm/CA firm/ Bank/Govt. and semi-Govt. organization;</li> <li>Practical experience in Human Resources Management from any reputed Labor intensive industrial unit will be given preference</li> <li>Shall have sound knowledge in computer operation.</li> <li>Good communication and coordination skills.</li> </ul>

Govt. of the People's Republic of Bangladesh  
Prime Minister's Office  
Director

Ahissur Rahman

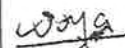


স্বাক্ষরিত এবং সীলিত  
সুশীলিত  
স্বাক্ষরিত এবং সীলিত


২০১৬  
উপ-প্রোগ্রাম (সি-সিই)  
সি-সিই বিভাগ  
স্বাক্ষরিত এবং সীলিত

**TOR for Individual Consultants [Component (1, 2 & 3)] of Bangabandhu Sheikh Mujib Shilpa Nagar (BSMSN) Development Project**



Name of the Post	No. of Post	Qualifications	Mode of Recruitment	Responsibilities/ Accountabilities	Remarks
<p>Prime Minister's Office Director Anisur Rahman Ministry of Labour and Employment People's Republic of Bangladesh</p>				<ul style="list-style-type: none"> <li>To ensure improvement of Health and Safety at Working Place</li> <li>Oversight of the implementation of EZ labor law and relevant policy :</li> <li>Ensure continuous consultation with Workers and investors/contractors</li> <li>Counseling on Labor management related issues in light with BEZA</li> <li>Assist to Social Specialist to implement the social related issues in EZ level or industry level</li> <li>Supervise all aspects of the process of compensation to PAPs, in all its phases</li> <li>Assist to establish and oversee the Grievance Mechanism, its functions and effectiveness</li> <li>Assist to establish and implement a Monitoring and Evaluation system for the RAP</li> <li>Develop a reporting schedule to the PD</li> <li>Liaise with the PD/ Component Coordinator and Social Specialist</li> <li>Supervision on the ground of compensation payments in all its aspects and phases</li> </ul>	
17. Environmental Consultant	01	<ul style="list-style-type: none"> <li>Master degree in Environmental Science or equivalent.</li> </ul> <p align="center">   <b>দায়ানন্দ মেহতার্থ</b>  <b>কর্তৃপক্ষ</b>  <b>ব্যবস্থাপক (এম এম এন ও পবেসস)</b> </p>	Competitive Selection	<ul style="list-style-type: none"> <li>Supervise the implementation of EMF throughout the project implementation period</li> <li>Work closely with various agencies associated with the sub-project such as Transaction Advisors, Master Developers, Contractors etc. and ensure that all the activities and measures are implemented as per the regulatory requirements of GoB and EMF PRIDE</li> <li>Ensure the integration of EIA and EMP measures into the sub-project design and implementation plans such as contract documents, maintenance contracts, tenant lease agreements, etc.</li> <li>Review various Environment and other documents with regard to their compliance with EMF, various Environmental issues and the adequacy of management measures and provide necessary guidance to consultants in improving the reports prior to forwarding to CCU/ the WB for necessary approval/clearance</li> <li>Co-ordinate with the Environment Engineers of the Master Developer/ Contractor and provide necessary guidance in implementing EMPs, guidance in securing regulatory clearances on Environment from DOE and other agencies</li> <li>Counseling on Labor and Environment management related issues in light with BEZA.</li> <li>Carry out regular visits to sub-project implementation sites to supervise as well as provide onsite guidance to the Master Developers and the contractors on the implementation EMP and the EMF of PRIDE</li> <li>Co-ordinate with the Environment Expert at CCU-PRIDE and</li> </ul>	<ul style="list-style-type: none"> <li>10 years working experience with exposure of Environment in development project;</li> <li>Should have sufficient knowledge of EMF of the World Bank and Environmental Rules of GoB;</li> <li>Experience on preparation and review of ESIA and Feasibility Study for Economic Zones and industrial unit</li> <li>Good communication and coordination skills.</li> </ul>

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**দায়ানন্দ মেহতার্থ**  
**কর্তৃপক্ষ**  
**ব্যবস্থাপক (এম এম এন ও পবেসস)**

## TOR for Individual Consultants [Component (1, 2 & 3)] of Bangabandhu Sheikh Mujib Shilpa Nagar (BSMSN) Development Project

Name of the Post	No. of Post	Qualifications	Mode of Recruitment	Responsibilities/ Accountabilities	Remarks
				provide all assistance on environmental safeguard management of the sub-project <ul style="list-style-type: none"> <li>• Maintain a data base in a standard form, on the status of various environmental activities of the sub-project (clearances, compliances, EIA reports, progress reports, etc.) and update the same on regular basis</li> <li>• Prepare and submit monthly progress reports to the CCU/GoB and quarterly progress reports to the World Bank, on all the aspects related to environmental management in the sub-project</li> <li>• Function as a single-point contact at the PIU for the sub-project and for the external agencies, including the World Bank, and provide all support on environmental matters of the sub-project</li> <li>• Follow up with the Master Developer and the contractors, and other the agencies in addressing various environmental safeguard actions agreed with the GoB and the World Bank from time to time and provide timely update to the CCU and the Bank.</li> </ul>	
18. Environmental Counselors	05	Min. Bachelor's degree in Environmental Science/ Environmental Management & Planning/Environmental Engineering/Chemistry/Chemical Engineering	Competitive Selection	<ul style="list-style-type: none"> <li>• Samples to the Laboratory: Environmental counselors will be responsible for collecting wastewater, sludge or any other waste samples during any given inspection. Any samples should be collected during an announced or unannounced inspection following the national protocols of sample collections. To preserve the integrity of the samples, it should be delivered to the DOE or DOE certified lab as soon as possible for analysis.</li> <li>• Environmental Officers/Counselors will use the Environmental Inspection Form during monitoring and inspection of any given enterprise of the EZs.</li> <li>• Receive direction from environmental consultant and assist for overall environmental, monitoring activities.</li> <li>• Assist BEZA in all types of environmental monitoring, sampling, testing, reporting and documentation services</li> <li>• Review the status of regulatory compliance of the EZ and the individual enterprises and advise on necessary steps to ensure compliance</li> <li>• Monitor the performance of the Central Effluent Treatment Plant (CETP)/ ETP and its related activities round the clock in shifting duties to advise BEZA on measures that can ensure compliance as per the agreement and/or DoE's Discharge Standard.</li> <li>• Monitor the performance of ETPs of individual enterprises that have not joined CETP for round the clock in shifting duties and ensure compliance towards the terms and condition and/or DoE's Discharge Standard.</li> <li>• Monitor the environmental management issues including effluent discharge, sludge management, air emissions, noise, chemical and hazardous materials management, solid and hazardous waste</li> </ul>	<ul style="list-style-type: none"> <li>• 2 years' experience in identifying and disposing industrial waste and monitoring environmental compliance as per GoB/WB requirement.</li> <li>• Experience in World Bank financed Project with similar type of job will be given priority;</li> <li>• Good communication and coordination skills.</li> </ul>

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Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

Director  
 Anisur Rahman

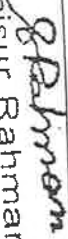



ডায়েরী  
 সরকারি সেবাকার্য  
 বাংলাদেশ  
 (এম এম এফ ও এফসি)

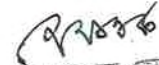
মোঃ মোস্তাফিজুর রহমান  
 উপ-প্রোগ্রামার (সি. ৩০১)  
 শিল্প ও পরিষ্কার বিভাগ  
 পরিকল্পনা কমিশন, পরিকল্পনা মন্ত্রণালয়

# TOR for Individual Consultants [Component (1, 2 & 3)] of Bangabandhu Sheikh Mujib Shilpa Nagar (BSMSN) Development Project



Name of the Post	No. of Post	Qualifications	Mode of Recruitment	Responsibilities/ Accountabilities	Remarks
<p>19. Occupational Health &amp; Safety Consultant</p> <p style="text-align: right;">   <b>Anisur Rahman</b>                      Director                      Prime Minister's Office                      Gov. of the People's Republic of Bangladesh                 </p>	01	<ul style="list-style-type: none"> <li>• Master degree in Environmental Science/Engineering/Chemical Engineering or equivalent.</li> <li>• Professional certification in Health &amp; Safety in industrial hygiene, hazardous chemical management etc. is preferred.</li> </ul>	Competitive Selection.	<p>management, emergency response and cleaner production of the enterprises of EZs as appropriate and report to the Zone Authority (should specify whom should the Environment Officer report to).</p> <ul style="list-style-type: none"> <li>• Specialists shall analyze many types of work environments and work procedures of EZ. Specialists inspect workplaces for adherence to regulations on safety, health, and the environment. They will also design programs to prevent disease or injury to workers and damage to the environment in close coordination of EHS team;</li> <li>• Monitor and Supervise the implementation of Occupational Health &amp; Safety Identify hazards in the workplace, Collect samples of potentially toxic materials for analysis, inspect and evaluate workplace environments, equipment, and practices for compliance with corporate and government health and safety standards and regulations</li> <li>• Design and implement workplace processes and procedures that help protect workers from potentially hazardous work conditions</li> <li>• Investigate accidents and incidents to identify their causes and to determine how they might be prevented in the future</li> <li>• Conduct training on a variety of topics such as emergency preparedness</li> <li>• throughout the project implementation period</li> <li>• Work closely with Environment Consultant/EHS monitoring team of BEZA, various agencies associated with the sub-project such as Transaction Advisors, Master Developers, Contractors etc. and ensure that all the activities and measures are implemented as per the regulatory OHS requirements of GoB and EMF PRIDE;</li> <li>• Review various Environment and other documents with regard to their compliance with EMF, various OHS issues and the adequacy of management measures and provide necessary guidance to consultants in improving the reports prior to forwarding to CCU/ the WB for necessary approval/clearance</li> <li>• Counseling on Labor and Environment management related issues in light with BEZA.</li> <li>• Carry out regular visits to sub-project implementation sites in coordination with environment consultant to monitor as well as provide onsite guidance to the Master Developers and the contractors on the implementation EMP and the EMF of PRIDE</li> <li>• Maintain a data base in a standard form, on the status of various environmental activities of the sub-project (clearances, compliances, OHS reports, progress reports, etc.) and update the same on regular basis</li> <li>• Prepare and submit monthly progress reports to the CCU/GoB and quarterly progress reports to the World Bank, on all the aspects related to OEHS management in the sub-project</li> </ul>	<ul style="list-style-type: none"> <li>• 10 years working experience with exposure of occupational, health and safety fields in development project;</li> <li>• Should have sufficient knowledge of OHS requirement in EMF of the World Bank and OHS Rules of GoB;</li> <li>• Good communication and coordination skills.</li> </ul>

  
 Md. Anwar Hossain  
 উপ-সহকারী  
 ইঞ্জিনিয়ার  
 ব্যবস্থাপক (এস এম ও এন ও পদেবলা)

  
 মোঃ আনোয়ার হোসেন  
 উপ-সহকারী (সি: পি:)  
 শিল্প ও শক্তি বিভাগ  
 পরিকল্পনা সচিবালয়, পরিকল্পনা সচিবালয়

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**for Individual Consultants [Component (1, 2 & 3)] of Bangabandhu Sheikh Mujib Shilpa Nagar  
(BSMSN) Development Project**

Name of the Post	No. of Post	Qualifications	Mode of Recruitment	Responsibilities/ Accountabilities	Remarks
				<ul style="list-style-type: none"> <li>Follow up with BEZA, the Master Developer and the contractors, and other the agencies in addressing various OHS safeguard actions agreed with the GoB and the World Bank from time to time and provide timely update to the CCU and the Bank.</li> <li>Receive direction from environmental consultant/EHS monitoring team and assist BEZA for overall OHS monitoring activities.</li> </ul>	
20. Skills Development Consultant	01	<ul style="list-style-type: none"> <li>The candidate shall have Master's degree in any of the following; Business Administration, Management, Commerce, Economics, Marketing, Social Science, HRM, Education or any equivalent degree;</li> <li>Preference will be given to candidates with professional qualifications of Education Training or HR.</li> </ul>	Competitive Selection.	<ul style="list-style-type: none"> <li>Implementation the voucher training program</li> <li>Ensure the skills workforce for EZs</li> <li>Identify training needs by evaluating strengths and weaknesses</li> <li>Translate requirements into trainings that will groom employees for the next step of their career path</li> <li>Build annual training program and prepare teaching plans</li> <li>Develop or oversee the production of classroom handouts, instructional materials, aids and manuals</li> <li>Direct structured learning experiences and monitor their quality results</li> <li>Acclimate new hires to the business and conduct orientation sessions</li> <li>Deliver training courses</li> <li>Assess training effectiveness to ensure incorporation of taught skills and techniques into employees work behavior</li> <li>Periodically evaluate ongoing programs to ensure that they reflect any changes</li> <li>Stay abreast of the new trends and tools in employee development</li> </ul>	<ul style="list-style-type: none"> <li>10 years Proven experience in designing multiple training events in a corporate setting</li> <li>Extensive knowledge of instructional design theory and learning principles</li> <li>Proven ability to master the full training cycle</li> <li>Adequate knowledge of learning management software</li> <li>Familiarity with traditional and modern training methods, tools and techniques</li> <li>Familiarity with talent management and succession planning</li> <li>Ability to conduct cost-benefit analysis and calculate training ROI</li> <li>Sound decision making and organizational skills</li> <li>Ability to present complex information to a variety of audiences</li> <li>Proficiency in MS Office and in database software</li> <li>Good communication and coordination skills.</li> </ul>
21. IT Consultant	01	<ul style="list-style-type: none"> <li>BSc (Hon's) in Computer Science or equivalent degree.</li> </ul>	Competitive Selection.	<ul style="list-style-type: none"> <li>Provide installation and maintenance of all computer equipment classified as:</li> <li>(a) Standalone personal computers;</li> <li>(b) Workstations connected to a LAN/UNIX /WIN NT/Windows 10/Windows 7, Servers;</li> <li>(c) All computer peripherals, printers, UPS's, hubs, modems and any other hardware machinery directly involved in the network configuration;</li> <li>Testing and installation of "Windows" software on servers and all new computers. Also assist in delivery of in-house computer training and report to direct supervisor the condition of the equipment received together with a verification of the inventory report including progress;</li> </ul>	<ul style="list-style-type: none"> <li>Minimum of 10 years of professional working experience in maintenance and designing of computer networks including OSS and other IT related management servers.</li> <li>Any certification in Microsoft or Cisco will be added advantage</li> <li>Good communication and coordination skills.</li> </ul>

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Anisur Rahman  
Director  
Prime Minister's Office  
Govt. of the People's Republic of Bangladesh



স্বাক্ষরিত  
মন্ত্রণালয়  
স্বাক্ষরিত  
স্বাক্ষরিত

উপ-প্রোগ্রাম (স: স:)  
শিল্প ও শক্তি বিভাগ  
পুলিশ




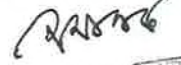
# TOR for Individual Consultants [Component (1, 2 & 3)] of Bangabandhu Sheikh Mujib Shilpa Nagar (BSMSN) Development Project



Name of the Post	No. of Post	Qualifications	Mode of Recruitment	Responsibilities/ Accountabilities	Remarks
22. Administrative Support Consultant  Govt. of the People's Republic of Bangladesh Prime Minister's Office Director Ahisur Rahman	01	<ul style="list-style-type: none"> <li>The candidate possesses a minimum master degree in Business Administration, Economics, Public Administration, Finance, Social Science, Geography and Management or equivalent.</li> <li>The candidates having PGD in ICT and experience in the World Bank Financed Project or similar nature job will get preference.</li> </ul>	Competitive Selection.	<ul style="list-style-type: none"> <li>Monitoring the performance of the whole network and to troubleshoot all areas including cables, and other media linked to the network configuration.</li> <li>Bridging the gap between information users and programmers by facilitating requirements for local and wide area networking communication links between the parties.</li> <li>Creation active directory accounts, users, maintain and provide group and security policies.</li> <li>Day to day maintenance of server room and IT infrastructure.</li> <li>Update website with contents.</li> <li>Provide ad-hoc user end troubleshooting support.</li> <li>Support to Project Director (PD) in managerial/administrative service;</li> <li>Assist project authority in general administration of the project, including common services, personnel administration, recruitment of manpower, selection and placement, discipline, maintenance of personnel records etc.;</li> <li>Cooperate in procurement process;</li> <li>Protocol management for Executive Chairman and Project Director;</li> <li>Organize training activities, Seminar, Workshop, Meetings and other Investment Promotional events in home and abroad;</li> <li>Ensuring Human Resource Development activities instructed by BEZA and Project Authority;</li> <li>Managing necessary commodities required for office use;</li> <li>Support in proper maintenance of the office records and administrative works;</li> <li>Co-ordination with stake holder's organizations in different issues;</li> <li>Maintenance of store, supplying necessary commodities with prior approval from the authority;</li> <li>Support maintenance and repair of project vehicles;</li> <li>Arranging study tour being directed by BEZA and Project Authority;</li> <li>Prepare training module, training schedule;</li> <li>Correspondence with foreign Embassy and Training Institutions to organize foreign tour and training program as required;</li> <li>Organize Investment Promotion program, Workshop, Seminar, Roadshow, Foreign Tour, etc.;</li> <li>Experience in vehicle maintenance.</li> <li>Experience working under PSDP Project especially for EZ development.</li> </ul>	<ul style="list-style-type: none"> <li>10 years' of managerial/coordination experience including 5 years of World Bank Financed project in similar position;</li> <li>Experienced in running alike programs or projects with appropriate capacity;</li> <li>PGD in ICT and SPSS training from reputed Institution ;</li> <li>Good communication and coordination skills.</li> </ul>

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 দায়মান কর্মকর্তা  
 মন্ত্রণালয়  
 সরকার (এম. পি. ও. দপ্তর)  
 ঢাকা


  
 সিনিয়র প্রোগ্রামার  
 উপ-প্রোগ্রামার (সি. সা.)  
 শিল্প ও শক্তি বিভাগ  
 পরিকল্পনা কমিশন, পরিকল্পনা মন্ত্রণালয়  
 ঢাকা

**TOR for Individual Consultants [Component (1, 2 & 3)] of Bangabandhu Sheikh Mujib Shilpa Nagar (BSMSN) Development Project**

Name of the Post	No. of Post	Qualifications	Mode of Recruitment	Responsibilities/ Accountabilities	Remarks
23. Junior Architectural Consultant (for comp. 2)	01	<ul style="list-style-type: none"> <li>Minimum B. Sc. in Architecture from a reputed university</li> </ul>	Competitive Selection.	<ul style="list-style-type: none"> <li>Prepare and Review of all architectural drawings and 3d views along with working drawings, relevant information documents regarding design, specifications, materials and equipment.</li> <li>Draw up costs, schedules and other elements associated with construction (interior or exterior) projects. Manage and Supervise the construction site according to the drawing documents.</li> <li>Coordinator of design related problem-solving.</li> <li>Capable to operate Auto Cad, Adobe Photoshop, Adobe Illustrator CS, Sketch up 17 for 3d modeling.</li> </ul>	<ul style="list-style-type: none"> <li>Minimum 5 years working experience with exposure of implementation of development project.</li> <li>Good communication and coordination skills.</li> </ul>

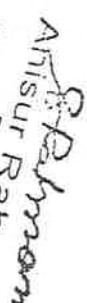
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 Md. Masud মেসবুদ  
 সিনিয়র অফিসার  
 (এস. আই. এল ও গবেষণা)

  
 মেসবুদ মেসবুদ  
 উপ-সহকারী  
 শিল্প ও শক্তি বিভাগে  
 পরিচালনা কমিশন, প্রতিবেদন প্রস্তুতকারক

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**Atisur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

Appendix VI

**TOR of Consultancy Firms (As Per DPP)**

(Fig in Lac Taka)

Package No.	Description of Consultancy Services	Estimated Cost	Appendix No.	DPP Page
PMC1	National Master Plan for BFZA	1400.00	1/29	304
PMC2	Feasibility Studies (Lot 1)	525.00	2/29	317
	Feasibility Studies (Lot 2)	525.00		
PMC3	Regulatory reform and advisory services	680.00	3/29	327
PMC4	PPP Training Firm (Lot 1)	1500.00	4/29	331
	PPP Guidelines (Lot 2)	560.00	5/29	335
PMC5	Port Feasibility Study	1150.00	6/29	339
PMC6	Port Transaction Advisor	1300.00	7/29	344
PMC7	IMD for Green Zone Feasibility and Transaction Advisor	1250.00	8/29	349
PMC8	Desalination Transaction Advisor	1000.00	9/29	355
PMC9	Solar Power Generation Feasibility and Transaction Advisor	860.00	10/29	361
PMC10	Solid Waste Management, steam (waste heat) and Biogas/pyrolysis (including waste sorting)) Feasibility and Transaction Advisor	800.00	11/29	367
PMC11	CETP Transaction Advisory (Phase 2) - Financial Closure support	950.00	12/29	375
PMC12	BSSMSN New City - Infrastructure Planning & Financing modalities, master plan for commercial and residential areas, Smart City	1000.00	13/29	383
PMC13	Monitoring & Supervision Engineer(s) for each PPP Infrastructure	1150.00	14/29	388
PMC14	Master Plan for Sandwip & Companiganj	1011.00	15/29	397
PMC15	Selection of Design and Supervision Consultant (TAS Firm)	7500.00	16/29	410
PMC16	Environmental & Social Consultancy Services (Lot 1)	1550.00	17/29	420
	Regional Environmental & Social Assessment (Lot 2)	200.00	18/29	427
PMC17	Training need assessment for Economic Zones (Lot 1)	70.00	19/29	431
PMC18	Skills & Social Development Program at BSSMSN (Lot 2)	1830.00	20/29	437
	Produce an inventory of focal micro, small and medium-sized enterprises around BSSMSN to build a portal (Challogram)	127.00	21/29	441
PMC19	Design, Implementation Support and Systems for HR Policy and Financial Management Policy	267.00	22/29	445
PMC20	Supply of Software, Security Solution (Software), CRM and Development of Web Application for BEZA & BSSMSN	498.00	23/29	450
PMC21	Detailed Design of Data Center (Layout, Civil Structure, Topology, and Active & Passive Part of Data Centre including Networking, Power, and Cooling etc.) at BSSMSN.	220.00	24/29	455
PMC22	Media content and Marketing	212.50	25/29	460
PMC23	Operation and Maintenance Child Care Centers	300.00	26/29	466
PMC24	Development Company Policy formulation, development company formation for BSSMSN	405.00	27/29	
PMC25	Economic analysis of BEZA initiatives (BSSMSN transformation and economic contribution)	85.00	28/29	
PMC26	Voucher and Grant Management Firm	4250.00	29/29	481



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 প্রধান নির্দেশক  
 অফিসিয়াল  
 কর্তৃক স্বাক্ষরিত (স্বাক্ষর করা গ. নং ১০১১০০)

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 প্রধান নির্দেশক  
 অফিসিয়াল  
 কর্তৃক স্বাক্ষরিত (স্বাক্ষর করা গ. নং ১০১১০০)

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 প্রধান নির্দেশক  
 অফিসিয়াল  
 কর্তৃক স্বাক্ষরিত (স্বাক্ষর করা গ. নং ১০১১০০)

**PMCI: National Master Plan for BEZA**  
**Terms of Reference**

**01. Objective of the Study**

BEZA seeks the services of a consulting firm to prepare a comprehensive 20-year Master Plan and Development Plan with supporting Infrastructure/Utility Planning for the Sandwip & Compaiganj EZ in relation with BSMSN.

**02. Scope of Work**

**PART I: Due Diligence**

**Task 1: Review background materials and meet relevant stakeholders**

The consulting team is required to gather, review, and assess all the background material available for this project, including but not be limited to existing studies, reports, documents, regional and local plans, maps, statistics and relevant policies related to the development of the proposed MICTY site. Key documents are: i) the feasibility study for Mireshorai EZ prepared by the Japan Development Institute (JDI), ii) the Infrastructure Investment Facilitation Company (IFC) work for the Mirsarai-2 EZ, iii) the Upazilla Master Plans for Mirsarai, Feni, and Sonagazi, iv) the Railway Master Plan by the Bangladesh Railway, v) the Highway Master Plan by Roads Transport and Highways Division (RHOD), and vi) any plans prepared by other government agencies. The purpose of the review is to identify and evaluate the key issues, opportunities, constraints and threats for the new BSMSN project and highlight areas of additional work. Once the consulting team has completed their assessment, they will meet with BEZA to review their work, obtain feedback and get agreement/approval from BEZA on the way forward.

The team will then meet, on an individual basis, with relevant stakeholders (list to be agreed upon with BEZA) and discuss/validate their project assessment and the key issues. After meeting all relevant stakeholders, the consulting team must prepare an inception report that synthesizes their assessment of the project and stakeholder findings and provide BEZA with a report that includes the following: i) a detailed methodology on how the team is going to undertake this project, ii) an updated approach, project schedule, and staffing of the project, iii) a vision and value proposition for the BSMSN, iv) an overview of the physical, economic, social, environmental, and programmatic etc. opportunities, constraints and burning issues for the BSMSN project, and v) identify how the strengths of the project will be highlighted in the master plan and land use plan and the weaknesses will be mitigated. This inception report is to be submitted to BEZA for their review and approval before Task begins.

**Task 1 Deliverables**

*An inception report as outlined in the above task.*



1 | P A G E

*BEZA*  
স্বরাষ্ট্র/সংসদ  
সচিবালয়  
শ্রীমঙ্গল (সে. বি. ও. এ. হাট)

30/4  
*Ahmedur Rahman*  
Ahmedur Rahman  
Director  
Prime Minister's Office  
Govt. of the People's Republic of Bangladesh

## PART II: Mapping Existing Conditions

### Task 2: Existing conditions – Land boundaries and Topography

The team will meet with BHZA to discuss base map requirements. Once in agreement, the team will prepare a series of base maps of the existing physical conditions of the MICITY site. This will include, but not be limited to, the preparation of the following maps: i) a map illustrating the existing boundaries of the government owned lands, ii) a map of lands that need to be acquired to make the MICITY viable and sustainable in the long-term, iii) a map of the topography of the site with contour lines and elevations identified as well as any lakes, rivers, ponds, or water bodies etc., iv) a map that identifies the boundaries of Kas lands, as well as the mouzas, unions, upazilas and district boundaries, and v) any other base maps (such as soil and/or vegetation maps etc.) that will be helpful in preparing and supporting the detailed master plan and land use plan for the site. The team will survey the lands and use GPS to ensure accuracy of these maps. All maps for this project must be kept in ArcGIS or ArcGIS compatible files, while engineering survey data should be kept in standard data format of digital theodolite. It is critically important that all maps prepared for this project are aligned and at the same scale so they can be overlaid, if required.

### Task 2 Deliverables

*A series of base maps in ArcGIS/Compatible files, as identified above, that will be necessary to prepare an accurate master plan, land use plan and undertake detailed infrastructure and utilities plans for the BSMNSN project.*

### Task 3: Existing conditions- Land use, moveable and non-moveable property and infrastructure and utilities

The team will prepare three maps under this task: i) a land use plan showing the existing land use designations (IE: Different types of land uses such as residential, commercial, retail, institutional (health and educational facilities), tourism, open space, etc.) currently on this site, ii) a map denoting the existing location of moveable and non-moveable property, such as buildings, houses, commercial/retail facilities, and entertainment facilities etc. and iii) a map identifying all existing on and off-site infrastructure and utility (national highways, village/local roads, power, gas, water, sewerage, drainage, waste management facilities, telecommunications etc.) networks, railway corridors, lines, and stations, boat landings, bus stops, truck terminals, etc. The connection points of both on and off-site infrastructure and utilities should also be identified. A survey and GPS should be used to ensure accuracy of the information. The purpose of these maps is to ensure that the existing on and off-site conditions of the site and the area of influence are properly mapped in preparation for the master plan and land use plan exercise.

In an accompanying document, the team should assess/validate the quality, condition, and capacity of the existing on-and off-site infrastructure and utilities and identify what would be



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স্বাক্ষরিত করায়  
১৩/১১/১৯  
সচিব (স্বাঃ ও সঃ সঃ)

Abisur Rahman  
Director  
Prime Minister's Office  
of the People's Republic of Bangladesh

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১৩/১১/১৯

required to make the BSMSN project sustainable in the long-term. II. Check with the roads agency and utility providers regarding the existing amounts of power and water available to support the BSMSN development and determine if new road projects are proposed in the surrounding areas/areas of influence.

#### **Task 3 Deliverables.**

- Three maps highlighting: i) existing land use designations, ii) existing locations of moveable and non-moveable property, and iii) existing on and off-site infrastructure and utility networks and connection points.
- An engineering report identifying the quality, condition and capacity of existing on and off-site infrastructure and utilities on and surrounding the site, to be used in Task 5-7.

#### **Task 4: A social and socio-economic survey and an assessment/validation of the existing environmental conditions on the BSMSN site and area of influence**

The team will conduct an extensive social and socio-economic assessment of the site and its area of influence. The survey will be used as the base line for the BSMSN project identifying the social and socio-economic conditions and socio-cultural characteristics of the existing population and area of influence area of the project as well as setting out the social implications for the project. It is expected that team will conduct both a quantitative (in survey format) and qualitative analysis of the project site and area of influence, with the base data and key finding presented in a report. It is expected that survey data will also be mapped and tagged with household numbers and residential locations identified.

In addition, the team will undertake a rapid review/validation (not an environmental impact assessment) of the existing environmental conditions on the site and area of influence. This review will identify all the existing key environmental conditions, issues, and concerns with regard to the site and area of influence to be used during the master planning task. The environmental review of the BSMSN and area of influence should contain maps, data, an analysis of the existing conditions and should identify key findings and potential mitigation measures that must be taken into consideration when undertaking the master planning and land use planning exercise. The above activities in Task 4 should utilize the World Bank social and environmental standards and safeguards.

#### **Task 4 Deliverables.**

- A social assessment and environmental review (base line) report that provides both:
- A base line social and socio-economic survey, analysis and write up/findings of the BSMSN site and area of influence with accompanying maps, and
- An environment review/validation of the BSMSN project with accompanying maps.



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Anisur Rahman

Director

Prime Minister's Office

Govt. of the People's Republic of Bangladesh

স্বরাষ্ট্র মন্ত্রণালয়  
প্রতিরক্ষা বিভাগ  
১০১, মতিঝিল, ঢাকা-১০০

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১০/০৫/১৯

**PART III: Preparation for the Master Planning and Land Use Planning of the BSMSN Project**

**Task 5: Review, validation or adjustment of the development program for the BSMSN**

The team will review and validate the existing development program for the BSMSN site. If necessary, the development program should be updated/adjusted to take into account the vision and value proposition proposed for the BSMSN project and the proposed population (work and residential) of the new project. A critical assessment of the proposed 14 FZs should be undertaken to ensure the demand and proposed industry uses are still valid and appropriate, and if additional or supporting residential, commercial, retail, amenities, and open space etc. is required. The purpose of this task should, but not be limited to, identifying: i) the total population expected for the BSMSN project over a 20-yr period, ii) a breakdown of the predicted population, workforce, residential, commercial, retail and institutional requirements in 5-year increments, iii) a detailed overview of the types and number of industries proposed for the EZs broken down into 5-year increments, and iv) a detailed list of infrastructure and utilities requirements such as power, water, gas, and telecommunication etc. for this project. Any and all assumptions for the development program should be set out and explained.

This task should include inputs and modeling from the project economist. The new development program should be used as inputs into the transport assessment, the master plan, the land use plan and the infrastructure and utilities planning. The new development program should be reviewed by BEZA and their sign off is required before any further planning is undertaken.

**Task 5 Deliverables:**

*A revised/validated development program for the BSMSN project, which is to be part of the master planning and infrastructure report. All assumptions for the 20-year plan must be identified and explained/analyzed.*

**Task 6: A transport assessment**

The team will undertake a transport assessment for the BSMSN site and area of influence. The revised development program in Task 5 will be the basis for this transport assessment. The team is expected to identify, estimate and analyze: i) the traffic and modal split for the BSMSN project and for the EZs within, ii) the traffic generated by nearby tourist attractions such as the Mahamaya Lake and the numerous waterfalls in the Mirershorai Upazilla etc. and determine their impacts on the off-site transport networks, iii) expected increased demand of traffic along the Dhaka-Chittagong Highway corridor, and iv) the traffic within the area of influence not covered by the above. Based on the analysis, the team will prepare a viable, sustainable, and comprehensive transport plan identifying all the multi-modal facilities required for the BSMSN project and area of influence. The plan should include, but not be



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limited to, not only a new transport plan, but necessary improvements/upgrades to existing transport networks, the sizing/widths and hierarchy of roads necessary to handle traffic volumes and truck/vehicle weights within the BSMSN project, and a transport management plan. Because the Dhaka-Chittagong Highway and railway tracks run around two kilometers east of the project area, it is also expected that there would be new roads connecting the project to the Dhaka-Chittagong highway. As part of Task 6, it will be the team's task to propose a new rail alignment for the BSMSN project. When considering the new alignment, the team must consider the following:

- To keep new land acquisition to a minimum, if possible
- To align the project in a parallel manner to the existing river/ streams so not to act as a barrier to the natural flow of water
- To allow easy access to the EZs, where possible

#### **Task 6 Deliverables.**

*A comprehensive transport assessment for the BSMSN site and area of influence taking into account the requirements listed above. This will be included in the master planning and infrastructure planning report.*

#### **PART IV: Master Planning and Infrastructure Planning**

##### **Task 7: Master planning**

The team is to utilize all the studies, maps, statistics and findings produced in Tasks 1-6 to prepare the Master Plan, Land Use Plan, Zoning Plan, and Phasing Plan for the BSMSN project. Specific attention must be given to the outcomes in Tasks 4-6, as they will identify the development program and transport networks to design while taking into consideration the existing social and environmental implications of the site.

The team will prepare a detailed master plan/land use for the BSMSN site, which will include but not be limited to: i) the street and block network throughout the site, ii) main connection points (highways and roads) with the neighboring areas/areas of influence, iii) a hierarchy of road, transport and logistics networks within/ and outside the BSMSN project, including the rail network as per the transport study, iv) land uses such as industrial, residential, retail, commercial, institutional, supporting amenities, open space etc., v) key administrative (for EZs) and institutional (schools, universities, hospitals, clinics or others etc.) facilities, vi) detailed plans for the EZ areas minimizing any adjacency issues, and vii) design of the lakes and/or reservoirs. This master plan/land use plan should be planned in an eco-friendly manner, paying attention to climate and weather changes throughout the year.

A detailed zoning plan is also required for the BSMSN project. This plan will set out the BSMSN project's: i) densities, ii) height limits, iii) setbacks (side yard, rear yard, and property line), and iv) open space requirements. Once the master plan/land use plan, and zoning plans are completed, the site should be phased according to the demand, which was



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identified in Task 5. It is critically important that the phasing of the project matches this demand.

Lastly, urban design guidelines are required for the entire BSMSN project. These guidelines will be a development manual for the design of the site, providing minimum urban design standards. BEZA will give these guidelines to new developers of the BSMSN project. The urban design guidelines will include, but not be limited to: i) access to plots, ii) building facades, iii) servicing and loading, iv) parking, v) landscaping, vi) signage, vii) lighting, viii) street furniture, ix) road and sidewalks, and x) views to water. The consulting team will discuss the full list of urban design guidelines with BEZA to obtain their approval before developing the urban design guidelines.

Once Task 7 has been completed, it will be presented to BEZA for their review and approvals before the consulting team moves on to the infrastructure planning of this project.

#### **Task 7 Deliverables:**

*A master planning and infrastructure/utilities report that takes into account findings from Tasks 1-6 and includes, with a write up, the following:*

- *A master plan/land use plan for the BSMSN project.*
- *A zoning plan for the project that identifies permitted densities, height limits, and setbacks.*
- *A phasing plan for the site in accordance with proposed market demand over a 20-year period.*
- *Urban design guidelines for the BSMSN project.*

#### **Task 8: On and off-site infrastructure**

The team will prepare a set of infrastructure and utility line drawings (not construction drawings) to match the master plan/land use plan, zoning plan and phasing plan and proposed activities within the BSMSN project as set out in Task 5. The team will meet with local infrastructure and utility agencies/providers to confirm/guarantee utilities to support the BSMSN project. The infrastructure and utilities required for this project include, but are not limited to: i) all onsite earthworks (the raising of land, shoring up the water's edge, flooding/drainage mitigation techniques/plans etc) in plan format, as well as, ii) plans for all roads, power, gas, water, drainage, sewerage, storm water, coastal flooding (for a 100 year surge), waste water/effluent treatment, fire, lighting, fencing, and telecom networks etc. The on-site infrastructure drawings must be undertaken at a consistent scale and to be pre-approved by BEZA. All on-site infrastructure and utilities should be designed to utilize green technology, minimize waste, and promote water/power saving measures, and utilize recycling mechanisms, where possible. Off-site infrastructure improvement/upgrade plans are required to support this project. The team is tasked to also provide a detailed outline of the necessary off-site infrastructure projects/requirements, costs and timing of these infrastructure projects, in order to not delay the BSMSN project.



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In addition, a waste management plan for both solids and liquids must be prepared for the BSM SN project. Special attention should be paid to the EZ components of the project as there may be hazardous waste generated by potential industry sectors, which must be safely disposed of. The purpose of the waste management plan is to guide BEZA in reducing and disposing of waste for the entire project, and the EZs within to create the healthiest environment for the community.

The infrastructure and utility drawings must be costed to determine the total cost of development of the BSM SN project. The cost estimates must be within 15% accuracy and should include a 10% contingency. Cost estimates should include land, resettlement, site preparation, and on-site and off-site infrastructure. Project costs should be identified as a total cost but also broken down into phase costs, so BEZA can understand the cost of the project per phase.

The findings of Tasks 7 and 8 are to be presented in a report and engineering drawing format. The draft report, entitled Master Planning and Infrastructure/Utility Planning for the MICTY Project will be given to BEZA for their initial review.

#### **Task 8 Deliverables**

*A chapter in the master planning and infrastructure/utilities report that includes a write up and the following:*

- *On-site infrastructure and utility plans and cost estimates for the BSM SN project, as outlined above.*
- *Off-site infrastructure and utility plans, costs, timeframes for the BSM SN project, as outlined above.*
- *A waste management plan for the BSM SN project as outlined above.*
- *Total project costs/phased project cost calculations for the BSM SN project as outlined above.*
- *A set of large scale infrastructure and utility plans for presentations/discussions.*

#### **Task 9: Consultation with relevant stakeholders**

Once the draft master plans and infrastructure planning report has been submitted to BEZA, the team will hold a workshop to present their results to BEZA and relevant stakeholders (public, private and civil society). The purpose of this workshop is to explain the project to a wider audience and to obtain critical inputs to complete the work. The team is expected to organize the workshop and incorporate stakeholder's comments into their final report. The team must also hold a series of public meetings with the greater community at the union and upazila levels, to understand the public/civil societies concerns.

#### **Task 9 Deliverables:**

- *Undertake a series of workshops with BEZA, relevant stakeholders, and at the union and Upazila levels.*



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*Dr. M. A. Hossain*  
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Ministry of Planning  
Govt. of Bangladesh

- Finalize the draft report and include inputs from the workshop and meetings.

#### Part V: Management Strategy and Promotion

##### Task 10: Prepare a development management plan

As the BSMSN project area covers land from two different districts, it may not be possible to manage and control the development of the BSMSN project with the existing regulatory system of the country. Hence, the team is tasked to identify the best mechanisms/strategy to develop and manage the BSMSN project and EZs, under the existing institutional constraints. The team will discuss the institutional development plan with BEZA and relevant stakeholders. After a thorough discussion, the team will create a new Development/Management Plan for review and approval with BEZA. The Development/Management Plan shall be presented to BEZA in a report format.

##### Task 10 Deliverables:

- A stand-alone Development/Management Plan that supports the final report. This management plan is to be presented to BEZA in a report format.

##### Task 11: Prepare a digital video animation for the proposed MICITY project

BEZA would like to promote the BSMSN and EZ project to national and international investors. As such, the team is required to prepare two, high quality, professional, investment promotion videos (of different lengths) for BSMSN and the EZs using computer animation of the site at completion. The videos should highlight the value proposition and salient features of the BSMSN plan and its EZ investment opportunities. The video should be multi-lingual and the resolution should be at least 3K, with an aspect ratio of 16:9, 30 FPS interlaced, or as agreed upon with BEZA during negotiations. The length of the videos should be 5-10 minutes and 15-20 minutes respectively or as agreed upon with BEZA during negotiations. The longer video must provide site condition in different time of the day and different seasons of the year as well as depth of field of major facilities. The video must include, but not be limited to: animation, music, voiceovers, and subtitles. BEZA must review the videos in both draft and final form.

##### Task 11 Deliverables:

- Two high quality investment promotion videos for the MICITY/EZ project as per above.

##### 03. Technology and Tools to be used

All engineering and survey work must be done on mouza maps by using advanced RTK-GPS, DGPS and total station. GPS should be used for the establishment of permanent Ground Control Point (GCP) in each of the sixteen mouzas. It is desirable that each



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d) **Infrastructure Experts**- A team of engineers is required for this project that includes at a minimum, a civil, mechanical, and structural engineer and quantity surveyor to provide roads, power, water, gas, sewerage, drainage, waste water/effluent, buildings, site preparation etc. All engineers should have a minimum of a Bachelor Degree in Civil, Mechanical or Structural engineering with at least 15 years of general experience including 8 years' experience in assessing and planning core infrastructure and utilities. CAD operators must be part of this team.

e) **Social and Environmental Experts** - Should have minimum a Bachelor Degree in Environmental and Social Planning /Management/ Environmental Science or similar with at least 15 years of general experience including 8 years' experience in urban/industrial/city planning, economic zones or export processing zone planning, etc. The experts must be knowledgeable on the World Bank (WB) Environmental and Social safeguards and standards.

f) **Economist** - Should have a minimum of a Bachelor Degree in Economics with at least 15 years of general experience, including 8 years' experience in regional economic analysis and modeling etc. Experience in working on master planning and economic zone projects would be given preference.

g) **Videographer**- Should have a film degree or similar, with at least 10 years' experience and is able to create high quality, sophisticated, professional investment promotion videos. Experience in preparing similar videos and content will be prioritized.

**Table: Summary of Minimum Requirements for the Team**

Title	Number of Positions	Expected Inputs (person-months)	Minimum General Experience (Years)	Minimum Specific experience (Years)	Area of Specialization	Special Skills and Knowledge
Team Leader	1	12	20	12	Master Degree in Physical Planning, Urban and Regional Planning or similar	Urban/industrial /city planning, economic zone or export processing zone planning
Transport Planner	1	8	15	8	Master Degree in Transport planning/ engineering	Roads, transport/modal splits, assessments
Urban Planner	1	11	15	8	Master Degree in Physical Planning, Urban, Regional Planning or similar	Urban/ industrial /city planning, economic zone or export processing zone planning
Infrastructure Experts	4-6	11	15	8	Bachelor Degree in civil, mechanical, electrical and structural Engineering	Planning, water drainage, power, wastewater, treatment plants
Social Expert	1	9	15	8	Master's Degree in Sociology, Social Science or similar	Social Assessments



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Title	Number of Positions	Expected Inputs (person-months)	Minimum General Experience (Years)	Minimum Specific experience (Years)	Area of Specialization	Special Skills and Knowledge
Environment all Expert	1	9	15	8	Bachelor Degree in Environmental Studies or similar	Environmental Assessments for economic zone or export processing zone planning
Economist	1	7	15	8	Master's Degree in Economics or similar	Regional Economic analysis
Videographer	1-2	5	10	-	Professional qualification from a Film School	Investment Promotion
Total		72				

*N.B.: Firm may propose non-key expert as per requirement*

#### 05. Final Maps

All the maps should be prepared at mouza level preferably at 1:1980 scale, with administrative boundaries from the union to district level, clearly demarcating the coastline. The team is to recommend additional map types and sizes as they see fit, in their proposal.

#### 06. Selection Method and Criteria

The Criteria for Selecting Firms will be:

- Firm history, specifically age of the firm / year of registration/incorporation;
- Experience on Economic Zone Development;
- Experience on Master Planning;
- Experience of undertaking large scale, complex urban projects;
- Work experience in Bangladesh, South Asia, Middle East and South/East Central Asian countries;
- Quality and experience of team leader and key experts; and
- Financial health of the firm.

All firms are required to submit full technical and financial proposals, which will be evaluated according to the quality- and cost-based selection (QCBS) method described in IDA Guidelines on the Selection of Consultants, January 2011, Revised July (2014). A weighting system of 80% for quality and 20% for cost will be applied.

#### 07. Reporting Requirements

The winning firm will report project progress to the Project Director through monthly progress reports. The monthly progress reports should include: i) project implementation status, ii) identification of major issues, and iii) proposed corrective actions. The team will prepare the following reports in English and submit in the number of copies as per direction of Project Director. All reports submitted must have signatures of the author



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checker and approver, with seals of the consulting firm. Each report will be accompanied by an electronic version (i.e. soft copy). Electronic copies should be transferable to other devices.

**Table: Timelines for Deliverables**

No.	Activity	Terms
1	Submission of Part I: Inception Report	Due 3 weeks after project commencement (10 copies and soft copy required.)
2	Submission of Monthly Progress Reports. (Covering monthly progress since last submission)	Every calendar month. (10 copies and soft copy required.)
3	Submission of Part II: Draft Report and Maps	Due 14 weeks after project commencement (10 copies of the report and maps and soft copy) Final report is due 4 weeks after the draft deliverable is submitted.
4	Submission of Part III: Draft Report	Due 22 weeks after project commencement. (10 copies and soft copy) Final report is due 4 weeks after the draft deliverable is submitted.
5	Submission of Part IV: Draft Report and Plans	Due 10 months into the project. (10 copies and soft copy) Final report is due 4 weeks after the draft deliverable is submitted.
6	Workshop on Draft Report and Plans	Scheduled the first week after Draft Report and Plans are submitted.
7	Submission of Part V: Draft Development Management Report and Plan and Video	Video is due 11 months after the project start up. Draft report is due 11 months after project start up. Final report and video is due last week of the project.

**08. Facilities and Equipment**

**a) To be provided by the Client**

BEZA will provide the consulting firm with available materials and data relating to the project such as maps, plans, geotechnical, resettlement, environmental and design reports and documents.

**b) To be provided by the Consultant**

The consulting firm should have at least the following facilities (but not limited to) during the project period:

- Suitable office space with consumables and communication;
- Suitable equipment for all staff to work;
- Vehicles, office equipment including telephones, computers and printers, etc.;
- Required support personnel.

No separate/additional payment is required from BEZA for the consulting firm's facilities.



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**09. Tentative Duration of the Assignment**

The duration of the assignment will be **Twelve (24) months**.

Key Activities	Duration in Months
Invitation of EOI	15/02/2021
Issue of RFP	24/03/2021
Commencement of Consulting Services	25/04/2021
Termination of Consulting Services	31/05/2023

**10. Cost Estimation**

Particulars	Key Expert		Non-Key Expert		Total (in lakh Taka)
	MM	BDT (in lakh Taka)	MM	BDT (in lakh Taka)	
Remuneration Expenses		72		200	800
Reimbursable Expenses			600	-	600
<b>Total</b>					<b>1400</b>

**10. Procurement Method**

The consulting firm will be selected according to the quality- and cost-based selection (QCBS) method under international competing bidding (ICB) process described in IDA Guidelines on the Selection of Consultants, January 2011, Revised July (2014). A weighting system of 80% for quality and 20% for cost will be applied.

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**PMC-2: Feasibility studies for development of Economic Zones (Lot-1 & Lot-2)**

**Terms of Reference**

**01. Objective of the Study**

This contract covers feasibility studies in different economic zones.

**02. Scope of Services**

feasibility studies will be conducted for independent sites. Each feasibility study will be comprised of the following tasks:

**Task 1:** A Competitiveness Analysis, Transport Assessment, Industry/ Market Assessment and Demand Forecast

**Task 2:** Master Planning, Infrastructure and Financing Requirements, and an Environmental and Social Footprint

**Task 3:** Institutional Framework

**Task 4:** Economic and Financial Modelling

**Component 1: Competitive Advantage and Industry Assessment**

**Activity 1: Stakeholder Meetings and a Review of Existing Studies/Information**

The consulting team will meet with key BEZA staff, relevant Ministries and government agencies, the World Bank Group, and utility providers, as well as, all other interested stakeholders (private/public sectors and civil society) to discuss the selected sites and their development and investment parameters, issues and opportunities.

The consulting team will also examine all background information, relevant laws, policies, decrees, maps, and existing studies, documents, and/or reports previously undertaken to understand the key/unique development issues for each site and the new economic zone law and policy, as well as sector studies for any identified potentially competitive industries

***Deliverable:*** An inception report and presentation. A list of all meetings and interviews with meeting notes and another list of studies and documents examined, gap analysis, and work plan will be provided to BEZA.

**Activity 2: Competitiveness Analysis**

The consulting team will undertake a global, regional and local assessment of investment factors to determine each site's competitive advantage and given the attributes and connectivity of the site which sectors and subsectors for which each site might potentially be competitive. Each EZ location should be benchmarked against approximately 6 regional and global industrial/economic zones/areas, with which the sites will be directly competing.



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These locations shall be formally agreed upon with BZVA before the project commences, and can either be the same 6 sites or some variation of them, according to the site 1.

The benchmarking indicators should include, but not be limited to, a review of the: i) macro-economic environment, ii) infrastructure & utilities, iii) policies & government interventions, iv) incentives, v) type of industry, vi) individual operating costs, and vii) quality of life factors.

*Deliverable: A competitiveness analysis for each site with a benchmarking assessment against 6 regional and global locations. Each site's individual competitive advantages should be highlighted. A matrix summary should be included in an excel spread sheet.*

#### Activity 3: Transport Assessment

The consulting team will review the transport modes and networks that will support each HZ development. A critical assessment of existing conditions, potential opportunities and constraints should be identified, and a list of recommended transport infrastructure and networks should be highlighted in order to make each location a viable multi-modal transport platform. The transport options should support the individual types of industry sectors being proposed for each site.

*Deliverable: A transport assessment reviewing existing conditions, ongoing/upcoming off-site infrastructure/facilities and constraints and identifying potential opportunities to make each site a multi-modal transport platform.*

#### Activity 4: Industry/Market Assessment

The objective of this activity is two-fold: 1) to determine the target industry sectors for each site, and 2) to develop sector profiles, which will estimate the: i) plot requirements, ii) factory sizes, iii) water consumption/year, iv) ETP/STP/CETP requirement, v) gas & electricity requirements, vi) training needs and vii) employee statistics for each industry sector over a 20-year period.

The types of industry sectors identified for each site should be determined via the following methodology:

- Undertake detailed survey/interviews with the private sector<sup>2</sup>;
- Review Country Investment Data;
- Review Bangladesh's Trade Data;

Once the sector data has been examined and the surveys/interviews completed, the consulting team should provide a regional and local overview of each sector to be targeted and identify existing and future inter trends for Bangladesh.

<sup>1</sup> For example, if one site is initially deemed to be potentially competitive for a single sector, that site should be compared against other zones in that specific sector to the degree possible, whereas multi-modal zones should be compared against multi-modal zones. If all sites are deemed to be potentially competitive as multi-modal zones, the same 6 comparator zones can be used.

<sup>2</sup> A detailed demand survey model is annexed.

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**Deliverable:** A target industry assessment with detailed sector profiles for each site. It is important that each location be studied separately and the targeted industrial assessment is not for Bangladesh as a whole, but is site specific.

#### Activity 5: Demand Forecasts

Utilizing the outcome of the Industry/Market Assessments, the consulting team will prepare a 20-year demand forecast for each site. The demand projections shall be developed in three scenarios: i) a conservative case, ii) a base case, and iii) an aggressive case. Each scenario should have clearly stated assumptions and the consulting team's worksheets should be made available to BEZA for review, in advance of the work, so the methodology is agreed to by both parties. In addition, the findings of the demand forecasts shall highlight, in 5-year intervals, the amount of land required and the number of investors projected for each location.

**Deliverable:** A 20-year demand forecast for each Economic Zone location.

#### Activity 6: Market Strategy

Under this activity, the consulting team is to prepare a market strategy for each economic zone. The purpose of the market strategy is to provide BEZA with an overview of how each site should be packaged, promoted, and what type of materials would be needed for each zone's start up.

The market strategy should include, but not be limited to:

- Identify overall strategy, timing, and implementation framework and responsibilities
- Identify target markets, countries, and investor profiles
- Identify types of promotional tools and materials required
- Identify opportunities to coordinate with other promotional agencies in Bangladesh

**Deliverable:** A market strategy that complements the development strategy for the Economic Zone's location. Each site must have a marketing strategy.

#### **Component 2: Master Planning, Infrastructure & Financing Requirements, and an Environmental & Social Footprint**

The consulting team will undertake the following as part of Component 2 activities:

#### Activity 1: Site Assessment

The consulting team will undertake a site assessment and SWOT analysis for each location. This will examine key issues such as: i) planning policies, ii) surrounding context, iii) land tenure/ownership, iv) physical landscape, v) access to national infrastructure, vi) on and off-site infrastructure, vii) environmental, and viii) social/settlement issues, opportunities and constraints. Any fatal flaws must be highlighted at this point.

**Deliverable:** A Site Assessment for each of the Economic Zone locations.



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### Activity 2: Best Practice Master Plan

The consulting team will develop a best practice master plan for each site based upon the market/industry assessment, sector profiles, transport assessment and the demand forecast findings proposed in Component 1.

Each master plan will:

- i) identify guiding planning principles for the development of the sites,
- ii) develop a list of permitted land uses (a land use plan) for each site, and
- iii) zoning requirements (a zoning plan) for each location.

The zoning will include setbacks, height limits, appropriate densities, and open space requirements as per national and organizational code of construction. In addition, a phasing plan should be prepared for each location.

Each EZ should be flexible to handle potential changing needs over a 20 year timeframe, and designed to maximize leasable plots and to optimize the plot to infrastructure ratio. Road networks and widths should be developed to mitigate transportation problems such as congestion and should be designed to promote the movement of heavy transportation equipment along with the provision for routine service/maintenance.

Design guidelines should be prepared for the sites and they should include, but not be limited to, the following:

- Building orientation on the plot;
- Building facades (no blank walls);
- Access to the plot;
- Setbacks, height limits and densities;
- Landscaping requirements;
- Parking and loading requirements;
- Signage requirements;
- Environmental, occupational health safety & emergency requirements.

*Deliverable: A best practice master plan, permitted land use designations, and a phasing plan and design guidelines for each site.*

### Activity 3: On and Off Site Infrastructure Requirements and Associated Costs

The consulting team will conduct topographic survey and develop on-site infrastructure concept plans for each site including determine indicative costs of site development and infrastructure provisions that shall include: i) Land development/filling, ii) embankment, iii) boundary walls, iii) roads, iv) water supply/distribution network/drainage, iv) electricity, iv) gas, v) storm water, vi) wastewater/industrial water/solid waste, vii) effluent treatment plant/collection network, viii) street lighting and fencing, and ix) telecommunications. Any other on-site concept drawings (buildings etc.) or utility drawings such as cross-sections or



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elevations to support the understanding of the master plan are encouraged. On-site concept drawings should be produced at a size that can be reduced as well as, included in the final report. These drawings however must be readable and be properly explained in the body of the report.

These on-site infrastructure systems should be designed comprehensively but should be cost estimated by phase, viability gap funding to aid in the preparation of the financial modeling in Component 4. The size of on-site infrastructure should also be designed to match the industry sector demand and forecast in Component 1. Costs for the construction of the on-site infrastructure should include any earthworks to be done to the land to prepare it for development. Land costs (purchase costs) should also be included in the cost estimates.

In addition to the on-site infrastructure, the consulting team will identify what type of off-site infrastructure is required and/or what improvements need to be undertaken (roads, water/electrical lines, substations etc.) for each site, who will be financially responsible for this infrastructure (utility providers, private or public sector) and the necessary timing of construction of this off-site infrastructure in order for it to not delay the construction and opening of each EZ location. Ballpark costing of the off-site infrastructure is acceptable at +/- 20%.

***Deliverable:** A set of on-site infrastructure drawings for each EZ master plan including topographic survey report and an overview of necessary off-site infrastructure needs/improvements and their tentative costs, in order for each site to be successful.*

#### **Activity 4: Environmental and Social Footprint**

As part of this exercise, BEZA would like the consulting team to review the environmental and social issues on each site, including resettlement, if required. This is not intended to be a full environmental impact assessment, social impact assessment or resettlement plan but a comprehensive review of the key issues.

A review of the physical environment should be included for each site, but not be limited to: i) climate, ii) land use/topography, iii) agriculture, iv) ecology, v) air quality, vi) noise, vii) soil quality and geology, viii) surface water, and ix) ground water.

In addition, an assessment of the biological environment should be undertaken and should include, but not be limited to: i) vegetation, ii) flora and fauna, iii) animals, and iv) ecologically sensitive/protected areas or special areas in the surrounding community.

Lastly, a review of the human and social environment should be undertaken and should include, but not be limited to: i) health and safety, ii) socioeconomic and resettlement issues, iii) working & labour condition, iv) minority/child issues iii) historic and cultural aspects, if applicable.

This review should also specifically address gender issues, and i) how women and girls in particular will be impacted by the project and ii) how women and girls can be included in the benefits that the opportunity will derive from the project.



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At this stage, the consulting team should highlight areas of significant problems or fatal flaws and/or propose ways of both mitigating the problems and designing management plans for moving forward. While undertaking this review, it should be kept in mind that each site will be utilized for a variety of industry sectors and these impacts on the physical and social environment must be identified and mitigated in the future. All mitigation measures for both the environmental and social aspects should be quantified in such a way that the costs can be included directly in the financial and economic analysis.

*Deliverable: An environmental and social footprint (including resettlement, livelihood if required) of each site with mitigation and management plans proposed for key problems.*

#### **Component 3: Institutional Framework**

The consulting team will undertake the following as part of Component 3 activities:

##### **Activity 1: Identify Institutional Framework**

The consulting team is to identify the best institutional framework for each or all Economic Zone sites. This should include the preferred management framework for the operations of the Economic Zones. The most appropriate modality of undertaking the PPP should also be evaluated to facilitate the site be developed under PPP (PPP options should be identified). A management plan (organogram) should be developed in this activity and a profile of all major management positions should be prepared.

*Deliverable: A chapter in each feasibility study that identifies the best institutional framework for each site including a description of the management framework and staff profiles.*

#### **Component 4: Economic and Financial Modelling**

The consulting team will undertake the following as part of Component 4 activities:

##### **Activity 1: Economic Model**

In order to determine the economic benefits of each Economic Zone and to ensure that each Zone's economic and social gains to the government outweigh the costs incurred by the government, the consulting team will conduct an economic analysis for each site location, which will include direct/indirect costs and benefits to the government and society. The results will be a projected economic rate of return (ERR). The economic model should allow for the changing of multiple factors and costs to see the effects of those changes on the ERR (sensitivity analysis). In the consulting team's proposal, it is expected that a methodology, an approach, and clear assumptions will be identified. This would include a list of the economic indicators to be used in the model.



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*Deliverable: An economic model for each Economic Zone site that illustrates the economic/social benefits (ERR) of each project.*

*Deliverable: A financial model and sensitivity tests for each site.*

**Activity 2: Financial Model**

Based on earlier components such as the industry/market assessment, the demand forecast, and the master plan, the consulting team will perform a financial analysis of each Economic Zone site, advise on viability gap funding to determine its feasibility in the short, medium and long term (20 years). The financial models should indicate the internal rate of return (IRR) of each project, undertake sensitivity tests, and allow for the changing of multiple factors and costs to see the effects of those changes on the IRR. To ensure agreement, the financial model, assumptions, and worksheets themselves, must be approved by BEZA in advance of the financial modelling.

**03. Reporting and Timeframes**

In the process of negotiating the contract, BEZA and the selected consultants will discuss whether the studies are to be conducted simultaneously with interim reports due at the same time for initiating each of the feasibility studies. Regardless of this decision, these feasibility studies should be completed over a 12 (twelve) months period.

The following reports are required:

- An inception report and presentation - 2 weeks after start up for each site (or simultaneously, depending on a decision among all parties during the negotiation phase);
- Interim report and presentation - Components 1 through 3 deliverables;
- Draft final report and presentation-All components, before the project is scheduled to end; and
- Final report.

SN	Component /Activity	Deliverables	Timeline
A	<b>Component 1: Competitive Advantage and Industry Assessment</b>		
1	Activity 1: Stakeholder Meetings and a Review of Existing Studies/ Information	<ul style="list-style-type: none"> <li>• An Inception report and presentation.</li> <li>• A list of all meetings/ interviews with meeting notes.</li> <li>• A list of studies and documents examined.</li> </ul>	Within 2 Months
2	Activity 2: Competitiveness Analysis	<ul style="list-style-type: none"> <li>• A competitiveness analysis for each site with a benchmarking assessment against 6 regional and global locations.</li> <li>• Individual competitive advantages of each.</li> <li>• A matrix summary in an excel spread sheet.</li> </ul>	Within 3 Months
3	Activity 3: Transport Assessment	<ul style="list-style-type: none"> <li>• A transport assessment reviewing existing conditions and constraints.</li> <li>• Identifying potential opportunities to make each site</li> </ul>	Within 4 Months



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SN	Component /Activity	Deliverables	Timeline
4	Activity 4: Industry/Market Assessment	a multi-modal transport platform. A target industry assessment with detailed sector profiles for each site, studied separately and site specific.	Within 5 Months
5	Activity 5: Demand Forecasts	20-year demand forecast for each Economic Zone location.	Within 6 Months
6	Activity 6: Market Strategy	Market strategy for each sites that complements development strategy for the Economic Zone's location.	Within 7Months
B	<b>Component 2: Master Planning, Infrastructure Requirements and Environmental and Social Footprint</b>		
7	Activity 1: Site Assessment	A Site Assessment for each of the Economic Zone locations.	Within 8 Months
8	Activity 2: Best Practice Master Plan	<ul style="list-style-type: none"> <li>A best practice master plan, permitted land use designations, and a phasing plan for each site.</li> </ul>	Within 8 Months
9	Activity 3: On and Off Site Infrastructure Requirements and Associated Costs	<ul style="list-style-type: none"> <li>A set of on-site infrastructure drawings for each EZ master plan.</li> <li>Topographic survey report and design guidelines.</li> <li>An overview of necessary off-site infrastructure needs/ improvements, for each site to be successful.</li> </ul>	Within 8 Months
10	Activity 4: Environmental and Social Footprint	<ul style="list-style-type: none"> <li>An environmental and social footprint (including resettlement, if required) of each site.</li> <li>Mitigation and management plans for key problems.</li> </ul>	Within 8 Months
C	<b>Component 3: Institutional Framework</b>		
11	Activity 1: Identify Institutional Framework	<ol style="list-style-type: none"> <li>The best institutional framework for each site.</li> <li>Description of the management framework and staff profiles.</li> </ol>	Within 10 Months
D	<b>Component 4: Economic and Financial Modelling</b>		
12	Activity 1: Economic Model	An economic model for each Economic Zone site that illustrates the economic/social benefits (ERR) of each project.	Within 10 Months
13	Activity 2: Financial Model	A financial model and sensitivity tests for each site.	Within 12 Months

#### 04. Expert Man-Month

SN	Position	No	MM for Lot 1	MM for Lot 2
1	Team leader / Municipal development expert	1	8	8
2	EZ Master Planning Expert	1	6	6
3	Infrastructure Expert	1	6	6
4	Financial Expert	1	6	6
5	Industry Sector Expert	1	6	6
6	Social Expert	1	6	6
7	Environmental Expert	1	6	6
Total		7	44	44



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### 05. Key Expert Competencies

The team of key consultants is expected to be comprised of a Team Leader, an Economic Zone Master Planning Expert, an Infrastructure Expert, a Financial Expert, an Industry Sector Expert, a Social Expert and an Environmental Expert – all having at least Master's degree in relevant discipline and at least 10 years related experience.

APPENDIX B - KEY EXPERTS\*

SN	Position	Qualification	MM	Experience
1	Team Leader	Master Degree in Physical Planning, Urban and Regional Planning or similar	8	<ul style="list-style-type: none"> <li>Minimum 15 years general experience in the similar position</li> <li>Minimum 10 years specific experience in the similar field.</li> </ul>
2	EZ Master Planning Expert	Master Degree in Physical Planning, Urban, Regional Planning or similar	6	<ul style="list-style-type: none"> <li>Minimum 12 years general experience in the similar position</li> <li>Minimum 10 years specific experience in the similar field.</li> </ul>
3	Infrastructure Expert	Bachelor Degree in civil, mechanical, electrical and structural Engineering	6	<ul style="list-style-type: none"> <li>Minimum 12 years general experience in the similar position</li> <li>Minimum 10 years specific experience in the similar field.</li> </ul>
4	Financial Expert	Master's Degree in Finance/Economics or similar	6	<ul style="list-style-type: none"> <li>Minimum 12 years general experience in the similar position</li> <li>Minimum 10 years specific experience in the similar field.</li> </ul>
5	Industry Sector Expert	Master's Degree in Business Administration/ Economics or similar	6	<ul style="list-style-type: none"> <li>Minimum 12 years general experience in the similar position</li> <li>Minimum 10 years specific experience in the similar field.</li> </ul>
6	Social Expert	Master's Degree in Sociology, Social Science or similar	6	<ul style="list-style-type: none"> <li>Minimum 12 years general experience in the similar position</li> <li>Minimum 10 years specific experience in the similar field.</li> </ul>
7	Environmental Expert	Master's Degree in Environmental Studies or Similar	6	<ul style="list-style-type: none"> <li>Minimum 12 years general experience in the similar position</li> <li>Minimum 8 years specific experience in the similar field.</li> </ul>

\*Signed CVs of Key Experts should be attached. Non-Key expert as per requirement

### 06. Supporting Staff

The consultant team may employ supporting staff for the supervision of the sub-projects and operation of the project office, if required. The supporting staff may include:

- 1) Data collector
- 2) Administrator
- 3) Accountant
- 4) Typist

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**07. Cost Estimation**

Particulars	Key Expert		Non-Key Expert		Total (in lakh Taka)
	MM	BDT (in lakh Taka)	MM	BDT (in lakh Taka)	
Lot-1: Feasibility Study					
Remuneration Expenses		44		75	275
Reimbursable Expenses					250
Lot-2: Feasibility Study					
Remuneration Expenses		44		75	275
Reimbursable Expenses					250
<b>Total</b>					<b>1050</b>

**08. Expected Time Schedule**

The total duration of consulting services will be 48 months. The implementation schedule expected is as shown in Table.

Key Activities	Duration in Months (Lot-1)	Duration in Months (Lot-2)
Invitation of EOI	15/03/2021	15/03/2022
Issue of RFP	24/04/2021	24/04/2022
Commencement of Consulting Services	23/07/2021	23/07/2022
Termination of Consulting Services	24/07/2022	24/07/2023

**09. Procurement Method**

The procurement will be conducted under 2 (two) lots. The consulting firm will be selected according to the quality- and cost-based selection (QCBS) method under international competing bidding (ICB) process described in IDA Guidelines on the Selection of Consultants, January 2011, Revised July (2014). A weighting system of 80% for quality and 20% for cost will be applied.

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## PMC 3: Regulatory Reform and Advisory Services

### Terms of Reference

#### 01. Objectives of Consulting Services

The advisory services shall be provided by consulting firm(s) in compliance with Guidelines for the Employment of Consultants under the GoB and World Bank. Quality and Cost Based Selection (QCBS) method will be followed for this procurement under the financial assistance of World Bank administered by BEZA.

The consulting firm will provide best practice solution for EZ policy and regulatory reforms of BEZA that will reflect a business friendly environment with streamlined and efficient regulatory oversight of EZ users and drive the EZ Bangladeshi program into a global competitive position based on predictable system, transparency and accountability.

#### 02. Scope of Consulting Services

The consulting firm will be required to provide a comprehensive advisory service with a view to:

- Determine and select at least five best international EZ regulatory systems and policy approaches and compare with BEZA's own regulatory framework and policy strategy. Examples of EZ best international practice regulatory systems: Malaysia, Thailand, Turkey and Poland;
- Determine position of BEZA vis-a-vis international best practice indicating shortfalls, incompetent practices, strong points contextualized with BEZA Act 2010. Identify the limitations within the Act and potential upgrades/amendment to reach international competitiveness. The study will address the key concerns such as, the Scope of the Act with a view to the applicability of the conventional or special regulatory regimes exclusively to the EZs alongside the regulatory/obligatory/optional/coordinating roles of BEZA in this pursuit;
- Identify the critical regulatory gaps that are currently present in the sphere of EZs in Bangladesh; for instance, at present there is no regulatory framework for developing logistics hubs/parks in Bangladesh. Additionally, mention the position of global competitors like Malaysia, Vietnam, Thailand and India on these regulations;
- Analyze the One Stop Service (OSS) provided by BEZA to users and developers based on criteria such as: Delivery cycle periods, transparency, uniformity of applications, IT enablement based on Standard Operating Procedures (SOPs), virtual access to the OSS as opposed to physical access, upgrade needs, fee payment, Addressing critical concerns evaluating the system as a cost recovery or income generating option and modality of fee payments.
- Review the regulatory implications of launching a business oriented backward linkages initiative by BEZA to integrate local businesses to EZ user's production network competitively. Provide recommendations on regulatory reforms with a view to allow smooth transactions in case the existing frameworks is not conducive to facilitate shared production between local businesses and EZ users;
- Engage with relevant stakeholders and clients of BEZA to concur on and prioritize the relevance of regulatory reforms and provide a roadmap and timeline depicting how it can be achieved;
- To ensure regulatory efficiencies of new system, prepare a process/procedural plan to audit all regulatory steps to adjust as needed for competitiveness and/or public protection, adjust any deviance from the designated process/procedure. Activity will be on going and will be particularly important to the OSS to ensure needed upgrades and adjustments to secure a valued service.



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### 03. Expected Time Schedule

The total duration of consulting services will be 48 months. The implementation schedule expected is as shown in Table.

Key Activities	Duration in Months
Invitation of EOI	15/08/2021
Issue of RFP	24/09/2021
Commencement of Consulting Services	23/12/2021
Termination of Consulting Services	24/12/2025

### 04. Expertise Required

The consultant team will consist of both Key Expert and Non-Key Expert and will be engaged for the duration of consulting services. The team of Key consultants (International) is expected to be comprised of a Team Leader, Legal Consultant, Investment Promotion Consultant, Jr. Legal Consultant, Jr. Investment Promotion Consultant, and Coordinator.

Table: Experts and Indicative Expected Man-Months (MM)

SN	Position	No	MM	Total
1	Team Leader	1	10	10
2	Legal Consultant	1	20	20
3	Investment Promotion Consultant	1	20	20
4	Jr. Legal Consultant	2	20	40
5	Jr. Investment Promotion Consultant	1	20	20
6	Coordinator	1	12	12
<b>Total</b>		<b>07</b>	<b>102</b>	<b>122</b>

N. B.: Firm may propose additional Non-Key expert as per requirement

### 05. Qualification and Experiences


The following tables provide minimum qualification for educational background and professional experiences.

Table: Qualification of Key Experts and Non-Key Experts

SN	Position	Qualification	Experience
1	Team Leader	Master's degree in Laws (LL.M)	<ul style="list-style-type: none"> <li>Minimum 15 years general experience in the similar position</li> <li>Minimum 10 years specific experience in the similar field.</li> </ul>
2	Legal Consultant	Master degree in Law (LL.M).	<ul style="list-style-type: none"> <li>Minimum 12 years general experience in the similar position</li> <li>Minimum 8 years specific experience in the similar field.</li> </ul>

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SN	Position	Qualification	Experience
3	Investment Promotion Consultant	Master degree in Business Administration	<ul style="list-style-type: none"> <li>• Minimum 12 years general experience in the similar position</li> <li>• Minimum 8 years specific experience in the similar field.</li> </ul>
4	Jr. Legal Consultant	Master degree in Law (LL.M.)	<ul style="list-style-type: none"> <li>• Minimum 12 years general experience in the similar position</li> <li>• Minimum 8 years specific experience in the similar field.</li> </ul>
5	Jr. Investment Promotion Consultant	Master degree in Business Administration	<ul style="list-style-type: none"> <li>• Minimum 12 years general experience in the similar position</li> <li>• Minimum 10 years specific experience in the similar field.</li> </ul>
6	Coordinator	Master degree in Business Administration	<ul style="list-style-type: none"> <li>• Minimum 8 years general experience in the similar position</li> <li>• Minimum 4 years specific experience in the similar field.</li> </ul>

\* Signed CVs of Key Experts should be attached.

#### 06. Supporting Staff

The consultant team may employ supporting staff for the supervision of the sub-projects and operation of the project office, if required. The supporting staff may include:

- 1) Administrator
- 1) Accountant
- 1) Typist

#### 07. Reporting

Within the scope of consulting services, the Consultant shall prepare and submit reports and documents to the Employer, as shown in Table. The Consultant shall provide hard and electronic copy of each of these reports.

Table: List of submission report

SL	Type of Report	Time Frame	No. of copies
1	Inception Report	Within 30 days after commencement of the services with presentation at project office	07
2	An institutional benchmark report of EZ best international practice compared to BEZA's EZ program.	An institutional benchmark report of EZ best international practice compared to BEZA's EZ program. Report should indicate lessons learned from the EZs of international arena, key dos and don'ts and way forward by comparing with BEZA's legal, regulatory, policy practices.	05
3	A report on the current regulatory gaps	A report on the current regulatory gaps in the sphere of EZs in Bangladesh which will require immediate measures for sustained efficacy and functionality of the EZs; for instance, at present there is no regulatory	05



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Sl	Type of Report	Time Frame	No. of copies
		framework for setting up logistics hubs in Bangladesh EZs. Additionally, provide benchmarking with competitive countries such as Malaysia, Thailand and India and brief on their regulations with recommendations.	
4	A detail process/procedural analysis of the OSS	A detail process/procedural analysis of the OSS indicating and comparing key metrics derived from best practice EZ OSSs such as delivery timelines, predictability of process/procedures, fees, digitalization, measure performance based on the voice of the user and periodic upgrades as market indicates	05
5	Develop a comprehensive action plan	Develop a comprehensive action plan for regulatory reforms based on the level of relevance and priorities by thorough discussions with relevant stakeholders.	05
6	Develop and deliver a presentation of salient parts	Develop and deliver a presentation of salient parts of the effort including time bound implementation plans, role of needed partners, meeting review frequency to determine progress, shortfall and remedies	05
7	Draft at least five selected laws/ rule/regulations/ instruments	Draft at least five selected laws/ rule/ regulations/ instruments identified as immediate priorities	05
8	Draft Final Report	Six months prior to completion of the services with presentation at project office	10
9	Final Report	Before 1 months of the contract closing	20

#### 08. Cost Estimation

Particulars	Key Expert		Non-Key Expert		Total (in lakh Taka)
	MM	RDT (in lakh Taka)	MM	RDT (in lakh Taka)	
Remuneration Expenses		102		80	580
Reimbursable Expenses					100
<b>Total</b>					<b>680</b>

#### 09. Procurement Method

The consulting firm will be selected according to the quality- and cost-based selection (OCBS) method under international competing bidding (ICB) process described in IDA Guidelines on the Selection of Consultants, January 2011, Revised July (2014). A weighting system of 80% for quality and 20% for cost will be applied.

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**PMC 4: PPP Training Firm (Lot-1)**  
**Terms of Reference**

**01. Objectives of Consulting Services**

The consulting services shall be provided by consulting firm(s) in compliance with Guidelines for the Employment of Consultants under the GoB and World Bank Quality and Cost Based Selection (QCBS) method will be followed for this procurement under the financial assistance of World Bank administered by BEZA. The objective of the consulting services is to providing capacity building support to BEZA on PPP issues by executing a complete training Programme for BEZA staff, particularly BEZA PPP cell and other BEZA departments as necessary.

**02. Scope of Consulting Services**

This firm will be responsible to:

- Develop and deliver a two-year training curriculum for BEZA staff with a focus on financial modeling, project structuring, procurement and conducting performance evaluation and oversight of the project companies. The training curriculum, as presented below, would involve examination and certification system based on successful completion of the curriculum and passing of said exams.
- Provide training to the BEZA staff on project preparation and implementation process including the transaction structuring, risk allocation at different stage including investment stage, commercial and financial viability, bankability of project and project companies etc. so that BEZA staff have an adequate understanding of the different aspects of project preparation, structuring and companies implementation follow up and are able to make use of them while going forward.
- Provide training to the BEZA staff on financial modeling for PPP transactions so that they have basic capacity to evaluate financial models developed by transaction advisors.
- Create unified working templates so that BEZA PPP Cell deliverables related to PPP projects are consistent and relevant.
- Refine the PPP guidelines to make them practical and operationally feasible through regular interactions with BEZA staff and management.
- Help BEZA operationalize the PPP Guidelines through adequate project implementation support.

**03. Expected Time Schedule**

The total duration of consulting services will be 51 months. The implementation schedule expected is as shown in Table.

Key Activities	Duration in Months
Invitation of EOI	15/05/2021
Issue of RFP	24/06/2021
Commencement of Consulting Services	22/09/2021
Termination of Consulting Services	31/12/2025



**Anisur Rahman**  
Director

Director

Prime Minister's Office

Govt. of the People's Republic of Bangladesh

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#### 04. Expertise Required

The consultant team will consist of both Key Expert and Non-Key Expert and will be engaged for the duration of consulting services. Key Expert and Non-Key Expert required to execute the Consulting Services are summarized in the following table:

Table: Key Experts and Indicative Expected Man-Months (MM)

SN	Position	No	MM	Total
1	Team leader / PPP expert	1	48	48
2	Financial Modeling expert	1	48	48
3	Legal expert	1	20	20
4	Transaction Structuring expert	1	48	48
<b>Total</b>		<b>04</b>	<b>164</b>	<b>164</b>

Table: Non-Key Experts and Indicative Expected Man-Months (MM)

SN	Position	No	MM	Total
1	Coordinator	1	15	15
2	Jr. PPP Expert	1	48	48
3	Jr. Financial Modeling expert	1	48	48
<b>Total</b>		<b>03</b>	<b>111</b>	<b>111</b>

#### 05. Qualification and Experiences

The following tables provide minimum qualification for educational background and professional experiences.

Table: Qualification of Key Experts and Non-Key Experts

SN	Position	Qualification	Experience
A.	Key Expert		
1	Team Leader	Master degree in business administrator/ procurement/ or B. Sc. in Engineering or in a related field. Advance academic / professional qualification in procurement and supply chain management (e.g. MCQPS, CPISM) is preferred. (50% office will be the Project Director office at Dhaka)	<ul style="list-style-type: none"> <li>Minimum 15 years general experience in the similar position</li> <li>Minimum 10 years specific experience in related field.</li> </ul>
2	Financial Modeling expert	Master Degree in Economics/ Finance or Accounting	<ul style="list-style-type: none"> <li>Minimum 12 years general experience in the similar position</li> <li>Minimum 10 years specific experience in the related field.</li> </ul>
3	Legal Consultant	Master degree in Law (L.L.M).	<ul style="list-style-type: none"> <li>Minimum 12 years general experience in the similar position</li> <li>Minimum 8 years specific experience in the related field.</li> </ul>

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 Anisur Rahman  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

১৯৭৫ সালের ১১ই আগস্ট  
 বাংলাদেশ সরকার  
 প্রধানমন্ত্রীর কার্যালয়  
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SN	Position	Qualification	Experience
4	Transaction Structuring expert	Master degree in Business Administration	<ul style="list-style-type: none"> <li>• Minimum 12 years general experience in the similar position</li> <li>• Minimum 8 years specific experience in the similar field.</li> </ul>
R.	Non-Key Expert		
1	Coordinator	Master degree in Business Administration	<ul style="list-style-type: none"> <li>• Minimum 8 years general experience in the similar position</li> <li>• Minimum 4 years specific experience in the related field.</li> </ul>
2	Jr. PPP Expert	Master degree in Business Administration/ Procurement/ or B.Sc. in Engineering or in a related field. Advance academic / professional qualification in procurement and supply chain management (e.g. MCIPS, CPSM) is preferred (\$0% office will be the Project Director office at Dhaka)	<ul style="list-style-type: none"> <li>• Minimum 8 years general experience in the similar position</li> <li>• Minimum 4 years specific experience in the related field</li> </ul>
3	Jr. Financial Modeling expert	Master Degree in Economic/ Finance or accounting	<ul style="list-style-type: none"> <li>• Minimum 5 years general experience in the similar position</li> <li>• Minimum 2 years specific experience in the similar field.</li> </ul>

\* Signed CVs of Key Experts should be attached. Firm may propose additional Non-Key expert as per their requirement

#### 06. Supporting Staff

The consultant team may employ supporting staff for the supervision of the sub-projects and operation of the project office, if required. The supporting staff may include:

- 1) Accountant
- 2) Typist

#### 07. Reporting

Within the scope of consulting services, the Consultant shall prepare and submit reports and documents to the Employer, as shown in Table. The Consultant shall provide hard and electronic copy of each of these reports.

Table: List of submission report

Sl.	Type of Report	Time Frame	No. of copies
1	Inception Report	Within 20 days after commencement of the services with presentation at project office	07
2	Develop and deliver a two-year training curriculum for BEZA staff with a focus on financial modeling, project structuring, procurement and conducting performance evaluation and oversight of the project companies.	Within 3 month after commencement of the services with presentation at project office	05
3	Provide training to the BEZA staff on project preparation and implementation of the services with presentation at	Within 16 month after commencement	05



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Anisur Rahman

Director  
Prime Minister's Office  
Govt. of the People's Republic of Bangladesh

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স্বাক্ষরিত  
মন্ত্রীর কার্যালয়  
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	process including the transaction structuring, risk allocation at different stage including investment stage, commercial and financial viability	project office	
4	Provide training to the BEZA staff on financial modeling for PPP transactions	Within 18 month after commencement of the services with presentation at project office	05
5	Create unified working templates so that BEZA PPP Cell deliverables related to PPP projects are consistent and relevant.	Within 18 month after commencement of the services with presentation at project office	05
6	Help BEZA operationalize the PPP Guidelines through adequate project implementation support as BEZA staff develop PPP transactions going forward	Before termination of contract	05
7	Draft Final Report	Within 49 month after commencement of the services with presentation at project office	10
8	Final Report	Before 1 months of the contract closing	20

#### 08. Cost Estimation

Particulars	Key Expert		Non-Key Expert		Total (in lakh Taka)
	MM	BDT (in lakh Taka)	MM	BDT (in lakh Taka)	
Remuneration Expenses		164		650	850
Reimbursable Expenses				111	200
<b>Total</b>					<b>1500</b>

#### 09. Procurement Method

The consulting firm will be selected according to the quality- and cost-based selection (QCBS) method under international competing bidding (ICB) process described in IDA Guidelines on the Selection of Consultants, January 2011, Revised July (2014). A weighting system of 80% for quality and 20% for cost will be applied.



*QCBS*  
 সিনিয়র উপসচিব  
 সিনিয়র উপসচিব (সি.সি.সি.)  
 সরকার (সি.সি.সি.) (সি.সি.সি.)

*Ansur Rahman*  
**Ansur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

## PMC 4: PPP Guideline for BEZA (Lot-2)

### Terms of Reference

#### 01. Objectives of Consulting Services

The purpose of these terms of reference is to hire an external firm through competitive procurement for operationalizing the PPP Guidelines with adequate project implementation support for BEZA.

#### 02. Scope of Consulting Services

This firm will be responsible for:

- Developing and delivering on a two-year training curriculum for BEZA staff with a focus on financial modeling, project structuring, procurement and conducting performance evaluation and oversight of the project companies. The training curriculum, as presented below, would involve examination and certification based on successful completion of the curriculum and passing of said exams.
- Provide training to the BEZA staff on project preparation and implementation process including the transaction structuring, risk allocation at different stage including investment stage, commercial and financial viability, bankability of project and project companies etc. such that BEZA staff have an adequate understanding of the different aspects of project preparation, structuring and companies implementation follow up and are able to make use of them going forward.
- Provide training to the BEZA staff on financial modeling for PPP transactions such that they have basic capacity to evaluate financial models developed by transaction advisors.
- Create unified working templates so that BEZA PPP Cell deliverables related to PPP projects are consistent and relevant.
- Refine the PPP guidelines to make them practical and operationally feasible through regular interactions with BEZA staff and management.
- Help BEZA operationalize the PPP Guidelines through adequate project implementation support as BEZA staff develop PPP transactions going forward.

#### 03. Expected Time Schedule

The total duration of consulting services will be 50 months. The implementation schedule expected is as shown in Table.

Key Activities	Duration in Months
Invitation of EOI	15/06/2021
Issue of RFP	25/07/2021
Commencement of Consulting Services	23/10/2021
Termination of Consulting Services	31/11/2022

#### 04. Expertise Required

The consultant team will consist of both Key Expert and Non-Key Expert and will be engaged for the duration of consulting services. The team of key consultants (International) is expected to be comprised of a Team leader / PPP expert, Financial Modeling expert, Legal expert & Transaction Structuring expert.



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 ড. মাহবুবুল হক  
 প্রধান উপদেষ্টা  
 (স্বাক্ষরিত)

*S. Rahman*  
 Director  
 Prime Minister's Office  
 The People's Republic of Bangladesh

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 Director  
 Prime Minister's Office  
 The People's Republic of Bangladesh

Table: Key Experts and Indicative Expected Man-Months (MM)

SN	Position	No	MM	Total
1	Team leader / PPP expert	1	10	10
2	Financial Modeling expert	1	10	10
3	Legal expert	1	10	10
4	Transaction Structuring expert	1	10	10
<b>Total</b>		<b>04</b>	<b>40</b>	<b>40</b>

Table: Non-Key Experts and Indicative Expected Man-Months (MM)

SN	Position	No	MM	Total
1	Coordinator	1	10	10
2	Jr. PPP Expert	1	10	10
<b>Total</b>		<b>02</b>	<b>20</b>	<b>20</b>

#### 05. Qualification and Experiences

The following tables provide minimum qualification for educational background and professional experiences.

Table: Qualification of Key Experts and Non-Key Experts

SN	Position	Qualification	Experience
1	Key Experts Team Leader	Master's degree in business administrator/ procurement/ BSc Engineering or in a similarly related field' Advance academic / professional qualification in procurement and supply chain management (e.g. MCIPS, CPISM) are preferred' (50% office will be the Project Director office at Dhaka)	<ul style="list-style-type: none"> <li>• Minimum 15 years general experience in the similar position</li> <li>• Minimum 10 years specific experience in the similar field.</li> </ul>
2	Financial Modeling expert	Master Degree in Economic/ Finance or accounting	<ul style="list-style-type: none"> <li>• Minimum 12 years General experience in the similar position</li> <li>• Minimum 10 years specific experience in the similar field.</li> </ul>
3	Legal Consultant	Master degree in Laws (LL.M).	<ul style="list-style-type: none"> <li>• Minimum 12 years General experience in the similar position</li> <li>• Minimum 8 years specific experience in the similar field.</li> </ul>
4	Transaction Structuring expert	Master degree in Business Administration	<ul style="list-style-type: none"> <li>• Minimum 12 years general experience in the similar position</li> <li>• Minimum 8 years specific</li> </ul>



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*Signature*  
 বাংলাদেশ সরকার  
 পরিকল্পনা  
 বিভাগ (সি.এ.স.ও.সি.এ.স.)

*Signature*  
 বাংলাদেশ সরকার  
 পরিকল্পনা  
 বিভাগ (সি.এ.স.ও.সি.এ.স.)  
 অতিরিক্ত সচিব, পরিচালক  
 Anisur Rahman  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

SN	Position	Qualification	Experience
	Non-Key Experts		experience in the similar field.
1	Coordinator	Master degree in Business Administration	<ul style="list-style-type: none"> <li>• Minimum 8 years general experience in the similar position</li> <li>• Minimum 4 years specific experience in the similar field.</li> </ul>
2	Jr. PPP Expert	Master's degree in business administrator/ procurement/ BSc Engineering or in a similarly related field Advance academic / professional qualification in procurement and supply chain management (e.g. MCIPS, CPSM) are preferred (50% office will be the Project Director office at Dhaka)	<ul style="list-style-type: none"> <li>• Minimum 8 years general experience in the similar position</li> <li>• Minimum 4 years specific experience in the similar field</li> </ul>

\* Signed CVs of Key Experts should be attached. Firm may propose additional Non-Key expert as per their requirement

#### 06. Supporting Staff

The consultant team may employ supporting staff for the supervision of the sub-projects and operation of the project office, if required. The supporting staff may include:

- 1) Accountant
- 2) Typist

#### 07. Reporting

Within the scope of consulting services, the Consultant shall prepare and submit reports and documents to the Employer, as shown in Table. The Consultant shall provide hard and electronic copy of each of these reports.

Table: List of submission report

Sl.	Type of Report	Time Frame	No. of copies
1	Inception Report	Within 20 days after commencement of the services with presentation at project office	07
2	Preparation of draft PPP guideline	Within 4 month after commencement of the services with presentation at project office	05
3	Preparation of final PPP guideline	Within 10 month after commencement of the services with presentation at project office	05
4	Help BEZA operationalize the PPP Guidelines through adequate project implementation support as BEZA staff develop PPP transactions going forward	Before termination of contract	05



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 Director  
 Prime Minister's Office  
 Dhaka, Bangladesh  
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*Anisur Rahman*  
 Director  
 Prime Minister's Office  
 Dhaka, Bangladesh

**08. Cost Estimation**

Particulars	Key Expert		Non-Key Expert		Total (in lakh Taka)
	MM	BDT (in lakh Taka)	MM	BDT (in lakh Taka)	
Remuneration Expenses	40	350	20	50	400
Reimbursable Expenses					160
<b>Total</b>					<b>560</b>

**09. Procurement Method**

The consulting firm will be selected according to the quality- and cost-based selection (QCBS) method under international competing bidding (ICB) process described in IDA Guidelines on the Selection of Consultants, January 2011, Revised July (2014). A weighting system of 80% for quality and 20% for cost will be applied.

*Signature*  
 মহাপরিচালক (প্রকল্প পরিচালনা)  
 বাংলাদেশ সরকার (স্বাধীনতা সড়ক)

*Signature*  
 মহাপরিচালক (প্রকল্প পরিচালনা)  
 বাংলাদেশ সরকার (স্বাধীনতা সড়ক)

*Signature*  
**Atisur Rahman**  
 Director  
 Prime Minister's Office  
 Dhaka, the People's Republic of Bangladesh



## PMC 5: Feasibility Study for port facility at BSMNS

### Terms of Reference

#### 01. Objectives of Consulting Services

The consulting services shall be provided by consulting firm(s) in compliance with Guidelines for the Employment of Consultants under the GoB and World Bank. The objective of the consulting services is to prepare a details feasibility study for Bangabandhu Sheikh Mujib Shilpanagar port with using a public sector comparator and PPP reference models.

#### 02. Scope of Consulting Services

The feasibility consultancy firm will be required to produce a comprehensive feasibility study for the Project using a public sector comparator and PPP reference models. This must enable BEZA to determine:

- technical viability, including full demand forecast, depth assessment and dredging needs, environmental context, options analysis, preliminary design;
- full project cycle costs;
- affordability limits;
- structuring options, including market surveys and stakeholder consultations;
- risks and their costs; and
- optimal value-for-money, methods of delivery, including need for public versus private financing, sources and requirements of public financing, private investor/financier appetite.

The feasibility adviser will work through different options and their pros and cons with BEZA to identify the best solution given BEZA's context and delivery of value for money. The feasibility study will assess, integrate and develop the outcomes of the pre-feasibility study performed by Sojitz, CPA and others as available and to the extent relevant/accurate. Advice must be in compliance with all elements of Bangladeshi laws, all implementing regulations and international best practices. When performing the scope of work, the Transaction advisor shall provide its services in a manner propitious to replication by BEZA for other projects and sectors.

#### 03. Expected Time Schedule

The total duration of consulting services will be 09 months. The implementation schedule expected is as shown in Table.

Key Activities	Duration in Months
Finalization of EOJ	15/05/2021
Issue of RFP	24/06/2021
Commencement of Consulting Services	23/08/2021
Termination of Consulting Services	31/05/2022



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Prime Minister's Office

Govt. of the People's Republic of Bangladesh

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মন্ত্রীর কার্যালয়ে  
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**04. Expertise Required**

The consultant team will consist of both Key Expert and Non-Key Expert and will be engaged for the duration of consulting services. The team of key consultants (International) is expected to be comprised of a Team Leader, Ports/engineering expert, Maritime/hydrology expert, Dredging expert, Shipping/logistics expert, PPP/project financing expert, Legal expert & Environmental and Social Specialist.

Table: Key Experts and Indicative Expected Man-Months (MM)

SN	Position	No	MM	Total
1	Team Leader (Procurement transaction expert)	1	9	9
2	Ports/engineering expert	1	7	7
3	Maritime/hydrology expert	1	6	6
4	Dredging expert	1	4	4
5	Shipping/logistics expert	1	5	5
6	PPP/project financing expert	1	8	8
7	Legal expert	1	5	5
8	Environmental Specialist	1	6	6
9	Social Specialist	1	6	6
<b>Total</b>		<b>09</b>	<b>56</b>	<b>56</b>

Table: Non-Key Experts and Indicative Expected Man-Months (MM)

SN	Position	No	MM	Total
1	Procurement Specialist	1	5	5
2	Maritime Specialist	1	5	5
3	Civil Engineer	1	7	7
4	Jr. Environmental Specialist	1	7	7
5	Jr. Social Specialist	1	7	7
6	Legal expert	1	7	7
<b>Total</b>		<b>6</b>	<b>38</b>	<b>38</b>

N.B.: Firm may proposed additional Non-Key expert as per requirement.

**05. Qualification and Experiences**

The following tables provide minimum qualification for educational background and professional experiences.

Table: Qualification of Key Experts and Non-Key Experts

SN	Position	Qualification	Experience
	<b>Key Expert</b>		
1	Team Leader (Procurement transaction expert)	Master's degree in business administrator/procurement/ or BSc Engineering or in a similarly related field/ Advance academic /	<ul style="list-style-type: none"> <li>• Minimum 15 years general experience in the similar position</li> <li>• Minimum 10 years specific</li> </ul>

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 Director  
 Govt. of Bangladesh





SN	Position	Qualification	Experience
2	Ports/engineering expert	professional qualification in procurement and supply chain management (e.g. MCIPS, CPISM) are preferred Master Degree in civil engineering of maritime	<ul style="list-style-type: none"> <li>• Minimum 12 years general experience in the similar position</li> <li>• Minimum 10 years specific experience in the similar field.</li> </ul>
3	Maritime/hydrology expert	Bachelor's degree in marine engineering/ marine systems engineering/ or marine engineering technology	<ul style="list-style-type: none"> <li>• Minimum 12 years general experience in the similar position</li> <li>• Minimum 10 years specific experience in the similar field.</li> </ul>
4	Dredging expert	Bachelor's degree in marine engineering or Civil engineering or similar field	<ul style="list-style-type: none"> <li>• Minimum 12 years general experience in the similar position</li> <li>• Minimum 10 years specific experience in the similar field.</li> </ul>
5	Shipping/logistics expert	Bachelor's degree in urban design, transportation technologies, transportation engineering, marine science or transportation logistics.	<ul style="list-style-type: none"> <li>• Minimum 12 years general experience in the similar position</li> <li>• Minimum 10 years specific experience in the similar field.</li> </ul>
6	PPP/ project financing expert	Bachelor's degree in business administrator/procurement/Information Technology/ o Accounting/Law or BSc Engineering or in a similarly related field' Advance academic / professional qualification in procurement and supply chain management (e.g. MCIPS, CPISM) are preferred'	<ul style="list-style-type: none"> <li>• Minimum 12 years general experience in the similar position</li> <li>• Minimum 10 years specific experience in the similar field.</li> </ul>
7	Legal expert	Master's Degree in Law	<ul style="list-style-type: none"> <li>• Minimum 12 years general experience in the similar position</li> <li>• Minimum 10 years specific experience in the similar field.</li> </ul>
8	Environmental Specialist	Master's Degree Environmental Science	<ul style="list-style-type: none"> <li>• Minimum 12 years general experience in the similar position</li> <li>• Minimum 10 years specific experience in the similar field.</li> </ul>
	Social Specialist	Master's Degree in Sociology, Social Science or similar	<ul style="list-style-type: none"> <li>• Minimum 12 years general experience in the similar position</li> <li>• Minimum 10 years specific experience in the similar field.</li> </ul>



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Director

Prime Minister's Office

Govt. of the People's Republic of Bangladesh

Non-Key Expert

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স্থায়িক  
কর্তৃপক্ষ (সে-কার্ড সহ ও প্রমাণ)

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SN	Position	Qualification	Experience
1	Procurement Specialist	Bachelor's degree in business administrator/procurement/Information Technology/ o Accounting/Law or BSc Engineering or in a similarly related field Advance academic / professional qualification in procurement and supply chain management (e.g. MCIPs, CPSM) are preferred!	<ul style="list-style-type: none"> <li>• Minimum 8 years general experience in the similar position</li> <li>• Minimum 4 years specific experience in the similar field</li> </ul>
2	Maritime Specialist	Bachelor's degree in marine engineering/ marine systems engineering/ or marine engineering technology	<ul style="list-style-type: none"> <li>• Minimum 8 years general experience in the similar position</li> <li>• Minimum 4 years specific experience in the similar field</li> </ul>
3	Civil Engineer	Master's Degree in civil engineering	<ul style="list-style-type: none"> <li>• Minimum 8 years general experience in the similar position</li> <li>• Minimum 4 years specific experience in the similar field</li> </ul>
4	Jr. Environmental Specialist	Master's Degree Environmental Science	<ul style="list-style-type: none"> <li>• Minimum 8 years general experience in the similar position</li> <li>• Minimum 4 years specific experience in the similar field</li> </ul>
5	Jr. Social Specialist	Master's Degree in Sociology, Social Science or similar	<ul style="list-style-type: none"> <li>• Minimum 8 years general experience in the similar position</li> <li>• Minimum 4 years specific experience in the similar field</li> </ul>
6	Legal expert	Master's Degree in Law	<ul style="list-style-type: none"> <li>• Minimum 8 years general experience in the similar position</li> <li>• Minimum 4 years specific experience in the similar field</li> </ul>

\* Signed CVs of Key Experts should be attached. Firm may proposed additional Non-Key expert as per their requirement

#### 06. Supporting Staff

The consultant team may employ supporting staff for the supervision of the sub-projects and operation of the project office, if required. The supporting staff may include:

- 1) Inspector for quality control
- 2) Data collector
- 3) Administrator
- 4) Accountant
- 5) Typist

*ANISUR RAHMAN*  
 প্রকল্প পরিচালক  
 সুপারভাইজার  
 সরকার (সাব-প্রকল্প ও অফিস)

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 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh



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### 07. Reporting

Within the scope of consulting services, the Consultant shall prepare and submit reports and documents to the Employer, as shown in Table. The Consultant shall provide hard and electronic copy of each of these reports.

Table: List of submission report

Sl.	Type of Report	Time Frame	No. of copies
1	Inception Report	Within 20 days after commencement of the services with presentation at project office	07
2	Quarterly Progress Report	Quarterly with presentation at project office	05
3	Draft Final Report	Within 7 month after commencement of the services with presentation at project office	10
4	Final Report	Before 1 months of the contract closing	20

### 08. Cost Estimation

Particulars	Key Expert		Non- Key Expert		Total (in lakh Taka)
	MM	BDT (in lakh Taka)	MM	BDT (in lakh Taka)	
Remuneration Expenses	56	500	38	150	650
Reimbursable Expenses					500
<b>Total</b>					<b>1150</b>

### 09. Procurement Method

The consulting firm will be selected according to the quality- and cost-based selection (QCBS) method under international competing bidding (ICB) process described in IDA Guidelines on the Selection of Consultants, January 2011, Revised July (2014). A weighting system of 80% for quality and 20% for cost will be applied.

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 Prime Minister's Office  
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*Q. No. 4*  
 মন্ত্রণালয়  
 মন্ত্রণালয় (স্ব. শা. ক. ও. মন্ত্রণালয়)

*R. No. 4*  
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## PMC 6: Port Transaction Advisor

### Terms of Reference

#### 01. Objectives of Consulting Services

The consulting services shall be provided by consulting firm(s) in compliance with Guidelines for the Employment of Consultants under the GoB and World Bank. The objectives of the consulting services is to provide technical and advisory services for port project at Bangabandhu Sheikh Mujib Shilpanagar with using a public sector comparator and PPP reference models a) provide advisory services for the procurement of the project; and b) advise BEZA and implement advisory services through to commercial (and financial, if needed) close of the project.

The transaction advisor needs to submit a single bid, in the formats prescribed in these terms of reference. (Reference to 'the transaction advisor' includes the entire advisory team, or relevant members, under the management of a single lead advisor who shall contract with BEZA, which will act as the government contracting agency (GCA)).

#### 02. Scope of Consulting Services

The scope of Transaction implementation for the Port Facility at the BSMSN Economic Zone are as follows : On the basis of the PPP solution is decided on further to the feasibility study, the transaction advisor will provide the necessary technical, legal and financial advisory support for the procurement of public financing partners (including development partners) and a private partner. This support will include:

- structuring, documentation and negotiation of public financing arrangements, including from development partners and bilateral lending;
- drafting project documents, including request for qualification, request for proposals, PPP agreement, associated agreements, lender security documentation, financial structuring documentation and financial close;
- technical due diligence, schedules and documentation
- support to BEZA during all approval processes;
- stakeholder engagement,
- environmental and social assessment
- Advice must be in compliance with all elements of Bangladeshi laws, all implementing regulations and international best practices.

After award of the project, the transaction adviser will advise BEZA on project implementation, including providing an implementation manual. When performing the scope of work, the transaction advisor shall provide its services in a manner propitious to replication by BEZA for other projects and sectors.

  
 বাংলাদেশ সরকার  
 পরিকল্পনা বিভাগ  
 অর্থনীতি ও পরিসংখ্যান  
 (স্বাক্ষরিত কর্তৃক)

Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

ANISUR RAHMAN  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

### 03. Expected Time Schedule

The total duration of consulting services will be 21 months (9 months for transaction phase, 9 months until financial close, 3 months to support BEZA in project implementation). The implementation schedule expected is as shown in Table.

Key Activities	Duration in Months
Commencement of Consulting Services	01/01/2023
Issue of RFP	12/3/2023
Signing of contract	15/5/2023
Termination of Consulting Services	31/02/2025

### 04. Expertise Required

The consultant team will consist of both Key Expert and Non-Key Expert and will be engaged for the duration of consulting services. The team of key consultants (international) is expected to be comprised of a Team Leader, Ports/engineering expert, Maritime/hydrology expert, Dredging expert, Shipping/logistics expert, PPP/project financing expert, Legal expert & Environmental and Social Specialist.

Table: Key Experts and Indicative Expected Man-Months (MM)

SN	Position	No	MM	Total
1	Team leader / procurement transaction expert	1	30.0	30.0
2	Port/engineering expert	1	30.0	30.0
3	Public financing expert	1	10.0	10.0
4	PPP/project financing expert	1	10.0	10.0
5	Legal expert	1	10.0	10.0
6	Environmental Specialist	1	10.0	10.0
7	Social Specialist	1	10.0	10.0
<b>Total</b>		<b>07</b>	<b>110</b>	<b>110</b>

Table: Non-Key Experts and Indicative Expected Man-Months (MM)

SN	Position	No	MM	Total
1	Procurement Specialist	1	15.0	15.0
2	Maritime Engineer	1	10.0	10.0
3	Civil Engineer	1	10.0	10.0
4	Environmental Specialist	1	5.0	5.0
	Social Specialist	1	5.0	5.0
	Legal expert	1	5.0	5.0
<b>Total</b>		<b>6</b>	<b>50</b>	<b>50</b>



Mr. Ahtsur Rahman may propose additional Non-Key expert as per requirement

Director

Prime Minister's Office

Govt. of the People's Republic of Bangladesh

Ahtsur Rahman

স্বাক্ষরিত  
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সচিব (প্রকল্প পরিচালনা ও পরিচালনা)

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মন্ত্রণালয়  
সচিব (প্রকল্প পরিচালনা ও পরিচালনা)

### 05. Qualification and Experiences

The following tables provide minimum qualification for educational background and professional experiences.

Table: Qualification of Key Experts and Non-Key Experts

SN	Position	Qualification	Experience
<b>Key Experts:</b>			
1	Team Leader (Procurement transaction expert)	Master's degree in business administrator/procurement/ or BSc Engineering or in a similarly related field' Advance academic / professional qualification in procurement and supply chain management (e.g. MCIPS, CPSM) are preferred'	<ul style="list-style-type: none"> <li>• Minimum 15 years general experience in the similar position</li> <li>• Minimum 10 years specific experience in the similar field.</li> </ul>
2	Ports/engineering expert	Master's Degree in civil engineering of maritime	<ul style="list-style-type: none"> <li>• Minimum 12 years general experience in the similar position</li> <li>• Minimum 10 years specific experience in the similar field.</li> </ul>
3	Public financing expert	Master's Degree in business administrator/ procurement/ Information Technology/ Accounting/ Law or BSc Engineering or in a similarly related field' Advance academic / professional qualification in procurement and supply chain management (e.g. MCIPS, CPSM) are preferred'	<ul style="list-style-type: none"> <li>• Minimum 12 years general experience in the similar position</li> <li>• Minimum 10 years specific experience in the similar field</li> </ul>
4	PPP/project financing expert	Master's Degree in business administrator/procurement/Information Technology/ Accounting/ Law or BSc Engineering or in a similarly related field' Advance academic / professional qualification in procurement and supply chain management (e.g. MCIPS, CPSM) are preferred'	<ul style="list-style-type: none"> <li>• Minimum 12 years general experience in the similar position</li> <li>• Minimum 10 years specific experience in the similar field.</li> </ul>
5	Legal expert	Master's Degree in Law	<ul style="list-style-type: none"> <li>• Minimum 12 years general experience in the similar position</li> <li>• Minimum 10 years specific experience in the similar field.</li> </ul>
6	Environmental Specialist	Master's Degree in Environmental Science	<ul style="list-style-type: none"> <li>• Minimum 12 years general experience in the similar position</li> <li>• Minimum 10 years specific experience in the similar field.</li> </ul>
7	Social Specialist	Master's Degree in Sociology, Social Science or similar	<ul style="list-style-type: none"> <li>• Minimum 12 years general experience in the similar position</li> <li>• Minimum 10 years specific experience in the similar field.</li> </ul>
<b>Non-Key Experts:</b>			
1	Procurement Specialist	Master's degree in business administrator/procurement/information Technology/ Accounting/Law or BSc Engineering or in a similarly	<ul style="list-style-type: none"> <li>• Minimum 8 years general experience in the similar position</li> <li>• Minimum 4 years specific experience in the similar field</li> </ul>

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*(Signature)*  
 Director  
 Procurement  
 Ministry of Finance  
 Government of Bangladesh

*(Signature)*  
 Anisur Rahman  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh



SN	Position	Qualification	Experience
		related field' Advance academic / professional qualification in procurement and supply chain management (e.g. MCIPS, CPSCM) are preferred'	
2	Maritime Specialist	Bachelor's degree in marine engineering/ marine systems engineering/ or marine engineering technology	<ul style="list-style-type: none"> <li>Minimum 8 years general experience in the similar position</li> <li>Minimum 4 years specific experience in the similar field</li> </ul>
3	Civil Engineer	Master's Degree in civil engineering	<ul style="list-style-type: none"> <li>Minimum 8 years general experience in the similar position</li> <li>Minimum 4 years specific experience in the similar field</li> </ul>
4	Environmental Specialist	Master's Degree Environmental Science	<ul style="list-style-type: none"> <li>Minimum 8 years general experience in the similar position</li> <li>Minimum 4 years specific experience in the similar field</li> </ul>
5	Social Specialist	Master's Degree in Sociology, Social Science or similar	<ul style="list-style-type: none"> <li>Minimum 8 years general experience in the similar position</li> <li>Minimum 4 years specific experience in the similar field</li> </ul>
6	Legal expert	Master's Degree in Law	<ul style="list-style-type: none"> <li>Minimum 8 years general experience in the similar position</li> <li>Minimum 4 years specific experience in the similar field</li> </ul>

N.B.: Firm may proposed additional Non-Key expert as per their requirement.

#### 06. Supporting Staff

The consultant team may employ supporting staff for the supervision of the sub-projects and operation of the project office, if required. The supporting staff may include:

- 1) Inspector for quality control
- 2) Data collector
- 3) Administrator
- 4) Accountant
- 5) Typist

#### 07. Reporting

Within the scope of consulting services, the Consultant shall prepare and submit reports and documents to the Employer, as shown in Table. The Consultant shall provide hard and electronic copy of each of these reports.

Table: List of submission report

Sl.	Type of Report	Time Frame	No. of copies
	Inception Report	Within 20 days after commencement of the services with presentation at	07



Anisur Rahman

Director

Prime Minister's Office

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 প্রোগ্রামিং সেকশন  
 পরামর্শ বিভাগ  
 সরকার (সংস্করণ এবং শাসনাবলি)

৩৭৩/১৯  
 প্রোগ্রামিং সেকশন  
 পরামর্শ বিভাগ  
 সরকার (সংস্করণ এবং শাসনাবলি)

		project office	
2	Quarterly Progress Report	Quarterly with presentation at project office	05
3	Structuring, documentation and negotiation of public financing arrangements, including from development partners and bilateral lending;	Within 6 months of the contract	05
4	Drafting project documents, including request for qualification, request for proposals, PPP agreement, associated agreements, lender security documentation, financial structuring documentation and financial close;	Within 9 months of the contract	05
5	Technical due diligence, schedules and documentation	Within 10 months of the contract	05
6	Preparation of details environmental and social assessment and present to the World Bank and DoE for clearance	Within 12 months of the contract	05
7	Submission of Project implementation manual.	Within 12 months of the contract	05
8	Advise BEZA on project implementation, including providing an implementation manual.	After 9 months of the contract	05
9	Draft Final Report	Within 19 month after commencement of the services with presentation at project office	10
10	Final Report	Before 1 months of the contract closing	20

#### 08. Cost Estimation

Particulars	Key Expert		Non-Key Expert		Total (in lakh Taka)
	MM	BDT (in lakh Taka)	MM	BDT (in lakh Taka)	
Remuneration Expenses	110	650	50	100	750
Reimbursable Expenses					550
<b>Total</b>					<b>1300</b>

#### 09. Procurement Method

The consulting firm will be selected according to the quality- and cost-based selection (QCBS) method under international competing bidding (ICB) process described in IDA Guidelines on the Selection of Consultants, January 2011, Revised July (2014). A weighting system of 80% for quality and 20% for cost will be applied.

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 Anisur Rahman  
 Director  
 Prime Minister's Office  
 11, of the People's Republic of Bangladesh



348 *Qura*



**PMC 7: IMD for Green Zone Feasibility and Transaction Advisor**  
**Terms of Reference**

**01. Objectives of Consulting Services**

The consulting services shall be provided by consulting firm(s) in compliance with Guidelines for the Employment of Consultants under the GoB and the World Bank. The objective of the consulting services is to prepare a details feasibility study for green EZ at BSMSN with using a public sector comparator and PPP reference models including transaction advisory services to master developer of green zone a BSMSN

**02. Scope of Consulting Services**

The feasibility consultancy firm will be required to produce a comprehensive feasibility study for the green zone using a public sector comparator and PPP reference models. This must enable BEZA to determine:

**Part 1 - Feasibility Study:** Feasibility studies will be conducted for independent sites. The feasibility study will be comprised of the following tasks:

**Task 1:** A Competitiveness Analysis, Transport Assessment, Industry/ Market Assessment and Demand Forecast

**Task 2:** Master Planning, Infrastructure and Financing Requirements, and an Environmental and Social Footprint

**Task 3:** Institutional Framework

**Task 4:** Economic and Financial Modeling

**Part 2. PPP Procurement:** The procurement will be conducted under this part with following tasks:

- Preparation of RFQ documents in accordance with Bangladesh law/PPP act and green economic zone guideline;
- Marketing for best bidder in this field;
- Support to Bid evaluation;
- Legal support to BEZA regarding PPP, and
- Any others support regarding this assignment

**03. Expected Time Schedule**

The total duration of consulting services will be 18 months (6 months for drafting and finalizing of the feasibility study and proposed structure; 9 months for transaction phase until financial close; 3 months to help prepare BEZA for project implementation)



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সচিব (জনসংসর্গ বিভাগ)

**Anisur Rahman**  
Director  
Prime Minister's Office  
Soul of the People's Republic of Bangladesh

The implementation schedule expected is as shown in Table.

Key Activities	Duration in Months
Invitation of FOI	15/07/2021
Issue of RFP	24/08/2021
Commencement of Consulting Services	23/10/2021
Termination of Consulting Services	31/06/2023

#### 04. Expertise Required

The consultant team will consist of both Key Expert and Non-Key Expert and will be engaged for the duration of consulting services. The team of consultants is expected to be comprised of a Team leader / procurement transaction expert (int.), Desalination/engineering expert (int.), PPP/project financing expert (int.), Legal expert (int.), Environmental and Social Specialist (int.), Procurement Specialist (nat.), Chemical Engineer (nat.), Civil Engineer (nat.) and Legal expert (nat.)

Table: Key Experts and Indicative Expected Man-Months (MM)

SN	Position	No	MM	Total
1	Team leader / procurement transaction expert (int)	1	18	18
2	Green SFZ Expert	1	10	10
3	Utilities expert	1	10	10
4	Logistics expert	1	10	10
5	PPP/project financing expert	1	10	10
6	Legal expert	1	6	6
<b>Total</b>		<b>6</b>	<b>64</b>	<b>64</b>

Table: Non-Key Experts and Indicative Expected Man-Months (MM)

SN	Position	No	MM	Total
1	Procurement Specialist	1	9	9
2	Energy Expert	1	6	6
3	EZ/Master Planning Expert	1	6	6
4	Environmental Specialist	1	8	8
5	Social Expert	1	8	8
6	Legal expert	1	6	6
<b>Total</b>		<b>6</b>	<b>43</b>	<b>43</b>

N.B.: Firm may propose additional Non-Key expert as per requirement.

#### 05. Qualification and Experiences

The following tables provide minimum qualification for educational background and professional experiences.

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*Arifur Rahman*  
 Director  
 Govt. of the People's Republic of Bangladesh

*Arifur Rahman*  
 Director  
 Govt. of the People's Republic of Bangladesh

*Arifur Rahman*  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh



Table: Qualification of Key Experts and Non-Key Experts

SN	Position	Qualification	Experience
K-1	Key Expert: Team leader / procurement transaction expert (Int.)	Master's degree in business administrator/procurement/ or BSc Engineering or in a similarly related field' Advance academic / professional qualification in procurement and supply chain management (e.g. MCIPS, CPISM) are preferred' (Full time based and office will be the Project Director office at Dhaka)	<ul style="list-style-type: none"> <li>• Minimum 20 years general experience in the similar position</li> <li>• Minimum 10 years specific experience in the similar field.</li> </ul>
K-2	Green SIZ Expert	Master's Degree in Environmental Science/ Civil engineering or any other relevant filed	<ul style="list-style-type: none"> <li>• Minimum 12 years general experience in the similar position</li> <li>• Minimum 10 years specific experience in the similar field.</li> </ul>
K-3	Utilities expert	Master's Degree in Civil engineering/Dicetomic Engineering or any other relevant filed	<ul style="list-style-type: none"> <li>• Minimum 15 years general experience in the similar position</li> <li>• Minimum 10 years specific experience in the similar field.</li> </ul>
K-4	Logistics expert	Master's Degree in Civil engineering/Project Management or any other relevant filed	<ul style="list-style-type: none"> <li>• Minimum 12 years general experience in the similar position</li> <li>• Minimum 10 years specific experience in the similar field.</li> </ul>
K-5	PPP/project financing expert	Bachelor's degree in business administrator/procurement/Information Technology/ a Accounting/ Law or BSc Engineering or in a similarly related field' Advance academic / professional qualification in procurement and supply chain management (e.g. MCIPS, CPISM) are preferred'	<ul style="list-style-type: none"> <li>• Minimum 12 years general experience in the similar position</li> <li>• Minimum 10 years specific experience in the similar field.</li> </ul>
K-6	Legal expert	Master's Degree in Law	<ul style="list-style-type: none"> <li>• Minimum 12 years general experience in the similar position</li> <li>• Minimum 10 years specific experience in the similar field.</li> </ul>
<b>Non-Key Experts:</b>			
NK-1	Procurement Specialist	Master's degree in business administrator/procurement/ or BSc Engineering or in a similarly related field' Advance academic / professional qualification in procurement and supply chain management (e.g. MCIPS, CPISM) are preferred'	<ul style="list-style-type: none"> <li>• Minimum 10 years general experience in the similar position</li> <li>• Minimum 5 years specific experience in the similar field.</li> </ul>
NK-2	Energy Expert	Bachelor of Science in Energy/Engineering, Bachelor of in <i>Energy Management</i>	<ul style="list-style-type: none"> <li>• Minimum 10 years general experience in the similar</li> </ul>



Anisur Rahman  
Director

Prime Minister's Office  
Govt. of the People's Republic of Bangladesh

*Signature*  
Date: \_\_\_\_\_  
Official stamp and signature of the Director.

SN	Position	Qualification	Experience
NK-3	IZ2 Master Planning Expert	Science in Mechanical and Energy Engineering, or a bachelor's degree in energy systems engineering or any other relevant filed Master Degree in Physical Planning, Urban, Regional Planning or Similar subject	<ul style="list-style-type: none"> <li>• Minimum 5 years specific experience in the similar field.</li> <li>• Minimum 5 years general experience in the similar position</li> <li>• Minimum 3 years specific experience in the similar field</li> </ul>
NK-4	Environmental Specialist	Master's Degree on Environmental Science	<ul style="list-style-type: none"> <li>• Minimum 10 years general experience in the similar position</li> <li>• Minimum 5 years specific experience in the similar field.</li> </ul>
NK-5	Social Expert	Master's Degree in Sociology, Social Science or similar	<ul style="list-style-type: none"> <li>• Minimum 10 years general experience in the similar position</li> <li>• Minimum 5years specific experience in the similar field.</li> </ul>
NK-6	Legal expert	Master's Degree in Law	<ul style="list-style-type: none"> <li>• Minimum 10 years general experience in the similar position</li> <li>• Minimum 5 years specific experience in the similar field.</li> </ul>

\* Signed CVs of Key Experts should be attached.

#### 06. Supporting Staff

The consultant team may employ supporting staff for the supervision of the sub-projects and operation of the project office, if required. The supporting staff may include:

- 1) Inspector for quality control
- 2) Data collector
- 3) Administrator
- 4) Accountant
- 5) Typist

#### 07. Reporting

Within the scope of consulting services, the Consultant shall prepare and submit reports and documents to the Employer, as shown in Table. The Consultant shall provide hard and electronic copy of each of these reports.

Table: List of submission report

Sl.	Type of Report	Time Frame	No. of copies
1	Inception Report	Within 30 days after commencement of the services with presentation at project office including A list of all meetings and interviews with meeting notes and another list of studies	07

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 ANISUR RAHMAN  
 Director  
 Prime Minister's Office  
 Gov. of the People's Republic of Bangladesh





Prime Minister's Office  
Govt of the People's Republic of Bangladesh

**Ahissur Rahman**  
Director

১০/১১/১৯  
প্রোগ্রামিং কর্মসূচী  
স্বরাষ্ট্র  
স্বরাষ্ট্র (১১) সিসি-১৯/১৯

2	Quarterly Progress Report	and documents examined, gap analysis, work plan will be provided to BEZA.	05
3	Draft Final Report	<p>Quarterly with presentation at project office</p> <p>Within 7 month after commencement of the services with presentation at project office including :</p> <ul style="list-style-type: none"> <li>• A transport assessment reviewing existing conditions, ongoing/upcoming off-site infrastructure/facilities and constraints and identifying potential opportunities to make site a multi-modal transport platform.</li> <li>• A target industry assessment with detailed sector profiles for the site. It is important that the location be studied separately and the targeted industrial assessment is not for Bangladesh as a whole, but is site specific.</li> <li>• A 20-year demand forecast for the Economic Zone location</li> <li>• A best practice master plan, permitted land use designations, and a phasing plan and design guidelines for the site.</li> <li>• A set of on-site infrastructure drawings for the EZ master plan including topographic survey report and an overview of necessary off-site infrastructure needs/improvements and their tentative costs, in order for the site to be successful.</li> <li>• An environmental and social footprint (including resettlement, livelihood if required) of the site with mitigation and management plans proposed for key problems.</li> <li>• A chapter in feasibility study that identifies the best institutional framework for the site including a description of the management framework and staff profiles.</li> <li>• An economic model for Economic Zone site that illustrates the economic/social benefits (ERR) of the project</li> </ul>	10
4	Final Report	<p>A financial model and sensitivity tests for the site.</p> <p>Within 8 months of the contract closing including</p> <ul style="list-style-type: none"> <li>• A transport assessment reviewing existing conditions, ongoing/upcoming off-site infrastructure/facilities and constraints and identifying potential opportunities to make site a multi-modal transport platform.</li> <li>• A target industry assessment with detailed sector profiles for the site. It is important that the location be studied separately and the targeted industrial assessment is not for Bangladesh as a whole, but is site specific.</li> <li>• A 20-year demand forecast for the Economic Zone location</li> <li>• A best practice master plan, permitted land use designations, and a phasing plan and design guidelines for the site.</li> <li>• A set of on-site infrastructure drawings for the EZ master plan including topographic survey report and an overview of necessary off-site infrastructure needs/improvements and their tentative costs, in order for the site to be successful.</li> <li>• An environmental and social footprint (including resettlement, livelihood if required) of the site with</li> </ul>	20

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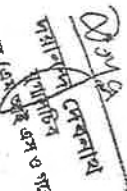
	<ul style="list-style-type: none"> <li>mitigation and management plans proposed for key problems.</li> <li>A chapter in feasibility study that identifies the best institutional framework for the site including a description of the management framework and staff profiles.</li> <li>An economic model for Economic Zone site that illustrates the economic/social benefits (ERK) of the project</li> <li>A financial model and sensitivity tests for the site.</li> </ul>	
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### 08. Cost Estimation

Particulars	Key Expert		Non-Key Expert		Total (in lakh Taka)
	MM	BDT (in lakh Taka)	MM	BDT (in lakh Taka)	
Remuneration Expenses	64	430	43	120	550
Reimbursable Expenses					700
<b>Total:</b>					<b>1250</b>

### 09. Procurement Method

The consulting firm will be selected according to the quality- and cost-based selection (QCBS) method under international competing bidding (ICB) process described in IDA Guidelines on the Selection of Consultants, January 2011, Revised July (2014). A weighting system of 80% for quality and 20% for cost will be applied.

  
 মহাপরিচালক (সিসি) সরকার (সিসি)  
 বাংলাদেশ সরকার (সিসি)

  
**Anisur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

  
 মহাপরিচালক (সিসি) সরকার (সিসি)  
 বাংলাদেশ সরকার (সিসি)



**PMC 8: Desalination Transaction Advisor**  
**Terms of Reference**

**01. Objectives of Consulting Services**

The objective of the consulting services is to prepare a details feasibility study for **Desalination Plant at the BSMNSN** with using a public sector comparator and PPP reference models including transaction advisory services to BEZA for selecting the PPP developer.

**02. Scope of Consulting Services**

The feasibility consultancy firm will be required to produce a comprehensive feasibility study for the green zone using a public sector comparator and PPP reference models. This must enable BEZA to determine:

**Part 1: Feasibility Study**

Feasibility studies will be conducted for independent sites. The feasibility study will be comprised of the following tasks:

- Task 1: A Competitiveness Analysis, Transport Assessment, Industry/ Market Assessment and Demand Forecast
- Task 2: Master Planning, Infrastructure and Financing Requirements, and an Environmental and Social Footprint
- Task 3: Institutional Framework
- Task 4: Economic and Financial Modeling

**Part 2: PPP Procurement**

This component will be comprised of the following tasks:

- Preparation of RFQ documents in accordance with Bangladesh law/PPP act and green economic zone guideline
- Marketing for best bidder in this field
- Support to Bid evaluation
- Legal support to BEZA regarding PPP
- Any others support regarding this assignment

**03. Expected Time Schedule**

The total duration of consulting services will be 18 months (6 months for drafting and finalizing of the feasibility study and proposed structure; 9 months for transaction phase until financial close; 3 months to help prepare BEZA for project implementation). The implementation schedule expected is as shown in Table.



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Director

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Key Activities	Duration in Months
Invitation of EOI	15/07/2021
Issue of RFP	24/08/2021
Commencement of Consulting Services	23/10/2021
Termination of Consulting Services	31/05/2023

#### 04. Expertise Required

The consultant team will consist of both Key Expert and Non-Key Expert and will be engaged for the duration of consulting services. The team of consultants is expected to be comprised of a Team leader / procurement transaction expert (int.), Desalination/ engineering expert (int.), PPP/ project financing expert (int.), Legal expert (int.), Environmental and Social Specialist (int.), Procurement Specialist (nat.), Chemical Engineer (nat.), Civil Engineer (nat.) and Legal expert (nat.).

Table: Key Experts and Indicative Expected Man-Months (MM)

SN	Position	No	MM	Total
1	Team leader / procurement transaction expert (int.)	1	18	18
2	Desalination/engineering expert	1	18	18
3	PPP/project financing expert	1	10	10
4	Legal expert	1	10	10
5	Environmental Specialist	1	5	5
6	Social Specialist	1	5	5
<b>Total</b>		<b>6</b>	<b>66</b>	<b>66</b>

Table: Non-Key Experts and Indicative Expected Man-Months (MM)

SN	Position	No	MM	Total
1	Procurement Specialist	1	10	10
2	Chemical Engineer	1	8	8
3	Civil Engineer	1	8	8
4	Environmental and Social Specialist	1	8	8
5	Legal expert	1	8	8
<b>Total</b>		<b>5</b>	<b>42</b>	<b>42</b>

N. B.: Firm may propose additional Non-Key expert as per requirement

#### 05. Qualification and Experiences

The following tables provide minimum qualification for educational background and professional experiences.

Table: Qualification of Key Experts and Non-Key Experts

SN	Position	Qualification	Experience
K1-1	Key Expert: Team leader / procurement transaction expert (int.)	Master's degree in business administrator/procurement/ or BSc Engineering or in a similarly related field' Advance academic/ professional	<ul style="list-style-type: none"> <li>Minimum 20 years general experience in the similar position</li> <li>Minimum 10 years specific experience in the similar field.</li> </ul>

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20/10/23  
 श्रीमान् अश्विनी रावणराज  
 प्रधानमन्त्री  
 भारत सरकार  
 नया दिल्ली (के.पी.ए. 01, 20100)

अश्विनी रावणराज  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of India





SN	Position	Qualification	Experience
		qualification in procurement and supply chain management (e.g. MCIPS, CPISM) are preferred' (50% office will be the Project Director office at Dhaka)	
KI-2	Desalination/engineering expert	Master's Degree in Environmental Science/ Civil engineering or any other relevant filed (50% office will be the Project Director office at Dhaka)	<ul style="list-style-type: none"> <li>• Minimum 12 years general experience in the similar position</li> <li>• Minimum 10 years specific experience in the similar field.</li> </ul>
KI-3	PPP/project financing expert	Bachelor's degree in business administrator/procurement/Information Technology/ o Accounting/ Law or BSc Engineering or in a similarly related field' Advance academic / professional qualification in procurement and supply chain management (e.g. MCIPS, CPISM) are preferred' (50% office will be the Project Director office at Dhaka)	<ul style="list-style-type: none"> <li>• Minimum 12 years general experience in the similar position</li> <li>• Minimum 10 years specific experience in the similar field.</li> </ul>
KI-4	Legal expert	Master's Degree in Law (50% office will be the Project Director office at Dhaka)	<ul style="list-style-type: none"> <li>• Minimum 12 years general experience in the similar position</li> <li>• Minimum 10 years specific experience in the similar field.</li> </ul>
KI-5	Environmental Specialist	Master's Degree Environmental (50% office will be the Project Director office at Dhaka)	<ul style="list-style-type: none"> <li>• Minimum 12 years general experience in the similar position</li> <li>• Minimum 10 years specific experience in the similar field.</li> </ul>
KI-6	Social Specialist	Master's in social science (50% office will be the Project Director office at Dhaka)	<ul style="list-style-type: none"> <li>• Minimum 12 years general experience in the similar position</li> <li>• Minimum 10 years specific experience in the similar field.</li> </ul>
	<b>Non-Key Expert:</b>		
NK-1	Procurement Specialist	Master's degree in business administrator/procurement/ or BSc Engineering or in a similarly related field' Advance academic / professional qualification in procurement and supply chain management (e.g. MCIPS, CPISM) are preferred'	<ul style="list-style-type: none"> <li>• Minimum 10 years general experience in the similar position</li> <li>• Minimum 5 years specific experience in the similar field.</li> </ul>
NK-2	Chemical Engineer	Master's Degree in Chemical Engineer / Civil engineering or any other relevant filed	<ul style="list-style-type: none"> <li>• Minimum 10 years general experience in the similar position</li> <li>• Minimum 5 years specific experience in the similar field.</li> </ul>
	Civil Engineer	Master's Degree in Civil engineering or any other relevant filed	<ul style="list-style-type: none"> <li>• Minimum 10 years general experience in the similar position</li> <li>• Minimum 05 years specific experience in the similar field.</li> </ul>



Director  
Prime Minister's Office  
Govt. of the People's Republic of Bangladesh

অনিসুর রহমান  
মন্ত্রিপরিষদ সচিবালয়  
স্বপ্নাঙ্গন (সি.সি.সি. ভবন, ঢাকা)

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১৫/০৫/২০১৯

সিনিয়র প্রোগ্রামার (সি.সি.সি. ভবন, ঢাকা)

SN	Position	Qualification	Experience
NK-4	Environmental Specialist	Master's Degree on Environmental Science	<ul style="list-style-type: none"> <li>Minimum 10 years general experience in the similar position</li> <li>Minimum 5 years specific experience in the similar field.</li> </ul>
NK-5	Legal expert	Master's Degree in Law	<ul style="list-style-type: none"> <li>Minimum 10 years general experience in the similar position</li> <li>Minimum 5 years specific experience in the similar field.</li> </ul>

#### 06. Supporting Staff

The consultant team may employ supporting staff for the supervision of the sub-projects and operation of the project office, if required. The supporting staff may include:

- 1) Inspector for quality control
- 2) Data collector
- 3) Administrator
- 4) Accountant
- 5) Typist

#### 07. Reporting

Within the scope of consulting services, the Consultant shall prepare and submit reports and documents to the Employer, as shown in Table. The Consultant shall provide hard and electronic copy of each of these reports.

Table: List of submission report

Sl.	Type of Report	Time Frame	No. of copies
1	Inception Report	Within 20 days after commencement of the services with presentation at project office including A list of all meetings and interviews with meeting notes and another list of studies and documents examined, gap analysis, work plan will be provided to BEZA.	07
2	Quarterly Progress Report	Quarterly with presentation at project office	05
3	Final Report	<p>Within 7 month after commencement of the services with presentation at project office including:</p> <ul style="list-style-type: none"> <li>A transport assessment reviewing existing conditions, ongoing/upcoming off-site infrastructure/facilities and constraints and identifying potential opportunities to make site a multi-modal transport platform.</li> <li>A target industry assessment with detailed sector profiles for the site. It is important that the location be studied separately and the targeted industrial assessment is not for Bangladesh as a whole, but is site specific.</li> <li>A 20-year demand forecast for the Economic Zone location</li> </ul>	10



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**Anisur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

০১৫৬  
 প্রকল্প পরিচালক  
 সরকার (স.স.স) গণ ও পরিবহন

Sl.	Type of Report	Time Frame	No. of copies
4	Final Report	<p>A financial model and sensitivity tests for the site.</p> <ul style="list-style-type: none"> <li>• Within 8 months of the contract closing including <ul style="list-style-type: none"> <li>• A transport assessment reviewing existing conditions, ongoing/upcoming off-site infrastructure/facilities and constraints and identifying potential opportunities to make site a multi-modal transport platform.</li> <li>• A target industry assessment with detailed sector profiles for the site. It is important that the location be studied separately and the targeted industrial assessment is not for Bangladesh as a whole, but is site specific.</li> <li>• A 20-year demand forecast for the Economic Zone location</li> <li>• A best practice master plan, permitted land use designations, and a phasing plan and design guidelines for the site.</li> <li>• A set of on-site infrastructure drawings for the EZ master plan including topographic survey report and an overview of necessary off-site infrastructure needs/improvements and their tentative costs, in order for the site to be successful.</li> <li>• An environmental and social footprint (including resettlement, livelihood if required) of the site with mitigation and management plans proposed for key problems.</li> <li>• A chapter in feasibility study that identifies the best institutional framework for the site including a description of the management framework and staff profiles.</li> <li>• An economic model for Economic Zone site that illustrates the economic/social benefits (ERR) of</li> </ul> </li> </ul>	20



০০৫৯  
 সিনিয়র সিস্টেম অফিসার  
 (সি. আই. ও. এ. সিস্টেমস)

সিস্টেমস

*Ahmed*

Ahmed Rahman

Director

Prime Minister's Office

Govt. of the People's Republic of Bangladesh

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*Ahmed*

Sl.	Type of Report	Time Frame	No. of copies
		<ul style="list-style-type: none"> <li>the project</li> <li>A financial model and sensitivity tests for the site.</li> </ul>	

#### 08. Cost Estimation


Particulars	Key Expert		Non- Key Expert		Total (in lakh Taka)
	MM	BDT (in lakh Taka)	MM	BDT (in lakh Taka)	
Remuneration Expenses	66	450	42	100	550
Reimbursable Expenses					450
<b>Total</b>					<b>1000</b>


#### 09. Procurement Method

The consulting firm will be selected according to the quality- and cost-based selection (QCBS) method under international competing bidding (ICB) process described in IDA Guidelines on the Selection of Consultants, January 2011, Revised July (2014). A weighting system of 80% for quality and 20% for cost will be applied.

  
 Md. Ahsanur Rahman  
 মুহাসিন  
 প্রকল্প পরিচালক (কম্পিউটার ও সফটওয়্যার)



  
**Ahsanur Rahman**  
 Director,  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

  
 Md. Ahsanur Rahman  
 প্রকল্প পরিচালক (কম্পিউটার ও সফটওয়্যার)  
 গণপ্রজাতন্ত্রী বাংলাদেশ

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## PMC 9: Solar Power Generation Feasibility and Transaction Advisor Terms of Reference

### 01. Objectives of Consulting Services

The objective of the consulting services is to prepare a details feasibility study for floating/ground-mounted/rooftop Solar PV at the BSM/MSN with using a public sector comparator and PPP reference models including transaction advisory services to BEZA for selecting the PPP developer.

### 02. Scope of Consulting Services

The feasibility consultancy firm will be required to produce a comprehensive feasibility study for the green zone using a public sector comparator and PPP reference models. This must enable BEZA to determine:

#### Part 1: Feasibility Study

Feasibility studies will be conducted for independent sites. The feasibility study will be comprised of the following tasks:

- Task 1: A Competitiveness Analysis, Transport Assessment, Industry/ Market Assessment and Demand Forecast
- Task 2: Master Planning, Infrastructure and Financing Requirements, and an Environmental and Social Footprint
- Task 3: Institutional Framework
- Task 4: Economic and Financial Modeling

#### Part 2: PPP Procurement

This component will be comprised of the following tasks:

- Preparation of RFQ documents in accordance with Bangladesh law/PPP act and green economic zone guideline;
- Marketing for best bidder in this field;
- Support to Bid evaluation;
- Legal support to BEZA regarding PPP;
- Any others support regarding this assignment.

### 04. Expected Time Schedule

The total duration of consulting services will be 20 months (6 months for drafting and finalizing of the feasibility study and proposed structure; 11 months for transaction phase until financial close; 3 months to assist in project implementation). The implementation schedule expected is as shown in Table.

Key Activities	Duration in Months
Finalization of EOI	15/05/2021
Issue of RFP	24/06/2021
Finalization of Consultant of Consulting Services	23/08/2021




**Asifur Rahman**

Director

Prime Minister's Office

Govt. of the People's Republic of Bangladesh

  
 Asifur Rahman  
 Director  
 Prime Minister's Office  
 Government of Bangladesh

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**05. Expertise Required**

The consultant team will consist of both Key Expert and Non-Key Expert and will be engaged for the duration of consulting services. The team of key consultants is expected to be comprised of a Team leader / procurement transaction expert (int.), Floating solar expert (int.), Renewable energy (Solar) expert (int.), PPP/project financing (int.) Legal expert (int.), Environmental and Social Specialist (int.),

Table: Key Experts and Indicative Expected Man-Months (MM)

SN	Position	No	MM	Total
1	Team leader / procurement transaction expert (int.)	1	20	20
2	Floating solar expert	1	10	10
3	Renewable energy (Solar) expert	1	10	10
4	PPP/project financing expert	1	6	6
5	Legal expert	1	5	5
6	Environmental Specialist	1	6	6
7	Social Specialist	1	6	6
<b>Total</b>		<b>7</b>	<b>63</b>	<b>63</b>

Table: Non-Key Experts and Indicative Expected Man-Months (MM)

SN	Position	No	MM	Total
1	Procurement Specialist	1	9	9
2	Solar Expert	1	3	3
3	Master Planning Expert	1	2	2
4	Environmental Specialist	1	2	2
5	Social Expert	1	2	2
6	Legal expert	1	5	5
<b>Total</b>		<b>6</b>	<b>23</b>	<b>23</b>

N. B.: Firm may proposed additional Non-Key expert as per requirement

**06. Qualification and Experiences**

The following tables provide minimum qualification for educational background and professional experiences.

Table: Qualification of Key Experts and Non-Key Experts

SN	Position	Qualification	Experience
KI-1	Team leader / procurement transaction expert (int.)	Master's degree in business administrator/procurement/ or BSc Engineering or in a similarly related field/ Advance academic / professional qualification in	<ul style="list-style-type: none"> <li>Minimum 20 years general experience in the similar position</li> <li>Minimum 10 years specific experience in the similar field.</li> </ul>

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*Q. M. A.*  
 বাংলাদেশ সরকার  
 প্রধান মন্ত্রীর কার্যালয়  
 বাংলাদেশ (স্ব. দপ্তর ১০ নং মহলা)

*Rashid*

গণিত, গণিত, গণিত, গণিত  
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 গণিত, গণিত, গণিত, গণিত

*Ahmedur Rahman*  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

SN	Position	Qualification	Experience
		procurement and supply chain management (e.g. MCIPS, CPISM) are preferred' (50% office will be the Project Director office at Dhaka)	
K1-2	floating solar expert	Bachelor of Science in Energy Engineering, Bachelor of Science in Mechanical and Energy Engineering, or a bachelor's degree in energy systems engineering or any other relevant filed (50% office will be the Project Director office at Dhaka)	<ul style="list-style-type: none"> <li>• Minimum 12 years general experience in the similar position</li> <li>• Minimum 10 years specific experience in the similar field.</li> </ul>
K1-3	Renewable energy (Solar) expert	Bachelor of Science in Energy Engineering, Bachelor of Science in Mechanical and Energy Engineering, or a bachelor's degree in energy systems engineering or any other relevant filed (50% office will be the Project Director office at Dhaka)	<ul style="list-style-type: none"> <li>• Minimum 12 years general experience in the similar position</li> <li>• Minimum 10 years specific experience in the similar field.</li> </ul>
K1-4	PPP/project financing expert	Bachelor's degree in business administrator/procurement/Information Technology/ or Accounting/ Law or BSc Engineering or in a similarly related field' Advance academic / professional qualification in procurement and supply chain management (e.g. MCIPS, CPISM) are preferred'	<ul style="list-style-type: none"> <li>• Minimum 12 years general experience in the similar position</li> <li>• Minimum 10 years specific experience in the similar field.</li> </ul>
K1-5	Legal expert	Master's Degree in Law	<ul style="list-style-type: none"> <li>• Minimum 12 years general experience in the similar position</li> <li>• Minimum 10 years specific experience in the similar field.</li> </ul>
K1-6	Environmental Specialist	Master's Degree in Environmental Science	<ul style="list-style-type: none"> <li>• Minimum 10 years general experience in the similar position</li> <li>• Minimum 5 years specific experience in the similar field.</li> </ul>
K1-7	Social Specialist	Master's Degree in Social science or any other relevant subject	<ul style="list-style-type: none"> <li>• Minimum 10 years general experience in the similar position</li> <li>• Minimum 5 years specific experience in the similar field.</li> </ul>
NK-1	Procurement Specialist	Master's degree in business administrator/procurement/ or BSc engineering or in a similarly related field' Advance academic / professional qualification in procurement and supply chain management (e.g. MCIPS, CPISM) are preferred'	<ul style="list-style-type: none"> <li>• Minimum 10 years general experience in the similar position</li> <li>• Minimum 5 years specific experience in the similar field.</li> </ul>
NK-2	Solar Expert	Bachelor of Science in Energy Engineering, Bachelor of Science in Mechanical and Energy Engineering, or a bachelor's degree in energy systems engineering or any other relevant filed	<ul style="list-style-type: none"> <li>• Minimum 8 years general experience in the similar position</li> <li>• Minimum 4 years specific experience in the similar field.</li> </ul>



১৫/০৬/২০২৩  
 প্রাথমিক নিয়োগের  
 প্রকল্প (সং. সিস্টেম ও সফটওয়্যার)

Anisur Rahman  
 Director

Prime Minister's Office  
 Dhaka, Bangladesh

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১৫/০৬/২০২৩  
 প্রাথমিক নিয়োগের  
 প্রকল্প (সং. সিস্টেম ও সফটওয়্যার)

SN	Position	Qualification	Experience
		engineering or any other relevant filed	
NK-3	Master Planning Expert	Master Degree in Physical Planning, Urban, Regional Planning or similar	<ul style="list-style-type: none"> <li>• Minimum 12 years general experience in the similar position</li> <li>• Minimum 8 years specific experience in the similar field.</li> </ul>
NK-4	Environmental Specialist	Master's Degree on Environmental Science	<ul style="list-style-type: none"> <li>• Minimum 10 years general experience in the similar position</li> <li>• Minimum 5 years specific experience in the similar field.</li> </ul>
NK-5	Social Expert	Master's Degree in Sociology/ Social Science or any other similar subject.	<ul style="list-style-type: none"> <li>• Minimum 10 years general experience in the similar position</li> <li>• Minimum 5years specific experience in the similar field.</li> </ul>
NK-6	Legal expert	Master's Degree in Law	<ul style="list-style-type: none"> <li>• Minimum 10 years general experience in the similar position</li> <li>• Minimum 5 years specific experience in the similar field.</li> </ul>

#### 07. Supporting Staff

The consultant team may employ supporting staff for the supervision of the sub-projects and operation of the project office, if required. The supporting staff may include:

- 1) Inspector for quality control
- 2) Data collector
- 3) Administrator
- 4) Accountant
- 5) Typist

#### 08. Reporting

Within the scope of consulting services, the Consultant shall prepare and submit reports and documents to the Employer, as shown in Table. The Consultant shall provide hard and electronic copy of each of these reports.

Table: List of submission report

SL	Type of Report	Time Frame	No. of copies
1	Inception Report	Within 20 days after commencement of the services with presentation at project office including A list of all meetings and interviews with meeting notes and another list of studies and documents examined, gap analysis, work plan will be provided to BIZA.	07
2	Quarterly Progress Report	Quarterly with presentation at project office	05
3	Draft Final Report	Within 7 month after commencement of the services with presentation at project office including : 01. A renewable energy assessment reviewing existing	10

*[Signature]*  
 প্রকল্প পরিচালক  
 প্রকল্প পরিচালক  
 সরকার (সক) প্রকল্প পরিচালক ও হিসাবদা

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*[Signature]*  
 Anisur Rahman  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh





SL	Type of Report	Time Frame	No. of copies
4	Final Report	<p>A financial model and sensitivity tests for the site.</p> <p>Within 8 months of the contract closing including</p> <p>01. A renewable energy assessment reviewing existing conditions, ongoing/upcoming off-site infrastructure/facilities and constraints and identifying potential opportunities to make site suitable for renewable energy</p> <p>02. A transport assessment reviewing existing conditions, ongoing/upcoming off-site infrastructure/facilities and constraints and identifying potential opportunities to make site a multi-modal transport platform.</p> <p>03. A target industry assessment with detailed sector profiles for the site. It is important that the location be studied separately and the targeted industrial assessment is not for Bangladesh as a whole, but is site specific.</p> <p>04. A 20-year demand forecast for the Economic Zone location</p> <p>05. A best practice master plan, permitted land use designations, and a phasing plan and design guidelines for the site.</p> <p>06. A set of on-site infrastructure drawings for the EZ master plan including topographic survey report and an overview of necessary off-site infrastructure needs/improvements and their tentative costs, in order</p>	20

  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh



  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

Sl.	Type of Report	Time Frame	No. of copies
		for the site to be successful. 07. An environmental and social footprint (including resettlement, livelihood if required) of the site with mitigation and management plans proposed for key problems. 08. A chapter in feasibility study that identifies the best institutional framework for the site including a description of the management framework and staff profiles. 09. An economic model for Economic Zone site that illustrates the economic/social benefits (ERR) of the project 10. A financial model and sensitivity tests for the site.	
5	Part-B: Transaction advisory services	01. Submission of RFQ documents in accordance with Bangladesh law/PPP act and green economic zone guideline 02. Marketing for best bidder in this field 03. Support to Bid evaluation 04. Legal support to BHZA regarding PPP Any others support regarding this assignment	After completing the feasibility study report

#### 09. Cost Estimation

Particulars	Key Expert		Non-Key Expert		Total (in lakh Taka)
	MM	RDT (in lakh Taka)	MM	BDT (in lakh Taka)	
Remuneration Expenses	63	450	23	60	510
Reimbursable Expenses					350
<b>Total</b>					<b>860</b>

#### 10. Procurement Method

The consulting firm will be selected according to the quality- and cost-based selection (QCBS) method under international competing bidding (ICB) process described in IDA Guidelines on the Selection of Consultants, January 2011, Revised July (2014). A weighting system of 80% for quality and 20% for cost will be applied.

*QCBS*  
 বাংলাদেশ প্রকল্প  
 পরিচালক (কমার্শিয়াল এন্ড সার্ভিস)  
 বাংলাদেশ সরকার

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*A. Rahman*  
 Anisur Rahman  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

*A. Rahman*  
 বাংলাদেশ প্রকল্প পরিচালক  
 (কমার্শিয়াল এন্ড সার্ভিস)  
 বাংলাদেশ সরকার





## Part 1: Feasibility Study

Feasibility studies will be conducted for independent sites for waste treatment, recovery, disposal, renewable energy management and steam supply networking at BSMSN. The feasibility study will be comprised of the following tasks:

- Task 1: Competitiveness/suitability analysis of the proposed sites, SWTM plant design optimization for efficient waste collection, transfer, treatment, recovery, disposal facilities integrating cost recovery/3R waste management/energy generation options based on best practice management/DoE regulations/client and safeguard requirements;
- Task 2: Comprehensive financial analysis for SWTM plant operation and maintenance along with validation of capital expenditure, tariff policy, cost recovery/revenue generation schemes based on best practices or any other factors deemed relevant by the consultant;
- Task 3: Finalize the infrastructural/electro-mechanical design, cost estimate, technical specification, BoQ and working drawing including, data acquisition, control, online monitoring system based on field visit, baseline survey, topographic/geo-technical investigation, examining on-site/off-site facilities, characteristics of waste mix from various industries in BSMSN;
- Task 4: Technical due diligence, schedules and documentation
- Task 5: Support to BEZA during all approval processes;
- Task 6: Stakeholder engagement;
- Task 7: Environmental and Social Assessment, Management Plan & Quality Assurance;
- Task 8: Structuring organizational framework, institutional relationship, designated responsibilities with corresponding management system, standard operating procedure and capacity building programs of the SW treatment and management facility;
- Task 9: Advice must be in compliance with all elements of Bangladeshi laws, all implementing regulations and international best practices.

## Part 2: PPP Procurement

- Task 1: Preparation of necessary bidding documents (such as, FOI, RFQ, RFP) in accordance with Bangladesh law/PPP act and green economic zone guideline
- Task 2: Marketing plan for ensuring best bidder in this field
- Task 3: Support to bid evaluation and finalization
- Task 4: Legal support to BEZA regarding PPP
- Task 5: Any others support regarding this assignment.

After award of the project, the transaction adviser will advise BEZA on project implementation, including providing an implementation manual.

## Part 3: Implementation Phase

**3.1 Construction Supervision and Monitoring:** Consultant shall engage Key personnel and other staffs as scheduled to site/office to supervise day to day construction works to be carried out by the Contractor. Ensure Value through Quality Assurance System and as per the Contract Documents. Submit monthly Progress Reports with recommendations to expedite, if the Progress lags behind. Consultant must ensure the all materials, equipment, electro-mechanical system etc. are being supplied as per approved quality assurance methodology.

**3.2 Measurement and Payments:** Consultant shall make measurements and keep measurement records, including the measurement books issued to him by the Employer:

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স্বাক্ষরিত (ক. বি. এ. এ. স্বাক্ষর)

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স্বাক্ষরিত  
১৩/১১/১৯  
স্বাক্ষরিত (ক. বি. এ. এ. স্বাক্ষর)  
Ahisur Rahman  
Director  
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- i) To check the consumption of the materials of executed items from the original bills/challans of the suppliers
- ii) Issue interim certificates for progress payments;
- iii) Certify completion of part or all of the works;
- iv) Prepare quarterly cash flow projections for the Employer in a format acceptable to the Employer. Cash flows should identify budget estimates for all outstanding work;
- v) Maintain records of all plant , labour and materials used in the construction of the Works;
- vi) Check Contractor's materials ordering schedule;
- vii) Analyze any contractual claim submitted by the Contractor and prepare a report for the Employer addressing the contractual basis, in terms of both technical and financial issues, for the claim and recommendations for a response to the Contractor.
- viii) On satisfactory Completion of the Project, Consultant shall certify the final IPC after necessary checking and would suggest the Employer next course of action as per the Contract.

**3.3 Quality Assurance:** The execution of Quality Assurance will be in accordance with the approach and methodology agreed in the Inception Report and in accordance with the audit plan. In general the purpose of quality assurance exercise is to ensure that the works are

- i. Executed according to the designs, drawings and specifications as specified in the bidding documents / applicable standards, and that good engineering practices are followed in construction.
- ii. True to desired lines, levels and finishing,
- iii. Executed following the EMP provisions included in the bidding.
- iv. Executed following the relevant laws / statutes and practices / guidelines related to workers welfare, safety at worksite, insurances, etc.

The Consultant's Quality Assurance Plan shall include but not be limited to the following:

- (i) Check the setting out of the Contractor.
- (ii) Review of all concrete mix designs proposed by the Contractors and approve/suggest modifications in the mix design, laying methods, sampling and testing procedure, and quality control measures, to ensure required standard and consistency in quality at the commencement of items;
- (iii) Check the Calibration of the Contractor's Plants and Equipment
- (iv) Evolve a system of Quality Assurance of works, including, but not limited to establishing testing frequencies and acceptance criteria for all construction activities based on the Specifications mentioned in the construction contract agreement or international best practice where such Specifications is not mentioned in the construction contract.
- (v) Testing and sampling frequencies shall be in accordance with the instructions of the Employer
- (vi) Inspect the performance of the work with regard to workmanship, compliance with the specifications all necessary testing required for acceptance of any item of work;
- (vii) Inspect all material sources nominated by the Contractor and recommend the same for approval to the Employer;
- (viii) Assess and check the laboratory and field tests carried out by the Contractors and carry out independent tests;
- (ix) Issue orders to the Contractor to remove or make good any works found not acceptable.
- (x) Maintain records of all testing work, including cross referencing to items of work to which each test refers and location from which any samples were obtained for testing.



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**3.4 Environmental Management Plan (EMP):** The Environment Management Plan (EMP) is a set of measures for avoidance, minimization and mitigation of adverse environmental impacts. The Contractor will abide by the environmental, occupational health and safety measures listed in the Environment Management Plan (EMP) of the project during preparation and execution of Works. Adverse impact/s on the environment caused due to non-adherence of legal and EMP requirements during preparation and execution of civil works shall be made good at the Contractor's own expenses. The Engineer's check and certification for payment, in accordance to requirements under relevant Clause of the Contract, shall also include the performance review of the Contractor with regard to EMP compliance.

**03. Expected Time Schedule**

The total duration of consulting services will be 18 months (6 months for drafting and finalizing of the feasibility study and proposed structure; 9 months for transaction phase until financial close; 3 months to help prepare BFRZA for project implementation). The implementation schedule expected is as shown in Table.

Key Activities	Duration in Months
Invitation of EOI	15/05/2021
Issue of RFP	24/06/2021
Commencement of Consulting Services	23/08/2021
Termination of Consulting Services	31/05/2023

**04. Expertise Required**

The consultant team will consist of both Key Expert and Non-Key Expert and will be engaged for the duration of consulting services. The team of consultants is expected to be comprised of a Team leader / procurement transaction expert (int.), Waste Management expert (int.), Energy expert (int.), Circular Economy (Recycling/Reuse) expert (int.), Waste Management expert (int.), Energy expert (int.), Circular Economy (Recycling/Reuse) expert , PPP/project financing expert (int.), Legal expert (int.), Environmental and Social Specialist (int.), Procurement Specialist (nat.), Energy Expert (nat.) and Legal Expert (nat.).

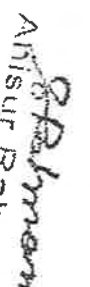
Table: Key Experts and Indicative Expected Man-Months (MM)

SN	Position	No	MM	Total
1	Team leader / procurement transaction expert (int.)	1	18	18
2	Waste Management expert	1	18	18
3	Energy expert	1	10	10
4	Circular Economy (Recycling/Reuse) expert	1	10	10
5	PPP/project financing expert	1	4	4
6	Legal expert	1	3	3
7	Environmental Specialist	1	3	3
Total		7	66	66


Table: Key Experts and Indicative Expected Man-Months (MM)

SN	Position	No	MM	Total
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SN	Position	No	MM	Total
1	Procurement Specialist	1	9	9
2	Energy Expert	1	9	9
3	Environmental Specialist	1	9	9
4	Social Expert	1	9	9
5	Legal expert	1	6	6
	<b>Total</b>	<b>5</b>	<b>42</b>	<b>42</b>

N. B.: Firm may propose additional Non-Key expert as per requirement.

#### 05. Qualification and Experiences

The following tables provide minimum qualification for educational background and professional experiences.

Table: Qualification of Key Experts and Non-Key Experts

SN	Position	Qualification	Experience
KI-1	Key Experts: Team leader / procurement transaction expert (int)	Master's degree in Business Administration/Procurement/ or BSc Engineering or in a similarly related field, Advance academic / professional qualification in procurement and supply chain management (e.g. MCIPS, CPSM) are preferred (Full time and office will be the Project Director office at Dhaka)	<ul style="list-style-type: none"> <li>Minimum 20 years general experience in the similar position</li> <li>Minimum 10 years specific experience in the similar field.</li> </ul>
KI-2	Waste Management expert	Masters of Science in Environmental Engineering/ Energy Engineering, Mechanical and Energy Engineering, or any other relevant field	<ul style="list-style-type: none"> <li>Minimum 12 years general experience in the similar position</li> <li>Minimum 10 years specific experience in the similar field.</li> </ul>
KI-3	Energy expert	Masters of Science in Energy Engineering, Mechanical and Energy Engineering, or a bachelor's degree in Energy Systems Engineering or any other relevant field	<ul style="list-style-type: none"> <li>Minimum 12 years general experience in the similar position</li> <li>Minimum 10 years specific experience in the similar field.</li> </ul>
KI-4	Circular Economy (Recycling/Reuse) expert	Masters of Science in Environmental Engineering/Science or any other relevant field	<ul style="list-style-type: none"> <li>Minimum 12 years general experience in the similar position</li> <li>Minimum 5 years specific experience in the similar field.</li> </ul>
KI-5	PPP/Project financing Expert	Bachelor's degree in business administrator/procurement/information Technology/ o Accounting/ Law or BSc Engineering or in a similarly related field Advance academic / professional qualification in procurement and supply chain management (e.g. MCIPS, CPSM) are preferred	<ul style="list-style-type: none"> <li>Minimum 12 years general experience in the similar position</li> <li>Minimum 10 years specific experience in the similar field.</li> </ul>
	Legal expert	Master's Degree in Law	<ul style="list-style-type: none"> <li>Minimum 12 years general experience in the similar position</li> <li>Minimum 10 years specific experience in the similar field.</li> </ul>



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SN	Position	Qualification	Experience
KN-7	Environmental Specialist	Master's Degree on Environmental Science	<ul style="list-style-type: none"> <li>• Minimum 10 years general experience in the similar position</li> <li>• Minimum 5 years specific experience in the similar field.</li> </ul>
<b>Non-Key Experts:</b>			
KN-1	Procurement Specialist	Master's degree in business administrator/procurement/ or BSc Engineering or in a similarly related field' Advance academic / professional qualification in procurement and supply chain management (e.g. MCIPS, CPSM) are preferred	<ul style="list-style-type: none"> <li>• Minimum 10 years general experience in the similar position</li> <li>• Minimum 5 years specific experience in the similar field.</li> </ul>
KN-2	Energy Expert	Bachelor of Science in Energy Engineering, Bachelor of Science in Mechanical and Energy Engineering, or a bachelor's degree in energy systems engineering or any other relevant field	<ul style="list-style-type: none"> <li>• Minimum 8 years general experience in the similar position</li> <li>• Minimum 4 years specific experience in the similar field.</li> </ul>
KN-3	Environmental Specialist	Master's Degree on Environmental Science	<ul style="list-style-type: none"> <li>• Minimum 10 years general experience in the similar position</li> <li>• Minimum 5 years specific experience in the similar field.</li> </ul>
KN-4	Social Expert	Master's Degree in Sociology/ Social Science or any other similar subject.	<ul style="list-style-type: none"> <li>• Minimum 10 years general experience in the similar position</li> <li>• Minimum 5years specific experience in the similar field.</li> </ul>
KN-5	Legal expert	Master's Degree in Law	<ul style="list-style-type: none"> <li>• Minimum 10 years general experience in the similar position</li> <li>• Minimum 5 years specific experience in the similar field.</li> </ul>

#### 06. Supporting Staff

The consultant team may employ supporting staff for the supervision of the sub-projects and operation of the project office, if required. The supporting staff may include:

- 1) Inspector for quality control
- 2) Data collector
- 3) Administrator
- 4) Accountant
- 5) Typist

#### 07. Reporting

Within the scope of consulting services, the Consultant shall prepare and submit reports and documents to the Employer, as shown in Table. The Consultant shall provide hard and electronic copy of each of these reports.



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Table: List of submission report

Sl.	Type of Report	Time Frame	No. of copies
1	Inception Report	Within 30 days after commencement of the services with presentation at project office including a list of all meetings and interviews with meeting notes and another list of studies and documents examined, gap analysis, work plan will be provided to BEZA.	07
2	Quarterly Progress Report	Quarterly presentation at project office summarizing efforts underway to address the above scope of work, outlining problems and constraints encountered, and presenting issues for client decision-making, as needed.	05
3.	Approval of Financial Analysis, Final Design, Cost Estimation, BoQ	Within 5 months of the contract signing	05
4.	Structuring, documentation and negotiation of public financing arrangements, including from development partners and bilateral lending;	Within 7 months of the contract signing	05
5.	Drafting project documents, including request for qualification, request for proposals, PPP agreement, associated agreements, lender security documentation, financial structuring documentation and financial close;	Within 7 months of the contract signing	05
6.	Technical due diligence, schedules and documentation	Within 7 months of the contract signing	05
7.	Preparation of details environmental and social assessment and present to the World Bank and DoI for clearance	Within 8 months of the contract signing	05
8.	Approval of bidding/tender documents	Within 9 months of the contract signing	05
9.	Approval of contract evaluation report	Within 10 months of the contract signing	05
10.	Submission of Project implementation manual.	Within 10 months of the contract signing	05
11.	Construction Supervision and Contract Management. Advise BEZA on project implementation.	Within 12 months of the contract signing up to completion	
12.	Draft Completion Report including preparation of Snag List for Defect Liability Period.	Within 22 months of the contract signing with presentation at project office.	10
13.	Final Report	1 month prior to contract closing	20

08. Cost Estimation

Particulars	Key Expert		Non-Key Expert		Total (in lakh Taka)
	MM	BDT (in lakh Taka)	MM	BDT (in lakh Taka)	



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Remuneration Expenses	66	450	42	100	550
Reimbursable Expenses					250
<b>Total</b>					<b>800</b>

**09. Procurement Method**

The consulting firm will be selected according to the quality- and cost-based selection (QCBS) method under international competing bidding (ICB) process described in IDA Guidelines on the Selection of Consultants, January 2011, Revised July (2014). A weighing system of 80% for quality and 20% for cost will be applied.

  
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 Govt. of Bangladesh (Ministry of Education)

  
 Md. Anisur Rahman  
 Director  
 Govt. of Bangladesh (Ministry of Education)

  
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 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh



## PMC II: CETP transaction Advisor (Phase-2) Financial Closure support

### Terms of Reference

#### 01. Objectives of Consulting Services

The objective of the consulting services is from a transaction advisor representing a team of suitably qualified and experienced financial, technical and legal advisors to help BEZA: (i) integrate, incorporate and manage the outcomes resulting from the CETP advisory service/feasibility/business case report; (ii) advise BEZA and implement advisory services through to financial close of the project, if needed; and (iii) support BEZA on implementation of the project, including providing an implementation manual.

#### 02. Scope of Consulting Services

The scope of Transaction implementation for the CETP at the BSMSN Economic Zone are as follows : On the basis of the PPP solution is decided on further to the feasibility study, the transaction advisor will provide the necessary technical, legal and financial advisory support for the procurement of public financing partners (including development partners) and a private partner. This support will include:

#### Part I: Finalizing Site Selection/ Financial Analysis and Tariff/ Design, Cost Estimate and BoQ:

- Competitiveness/suitability analysis of the proposed sites, CETP design optimization for efficient effluent collection, transfer, treatment, recovery, disposal facilities integrating cost recovery/3R waste management options based on recommendations from previous studies/DoB regulations/client and safeguard requirements;
- Comprehensive financial analysis for CETP operation and maintenance along with validation of capital expenditure, tariff policy, cost recovery schemes based on previous recommendations/sources or any other factors deemed relevant by the consultant;
- Finalize the infrastructure/electro-mechanical design, cost estimate, technical specification and BoQ including, data acquisition, control, online monitoring system based on field visit, topographic/geo-technical investigation, examining on-site/off-site facilities, characteristics of effluent mix from various industries in BSMSN;
- Technical due diligence, schedules and documentation
- Support to BEZA during all approval processes;
- Stakeholder engagement;
- Environmental and Social Assessment, Management Plan & Quality Assurance;
- Structuring organizational framework, institutional relationship, designated responsibilities with corresponding management system and standard operating procedure of the CETP;
- Advice must be in compliance with all elements of Bangladeshi laws, all implementing regulations and international best practices.

#### PART 2: Preparation of PPP Procurement and Tender Documents

- Structuring, documentation and negotiation of public financing arrangements, including from development partners and bilateral lending;
- Drafting project documents, including request for qualification (RFQ), request for proposals (RFP), PPP agreement, associated agreements, tender security documentation, financial structuring



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documentation and financial close in accordance with Bangladesh law/PPP act and green economic zone guideline;

- Marketing for best bidder in this field
- Support to Bid evaluation
- Legal support to BEZA regarding PPP
- Any others support regarding this assignment

After award of the project, the transaction adviser will advise BEZA on project implementation, including providing an implementation manual.

### **PART 3: Implementation Phase (Construction Supervision and Monitoring)**

Consultant shall engage Key personnel and other staffs as scheduled to site/office to supervise day to day construction works to be carried out by the Contractor. Ensure Quality through Quality Assurance System and as per the Contract Documents. Submit monthly Progress Reports with recommendations to expedite, if the Progress lags behind. Consultant must ensure the all materials, equipment, electro-mechanical system etc. are being supplied as per the approved quality assurance methodology.

#### **3.1 Measurement and Payments**

Consultant shall make measurements and keep measurement records, including the measurement books issued to him by the Employer:

- To check the consumption of the materials of executed items from the original bills/challans of the suppliers;
- Issue interim certificates for progress payments;
- Certify completion of part or all of the works;
- Prepare quarterly cash flow projections for the Employer in a format acceptable to the Employer. Cash Flows should identify budget estimates for all outstanding work;
- Maintain records of all plant ,labour and materials used in the construction of the Works;
- Check Contractor's materials ordering schedule;
- Analyze any contractual claim submitted by the Contractor and prepare a report for the Employer addressing the contractual basis, in terms of both technical and financial issues, for the claim and recommendations for a response to the Contractor.
- On satisfactory Completion of the Project Consultant shall certify the final IPC after necessary check and suggest the Employer next course of action as per the Contract.

#### **3.2 Quality Assurance:**

The execution of Quality Assurance will be in accordance with the approach and methodology agreed in the Inception Report and in accordance with the audit plan. In general the purpose of quality assurance exercise is to ensure that the works are



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- i. Executed according to the designs, drawings and specifications as specified in the bidding documents / applicable standards, and that good engineering practices are followed in construction.
- ii. True to desired lines, levels and finishing.
- iii. Executed following the EMP provisions included in the bidding.
- iv. Executed following the relevant laws / statutes and practices / guidelines related to workers welfare, safety at worksite, insurances, etc.

The Consultant's Quality Assurance Plan shall include but not be limited to the following:

- (i) Check the setting out of the Contractor.
  - (i) Review of all concrete mix designs proposed by the Contractors and approve/suggest modifications in the mix design, laying methods, sampling and testing procedure, and quality control measures, to ensure required standard and consistency in quality at the commencement of items;
  - (ii) Check the Calibration of the Contractor's Plants and Equipment
  - (iv) Evolve a system of Quality Assurance of works including, but not limited to establishing testing frequencies and acceptance criteria for all construction activities based on the Specifications mentioned in the construction contract agreement or international best practice where such Specifications is not mentioned in the construction contract;
  - (v) Testing and sampling frequencies shall be in accordance with the instructions of the Employer
  - (vi) Inspect the performance of the work with regard to workmanship, compliance with the specifications all necessary testing required for acceptance of any item of work;
  - (vi) Inspect all material sources nominated by the Contractor and recommend the same for approval to the Employer;
  - (viii) Assess and check the laboratory and field tests carried out by the Contractors and carry out independent tests;
  - (ix) Issue orders to the Contractor to remove or make good any works found not acceptable.
  - (x) Maintain records of all testing work, including cross referencing to items of work to which each test refers and location from which any samples were obtained for testing.

### 3.3 Environmental Management Plan (EMP)

The Environment Management Plan (EMP) is a set of measures for avoidance, minimization and mitigation of adverse environmental impacts. The Contractor will abide by the environmental, occupational health and safety measures listed in the Environment Management Plan (EMP) of the project during preparation and execution of Works. Adverse impacts on the environment caused due to non-adherence of legal and EMP requirements during preparation and execution of civil works shall be made good at the Contractor's own expenses. The Engineer's check and certification for payment, in accordance to requirements under relevant Clause of the Contract, shall also include the performance review of the Contractor with regard to EMP compliance.

When performing the scope of work, the transaction advisor shall provide its services in a manner so that it can be replicated by BEZA in other projects.

#### 03. Expected Outputs

In line with the scope of works the Consultant shall produce the following:

**03.1 Inspection Report:**  
A review report providing comprehensive financial analysis for CETP services accompanied by detailed recommendations concerning tariffs, cost recovery, subsidy policies and their timing and roll-out based on A financing plan reflective of the recommended institutional structures should be included.



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- Recommendation for appropriate System of CETP and effluent collection and disposal System in BSMSN (System design);
- Recommendation for appropriate CETP and Waste Processing considering most economic and environ friendly Technology with Tech. specifications.
- Finalizing Engineering design of the CETP along with required physical facilities and financial analysis.
- Finalizing of BoQ and Tender Documents along with all necessary complete working drawings of all necessary components of CETP.
- Carrying out Topographic survey and Geo-Technical Investigation in the designated area for site development and Foundation design.
- Holding monthly meeting to update Client/ Representative on the progress of ongoing Services.
- Carrying out any relevant Investigations required for CETP of BSMSN with special focus on Soil and Underground water Contamination, Air- Pollution or any other direct or indirect environmental effects.
- Integrated waste management with possible recovery and recycling elements as might be deemed cost-effective by the private sector to implement as part of the requirements of 3R strategy;
- An overall implementation plan which identifies the steps, decisions and actions needed to implement the various recommendations of the study, including terms of reference for any required technical assistance to build local institutional, financial and private sector participation;
- Hands-on assistance to the BRZA to implement the above recommendations in a timely and orderly manner, to support the project objectives of improved service, cost-effectiveness, and cost recovery.

#### 04. Expected Time Schedule

The total duration of consulting services will be 24 months (6 months technical advisory services during project inception stage (part 1), 6 months for transaction phase until financial close (part 2) and 12 months to help prepare BEZA for project implementation phase (part 3). The implementation schedule expected is as shown in Table.


Key Activities	Duration in Months
Invitation of EOI	15/05/2021
Issue of RFP	24/06/2021
Commencement of Consulting Services	23/08/2021
Termination of Consulting Services	31/07/2023

#### 05. Expertise Required

The consultant team will consist of both Key Expert and Non-Key Expert and will be engaged for the duration of consulting services. The team of consultants is expected to be comprised of a Team leader / PPP expert (Int.), Central Effluent Treatment Plant Design Expert (Int.), Financial Analyst (Int.), & Legal expert (Int.)

Table: Key Experts and Indicative Expected Man-Months (MM)

SN	Position	No	MM	Total
1.	Team leader / PPP expert (Int.)	1	24	24
2.	Central Effluent Treatment Plant Design Expert (Int.)	1	24	24
3.	Financial Analyst (Int.)	1	8	8
4.	Legal expert (Int.)	1	4	4
<b>Total</b>		<b>4</b>	<b>60</b>	<b>60</b>

  
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SN	Position	No	MM	Total
1.	Electro-mechanical Engineer	1	12	12
2.	Monitoring & Evaluation Expert	1	12	12
3.	Site Engineer (Civil)	1	6	6
4.	Site Engineer (Electro-mechanical)	1	6	6
5.	Procurement Specialist	1	3	3
6.	Environmental Specialist	1	10	10
7.	Social Expert	1	10	10
8.	Legal expert (national)	1	4	4
	<b>Total</b>	<b>8</b>	<b>63</b>	<b>63</b>

N. B.: Firm may propose additional Non-Key expert as per requirement

#### 06. Qualification and Experiences

The following tables provide minimum qualification for educational background and professional experiences.

Table: Qualification of Key Experts and Non-Key Experts

SN	Position	Qualification	Experience
KI-1	Key Experts: Team leader / PPP expert (Int)	Master's degree in business administration/procurement/ or BSc Engineering or in a similarly related field' Advance academic / professional qualification in procurement and supply chain management (e.g. MCIPS, CPISM) are preferred' (Full time and office will be the Project Director office at Dhaka)	<ul style="list-style-type: none"> <li>• Minimum 20 years general experience in the similar position</li> <li>• Minimum 10 years specific experience in the similar field.</li> </ul>
KI-2	CETP Design expert(Int)	Masters of Science in Environmental Engineering/ Energy Engineering, Mechanical and Energy Engineering, or or any other relevant filed. Credential of designing and commissioning at least one CETP of minim 20 MLTD capacity.	<ul style="list-style-type: none"> <li>• Minimum 12 years general experience in the similar position</li> <li>• Minimum 10 years specific experience in the similar field.</li> </ul>
KI-3	Financial Analyst	Masters in Finance With minimum 10 years of experience of Financial/ Business Modeling of Similar Project	<ul style="list-style-type: none"> <li>• Minimum 12 years general experience in the similar position</li> <li>• Minimum 10 years specific experience in the similar field.</li> </ul>
KI-4	Legal expert	Master's Degree in Law with relevant experience in PPP projects	<ul style="list-style-type: none"> <li>• Minimum 12 years general experience in the similar position</li> <li>• Minimum 10 years specific experience in the similar field.</li> </ul>
	Non-Key Experts:		
NK-1	Electro-mechanical Engineer	Graduate Engineer (Electrical/Mechanical) with minimum 5 Year experience in Construction supervision of Similar Project	<ul style="list-style-type: none"> <li>• Minimum 10 years general experience in the similar position</li> <li>• Minimum 5 years specific experience in the similar field.</li> </ul>

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Date: 10/10/2023

SN	Position	Qualification	Experience
NK-2	Monitoring & Evaluation Expert	Graduate Engineer (IT) or equivalent with experience of Monitoring and Evaluation of Similar Project. Min. 5-Year Experience.	<ul style="list-style-type: none"> <li>• Minimum 10 years general experience in the similar position</li> <li>• Minimum 5 years specific experience in the similar field.</li> </ul>
NK-3	Site Engineer (Civil)	Diploma in Civil Engineering with experience of Construction supervision of large Construction Project.	<ul style="list-style-type: none"> <li>• Minimum 10 years general experience in the similar position</li> <li>• Minimum 5 years specific experience in the similar field.</li> </ul>
NK-4	Site Engineer (Electro-mechanical)	Diploma in Electrical Engineering with experience of Construction supervision of Similar Construction Project.	<ul style="list-style-type: none"> <li>• Minimum 10 years general experience in the similar position</li> <li>• Minimum 5 years specific experience in the similar field.</li> </ul>
NK-5	Procurement Specialist	Master's degree in Business Administrator/Procurement/ or BSc Engineering or in a similarly related field Advance academic / professional qualification in procurement and supply chain management (e.g. MCIPS, CPISM) are preferred!	<ul style="list-style-type: none"> <li>• Minimum 10 years general experience in the similar position</li> <li>• Minimum 5 years specific experience in the similar field.</li> </ul>
NK-6	Environmental Specialist	Master's Degree on Environmental Science	<ul style="list-style-type: none"> <li>• Minimum 10 years general experience in the similar position</li> <li>• Minimum 5 years specific experience in the similar field.</li> </ul>
NK-7	Social Expert	Master's Degree in Sociology/ Social Science or any other similar subject.	<ul style="list-style-type: none"> <li>• Minimum 10 years general experience in the similar position</li> <li>• Minimum 5years specific experience in the similar field.</li> </ul>
NK-8	Legal expert	Master's Degree in Law	<ul style="list-style-type: none"> <li>• Minimum 10 years general experience in the similar position</li> <li>• Minimum 5 years specific experience in the similar field.</li> </ul>

#### 07. Supporting Staff

The consultant team may employ supporting staff for the supervision of the sub-projects and operation of the project office, if required. The supporting staff may include:

- 1) Data collector
- 2) Administrator
- 3) Accountant
- 4) Surveyor
- 5) Estimator
- 6) Lab Technician
- 4) Typist

#### 08. Reporting

Within the scope of consulting services, the Consultant shall prepare and submit reports and documents to the Employer, as shown in Table. The Consultant shall provide hard and electronic copy of each of these reports.



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*Anisur Rahman*  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

*D. M. A.*  
 প্রকল্প পরিচালক  
 জাতীয় প্রকল্প পরিচালনা  
 কার্যালয় (সে. ভা. ১৩৩ এ সেক্সা)



Table: List of submission report

SL	Type of Report	Time Frame	No. of copies
1	Inception Report	Within 30 days after commencement of the services with presentation at project office including a list of all meetings and interviews with meeting notes and another list of studies and documents examined, gap analysis, work plan will be provided to BEZA.	07
2	Quarterly Progress Report	Quarterly with presentation at project office summarizing efforts underway to address the above scope of work, outlining problems and constraints encountered, and presenting issues for client decision-making, as needed.	05
3.	Approval of Financial Analysis, Final Design, Cost Estimation, BoQ.	Within 5 months of the contract signing	05
4.	Structuring, documentation and negotiation of public financing arrangements, including from development partners and bilateral lending.	Within 6 months of the contract signing	05
5.	Drafting project documents, including request for qualification, request for proposals, PPP agreement, associated agreements, lender security documentation, financial structuring documentation and financial close.	Within 6 months of the contract	05
6.	Technical due diligence, schedules and documentation	Within 7 months of the contract signing	05
7.	Preparation of details environmental and social assessment and present to the World Bank and DoF for clearance	Within 8 months of the contract signing	05
8.	Approval of bidding/tender documents	Within 8 months of the contract signing	05
9.	Approval of contract evaluation report	Within 10 months of the contract signing	05
10.	Submission of Project implementation manual.	Within 10 months of the contract signing	05
11.	Construction Supervision and Contract Management. Advise BEZA on project implementation.	Within 12 months of the contract signing up to completion	
12.	Draft Completion Report including preparation of Shag List for Defect Liability Period.	Within 22 months of the contract signing with presentation at project office.	10
13.	Final Report	1 month prior to contract closing	20



স্বাক্ষরিত  
 প্রধানমন্ত্রীর কার্যালয়  
 ঢাকা-১০০ (১ম তল)

*Atisur Rahman*  
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 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

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*Atisur Rahman*  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

**09. Cost Estimation**

Particulars	Key Expert		Non-Key Expert		Total (in lakh Taka)
	MM	BDT (in lakh Taka)	MM	BDT (in lakh Taka)	
Remuneration Expenses	60	450	63	150	600
Reimbursable Expenses					350
<b>Total</b>					<b>950</b>

**10. Procurement Method**

The consulting firm will be selected according to the quality- and cost-based selection (QCBS) method under international competing bidding (ICB) process described in IDA Guidelines on the Selection of Consultants, January 2011, Revised July (2014). A weighting system of 80% for quality and 20% for cost will be applied.

*02/02*  
 ডায়ালগ প্রকল্পের  
 মূল্যায়ন  
 সংক্রান্ত (ICB) কারি কার্য ও গুরুত্ব

*Prasanna*  
 এটিএনসিআর প্রকল্পের  
 পরিচালক (সি.এ.এস.)  
 প্রকল্প পরিচালনা দপ্তর  
 মন্ত্রণালয়, বাংলাদেশ

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 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh



**PMC 12: BSMSN New City Infrastructure Planning & Financing modalities master plan for commercial and residential areas, smart city**

**Terms of Reference**

**01. Objectives of Consulting Services**

The objective of the consulting services is from a transaction advisor representing a team of suitably qualified and experienced financial, technical and legal advisors to help BEZA: (i) Developing BSMSN as the first smart city; (ii) Undertake a comprehensive study for the project including detailed master planning of the city. Based on the Master Plan for Mirsarai EZ, this BSMSN City master plan to provide detailed guidance on service needs and solutions, location of facilities/utilities, logistical flows, transport links and corridors, development clusters including residential, commercial, public and emergency services; and (iii) advise BEZA on different sources of financing and structures that can be used to facilitate financing and implementation of the project.

**02. Scope of Consulting Services**

The scope of Transaction implementation of the Planning and Strategic Advisory Services for BSMSN City Development are as follows:

- (i) Produce a note on global experiences on new city development, including smart cities and the use of development corporations
- (ii) Undertake a comprehensive study for the project including master planning of the city. Based on the Master Plan for Mirsarai, this BSMSN City master plan to provide detailed guidance on service needs and solutions, location of facilities, logistical flows, transport links and corridors, development clusters including residential, commercial and public services, et. This master plan should include
  - full project cycle costs
  - affordability limits
  - risks and their costs
  - optimal value-for-money methods of delivery.
- (iii) Advise BEZA on different sources of financing and structures that can be used to facilitate financing and implementation of the project, including land value capture, leveraging commercial investment opportunities with public services, the efficient use of private investment (including PPP) models to deliver master developers for different parts of the city, specific services (for example utilities, transport, education and health). The financing sources assessment will include detailed analysis of investment/financing structures, a financial model for the development of the city with different sources of financing identified in detail.
- (iv) BSMSN Governance – based on the above, advise on the different governance structures, institutions, companies and other mechanisms to manage a large new city with the services contemplated, in the context of BEZA and the larger BSMSN development. Governance advice will consider the Bangladeshi cultural and social context, political context and dynamics and mobilizing the most best value for money from financing and investment opportunities. The structure will look to protect BSMSN from the corruption and influences often accompanying such new city developments.

The advisor needs to submit a single bid, in the formats prescribed in these terms of reference. (Reference to 'the transaction advisor' includes the entire advisory team, or relevant members, under the management of a single lead advisor who shall contract with BEZA, which will act as the government contracting agency (GCA)).



স্বাক্ষরিত  
প্রধানমন্ত্রীর কার্যালয়  
১০, পল্টন সড়ক, ঢাকা-১০০

*Ahisur Rahman*  
**Ahisur Rahman**  
Director  
Prime Minister's Office  
of the People's Republic of Bangladesh

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*Ahmed*

This advice must be in compliance with all elements of Bangladeshi laws, all implementing regulations and international best practices.

This is the first holistic project for development of a new city to be implemented in Bangladesh. It is intended to be used as a model for future project development. Therefore, when performing the scope of work, the transaction advisor shall provide its services in a manner propitious to replication by BGEZA for other projects

### 03. Expected Time Schedule

The total duration of consulting services will be 12 months. The implementation schedule expected is as shown in Table.

Key Activities	Duration in Months
Invitation of EOI	15/05/2021
Issue of RFP	24/06/2021
Commencement of Consulting Services	23/08/2021
Termination of Consulting Services	31/09/2022

### 04. Expertise Required

The consultant team will consist of both Key Expert and Non-Key Expert and will be engaged for the duration of consulting services. The team of key consultants is expected to be comprised of a Team leader / municipal development expert, Municipal services expert, Municipal planner, PPP/municipal financing expert, Legal expert, Environmental and social specialist & Housing/real estate expert.

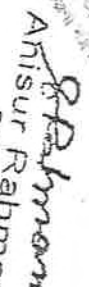
Table: Key Experts and Indicative Expected Man-Months (MM)

SN	Position	No	MM	Total
1	Team leader / Municipal development expert	1	12	12
2	Municipal services expert	1	12	12
3	Municipal planner	1	12	12
4	PPP/municipal financing expert	1	12	12
5	Legal expert	1	5.0	5.0
6	Environmental & Social specialist	1	12	12
7	Housing/real estate expert	1	12	12
<b>Total</b>		<b>7</b>	<b>77</b>	<b>77</b>

Table: Non-Key Experts and Indicative Expected Man-Months (MM)

SN	Position	No	MM	Total
1	Municipal planning Specialist	1	12.0	12.0
2	Utilities expert	1	12.0	12.0
3	Environmental Specialist	1	12.0	12.0
4	Social Specialist	1	12.0	12.0
5	Housing/real estate expert	1	5.0	5.0
6	Legal expert	1	5.0	5.0
<b>Total</b>		<b>6</b>	<b>58</b>	<b>58</b>



  
**Anisur Rahman**  
 Director  
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 Govt. of the People's Republic of Bangladesh

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N.B.: Firm may proposed additional Non-Key expert as per requirement

### 05. Qualification and Experiences

The following tables provide minimum qualification for educational background and professional experiences.

Table: Qualification of Key Experts and Non-Key Experts

SN	Position	Qualification	Experience
	<b>Key Experts</b>		
1	Team leader / Municipal development expert	Master's Degree in Physical Planning, Urban and Regional Planning or similar	<ul style="list-style-type: none"> <li>• Minimum 15 years general experience in the similar position</li> <li>• Minimum 10 years specific experience in the similar field</li> </ul>
2	Municipal services expert	Master Degree in Physical Planning, Urban and Regional Planning or similar	<ul style="list-style-type: none"> <li>• Minimum 12 years general experience in the similar position</li> <li>• Minimum 8 years specific experience in the similar field</li> </ul>
3	Municipal planner	Master Degree in Physical Planning, Urban and Regional Planning or similar	<ul style="list-style-type: none"> <li>• Minimum 12 years general experience in the similar position</li> <li>• Minimum 8 years specific experience in the similar field</li> </ul>
4	PPP/ municipal financing expert	Master's Degree in business administration/procurement/Information Technology/ o Accounting/ Law or BSc Engineering or in a similarly related field' Advance academic / professional qualification in procurement and supply chain management (e.g. MCIPS, CPSM) are preferred'	<ul style="list-style-type: none"> <li>• Minimum 12 years general experience in the similar position</li> <li>• Minimum 10 years specific experience in the similar field.</li> </ul>
5	Legal expert	Master's Degree in Law	<ul style="list-style-type: none"> <li>• Minimum 12 years general experience in the similar position</li> <li>• Minimum 10 years specific experience in the similar field.</li> </ul>
6	Environmental & Social specialist	Master's Degree Environmental Science	<ul style="list-style-type: none"> <li>• Minimum 12 years general experience in the similar position</li> <li>• Minimum 10 years specific experience in the similar field.</li> </ul>
7	Housing/real estate expert	Master's Degree in Civil Engineering	<ul style="list-style-type: none"> <li>• Minimum 12 years general experience in the similar position</li> <li>• Minimum 10 years specific experience in the similar field.</li> </ul>
	<b>Non-Key Experts:</b>		
1	Municipal planning Specialist	Master Degree in Physical Planning, Urban and Regional Planning or similar	<ul style="list-style-type: none"> <li>• Minimum 5 years general experience in the similar position</li> <li>• Minimum 3 years specific experience in the similar field</li> </ul>
2	Utilities expert	Master Degree in civil engineering	<ul style="list-style-type: none"> <li>• Minimum 5 years general experience in the similar position</li> <li>• Minimum 3 years specific experience in the similar field</li> </ul>



স্বাক্ষরিত (স্বাক্ষর)  
 মুক্তিলাভের ১০০ তম বার্ষিকী  
 বাংলাদেশ (স্বাক্ষর)

*S. Rahman*  
**Anisur Rahman**  
 Director

Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

*Rashid*  
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SN	Position	Qualification	Experience
3	Key Experts Environmental Specialist	Master's Degree Environmental Science	<ul style="list-style-type: none"> <li>Minimum 5 years general experience in the similar position</li> <li>Minimum 3 years specific experience in the similar field.</li> </ul>
4	Social Specialist	Master's Degree Social Science	<ul style="list-style-type: none"> <li>Minimum 5 years general experience in the similar position</li> <li>Minimum 3 years specific experience in the similar field.</li> </ul>
5	Housing/real estate expert	Master's Degree in Civil Engineering	<ul style="list-style-type: none"> <li>Minimum 5 years general experience in the similar position</li> <li>Minimum 3 years specific experience in the similar field.</li> </ul>
6	Legal expert	Master's Degree on Environmental Science	<ul style="list-style-type: none"> <li>Minimum 5 years general experience in the similar position</li> <li>Minimum 3 years specific experience in the similar field.</li> </ul>

#### 06. Supporting Staff

The consultant team may employ supporting staff for the supervision of the sub-projects and operation of the project office, if required. The supporting staff may include:

- 1) Data collector
- 2) Administrator
- 3) Accountant
- 4) Typist

#### 07. Reporting

Within the scope of consulting services, the Consultant shall prepare and submit reports and documents to the Employer, as shown in Table. The Consultant shall provide hard and electronic copy of each of these reports.

Table: List of submission report

Sl.	Type of Report	Time Frame	No. of copies
1	Inception Report	Within 20 days after commencement of the services with presentation at project office	07
2	Quarterly Progress Report	Quarterly with presentation at project office	05
3	Produce a note on global experiences on new city development, including smart cities and the use of development corporations	Within 4 months of the contract	05
4	Undertake a comprehensive study for the project including master planning of the city	Within 4 months of the contract	05
5	advise BEZA on different sources of financing and structures that can be used to facilitate financing and implementation	Within 3 months of the contract	05

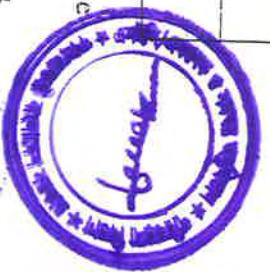
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 প্রকল্প পরিচালনা  
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ARISUR RAHMAN  
 Director

Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh



6	of the project BSMSN Governance – based on the above, advise on the different governance structures, institutions, companies and other mechanisms to manage a large new city with the services contemplated, in the context of BEZA and the larger BSMSN development	Within 5 months of the contract	05
7	Submission of Project implementation manual.	Within 8 months of the contract	05
8	Advise BEZA on project implementation, including providing an implementation manual.	After 10 months of the contract	05
9	submit a single bid, in the formats prescribed	After 10 months of the contract	
10	Draft Final Report	Within 8 month after commencement of the services with presentation at project office	10
11	Final Report	Before 1 months of the contract closing	20

**07. Cost Estimation**

Particulars	Key Expert		Non-Key Expert		Total (in lakh Taka)
	MM	BDT (in lakh Taka)	MM	BDT (in lakh Taka)	
Remuneration Expenses	77	600	58	150	750
Reimbursable Expenses					250
<b>Total</b>					<b>1000</b>

**08. Procurement Method**

The consulting firm will be selected according to the quality- and cost-based selection (QCBS) method under international competing bidding (ICB) process described in IDA Guidelines on the Selection of Consultants, January 2011, Revised July (2014). A weighting system of 80% for quality and 20% for cost will be applied.

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*WMA*  
 মহাপরিচালক (প্রোগ্রামিং)  
 বাংলাদেশ সরকার  
 অর্থসচিব (এস এম ও এ এসসি)

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*২১৯০৬*  
 প্রতিষ্ঠানের পরিচালক  
 বাংলাদেশ সরকার  
 অর্থসচিব (এস এম ও এ এসসি)



## PMC 13: Monitoring and Supervision Engineers for each PPP Infrastructure

### Terms of Reference (TOR) for

#### 01. Background

The project will finance works, goods, technical assistance and training to support the design and construction of climate smart and resilient shared facilities and services, which will eventually be extended to residential and commercial areas. Private partners, when feasible, will co-finance capital investments on a parallel basis and contribute business and technology expertise by handling operations and maintenance. The limited experience of infrastructure PPPs in Bangladesh and the urgency of the development of core infrastructure means that the sub-projects, below, will be a combination of publicly developed and operated, publicly developed and privately operated, and privately developed and operated solutions. The partnership with experienced private operators will be critical to allow the BSMSN to pioneer technically innovative solutions. Some capital investments will be financed by the BEZA to make green solutions viable. The financing strategy of the interventions for the BSMSN-2 will be based on a cascade approach to classify and prioritize the investments that can be performed considering various private and public sources. The interventions will incorporate plans to benefit the residential and commercial surrounding.

The Basic PPP Projects at BSMSN are:

**Common Effluent Treatment Plant (CETP):** A CETP at the Ichakhali canal by the Bay of Bengal with the capacity to treat 48,000 m<sup>3</sup>/day is required and up to 16,000 m<sup>3</sup>/day of the treated wastewater will be reused. The remaining treated wastewater will feed the desalination plant to optimize its design and lower the total investment. 18 acres have been earmarked for the CETP where influent norms at the inlet will be set at predetermined parameters. Industrial tenants will be required to install effluent treatment plants at their sites, and they will be mandated to provide pre-treatment of effluent, if required. The design and management by a credible private partner are critical to the integrity of the CETP. The CETP will consider climate and disaster risks in its design, by ensuring the resilience of key infrastructure, equipment and buildings, as well as its water and energy systems. The CETP advisor is providing technical, legal and financial advisory support for the procurement of a private partner. The transaction adviser will help review deliverables of the CETP adviser. Where financing is required in addition to that supported by the CETP adviser, the transaction adviser will provide support to BEZA to deliver such financing, in compliance with all elements of Bangladeshi laws and all implementing regulations as well as international best practices. The transaction adviser will also provide support to BEZA on implementation of the project, in particular delivering an implementation manual.

**Desalination plant:** The technical assessment of potential desalination technologies points to sea water reverse osmosis with energy recovery as the most competitive solution. The desalination plant, planned at the southern tip of BSMSN-2 (see Maps in Annex 2), will consider climate vulnerability and extreme weather conditions in the designing of the plant which will improve the quality, resilience, and sustainability of water services. It will require a maximum capacity of 20,000 m<sup>3</sup>/day to be developed in two modules, which can later be expanded as needed. It will supply process water with a quality that can be used without treatment by most of the industrial unit investors. The proposed solution will provide a reasonable service fee. An experienced international partner will design and manage the desalination plant.

**Roof-top, ground-mounted and floating solar:** This activity will support renewable energy systems using rooftop and floating solar power schemes to increase access to clean and sustainable electricity. The preliminary assessment for rooftop/ground-mounted solar capacity is 60 MWp while floating solar capacity is 10 MWp. The

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 বাংলাদেশ সরকার  
 প্রধানমন্ত্রীর কার্যালয়  
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 Director  
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integration of solar power solutions in BSMSN will help reduce the environmental footprint, provide more diversified and reliable energy sources, and render the area more attractive for the adjacent residential and commercial areas in addition to industrial tenants.

**Steam network:** Construction of high/medium-pressure steam pipelines connecting tenant firms is most viable between the planned steel plant (the sender) and the textile companies (the receivers) in BSMSN-2. Two-way steam pipelines will be constructed along the main road network within BSMSN-2B (3km<sup>2</sup>) and between BSMSN-2B and the steel plant (0.68 km<sup>2</sup>), to send steam and receive condensate with insulation. Flood resilience measures will be integrated with the pipeline design.

**Biogas plant, waste sorting and material recovery facility:** A waste sorting facility with 10 tons/hour capacity will be constructed to process waste and recover material from industrial and municipal waste, including metals, glass, paper, textiles and plastics, as well as domestic food waste, roads and building construction waste and electronic waste. Mechanical sorting technologies will be used to ensure effective and safe material recovery from industrial and municipal waste. The facility will screen, sort, shred, and separate industrial and municipal solid waste to be recycled or sent to a biogas plant or landfill. A biogas plant will be built to process up to 100 tons of municipal solid waste per day. The waste sorted at the waste sorting facility will be used as feedstock to generate approximately 1 MW equivalent biogas. The biogas will be used as renewable source of gas to be supplied in BSMSN-2.

**Solid Waste Management (Land Filling):** The estimated amount of solid waste generated from the BSMSN-2 is 464 tons/day at full capacity, including industrial (hazardous and non-hazardous) and organic solid waste. Municipal solid waste and domestic sewage can be collected from point sources throughout the BSMSN. Projected design waste volumes are 40,000 m<sup>3</sup> per year at full capacity. The total area required to meet the waste generated from the BSMSN-2 for a 20-year design horizon is roughly 220 acres to be developed in a modular way. The limited experience of infrastructure PPPs in Bangladesh and the urgency of the development of core infrastructure means that the sub-projects, below, will be a combination of publicly developed and operated, publicly developed and privately operated, and privately developed and operated solutions.

## 02. Objectives of Consulting Services

The consulting services shall be provided by consulting firm(s) in compliance with Guidelines for the Employment of Consultants under the GoB and the World Bank. The objective of the consulting services is to conduct full time technical supervision and monitoring of all construction /erection/installations in connection with the civil works for the PPP components stated above.

## 03. Scope of Consulting Services

The consultant shall conduct full time technical supervision and monitoring of all construction /erection/installations in connection with the civil works for the components stated above and in that context, would carry out, but not limited to the following activities:

- Supervise all construction works during implementation as per contract agreement through establishing procedures for systematic on-site checking and monitoring of quality and quantities of all work items, including field checks to confirm integrity of survey data, application of improved and modern methods.
- Work closely with field engineering staff in order to ensure quality and timely completion of the works.
- For the civil works, goods, and equipment supply and installation contracts, the consultant would be responsible for inspection and supervision of the construction works, installation of equipment and testing of construction material, in order to ensure that the works implemented, and goods supplied are in accordance with the designs, specifications and terms and conditions of the relevant contracts and standards.

Provide strong on-site project supervision report daily progress of the works and monitor deliverables strictly against the agreed work plan submitted by the contractor.

*(Signature)*

Anisur Rahman

Director

Prime Minister's Office  
Govt. of the People's Republic of Bangladesh

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*(Signature)*



পরাশুরাম সরকার  
স্বাক্ষরিত  
সচিবালয় (১৩৯) গণপ্রজাতন্ত্রী বাংলাদেশ

- Contract administration and management;
- Supervision of construction activities
- Preparation of monthly progress reports
- Issuance of completion certificates, and preparation of documents as required for acceptance of works/goods by the owner;
- Assurance for proper demobilization and restoration of the construction sites after completion, Q&M during warranty period by the contractors
- In the event of contractual dispute which may result in legal action, adjudication or arbitration between the contractor and the employer, and on the instruction, will assist client in collating and preparing factual documentation which describes the circumstances of the dispute.
- Fasture implementation of Quality Assurance Check List for all category of works in order to establish a systematic construction procedure
- Ensure compliance of safeguard instruments for all contract packages.
- Ensure implementation of safeguard compliances stated in BOQs of the bidding documents.
- Ensure withholding of interim payments to the contractors if they failed to implement the items for safeguard compliance of BOQ items for all Contract Packages.
- Verify the test results to ensure the quality of works and goods conducted by the contractors as stated in the bidding documents.
- Prepare Variation Order considering contract agreement and recommend for approval, if required. In this case, proper attention should have to be paid during design and preparation of BOQ so that the numbers of Variations could be kept minimum.
- Review and approve the contractors work program and progress schedules ensuring that the Contractors' have incorporated / followed the most effective and expeditors methodology for carrying out the works.
- Assist client concerning the Schedule of handing over the sites, and possible delays due to lack of possession with a view to assuring that the Contractors are given possession of the Site in accordance with the agreed work program.
- Inspect borrow pits, and crushing plants, and order tests of materials and ensure adherence to specifications and approve the sources of materials.
- Make arrangement to check the quality of the materials brought to site, ensure quality of construction consistent with the specifications.
- Jointly inspect with client the completed civil works and assist informal taking over, and review and approve or prepare "as built" drawings and plans (as the case may be), and provide reports testifying satisfactory completion of the contracts.
- Presence in all monthly progress review meetings.
- Supervision and monitoring of works based on the work program submitted by the contractors.
- Ensure that the contractors are maintaining site order books and recording their activities as per the work program.
- Ensure complete presence of their staff during all casting executed by the contractors.
- Ensure that the tests and frequency of tests stated in the bidding documents and compliance of the test results are being done by the contractors.
- The measurement book (MB) to be signed by the Consultant.

#### 04. Expected Time Schedule

The total duration of consulting services will be 36 months. The implementation schedule expected is as shown in Table.

Key Activities	Duration in Months
Invitation of EOI	15/10/2021
Issue of RFP	24/11/2021
Commencement of Consulting Services	23/01/2022
Termination of Consulting Services	31/12/2025

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 Anisur Rahman  
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 Prime Minister's Office

Genl. of the People's Republic of Bangladesh



### 05. Expertise Required

The consultant team will consist of both Key Expert and Non-Key Expert and will be engaged for the duration of consulting services. The team of key consultants is expected to be comprised of a Team leader / procurement transaction expert (int.), Desalination/engineering expert (int.), PPP/project financing expert (int.), Legal expert (int.), Environmental and Social Specialist (int.), Procurement Specialist (nat.), Chemical Engineer (nat.), Civil Engineer (nat.), Environmental Specialist and Legal expert (nat.)

Table: Key Experts and Indicative Expected Man-Months (MM)

SN	Position	No	MM	Total
1	Team Leader	1	36	36
2	CEFP Expert	1	20	20
3	Desalination Expert	1	20	20
4	Solar Power Expert	1	20	20
5	Solid Waste Management Expert	1	15	15
6	Sleam Management Expert	1	10	10
7	PPP Expert	1	20	20
8	Environmental Safeguard Expert	1	10	10
9	Social Safeguard Expert	1	10	10
<b>Total</b>		<b>9</b>		<b>161</b>

Table: Non-Key Experts and Indicative Expected Man-Months (MM)

SN	Position	No	MM	Total
1	Design Engineer (CEFP)	1	12	12
2	Design Engineer (Desalination Plant)	1	18	18
3	Environmental and Safety engineer	1	18	18
4	Mechanical Engineer	1	18	18
5	Quantity of Surveyor and Estimator (Civil, Electrical & Mechanical)	1	18	18
6	CAD Operator	1	18	18
<b>Total</b>		<b>6</b>	<b>102</b>	<b>102</b>

N. B.: Firm may proposed additional Non-Key expert as per requirement

### 06. Qualification and Experiences

The following tables provide minimum qualification for educational background and professional experiences.

Table: Qualification of Key Experts and Non-Key Experts

SN	Position	Qualification	Experience
KI-1	Key Experts: Team Leader	Minimum Bachelor's degree in Civil Engineering. Any relevant / project management professional qualification will be an added advantage.	• Having at least total 20 years of relevant experience. Of which at least 10 years' experience in project management, coordination on design & drawings, contract management, quality control, monitoring, reporting & top supervision of similar type of projects.



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SN	Position	Qualification	Experience
	Key Experts:		
KI-2	CETP Expert	Minimum Bachelor's degree in Engineering/Environmental Engineering or relevant subject.	<ul style="list-style-type: none"> <li>Should have experience as Team Leader at least 3 similar type of projects.</li> <li>Minimum 10 years specific experience in the similar field.</li> <li>At least 15 years of relevant experience. Preferably, have international experiences in CETP designing &amp; planning similar nature of projects. Having also experienced in energy efficient architectural designs that reflect green building principles following the most up to date standards etc.</li> <li>Minimum 10 years specific experience in the similar field.</li> </ul>
KI-3	Desalination Expert	Minimum Bachelor's degree in Civil Engineering/Environmental Engineering or relevant subject with at least 15 years of relevant experience.	<ul style="list-style-type: none"> <li>Preferably, have international experiences in CETP designing &amp; planning similar nature of projects. Having also experienced in energy efficient architectural designs that reflect green building principles following the most up to date standards etc.</li> <li>Minimum 10 years specific experience in the similar field.</li> <li>At least 10 years of experience in designing of similar types of structure in home / abroad. Well known about the solar system and its practice. Well conversant about energy efficient / green built structure and its designing. Experience in Bangladesh for the similar type of structure desires.</li> <li>Minimum 10 years specific experience in the similar field.</li> <li>Minimum 12 years general experience in the similar position</li> <li>Minimum 8 years specific experience in the similar field for designing of similar types of structure.</li> </ul>
KI-4	Solar Power Expert	At least Bachelor's degree in Engineering with 15 years of relevant experience in solar.	<ul style="list-style-type: none"> <li>Minimum 12 years general experience in the similar position</li> <li>Minimum 8 years specific experience in the similar field for designing of similar types of structure.</li> </ul>
KI-5	Solid Waste Management Expert	At least Bachelor's degree in Environmental / Civil Engineering or relevant subject	<ul style="list-style-type: none"> <li>Minimum 12 years general experience in the similar position</li> <li>Minimum 10 years specific experience in the similar field.</li> <li>At least 5 years' in the design, selection and installation of stream / electro-mechanical devices in particular T/Cs or similar types of works. Experience in HVAC, different service including sanitary &amp; water supply connections and well known to get approval for different utility connections for getting services.</li> </ul>
KI-6	Stream Management Expert	Minimum Bachelor's degree in Mechanical / Electrical / Civil Engineering.	<ul style="list-style-type: none"> <li>Minimum 12 years general experience in the similar position</li> <li>Minimum 10 years specific experience in the similar field.</li> <li>At least 5 years' in the design, selection and installation of stream / electro-mechanical devices in particular T/Cs or similar types of works. Experience in HVAC, different service including sanitary &amp; water supply connections and well known to get approval for different utility connections for getting services.</li> </ul>

  
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 Prime Minister's Office  
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SN	Position	Qualification	Experience
	<b>Key Experts:</b>		
K-7	PPP Expert	Minimum Bachelor's degree in Economic or development study	<ul style="list-style-type: none"> <li>• Minimum 12 years general experience in the similar position</li> <li>• Minimum 10 years specific experience in the similar field.</li> </ul>
K-8	Environmental Safeguard Expert	Minimum Bachelor's degree in environmental science	<ul style="list-style-type: none"> <li>• Minimum 12 years general experience in the similar position</li> <li>• Minimum 10 years specific experience in the similar field.</li> <li>• At least 5 years professional experience in environmental / social study &amp; implementation of environment plan including preparation of EIA, EMP, reports etc. The Expert should be well conversant with laws relating to land acquisition, state procedures in implementation plans &amp; frame- work. The Experts should also be well known about national / the World Bank environmental and social safeguard policies.</li> </ul>
K-9	Social Safeguard Expert	Minimum Bachelor's degree in social science with 10 years of relevant experience	<ul style="list-style-type: none"> <li>• Minimum 12 years general experience in the similar position</li> <li>• Minimum 10 years specific experience in the similar field.</li> <li>• At least 5 years professional experience in environmental / social study &amp; implementation of environment plan including preparation of OHS and SIA reports etc. The Expert should be well conversant with laws relating to land acquisition, state procedures in implementation plans &amp; frame- work. The Experts should also be well known about national / the World Bank environmental and social safeguard policies</li> </ul>
	<b>Non-Key Experts:</b>		
NK-1	Design Engineer (CETP)	Minimum Bachelor's degree in Civil Engineering	<ul style="list-style-type: none"> <li>• Minimum 10 years general experience in the similar position</li> <li>• Minimum 5 years specific experience in the similar field design of CETP etc.</li> </ul>
NK-2	Design Engineer (Desalination Plant)	Minimum Bachelor's degree in Civil Engineering	<ul style="list-style-type: none"> <li>• Minimum 10 years general experience in the similar position</li> <li>• Minimum 5 years specific experience in the similar field for design of Desalination Plant etc.</li> </ul>
NK-3	Environment and Safety engineer	Minimum Bachelor's degree in Civil Engineering/Environmental Engineering, or any other relevant degree	<ul style="list-style-type: none"> <li>• Minimum 8 years general experience in the similar position</li> <li>• Minimum 5 years specific experience in Environmental, Social, Health and Safety (ESHS). Experience in World Bank's safeguard policies/instruments as well as implementation will be an added advantage.</li> </ul>



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 বাংলাদেশ সরকার  
 প্রধান মন্ত্রীর কার্যালয়  
 মন্ত্রণালয়

SN	Position	Qualification	Experience
	<b>Key Experts:</b>		
NK-4	Mechanical Engineer	Minimum Bachelor's degree in Mechanical Engineering	<ul style="list-style-type: none"> <li>• Minimum 8 years general experience in the similar position</li> <li>• Minimum 5 years specific experience in supervision and installation of mechanical / electro-mechanical devices in particular TCs or similar types of works. Experience in HVAC, different service including sanitary, water supply connections and different utility connections for getting services.</li> </ul>
NK-5	Quantity of Surveyor and Estimator (Civil, Electrical & Mechanical)- <sup>4</sup>	Minimum Diploma in Engineering in civil, electrical and mechanical and survey	<ul style="list-style-type: none"> <li>• Minimum 10 years general experience in the similar position</li> <li>• Minimum 5years specific experience in the similar field.</li> <li>• Well conversant in preparing cost estimates and its analysis based on standard and market value. Carry out all other tasks and activities as needed.</li> </ul>
NK-6	CAD Operator	Minimum Diploma in Civil Engineering /Architect	<ul style="list-style-type: none"> <li>• Minimum 10 years general experience in the similar position</li> <li>• Minimum 5 years specific experience in the similar field.</li> </ul>

\* Signed CVs of Key Experts should be attached.

#### 07. Supporting Staff

The consultant team may employ supporting staff for the supervision of the sub-projects and operation of the project office, if required. The supporting staff may include:

- 1) Inspector for quality control
- 2) Data collector
- 3) Administrator
- 4) Accountant
- 5) Typist

#### 08. Reporting

Within the scope of consulting services, the Consultant shall prepare and submit reports and documents to the Employer, as shown in Table. The Consultant shall provide hard and electronic copy of each of these reports.

Table: List of submission report

Type of Report	Total Quantity	Submission Time
Inception Report and Work Plan: The Inception Report (IR) will update the methodology and the program of work including	7 copies	30 days after the effectiveness of

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Type of Report	Total Quantity	Submission Time
deployment of personnel that will be included in the Consultant's proposal and used as a basis for agreed pricing, noting the changes and detailing any difficulties encountered, together with a proposal on how they may be overcome. The PIU will review and comment on IR and finally will be approved / acceptance by the Project Director. The Consultant's established Work-Plan may be revised from time to time, but acceptance by the Project Director must be requested each time.	7 copies	As per inception report
Technical & Financial Report for CLETP	7 copies	As per inception report
Technical & Financial Report for Desalination Plant	7 copies	As per inception report
Technical & Financial Report for Rauftop, ground-mounted and floating solar	7 copies	As per inception report
Technical & Financial Report for Sleam network	7 copies	As per inception report
Technical & Financial Report for Biogas plant, waste sorting and material recovery facility	7 copies	As per inception report
Monthly Progress Reports: The report will briefly describe activities for the month and comparison of progress of work with the projected work plan. The report will cover both the design and the construction supervision phase's activities. Accordingly, in both the cases, different stage wise activities progress report to be reported in applicable cases. The construction phase reports at least shall include (i) the performance of the contractors; (ii) highlight issues observed during construction; (iii) present solutions for observed issues.	7 copies	5th day of each calendar month
Quarterly Progress Report: which will summarize all project activities including progress of works, contracts variations and change orders, achievements and utilization of resources over the previous three months, implementation of the environment management framework, highlight key issues identified, and present the Consultants work plan for the coming three months.	15 copies	At the end of each quarter month from the date of commencement.
Implementation Completion Report (ICR) at the end of the assignment of contracts when the assignment reaches a substantial completion. This report must be submitted immediately after taking over of contracts and shall summarize the concepts and methods of design, construction, construction supervision performed and recommendations with lessons learnt for future projects of similar nature to be under taken by the employer.	15 copies	8 weeks before the date of termination

**09. Cost Estimation**

Particulars	Key Expert		Non-Key Expert		Total (in lakh Taka)
	MM	RDT (in lakh Taka)	MM	BDT (in lakh Taka)	
Remuneration Expenses	161	900	102	150	1050
Reimbursable Expenses					100
<b>Total</b>					<b>1150</b>



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গণপ্রজাতন্ত্রী বাংলাদেশ

**10. Procurement Method**

The consulting firm will be selected according to the quality- and cost-based selection (QCBS) method under international competing bidding (ICB) process described in IDA Guidelines on the Selection of Consultants, January 2011, Revised July (2014). A weighting system of 80% for quality and 20% for cost will be applied.

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## PMC 14: Master Plan for Sandwip & Companigonj

### Terms of Reference

#### 1. Objectives of the Assignment

Due to high demand of serviced land in the new economic corridor especially in BSMSN, the GoB has taken a plan for expansion in phases and merge Sandwip under Chattogram district and Companigonj under Noakhali district with recently revised BSMSN masterplan. The objective of this assignment is to: i) examine the existing BSMSN site, ii) document its existing conditions, iii) identify the site's opportunities and constraints, and iv) prepare a twenty-year master plan and development/management plan for the project and how to link with BSMSN masterplan in a comprehensive manner.

#### 2. Scope of Services

It is expected that the consulting firm will conduct the following tasks, as well as the detailed tasks and activities listed in later section:

- Review the policies and plans already prepared for the BSMSN and meet with relevant stakeholders,
- Prepare base maps and base lines for the Sandwip & Companigonj project in order to document the existing physical conditions and features of the land, community, infrastructure and utilities, land uses and moveable and non-moveable property etc.,
- Prepare/validate the development program for the Sandwip & Companigonj project and undertake a transport assessment,
- Prepare a Master Plan, Land Use Plan, Zoning Plan, Phasing Plan and Infrastructure/Utility Plans for the Sandwip & Companigonj project,
- Conduct a stakeholder workshop to share the master planning and infrastructure/utility planning for the Sandwip & Companigonj project and obtain feedback,
- Prepare a Development Management Plan for the Sandwip & Companigonj project,
- Prepare two investment promotion videos for the Sandwip & Companigonj and H2 projects highlighting the project's value proposition and master plan.

The proposals submitted for this TOR should illustrate a clear understanding of the project and tasks to be undertaken. In addition, the proposal should include: i) a methodology and approach for undertaking this project, ii) identify how the project will be managed, staffed and outline the separate responsibilities of each team member, and iii) how the team will relate and interact with BEZA officials.

#### 3. Study Area

The current BSMSN site is about 30,000 acres in size, but can be expanded by BEZA to approximately 50,000 acres, if required. There is one mouza in the Sandwip Upazilla of Chittagong District and another mouza in the Companigonj Upazilla of Noakhali District that covers as below:



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 মহাপরিচালক  
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District	Upazilla	Name of Mouza	Area in Acres
Chatogram	Sandwip	Sandwip	13,000
Noakhali	Companigonj	Char Sirajul Islam	4,836

#### 4. Detailed Services/Works

BEZA seeks the services of a consulting firm to prepare a comprehensive 20-year Master Plan and Development Plan with supporting Infrastructure/Utility Planning for the Sandwip & Companigonj project.

#### PART I : Due Diligence

##### Task 1 : Review background materials and meet relevant stakeholders

The consulting team is required to gather, review, and assess all the background material available for this project, including but not be limited to existing studies, reports, documents, regional and local plans, maps, statistics and relevant policies related to the development of the proposed Sandwip & Companigonj site in line with BSMSN final masterplan. Key documents are: i) the feasibility study for BSMSN, ii) the masterplan of BSMSN iii) the Upazilla Master Plans for Companigonj, Sandwip, Minsarai, Feni, and Sonagazi, iv) the Railway Master Plan by the Bangladesh Railway, v) the Highway Master Plan by Roads Transport and Highways Division (RHD), and vi) any plans prepared by other government agencies. The purpose of the review is to identify and evaluate the key issues, opportunities, constraints and threats for the new BSMSN project including Sandwip & Companigonj and highlight areas of additional work. Once the consulting team has completed their assessment, they will meet with BEZA to review their work, obtain feedback and get agreement/approval from BEZA on the way forward.

The team will then meet, on an individual basis, with relevant stakeholders (first to be agreed upon with BEZA) and discuss/validate their project assessment and the key issues. After meeting all relevant stakeholders, the consulting team must prepare an inception report that synthesizes their assessment of the project and stakeholder findings and provide BEZA with a report that includes the following: i) a detailed methodology on how the team is going to undertake this project, ii) an updated approach, project schedule, and staffing of the project, iii) a vision and value proposition for the Sandwip & Companigonj project, iv) an overview of the physical, economic, social, environmental, and programmatic etc. opportunities, constraints and burning issues for the Sandwip & Companigonj project, and v) identify how the strengths of the project will be highlighted in the master plan and land use plan and the weaknesses will be mitigated. This inception report is to be submitted to BEZA for their review and approval before Task 2 begins.

#### Task 1 Deliverables.

- An inception report as outlined in the above task.

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## **PART II: Mapping Existing Conditions**

### **Task 2: Existing conditions – Land boundaries and topography**

The team will meet with BEZA to discuss base map requirements. Once in agreement, the team will prepare a series of base maps of the existing physical conditions of the Sandwip & Companigoni site. This will include, but not be limited to, the preparation of the following maps: i) a map illustrating the existing boundaries of the government owned lands, ii) a map of lands that need to be acquired to make the Sandwip & Companigoni viable and sustainable in the long-term, iii) a map of the topography of the site with contour lines and elevations identified as well as any lakes, rivers, ponds, or water bodies etc., iv) a map that identifies the boundaries of kas lands, as well as the mouzas, unions, upazillas and district boundaries, and v) any other base maps (such as soil and/or vegetation maps etc.) that will be helpful in preparing and supporting the detailed master plan and land use plan for the site. The team will survey the lands and use GPS to ensure accuracy of these maps. All maps for this project must be kept in ArcGIS or ArcGIS compatible files, while engineering survey data should be kept in standard data format of digital theodolite. It is critically important that all maps prepared for this project are aligned and at the same scale so they can be overlaid, if required.

#### **Task 2 Deliverables.**

- A series of base maps in ArcGIS/Compatible files, as identified above, that will be necessary to prepare an accurate master plan, land use plan and undertake detailed infrastructure and utilities plans for the Sandwip & Companigoni project.

#### **Task 3: Existing conditions- Land use, moveable and non-moveable property and infrastructure and utilities**

The team will prepare three maps under this task: i) a land use plan showing the existing land use designations (IE. Different types of land uses such as residential, commercial, retail, institutional (health and educational facilities), tourism, open space, etc.) currently on this site, ii) a map denoting the existing location of moveable and non-moveable property, such as buildings, houses, commercial/retail facilities, and entertainment facilities etc. and iii) a map identifying all existing on and off-site infrastructure and utility (national highways, village/local roads, power, gas, water, sewerage, drainage, waste management facilities, telecommunications etc.) networks, railway corridors, lines, and stations, boat landings, bus stops, truck terminals, etc. The connection points of both on and off-site infrastructure and utilities should also be identified. A survey and GPS should be used to ensure accuracy of the information. The purpose of these maps is to ensure that the existing on and off-site conditions of the site and the area of influence are properly mapped in preparation for the master plan and land use plan exercise.

In an accompanying document, the team should assess/validate the quality, condition, and capacity of the existing on and off-site infrastructure and utilities and identify what would be



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**PART III: Preparation for the Master Planning and Land Use Planning of the Sandwip & Companigonj Project**

**Task 5: Review, validation or adjustment of the development program for the Sandwip & Companigonj**

The team will review and validate the existing development program for the Sandwip & Companigonj site. If necessary, the development program should be updated/adjusted to take into account the vision and value proposition proposed for the Sandwip & Companigonj project and the proposed population (work and residential) of the new project. A critical assessment of the proposed EZs should be undertaken to ensure the demand and proposed industry uses are still valid and appropriate, and if additional or supporting residential, commercial, retail, amenities, and open space etc. is required. The purpose of this task should, but not be limited to, identifying: i) the total population expected for the Sandwip & Companigonj project over a 20-yr period, ii) a breakdown of the predicted population, workforce, residential, commercial, retail and institutional requirements in 5-year increments, iii) a detailed overview of the types and number of industries proposed for the EZs broken down into 5-year increments, and iv) a detailed list of infrastructure and utilities requirements such as power, water, gas, and telecommunication etc. for this project. Any and all assumptions for the development program should be set out and explained.

This task should include inputs and modeling from the project economist. The new development program should be used as inputs into the transport assessment, the master plan, the land use plan and the infrastructure and utilities planning. The new development program should be reviewed by BI/ZA and their sign off is required before any further planning is undertaken.

**Task 5 Deliverables.**

- A revised/validated development program for the Sandwip & Companigonj project, which is to be part of the master planning and infrastructure report. All assumptions for the 20-year plan must be identified and explained/analyzed.

**Task 6: A transport assessment**

The team will undertake a transport assessment for the Sandwip & Companigonj site and area of influence. The revised development program in Task 5 will be the basis for this transport assessment. The team is expected to identify, estimate and analyze: i) the traffic and modal split for the Sandwip & Companigonj project and for the EZs within, ii) the traffic generated by nearby tourist attractions such as the Sandwip & others Island and determine their impacts on the off-site transport networks, iii) expected increased demand of traffic along the Dhaka-Chittagong Highway corridor, and iv) the traffic within the area of influence not covered by the above. Based on the analysis, the team will prepare a viable, sustainable, and comprehensive transport plan identifying all the multi-modal facilities required for the Sandwip & Companigonj project and area of influence. The plan should include, but not be



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limited to, not only a new transport plan, but necessary improvements/upgrades to existing transport networks, the sizing/widths and hierarchy of roads necessary to handle traffic volumes and truck/vehicle weights within the Sandwip & Companigonj project, and a transport management plan. Because the Dhaka-Chittagong Highway and railway tracks run around two kilometers east of the project area, it is also expected that there would be new roads connecting the project to the Dhaka-Chittagong highway as well as the road connectivity with BSMSN and Noakhali District. As part of Task 6, it will be the team's task to propose a new rail alignment for the Sandwip & Companigonj project. When considering the new alignment, the team must consider the following:

- To keep new land acquisition to a minimum, if possible
- To align the project in a parallel manner to the existing river/ streams so not to act as a barrier to the natural flow of water
- To allow easy access to the EZs, where possible

#### Task 6 Deliverables.

- A comprehensive transport assessment for the Sandwip & Companigonj site and area of influence taking into account the requirements listed above. This will be included in the master planning and infrastructure planning report.

#### PART IV: Master Planning and Infrastructure Planning

##### Task 7: Master planning

The team is to utilize all the studies, maps, statistics and Findings produced in Tasks 1-6 to prepare the Master Plan, Land Use Plan, Zoning Plan, and Phasing Plan for the Sandwip & Companigonj project. Specific attention must be given to the outcomes in Tasks 4-6, as they will identify the development program and transport networks to design while taking into consideration the existing social and environmental implications of the site.

The team will prepare a detailed master plan/land use for the Sandwip & Companigonj site, which will include but not be limited to: i) the street and block network throughout the site, ii) main connection points (highways and roads) with the neighboring areas/areas of influence, iii) a hierarchy of road, transport and logistics networks within/ and outside the Sandwip & Companigonj project, including the rail network as per the transport study, iv) land uses such as industrial, residential, retail, commercial, institutional, supporting amenities, open space etc., v) key administrative (for EZs) and institutional (schools, universities, hospitals, clinics or others etc.) facilities, vi) detailed plans for the EZ areas minimizing any adjacency issues, and vii) design of the lakes and/or reservoirs. This master plan/land use plan should be planned in an eco-friendly manner, paying attention to climate and weather changes throughout the year.

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A detailed zoning plan is also required for the Sandwip & Companigonj project. This plan will set out the Sandwip & Companigonj project's: i) densities, ii) height limits, iii) setbacks (side yard, rear yard, and property line), and iv) open space requirements. Once the master plan/land use plan, and zoning plans are completed, the site should be phased according to the demand, which was identified in Task 5. It is critically important that the phasing of the project matches this demand.

Lastly, urban design guidelines are required for the entire Sandwip & Companigonj project. These guidelines will be a development manual for the design of the site, providing minimum urban design standards. BEZA will give these guidelines to new developers of the Sandwip & Companigonj project. The urban design guidelines will include, but not be limited to: i) access to plots, ii) building facades, iii) servicing and loading, iv) parking, v) landscaping, vi) signage, vii) lighting, viii) street furniture, ix) road and sidewalks, and x) views to water. The consulting team will discuss the full list of urban design guidelines with BEZA to obtain their approval before developing the urban design guidelines.

Once Task 7 has been completed, it will be presented to BEZA for their review and approvals before the consulting team moves on to the infrastructure planning of this project.

#### Task 7 Deliverables.

A master planning and infrastructure/utilities report that takes into account findings from Tasks 1-6 and includes, with a write up, the following:

- A master plan/land use plan for the Sandwip & Companigonj project.
- A zoning plan for the project that identifies permitted densities, height limits, and setbacks.
- A phasing plan for the site in accordance with proposed market demand over a 20-year period.
- Urban design guidelines for the Sandwip & Companigonj project.

#### Task 8: On and off-site infrastructure

The team will prepare a set of infrastructure and utility line drawings (not construction drawings) to match the master plan/land use plan, zoning plan and phasing plan and proposed activities within the Sandwip & Companigonj project as set out in Task 5. The team will meet with local infrastructure and utility agencies/providers to confirm/guarantee utilities to support the Sandwip & Companigonj project. The infrastructure and utilities required for this project include, but are not limited to: i) all onsite earthworks (the raising of land, shorting up the water's edge, flooding/drainage mitigation techniques/plans etc) in plan format, as well as, ii) plans for all roads, power, gas, water, drainage, sewerage, storm water, coastal flooding (for a 100 year surge), waste water/effluent treatment, fire, lighting, fencing, and telecom networks etc. The on-site infrastructure drawings must be undertaken at a consistent scale and to be pre-approved by BEZA. All on-site infrastructure and utilities should be designed to utilize green technology, minimize waste, and promote water/power saving measures, and



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utilize recycling mechanisms, where possible. Off-site infrastructure improvement/upgrade plans are required to support this project. The team is tasked to also provide a detailed outline of the necessary off-site infrastructure projects/requirements, costs and timing of these infrastructure projects, in order to not delay the Sandwip & Companigonj project.

In addition, a waste management plan for both solids and liquids must be prepared for the Sandwip & Companigonj project. Special attention should be paid to the EZ components of the project as there may be hazardous waste generated by potential industry sectors, which must be safely disposed of. The purpose of the waste management plan is to guide BEZA in reducing and disposing of waste for the entire project, and the EZs within to create the healthiest environment for the community.

The infrastructure and utility drawings must be costed to determine the total cost of development of the Sandwip & Companigonj project. The cost estimates must be within 15% accuracy and should include a 10% contingency. Cost estimates should include land, resettlement, site preparation, and on-site and off-site infrastructure. Project costs should be identified as a total cost but also broken down into phase costs, so BEZA can understand the cost of the project per phase.

The findings of Tasks 7 and 8 are to be presented in a report and engineering drawing format. The draft report, entitled Master Planning and Infrastructure/Utility Planning for the Sandwip & Companigonj Project will be given to BEZA for their initial review.

#### **Task 8 Deliverables:**

- A chapter in the master planning and infrastructure/utilities report that includes a write up and the following:
- On-site infrastructure and utility plans and cost estimates for the Sandwip & Companigonj project, as outlined above.
- Off-site infrastructure and utility plans, costs, timeframes for the Sandwip & Companigonj project, as outlined above.
- A waste management plan for the Sandwip & Companigonj project as outlined above.
- Total project costs/phased project cost calculations for the Sandwip & Companigonj project as outlined above.
- A set of large-scale infrastructure and utility plans for presentations/discussions.

#### **Task 9: Consultation with relevant stakeholders**

Once the draft master planning and infrastructure planning report has been submitted to BEZA, the team will hold a workshop to present their results to BEZA and relevant stakeholders (public, private and civil society). The purpose of this workshop is to explain the project to a wider audience and to obtain critical inputs to complete the work. The team is expected to organize the workshop and incorporate stakeholder's comments into their final report. The team must also hold a series of public meetings with the

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greater community at the union and upazilla levels, to understand the public/civil societies concerns.

**Task 9 Deliverables.**

- Undertake a series of workshops with BEZA, relevant stakeholders, and at the union and upazilla levels.
- Finalize the draft report and include inputs from the workshop and meetings.

**Part V: Management Strategy and Promotion**

**Task 10: Prepare a development management plan**

As the Sandwip & Companigonj project area covers land from two different districts, it may not be possible to manage and control the development of the Sandwip & Companigonj project with the existing regulatory system of the country. Hence, the team is tasked to identify the best mechanisms/strategy to develop and manage the Sandwip & Companigonj project and EZs, under the existing institutional constraints. The team will discuss the institutional development plan with BEZA and relevant stakeholders. After a thorough discussion, the team will create a new Development/Management Plan for review and approval with BEZA. The Development/Management Plan shall be presented to BEZA in a report format.

**Task 10 Deliverables.**

- A stand-alone Development/Management Plan that supports the final report. This management plan is to be presented to BEZA in a report format.

**Task 11: Prepare a digital video animation for the proposed Sandwip & Companigonj project**

BEZA would like to promote the Sandwip & Companigonj and EZ project to national and international investors. As such, the team is required to prepare two, high quality, professional, investment promotion videos (of different lengths) for Sandwip & Companigonj and the EZs using computer animation of the site at completion. The videos should highlight the value proposition and salient features of the Sandwip & Companigonj plan and its EZ investment opportunities. The video should be multi-lingual and the resolution should be at least 3K, with an aspect ratio of 16:9, 30 FPS interlaced, or as agreed upon with BEZA during negotiations. The length of the videos should be 5-10 minutes and 15-20 minutes respectively or as agreed upon with BEZA during negotiations. The longer video must provide site condition in different time of the day and different seasons of the year as well as depth of field of major facilities. The video must include, but not be limited to: animation, music, voiceovers, and subtitles. BEZA must review the videos in both draft and final form.



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#### Task 11 Deliverables.

- Two high quality investment promotion videos for the Sandwip & Companigonj /EZ project as per above.

#### 05. Technology and Tools to be used

All engineering and survey work must be done on mouza maps by using advanced RTK-GPS, DGPS and total station. GPS should be used for the establishment of permanent Ground Control Point (GCP) in each of the sixteen mouzas. It is desirable that each mouza sheet has at least four GCPs. The engineering and other physical survey data should be stored in ArcInfo. The social/socio-economic survey data should be stored in spreadsheets or statistical software and should be geo-tagged. Similarly the transport survey data should also be stored in database software, which could be easily integrated to ArcGIS database. The two videos should be prepared in a compatible format to 3D studio max.

#### 06. Required Qualifications and Experiences

BEZA is looking to hire a single international or local engineering, architecture and planning firm or a joint-venture team who has significant master planning, city planning and infrastructure engineering experience as detailed below. All key experts should hold, at minimum, a Bachelor degree from an accredited university and have, at minimum, 15 years of work experience. The firm should specify if the proposed experts are in-house staff or free-lance consultants.

The proposed team should include a set of Key Experts, as listed below. If the firm's believe additional experts are required, they can be part of the team and must have the same background and expertise requirements as the key staff.

The curriculum vitae for the Key Experts and any additional staff should contain information of the assignments they have successfully completed within the last five years, with complete names and addresses of the clients and the name and contact information of their immediate supervisors. The procuring entity may contact these clients of the first ranked firm for verification of the information provided by the consultant, prior to signing the contract.

The key team members should be as follows:

- Team Leader** - Should have a minimum of a Master Degree in Physical Planning, Urban and Regional Planning or similar, with at least 20 years of general experience including 12 years' experience in urban/ city planning. Past experience in planning economic zones, export processing zones, industrial parks, or city planning will be given preference.
- Transport Planner** -- Should have a minimum of a Master Degree in Transport planning/ engineering with a bachelor degree Urban and Regional Planning or Civil Engineering with at least 15 years of general experience, including 8 years' experience in transport planning/ engineering/ transport assessment and management. Past experience in transport planning for economic zones, export processing zones, industrial parks, or city planning will be

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given preference.

iii) **Urban Planner** - Should have a minimum of a Master Degree in Physical Planning, Urban and/or Regional Planning or similar with at least 15 years of general experience including 8 years' experience in urban/ city planning, economic zone or export processing zone planning, etc. Past experience in planning economic zones, export processing zones, industrial parks, or city planning will be given preference.

iv) **Infrastructure Experts**- (A team of engineers is required for this project that includes at a minimum, a civil, mechanical, and structural engineer and quantity surveyor to provide roads, power, water, gas, sewerage, drainage, waste water/effluent, buildings, site preparation etc.) All engineers should have a minimum of a Bachelor Degree in Civil, Mechanical or Structural engineering with at least 15 years of general experience including 8 years' experience in assessing and planning core infrastructure and utilities. CAD operators must be part of this team.

v) **Social and Environmental Expert** - Should have minimum a Bachelor Degree, in Environmental and Social Planning /Management/ Environmental Science or similar with at least 15 years of general experience including 8 years' experience in urban/industrial/city planning, economic zones or export processing zone planning, etc. The expert must be knowledgeable on the World Bank (WB) Environmental and Social safeguards and standards.

vi) **Economist** - Should have a minimum of a Bachelor Degree in Economics with at least 15 years of general experience, including 8 years' experience in regional economic analysis and modeling etc. Experience in working on master planning and economic zone projects would be given preference.

vii) **Video-grapher**- Should have a film degree or similar, with at least 10 years' experience and is able to create high quality, sophisticated, professional investment promotion videos. Experience in preparing similar videos and content will be prioritized.

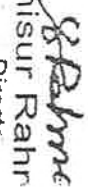
Table: Summary of Minimum Requirements for the Team

SN	Position	No	MM	Total
	<b>Key Expert</b>			
1	Team Leader	1	12	12
2	Transport Planner	1	5	5
3	Urban Planner	1	8	8
4	Infrastructure Experts/ Engineers	4	3	12
5	Environmental Expert	1	4	4
6	Economist	1	3	3
7	Social Expert	1	4	4
8	Video-grapher	1	4	4
	<b>Sub-Total (KE)</b>	<b>11</b>		<b>52</b>
	<b>Non-Key Expert</b>			
1	Municipal planning Specialist	1	12	12
2	Jr. Utilities expert	2	6	12
3	Jr. Environmental Specialist	1	12	12
4	Jr. Social Specialist	1	12	12
5	Jr. Housing/real estate expert	1	5	5
	<b>Sub-Total (NKE)</b>	<b>6</b>		<b>53</b>

Firm may proposed non-key expert as per requirement

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#### 07. Final Maps

All the maps should be prepared at mura level preferably at 1:1980 scales, with administrative boundaries from the union to district level, clearly demarcating the coastline. The team is to recommend additional map types and sizes as they see fit, in their proposal.

#### 08. Selection Method and Criteria

The Criteria for Selecting Firms will be:

- Firm history
- Company experience on Economic Zone Development
- Company experience on Master Planning
- Company experience of undertaking large scale, complex urban projects
- Work experience in Bangladesh, South Asia, Middle East and South/East Central Asian countries
- Quality and experience of team leader and key experts

All firms are required to submit full technical and financial proposals, which will be evaluated according to the quality- and cost-based selection (OCBS) method described in IDA Guidelines on the Selection of Consultants, January 2011, Revised July (2014). A weighting system of 80% for quality and 20% for cost will be applied.

#### 09. Reporting Requirements

The winning firm will report project progress to the Project Director through monthly progress reports. The monthly progress reports should include: i) project implementation status, ii) identification of major issues, and iii) proposed corrective actions. The team will prepare the following reports in English and submit in the number of copies as per direction of Project Director. All reports submitted must have signatures of the author, checker and approver, with seals of the consulting firm. Each report will be accompanied by an electronic version (i.e. soft copy). Electronic copies should be transferable to other devices.

Table: Timelines for Deliverables

No.	Activity	Terms
1	Submission of Part I: Inception Report	Due 3 weeks after project commencement (10 copies and soft copy required)
2	Submission of Monthly Progress Reports- (Covering monthly progress since last submission)	Every calendar month. (10 copies and soft copy required)
3	Submission of Part I-E Draft Report and Maps	Due 14 weeks after project commencement. (10 copies of the report and maps and soft copy). Final report is due 4 weeks after the draft deliverable is submitted.
4	Submission of Part II: Draft Report	Due 22 weeks after project commencement. (10 copies and soft copy). Final report is due 4 weeks after the draft deliverable is submitted.

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5	Submission of Part IV: Draft Report and Plans	Due 10 months into the project (10 copies and soft copy). Final report is due 4 weeks after the draft deliverable is submitted.
6	Workshop on Draft Report and Plans	Scheduled the first week after Draft Report and Plans are submitted.
7	Submission of Part V: Draft Development Management Report and Plan and Video	Video is due 11 months after the project start up. Draft report is due 11 months after project start up. Final report and video is due last week of the project.

### 10. Facilities and Equipment

#### To be provided by the Client

BEZA will provide the consulting firm with available materials and data relating to the project such as maps, plans, geotechnical, resettlement, environmental and design reports and documents.

#### To be provided by the Consultant

The consulting firm should have at least the following facilities (but not limited to) during the project period:

- Suitable office space with consumables and communication;
- Suitable equipment for all staff to work;
- Vehicles, office equipment including telephones, computers and printers, etc.;
- Required support personnel.
- No separate/additional payment is required from BEZA for the consulting firm's facilities.

### 11. Tentative Duration of the Assignment

The tentative milestones and duration for the project are the following:

- Tentative date of commencement of assignment is **May 2021**; and
- Duration of the assignment will be **Twelve (23) months**.

### 12. Cost Estimation

Particulars	Key Expert		Non-Key Expert		Total (in lakh Taka)
	MM	BDT (in lakh Taka)	MM	BDT (in lakh Taka)	
Remuneration Expenses	52	380	53	150	530
Reimbursable Expenses					481
Total					1011

### 13. Procurement Method

The consulting firm will be selected according to the quality- and cost-based selection (QCBS) method under international competing bidding (ICB) process described in IDA Guidelines on the Selection of Consultants, January 2011, Revised July (2014). A weighting system of 80% for quality and 20% for cost will be applied.



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**PMC 15: Design and Supervision Consultants for Infrastructure Related works (TAS Firm)**  
**Terms of Reference**

**1.0 Objective of the Consultancy Services:**

The primary objective of the assignment is to provide but not limited to the following services commencing from design stage to final handover of the works Stated in Section below for BSMSN:

- Surveys required for detailed Engineering Designs and Drawings;
- Detailed Engineering Designs& Drawings (architectural and structural for civil, electrical and electro-mechanical works);
- Technical Specifications,
- Preparation of Bidding Documents in its entirety,
- Detailed Cost Estimates,
- Bill of Quantities
- Technical Note according to basic infrastructure/works;
- Construction Supervision, Contract Management and relevant services

**2.0 Scope of Service**

The consultant will provide their services in the top supervision and provide valuable advice of Component 2 as stated below:

Items	Description	Quantity
Road Network	All Weather resilient arterial and non-arterial roads, footpath and plot entry culvert to increase readiness and resilience to natural hazard events (access and evacuation roads during natural disasters and extreme climate events).	30 km
Storm Water Network	An integrated storm water management network for BSMSN-2 including resilient drains, infiltration and retention facilities including nature-based solutions to drain the increased surface run-off from extreme precipitation and flooding.	31 km
Power Network	Green and resilient Internal Power Distribution (OHT) Distribution, Transformer, Street Light (LED / Solar), and Internal Substation.	39 Km
Water Supply Network	Water treatment plant with a maximum capacity of 75 MLD to be developed in modules with potential expansions up to 120 MLD, including green and resilient supply and storage of industrial and potable water considering climate vulnerability and extreme weather conditions (together with the Desalination proposed under 2.2) for BSMSN-2.	120,000 m <sup>3</sup> /day
Sewer Network	Green and climate resilient sewer network to enhance resilience against heavy rainfall and flooding.	25 km
Gas pipeline connection	Connection of the zone with gas pipeline.	28 km
Resilient Site Upgrade and Building Development	Additional green and gray infrastructure and site development measures for BSMSN-2 to enhance resilience against flooding from the increase surface run-off from extreme precipitation and liquefaction resilience performance of flood prevention measures (super dike, embankments, site development) through green and gray investments (open Space/ Land scaping, Greenery along road, Percolation Pits, etc.), infrastructure maintenance, environmental lab and monitoring system, canal development and lining.	n/a
Security and	Security/boundary wall, key public buildings and facilities for BSMSN-2 such	n/a



Support Amenities	as fire stations, administrative buildings, and emergency response center, security digital surveillance including gender-sensitive infrastructure such as separate washrooms for women and men and proper lighting.	
Telecom Network	Connection of the zone with resilient telecommunication systems	25 km
Land development	10,000,000 m <sup>3</sup> for 500 acres	100 lac m <sup>3</sup>

N: B: The task may change and based on the change the TAS firm will be responsible to implement their responsibility.

Moreover, the consultant will provide their services in the top supervision and provide valuable advice to the Borrower of the infrastructure related works executed under Public Private Partnership stated below:

- Common Effluent Treatment Plant
- Desalination plant:
- Rooftop, ground-mounted and floating solar:
- Steam network:
- Biogas plant, waste sorting and material recovery facility:
- Landfill towards SWMF:

The services required to be performed by the Consultant are set out below:

Assignment A - Design Stage

Assignment B – Construction Supervision and Contract Management Stage

### 2.1 Assignment A: Design Stage

The services of the D&S Consultant shall include, but are not limited to the following in the preparation of the bidding documents:

1. Preparation of fully coordinated bidding and procurement documentation for all Bid Packages including:
    - Invitation to Bid
    - Conditions of contract
    - Functional and technical specifications
    - Drawings, schedules, etc.
  2. The bidding documents reviewed and vetted by the PMU, and finalize bidding documents incorporating PMU's comments
- Assistance to the PMU during the bidding process including:
- Prepare the answers of queries from the Bidders for review by the PMU
  - Attending meetings as required
  - Coordination and assistance to bidders site visits.



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#### 4. Prepare final contract documents for signature.

The services includes-

Task 1: Review of Technical Documents

Task 2: Preparation of Detailed Engineering Designs, Drawings, Technical Specifications, Bill of Quantities (BOQ), Cost Estimates and Bidding Documents for the physical components

Task 3: The services to be provided by the consultant for Resilient Site upgrade and Building Development and Security and Support Amenities in a comprehensive manner that includes:

Stage 1: Reconnaissance of the Selected Land, Soil Testing, Design & Estimates of Boundary Wall, Prepare IEB Report / Checklist (if necessary) and TOR for ESIA and ESIA Report etc.

Stage 2: Site Evaluation and Design Concepts

Stage 3: Master Plan Preparation

Stage 4: Preparation of Detailed Drawings, Technical Specifications, Bill of Quantities (BOQ), Cost Estimates and Bidding Documents.

#### 2.2 Assignment B: Construction Supervision and Contract Management Stage

Task 1: The Consultant shall provide comprehensive construction and contract management services during construction in order to ensure that the works implemented, and goods provided are in accordance with the designs, specifications and terms and conditions of the relevant contracts and standards. The services includes-

- Review and approve the contractors work program and progress schedules ensuring that the Contractors' have incorporated / followed the most effective and expeditious methodology for carrying out the works and submit to PMU for approval.
- Supervision and monitoring of works based on the work program submitted by the contractors. Supervise all construction works during implementation as per contract agreement through establishing procedures for systematic on-site checking and monitoring of quality and quantities of all work items, including field checks to confirm integrity of survey data, application of improved and modern methods for construction of Infrastructure related works.
- Work closely with field engineering staff in order to ensure quality and timely completion of the works.
- For the civil works, goods, and equipment supply and installation contracts, the consultant would be responsible for inspection and supervision of the construction works, installation of equipment and testing of construction material, in order to ensure that the works implemented, and goods supplied are in accordance with the designs, specifications and terms and conditions of the relevant contracts and standards.
- Provide strong on-site project supervision team of key and non-key experts, with an onsite project office, report daily progress of the works and monitor deliverables strictly against the agreed work plan submitted by the contractor.
- Verify the test results to ensure the quality of works and goods conducted by the contractors as stated in the bidding documents.
- Ensure that the tests and frequency of tests stated and compliance of the test results are being done by the contractors as outlined in the bidding documents.
- Inspect borrow pits, and crushing plants, and order tests of materials and ensure adherence to specifications and approve the sources of materials
- Contract administration and management
- All contract and construction documentation, administration and record keeping.
- Supervision of construction activities.

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স্বাক্ষরিত (১০২ স্বাক্ষর ও সীলন)

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- Ensure that the contractors are maintaining site order books and recording their activities as per the work program.
- Ensure complete presence of their staff during all casting executed by the contractors.
- Make arrangement to check the quality of the materials brought to site, ensure quality of construction consistent with the specifications.
- Ensure implementation of Quality Assurance Check List for all category of works in order to establish a systematic construction procedure
- The measurement book (MB) to be signed by the Consultant
- In the event of contractual dispute which may result in legal action, adjudication or arbitration between the contractor and the employer, and on the instruction, will assist client in collating and preparing factual documentation which describes the circumstances of the dispute.
- Liaise with the Environmental and Social Specialists of the Bank/ Project Management Unit and provide data, information and all other requested assistance to them.
- Monitor the implementation of ESM conditions of IDI; environmental clearance and provisions of various safeguard documents of PSDSP, including that of FME.
- Work closely with BEZA's Social Safeguard Specialist to ensure compliance with stipulations adopted in the Resettlement and Social Management Framework (RSMF), which inter alia may include preparation of Resettlement Plans (RPs);
- Work with the subsequent guidelines adopted on Gender and Citizen Engagement issues, GRM that has been extended to include the laborers engaged by the Contractors.
- Monitor implementation of site specific Environmental and Social Management Plans and compliance with Social and Environmental safeguards as per World Bank guidelines
- Ensure compliance of safeguard instruments for all contract packages.
- Ensure implementation of safeguard compliances stated in BOQs of the bidding documents.
- Ensure withholding of interim payments to the contractors if they failed to implement the items for safeguard compliance of BOQ items for all Contract Packages.
- Assist BEZA on resolving technical issues that may arise during implementation of infrastructural works.
- Variations and claims management. Prepare Variation Orders considering contract agreement and recommend for approval, if required. In this case, proper attention should have to be paid during design and preparation of BOQ so that the numbers of Variations could be kept minimum.
- Ensure the provision of warranties, guarantees and insurance management.
- Assist client concerning the Schedule of handing over the sites, and possible delays due to lack of possession with a view to assuring that the Contractors are given possession of the Site in accordance with the agreed work program.
- Jointly inspect with client the completed civil works and assist informal taking over, and review and approve or prepare "as built" drawings and plans (as the case may be), and provide reports testifying satisfactory completion of the contracts.
- Prepare 'as built drawings' after completion of works.
- Organize periodical coordination/ management meetings with contractors and BEZA;
- Presence of Team Leader in all monthly progress review meetings.
- Assurance for proper demobilization and restoration of the construction sites after completion, O&M during warranty period by the contractors
- Preparation of monthly and Quarterly progress reports
- Prepare Project Completion Report and handover the Project Director and its operation and management team so that they are familiar with the uses and operation of the facilities and to allow for effective operations of the facilities.
- Any other relevant assignment to be given by the authority

## Task 2: MIS Reporting

- Develop an integrated construction schedule on MS Project (or similar widely accepted tool) with two-week milestone plans for activities covering all trades and monitor compliance. The plan must clearly articulate the critical path (CPM);
- The D&S Consultant shall bring to prompt attention any activity which is slipping from critical path (CPM or baseline);
- The D&S Consultant shall conduct fortnightly reviews and reworking of schedules where necessary to



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- The D&S Consultant shall submit a monthly report on the progress made and hold apart from regular meetings with the Contractors where it shall brief the progress of the construction works; and
- The D&S Consultant shall use on-line secure report mechanism for each construction works to report progress, status update so that all stakeholders including the Government, the World Bank and other stakeholders can view it.

### Task 3: Certification of Bills

- Checking and certifying of bills submitted by the Contractor in accordance with the contract;
- Review and certify measurement as per applicable standards and the contract;
- Deduct / hold appropriate amount from the bills in case of any non-compliance observed with respect to quality and safety, till such non-compliance is addressed by the Contractor (s);
- Review and approve rate analysis in consultation with PTU for any extra / non-scheduled items executed by the Contractor (s);
- Review and comment any claims made by the Contractor (s);
- Assessment of cost over-runs / savings with every bill;
- Preparation of deviation statements (financial) at predetermined stages;
- Manage change orders;
- Review and certify final bills of the Contractor (s) to facilitate payment; and
- Maintain accurate records of all date and quantities of work carried out. In addition, maintain all payments made to the Contractor(s), and all materials and equipment supplied to the site.

### Task 4: Completion Certification and Handing Over

- Visit the works completed as announced by the Contractor, generate list of snags and issue the same to the Contractor for action;
- Monitor performance during defects liability period and enforcing rectification of defects;
- Document relevant material, work test reports, measurements, commissioning reports pertaining to each section of the work;
- Check for signage, markers for cables, trench covers, proper functioning of various systems;
- Review as built drawings submitted by the Contractor (s);
- Review the status of relevant statutory approvals;
- Certify the virtual completion and the final completion of works as applicable;
- Testing, commissioning and handing over the facility;
- Detailed inspection at completion of work and during defect liability period, Co-ordination with the contractors to rectify the defects during the defects liability period which shall be one year after the handing over of the site; and
- Recommending release / forfeiture of securities / guarantees.

Task 5: The consultant will provide their services in the top supervision and provide valuable advice to the Borrower of the infrastructure related works executed under Public Private Partnership stated earlier.

Task 6: The services to be provided by the consultant also include:

- Stage 1: Environmental and Social Reporting
- Stage 2: Support Management of Contracts
- Stage 3: Statutory Approvals and Certificates

### 3.0 Reporting Requirements

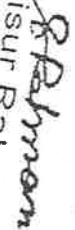
**3.1 ESHS reporting Requirement:** The Consultant shall follow and provide the following Environment, Social, Health and Safety (ESHS) information and report:

- (a) The consultant shall regularly supervise the compliance of EMP implementation and submit monthly report to BEZA.



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 Director  
 Prime Minister's Office  
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- (b) The Consultant shall provide immediate notification to the Client should any incident in the following categories occur while carrying out the Services. Full details of such incidents shall be provided to the Client within the timeframe agreed with the Client.
- (f) confirmed or likely violation of any provision of EMP, EMF, DOE Clearance conditions, law or international agreement;
- (ii) any fatality or serious injury;
- (iii) significant adverse effects or damage to private property (e.g. vehicle accident); or
- (iv) any allegation of gender-based violence (GBV), sexual exploitation or abuse (SEA), sexual harassment or sexual misbehavior, rape, sexual assault, child abuse or defilement, or other violations involving children,
- (c) Ensure that contractor immediate notifications on ESHS aspects are shared with the Client immediately;
- (d) Immediately inform and share with the Client any immediate notification related to ESHS incidents provided to the Consultant by the Contractor, and as required of the Contractor as part of the Progress Reporting;
- (e) Share with the Client in a timely manner the Contractor's ESHS metrics, as required of the Contractor as part of the Progress Reports.

**3.2 Construction and Supervision Reporting:** The Consultant will report implementation progress of the Project to the Project Director through quarterly and monthly progress reports as stated below:

Type of Report	Total Quantity	Submission Time
<b>Inception Report and Work Plan:</b> The Inception Report (IR) will update the methodology and the program of work including deployment of personnel that will be included in the Consultant's proposal and used as a basis for agreed pricing, noting the changes and detailing any difficulties encountered, together with a proposal on how they may be overcome. The PIU will review and comment on IR and finally will be approved / acceptance by the Project Director. The Consultant's established Work-Plan may be revised from time to time, but acceptance by the Project Director must be requested each time.	7 copies	30 days after the effectiveness of contract
<b>Monthly Progress Reports:</b> The report will briefly describe activities for the month and comparison of progress of work with the projected work plan. The report will cover both the design and the construction supervision phase's activities. Accordingly, in both the cases, different stage wise activities progress report to be reported in applicable cases. The construction phase reports at least shall include (i) the performance of the contractors; (ii) highlight issues observed during construction; (iii) present solutions for observed issues.	7 copies	5th day of each calendar month
<b>Quarterly Progress Report:</b> which will summarize all project activities including progress of works, contracts variations and change orders, achievements and utilization of resources over the previous three months, implementation of the environment management framework, highlight key issues identified, and present the Consultants work plan for the coming three months.	15 copies	At the end of each quarter month from the date of commencement
<b>Implementation Completion Report (ICR)</b> at the end of the assignment of contracts when the assignment reaches a substantial completion. This report must be submitted immediately after taking over of contracts and shall summarize the concepts and methods of design, construction, construction supervision performed and recommendations with lessons learnt for future projects of similar nature to be under taken by the employer.	15 copies	8 weeks before the date of termination



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 অফিস সহকারী (প্রোগ্রামিং)  
 প্রাইম মিনিস্টার'স অফিস

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 Director  
 Anisul Rahman

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 Govt. of the People's Republic of Bangladesh

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#### 4.0 Required Experiences of the Key Team Composition

4.1 The consultant having experience and have strong capabilities and proven record in designing and carrying out of establishing of similar type of assignment in national / international level are necessary. The Consultant must also have demonstrated expertise in the supervision of similar type's structures. The firm shall provide a team consisting of experts with adequate background and experience in designing (preferably having international experience) and construction supervision. The expected team would include a set of key experts comprising a Team Leader, Architects, Civil Structural Design Engineers for buildings, roads, bridges, culverts, etc., Construction Supervision Engineers, Electrical Expert, Utility Service Expert and Environmental and Social Safeguard Expert. The consultant is free to propose a staffing plan and skill mix necessary to meet the objectives and scope of the services. If not all the required skills are available within the consulting firms, they are encouraged to make joint ventures with other equivalent firms. The curriculum vitae of the key experts should contain information of the assignments they have successfully completed within last 5 years, with complete names and addresses of the clients and the name and contact information of the immediate supervisors. The procuring entity may contact any of these clients of the first ranked firm, for verification of the information provided by the firm, prior to signing the contract. Following is the indicative key experts' team structure required from the D&S Consultant in order to deliver the assignment. The Consultant can propose some of their key experts as intermittent positions and some of may be in full time positions.

4.2 The following table is for guidance only participants are expected to present their own version of key team structure and composition:

Table: Key Experts Indicative Time Input Expressed in Person-Month

Sl. No.	Position	No. of Position	Person-Month	Total Person Month
1	Team Leader	1	50	50
2	Deputy Team Leader	1	50	50
3	Senior Architect	1	25	25
4	Design Engineer-1: Building	1	25	25
5	Design Engineer-2: Road	1	25	25
6	Design Engineer-3: bridge, culvert,;	1	25	25
7	Design Engineer-4: Drainage design Expert	1	25	25
8	Construction Supervision Engineer: Field Residence	3	50	150
9	Chemical Engineer Field Residence	1	30	30
10	Mechanical/Electrical Engineer: Field Residence	2	30	60
11	Environment and Safety Engineer: Field Residence	1	30	30
12	Environmental Specialist	1	30	30
	<b>Total:</b>			<b>515</b>

Note: This estimate is indicative, and the Proposal shall be based on the Consultant's own estimates for the same

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Table: Non-Key Experts Indicative Time Input Expressed in Person-Month

Sl. No.	Position	No. of Position	Person-Month	Total Person Month
1	Design Engineer-5: embankment	1	25	25
2	Design Engineer-6: Water Supply design Expert	1	25	25
3	Electrical Design Expert	1	25	25
4	Mechanical design engineer	1	25	25
5	Chemical Engineer (design)	1	25	25
6	Social Specialist	1	25	25
7	Senior Planner	1	25	25
8	Investment Analyst	1	25	25
9	Office Engineer	4	50	200
10	Contract Management Support	2	40	80
11	Procurement Support	2	50	100
12	Jr. Design Engineer (Building/roads/bridges, culverts/embankment/water supply/drainage)	6	30	180
13	Civil Site Engineers/Supervisors	6	40	240
14	Electrical Site Engineers/Supervisors	1	40	40
15	Mechanical Site Engineers/Supervisors	1	40	40
16	Chemical Site Engineers/Supervisors	1	30	30
17	Jr. Water Supply and Drainage Expert	1	50	50
18	Jr. Environment and Safety engineer	1	25	25
19	Jr. Mechanical/Electrical Engineer-Design	1	40	40
20	Material cum Quality Control Engineer, Field Residence.	4	50	200
21	Architect	1	40	40
22	Accounts Support	2	50	100
23	Office Manager	1	50	50
24	IT Support	2	50	100
25	Jr. Planner	2	40	80
26	Telecommunication Consultant	1	50	50
	<b>Total:</b>			<b>1805</b>

N. B.: The inputs of these non-key staff should be modified during the selection process.

The Consultant may also add the following field/support staff:

Sl. No.	Position	No. of Position	Person-Month	Total Person Month
1	Surveyor	3	50	150
2	Estimator	3	50	150
3	CAD Operator	7	50	350
4	Laboratory Technician	4	50	200
5	Jr. Office Manager	1	50	50
6	Computer Operator	4	50	200
7	Office Assistant	4	50	200
	<b>Total:</b>			<b>1300</b>



*D.M.A.*  
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 জলসিঞ্চন  
 অধিদপ্তর (সে. সিস্টেম ও সিস্টেম)

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5.0 Details Qualifications of Key and Non-Key Experts

SIL No.	Expert position	Educational qualification & experiences	Type of Engagement
1	Team Leader	Minimum Bachelor's degree in Civil Engineering from reputed institute. Any relevant / project management professional qualification will be an added advantage. Having at least total 20 years of relevant experience. Of which at least 10 years' experience in project management, coordination on design & drawings, contract management, quality control, monitoring, reporting & top supervision of similar type of projects. Should have experience as Team leader at least 3 similar type of projects. Experience in Donor funded project as Team Leader will be preferable.	(Full time)
2	Deputy Team Leader	Minimum Bachelor's degree in Civil Engineering from reputed institute. Minimum 10 (Ten) years' experience in Civil Engineering Profession. Should have experience of monitoring Civil Works. Previous experience of implementing similar project especially foreign or World Bank funded, is preferred. Prior experience in procurement and contract management are required.	(Full time)
3	Senior Architect	Minimum Bachelor's degree in Architecture with at least 15 years of relevant experience. Preferably, have international experiences in architectural designing & planning similar name of projects. Having also experienced in energy efficient architectural designs that reflect green building principles following the most up to date standards etc. Experience in World Bank financed projects would be preferable.	(Incremental, and/or Interimtent)
4	Design Engineer-1: building	Minimum Bachelor's degree in Civil Engineering with 10 years of relevant experience in the design of building.	(Incremental, and/or Interimtent)
5	Design Engineer-2: Road	Minimum Bachelor's degree in Civil Engineering with 10 years of relevant experience in the design of roads, bridges, culverts and drainage structures.	(Incremental, and/or Interimtent)
6	Design Engineer-3: bridge, culvert;	Minimum Bachelor's degree in Civil Engineering with 10 years of relevant experience in the design of bridges, culverts.	(Incremental, and/or Interimtent)
7	Design Engineer-4: Drainage design Expert	Minimum Bachelor's degree in Civil Engineering with 10 years of relevant experience in the design of drainage structures.	(Incremental, and/or Interimtent)
8	Construction Supervision Engineer- Field Residence.	Minimum Bachelor's degree in Civil Engineering with 10 years of relevant experience in the supervision of Civil Works etc.	Full Time
9	Chemical Engineer Field Residence	Minimum Bachelor's degree in Chemical Engineering with 10 years of relevant experience in the supervision of Chemical Engineering Works.	(Incremental, and/or Interimtent)
10	Mechanical/Ele critical Field Residence	Minimum Bachelor's degree in Electrical & Electronics engineering / Mechanical Engineering with 10 years of relevant experience in the supervision of Electro-Mechanical Works.	(Incremental, and/or Interimtent)
11	Environment and Safety Engineer Field Residence	Minimum Bachelor's degree in environmental with 10 years of relevant experience. At least 5 years professional experience in implementation of OHS, environment plan including preparation of EIA, EMP reports etc.	(Incremental, and/or Interimtent)



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Sl. No	Expert position	Educational qualification & experiences	Type of Engagement
12	Environmental Specialist	Minimum Bachelor's degree in environmental with 10 years of relevant experience. At least 5 years professional experience in environmental study & implementation of environment plan including preparation of EIA, EMP reports etc. The Expert should be well conversant with laws relating to land acquisition, state procedures in implementation plans & framework. The Experts should also be well known about national / the World Bank environmental and social safeguard policies.	(Incremental, and/or Interim)

#### 06. Tentative Duration of the Assignment

The tentative milestones and duration for the project are the following:

- Tentative date of commencement of assignment is **June 2021**; and
- Duration of the assignment will be **Fifty (50) months**.

#### 07. Cost Estimation

Particulars	Key Expert		Non-Key Expert		Total (in lakh Taka)
	MM	BDT (in lakh Taka)	MM	BDT (in lakh Taka)	
Remuneration Expenses	515	1985	1805 + 1300	5055	7040
Reimbursable Expenses					460
<b>Total</b>					<b>7500</b>

#### 08. Procurement Method

The consulting firm will be selected according to the quality- and cost-based selection (QCBS) method under international competing bidding (ICB) process described in JDA Guidelines on the Selection of Consultants, January 2011, Revised July (2014). A weighting system of 80% for quality and 20% for cost will be applied.

*QCBS*  
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PMC 16: Environmental and Social Consultancy Services (Lot-1)

Terms of Reference

01. Objectives of Consulting Services

The purpose of this terms of reference is to hire an external firm through competitive procurement for a) providing capacity building support to BEZA on Environmental & Social issues by conducting a full-fledged training Program for BEZA staff, contractors, investors, workers, Private EZs and other BEZA departments as necessary and b) Preparation of 06 ESIA & RAP as per requirement of BEZA and World Bank c) Implementation of policy framework, monitoring and action plan as per safeguards, d) Stakeholder consultation etc.

02. Scope of Consulting Services

A) Environmental & Social Training Program

The consultancy firm will design a 3 different training program on environmental, social and OHS safeguard issues, provide basic awareness training to the BEZA official, developers, investors, workers, contractors, prepare respective training manuals and assessment reports. The duration of training will be 3 to 5 days. During the contract period, the firm will provide training to 300 officials and 800 workers in EZs.

B) Environmental and Social Impact Assessments

Since October 2018, all World Bank funded Investment Project Financing (IPF) are required to follow the Environmental and Social Framework (ESF) consisting ten (10) Environment and Social Standards (ESS). These ESSs set out their requirement for the borrowers relating to the identification and assessment of environmental and social risks and impacts associated with any project. The ESSs support the borrowers in achieving good international practice relating to environmental and social sustainability, assist them in fulfilling their national and international environmental and social obligations, enhance transparency and accountability and ensure sustainable development outcome through ongoing stakeholder engagement. The ESIA reports need to incorporate the site specific requirements of ESS as follows:

ESS: Assessment and Management of Environmental and Social Risks and Impacts

The ESIA will be updated to assess all risks and impacts related to all relevant standards (ESS2, ESS3, ESS4, ESS5, ESS6, ESS7, ESS8, and ESS10). The assessment of risks will also cover social protection and inclusion (including disability and Sexual Orientation and Gender Identity) with identification of the vulnerable groups; assessing risks of gender based violence (GBV) following the World Bank's Good Practice Note (GPN) and assessment and management of environmental and social risks and impacts of construction along with categorization of the project. The assessment will focus and concentrate on the sub-project including ancillary facilities. The ESIA will also investigate the existence of any associated facilities applicable for addressing ESF requirements.

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Based on these analyses, *an Environment and Social Commitment Plan (ESCP) will be prepared* which will detail the commitment of the government in implementing the related actions to address/mitigate the environment and social risks of the PRIDE project.

The cumulative impact assessment of the Mirsarai Economic Zone 2 will also need to be included by including in the assessment of the potential cumulative impacts of other past, current and future activities and development in the project area of influence and following the IFC Good Practice Hand Book on Cumulative Impact Assessment.

In assessing E & S risks and impacts and management measures, reference should be made to the master plan of the proposed BSM/SN, the World Bank Group's General Environmental Health and Safety Guidelines and relevant Industry Sector Guidelines such as for Construction Materials Extraction.

#### ESS2: Labor and Working Conditions

The updated ESIA will assess labor risks and working conditions. The assessment will include risk from project activities and key labor risks such as hazardous work, child labor and forced labor, migrant or seasonal workers, discrimination against women, vulnerable groups, etc., labor influx, occupational health and safety, possible accidents and emergencies, risks of GBV among others.

The ESIA will identify project workers (direct workers, contracted workers, primary supply workers, community workers) and will develop a written Labor Management Procedures (LMP) which will set out the way in which project workers will be managed, in accordance with the requirements of national law, BEZA policy and this ESS. The procedures will address the way in which this ESS will apply to different categories of project workers including direct workers and the way in which the Borrower will require third parties to manage their workers. These procedures will also include a specific GBV Accountability and Response Framework and/or GBV Management Plan to minimize/mitigate the risks of gender-based violence from external labor influx during the implementation of the project's works (See also ESS 4).

In assessing risks and impacts and management measures related to ESS2, reference should be made to the World Bank Group General Environmental Health and Safety Guidelines and Industry Sector Guidelines for Construction Material Extraction. Other Bank guidance notes can be referred to as well including the Good Practice Note on Labor Influx Management, Good Practice Note on Addressing GBV in Investment Project Financing involving Major Civil Works, Environment and Social Incident Response Toolkit (formerly SIRT) and integrating ESS/IS into procurement process as per the Bank's Procurement Framework.

#### ESS3: Resource Efficiency and Pollution Prevention and Management

The updated ESIA will assess project impacts on resource use and efficiency and pollution and how the project could prevent and manage pollution. Specifically, the ESIA will assess energy use, water use and raw material use. It will also assess impacts on air/water/soil quality, generation of hazardous and non-hazardous wastes. It will also calculate/estimate the greenhouse gas emissions from the construction and operation of the buildings in accordance with internationally or nationally accepted methodology for estimating greenhouse gas

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emissions. The resultant ESMF should provide measures to optimize resource use, management of pollution, mitigation measures, monitoring plan and budget.

#### ESS4: Community Health and Safety

The updated ESIA needs to cover and deeply explore impact assessment of the project, including ancillary facilities, on community health & safety. The ESIA will assess the risks and impacts of the project on the health and safety of the communities that are exposed to the project activities. It should include assessment of impacts on labor influx on the communities' health and safety as well as traffic safety to communities and commuters during construction.

It should deepen the analysis on the impacts of labor influx on the communities' health and safety as well as traffic safety to communities and commuters during construction. Based on this in-depth analysis and, a project-specific GBV Management Plan will be prepared. Based on project specific GBV risk rating, the Plan will spell out the specific measures – both preventive and curative – the project management will undertake in managing the risks of GBV that may occur during the project's implementation. The Bank's Good Practice Note on GBV is referred to guide the preparation of the plan.

In assessing risks and impacts and management measures related to ESS4, refer to the documents and reference mentioned under ESS 2 above.

#### ESS5: Land Acquisition, Restrictions on Land Use and Involuntary Resettlement

The updated ESIA will check and update *whether* there will be any lands to be acquired or there will be any physical, economic displacement and any access restrictions resulting from implementing the project. It should provide information on the number and different types of project-affected people (PAPs), *if any*, and propose measures to manage impacts following the mitigation hierarchy of avoidance, minimization, mitigation and compensation.

#### ESS6: Biodiversity Conservation and Sustainable Management of Living Natural Resources

The ESIA report shall conduct baseline studies on ecological resources ensuring that there are no species of ecological significance in the project area of influence. The baseline information needs to be up-to-date. The updated ESIA will provide specific measures to address specific impacts related to this standard. The ESIA will assess whether the project will affect any natural and critical natural habitats, species of ecological and conservation significance and any plantation and reforestation areas. The ESIA should apply the mitigation hierarchy of avoidance, minimization, mitigation and compensation when developing the management plan to address project impacts and risks on biodiversity and living natural resources.

#### ESS7: Indigenous Peoples/Sub-Saharan African Historically Underserved Traditional Local Communities

The ESIA needs to confirm that there are no indigenous peoples/ethnic minorities (EM) issues along the development of the project. This needs to be re-confirmed in the updated cumulative/regional ESIA, including confirmation that there are no IJs/EMs in the locations

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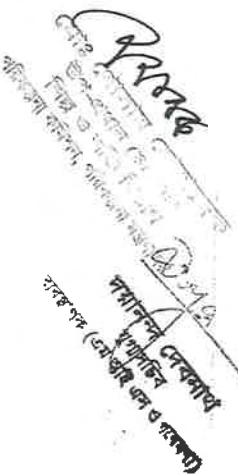


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of ancillary facilities. If IP/EM communities are found, the 'Free, Prior and Informed Consent (FPIC)' of these concerned communities on the project and a corresponding IP/EM Plan will be prepared.

**ESS8: Cultural Heritage**

The ESIA will assess and update the risks and impacts on cultural heritage. It shall make an inventory of any heritage that will be affected and propose measures to manage risks and impacts, including developing Chance Find Procedures.

**ESS9: Financial Intermediary**

This standard is not relevant to the project. There is nothing required in the ESIA for this standard.

**ESS10: Stakeholder Engagement and Information Disclosure**

A Stakeholder Engagement Plan (SEP) will be developed, which will guide the consultation processes and stakeholder engagement throughout the life cycle of the project, starting from preparation down to implementation. The SEP will also provide the detailed Grievance Redress Mechanism (GRM) of the project. The SEP will be prepared through consultations with the relevant stakeholders including the PAPs. A draft SEP will need to be developed and disclosed as early as possible in the ESIA process. Based on the SEP, stakeholder consultations will be undertaken at various stages of the project.

**C. Implementation of policy framework on safeguard related issues**

The firm will implement the safeguards related policy frameworks, action plan and monitoring guideline in the filed level. They also will implement ESMF of BEZA at the zone level. The firm will support to BEZA for functioning GRM/GRC related issues at field level. The stockholders consultation also will be part of this assignment.

**03. Expected Time Schedule**

The total duration of consulting services will be 48 months. The implementation schedule expected is as shown in Table.

Key Activities	Duration in Months
Invitation of EOI	15/05/2021
Issue of RFP	24/06/2021
Commencement of Consulting Services	23/08/2021
Termination of Consulting Services	31/09/2025

**04. Expertise Required**

The consultant team will consist of both Key Expert and Non-Key Expert and will be engaged for the duration of consulting services. The team of key consultants is expected to be comprised of a Team leader / ES expert (International), Environmental Expert, Social Expert and OHS Expert.



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 নিম্ন ও স্বাস্থ্য  
 পরিচালনা কমিশন, পরিবেশ ও মৎস্য

SN	Position	Qualification	Experience
	<b>Non-Key Experts</b>		
KN-1	Jr. Environmental Expert	Master's Degree on Environmental Science	<ul style="list-style-type: none"> <li>• Minimum 5 years general experience in the similar position</li> <li>• Minimum 2 years specific experience in the similar field.</li> </ul>
KN-2	Jr. Social Expert	Master's Degree in Sociology/ Social Science or any other similar subject	<ul style="list-style-type: none"> <li>• Minimum 5 years general experience in the similar position</li> <li>• Minimum 2 years specific experience in the similar field</li> </ul>
KN-3	Jr. Labor Expert	Master's Degree in Development strategy/ Sociology/ Social Science or any other similar subject	<ul style="list-style-type: none"> <li>• Minimum 5 years general experience in the similar position</li> <li>• Minimum 2 years specific experience in the similar field</li> </ul>
KN-4	Data collectors	Bachelor's Degree in social science or arts	<ul style="list-style-type: none"> <li>• Minimum 5 years general experience in the similar position</li> <li>• Minimum 2 years specific experience in the similar field</li> </ul>
KN-5	Jr. OHS	Bachelor's Degree on Environmental Science and post-graduation of OHS	<ul style="list-style-type: none"> <li>• Minimum 5 years general experience in the similar position</li> <li>• Minimum 2 years specific experience in the similar field</li> </ul>

#### 06. Supporting Staff

The consultant team may employ supporting staff for the supervision of the sub-projects and operation of the project office, if required. The supporting staff may include:

- 1) Inspector for quality control
- 2) Data collector
- 3) Administrator
- 4) Accountant
- 5) Typist
- 6) Surveyor

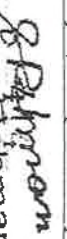
#### 07. Reporting

Within the scope of consulting services, the Consultant shall prepare and submit reports and documents to the Employer, as shown in Table. The Consultant shall provide hard and electronic copy of each of these reports.

Table: List of submission report

Sl.	Type of Report	Time Frame	No. of copies
1	Inception Report	Within 20 days after commencement of the services with presentation at project office including A list of all meetings and interviews with meeting notes and another list of studies and documents examined, gap analysis, work plan will be provided to BEZA.	07



  
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Table: Key Experts and Indicative Expected Man-Months (MM)

SN	Position	No	MM	Total
1	Team leader / ES expert	1	48	48
2	Environmental Expert	1	30	30
3	Social Expert	1	30	30
4	OHS Expert	1	30	30
<b>Total</b>		<b>4</b>	<b>--</b>	<b>138</b>

Table: Non-Key Experts and Indicative Expected Man-Months (MM)

SN	Position	No	MM	Total
1	Jr. Environmental Expert	1	48	48
2	Jr. Social Expert	1	48	48
3	Jr. Labor Expert	1	48	48
4	Data collectors	3	8	24
5	Jr. OHS	1	48	48
<b>Total</b>		<b>7</b>	<b>--</b>	<b>216</b>

N13: Firm may proposed additional Non-Key expert as per requirement

**05. Qualification and Experiences**


The following tables provide minimum qualification for educational background and professional experiences.

Table: Qualification of Key Experts and Non-Key Experts

SN	Position	Qualification	Experience
K1-1	Key Experts Team leader / ES expert	Master's Degree on Environmental Science and Social Science: Who have both degree in environmental and social science will get priority (Full time and office will be the Project Director office at Dhaka)	<ul style="list-style-type: none"> <li>Minimum 20 years general experience in the similar position</li> <li>Minimum 10 years specific experience in the similar field.</li> </ul>
K1-2	Environmental Specialist	Master's Degree on Environmental Science	<ul style="list-style-type: none"> <li>Minimum 10 years general experience in the similar position</li> <li>Minimum 5 years specific experience in the similar field.</li> </ul>
K1-3	Social Specialist	Master's Degree in Sociology/ Social Science or any other similar subject	<ul style="list-style-type: none"> <li>Minimum 10 years general experience in the similar position</li> <li>Minimum 5 years specific experience in the similar field.</li> </ul>
K1-4	OHS Expert	Master's Degree on Environmental Science and post graduation on OHS	<ul style="list-style-type: none"> <li>Minimum 10 years general experience in the similar position</li> <li>Minimum 5 years specific experience in the similar field.</li> </ul>

  
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2	Quarterly Progress Report	Quarterly with presentation at project office summarizing efforts underway to address the above scope of work, outlining problems and constraints encountered, and presenting issues for client decision-making, as needed.	05
3	Environmental, OHS, and social Training Module	Within 06 month of the contract	100
4	Environmental, OHS, and social Training to BEZA staff, contractors, investors, workers, Private EZs	<ul style="list-style-type: none"> <li>Total 200 officers will receive training on ES &amp; OHS</li> <li>Total 500 workers will receive 1 days orientation training ES &amp; OHS</li> <li>Submission of training assessment report.</li> </ul>	--
5	Preparation of 06 ESIA & RAP as per requirement of BEZA	<ul style="list-style-type: none"> <li>02 ESIA and RAP within 1 year of the contract</li> <li>02 ESIA and RAP within 2 years of contract</li> <li>02 ESIA ad RAP within 3 years of contract</li> <li>Present to DoE for clearance</li> </ul>	--
6	Support to achieve environment and social commitment plan of PRIDE Project	According to requirement of PD	--
7	Stakeholders consultation	According to stakeholder management plan at BSMSN	--
8	Yearly Report	Yearly basis	05
9	Safeguards report submission to PD	Quarterly basis	16
10	Final Report	Before 1 month of the closing of contract	20

#### 08. Cost Estimation

Particulars	Key Expert		Non- Key Expert		Total (in lakh Taka)
	MM	BDT (in lakh Taka)	MM	BDT (in lakh Taka)	
Remuneration Expenses	138	550	216	450	1000
Reimbursable Expenses					550
<b>Total</b>					<b>1550</b>

#### 09. Procurement Method

The consulting firm will be selected according to the quality- and cost-based selection (QCBS) method under international competing bidding (ICB) process described in IDA Guidelines on the Selection of Consultants, January 2011, Revised July (2014). A weighting system of 80% for quality and 20% for cost will be applied.


  
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## PMC 16: Regional Environmental and Social Assessment (Lot 2)

### Terms of Reference

#### 01. Scope of the Assignment

The RESA report shall be prepared in light with the GoB rules and regulations and Environmental and Social Framework (ESF) (that includes ten ES standards) and Guidance Notes of the World Bank. The service includes:

- ESS1: Assessment and Management of Environmental and Social Risks and Impacts
- ESS2: Labor and Working Condition
- ESS3: Resource Efficiency and Pollution Prevention and Management
- ESS4: Community Health and Safety
- ESS5: Land Acquisition, Restriction on Land Use and Involuntary Resettlement
- ESS6: Biodiversity Conservation and Sustainable Management of Living Natural Resources
- ESS7: Indigenous People underserved Traditional Local Communities
- ESS8: Cultural Heritage
- ESS9: Financial Intermediary
- ESS10: Stakeholder Engagement and Information Disclosure

#### 02. Indicative Outline of the RESA

This should provide a summary of the findings of the study on present ES conditions of the region, impact on various ES parameters due to proposed land use plan/activities under master plan and cumulative impact of other ongoing/ planned activities, the policy and regulatory frameworks, summary of consultations with key stakeholders, key recommendations to reduce/avoid the negative impacts, recommendations of the tasks to be undertaken to establish an effective ES management and administration structure for the region etc. Moreover, the report includes:

- Chapter 1: Description of the Region and the Project
- Chapter 2: Legal and Institutional Framework
- Chapter 3: ES Baseline of the Region
- Chapter 4: Stakeholder Mapping and Public Consultations
- Chapter 5: Potential ES Risks and Impacts
- Chapter 6: Cumulative Impact Assessment
- Chapter 7: Alternative Analysis
- Chapter 8: Disaster Risk Assessment and Disaster Risk Management Plan
- Chapter 9: ES Management Procedure
- Chapter 10: Institutional Arrangements and Strengthening
- Chapter 11: Conclusions and Recommendations

#### 03. Expertise Required and Qualifications

A consulting firm, with proven experience implementing similar studies for WB/ MDB shall be hired to conduct the RESA and will comprise, at the minimum, of the following members and expertise:



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Professional (CSP) etc. Minimum 8 years of experience is required in assessing, planning, implementing OHS plans in large industrial operation.

**Gender Expert:** Will be responsible for analyzing and integrating the gender related issues, including GBV, in the RESA and to provide input for the Gender Action Plan for any potential project. S/he will also work with the Labor Expert and H & S Expert to provide inputs for the Labor Management Procedures (LMP). Minimum 8 years of experience in similar assignment is essential.

**Stakeholder Engagement Specialist:** Will identify and liaise with various stakeholders for providing inputs about the potential projects and activities and obtain inputs to assess stakeholders' ideas, concerns and aspirations. Minimum 8 years of experience in similar assignment is essential.

SN	Position	No	MM	Total
1	Environmental Expert			
2	Social Development Specialist	1	15	15
3	Climate Change Specialist (CCS).	1	15	15
4	Waste Management Specialist (WMS):	1	5	5
5	Biologist/Biodiversity Specialist	1	5	5
6	Labor Laws Expert.	1	5	5
7	Occupational Health & Safety (OHS) Specialist	1	5	5
8	Gender Expert.	1	5	5
9	Stakeholder Engagement Specialist	1	5	5
<b>Total</b>		<b>9</b>	<b>60</b>	<b>60</b>

In addition, the firm will recruit adequate number of quantitative and qualitative field researchers to collect data and analysts to analyze the collected data including following non-key experts:

SN	Position	No	MM	Total
1	Jr. Environmental Expert	1	10	10
2	Jr. Social Expert	1	10	10
3	Jr. Labor Expert	1	10	10
4	Data collectors	3	10	30
<b>Total</b>		<b>6</b>	<b>60</b>	<b>60</b>

N. B.: Firm may proposed additional Non-Key expert as per requirement

#### 04. Timetable and Deliverables

This study is expected to be completed within 15 (fifteen) months after acceptance of the assignment. The draft report should be submitted including comments/suggestion from stakeholders and the World Bank in English and Bangla, with two (2) hard copies and two (2) electronic copies at the times as agreed in the Work Plan. A PowerPoint Presentation of the report to be made to the Client and the Bank upon delivery of the draft report and also at the delivery of the final report. The consultant will deliver the reports according to the following timeline:



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 বাংলাদেশ (স্বাক্ষরিত এবং স্বাক্ষরিত)

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স্বাক্ষরিত  
 প্রধানমন্ত্রীর কার্যালয়  
 বাংলাদেশ (স্বাক্ষরিত এবং স্বাক্ষরিত)

SL	Products/ Deliverables	Timeline (months)
1	Inception Report including detail methodology, timeframe and budget. This report has to be reviewed and approved by the Bank before moving in to the preparation of RESA report	3 (from contract signing)
2	First draft RESA	10
3	Final RESA	2
4	Present to DOE and approval	-

#### 05. Cost Estimation

Particulars	Key Expert		Non- Key Expert		Total (in lakh Taka)
	MM	BDT (in lakh Taka)	MM	BDT (in lakh Taka)	
Remuneration Expenses	60	120	60	60	180
Reimbursable Expenses					20
<b>Total</b>					<b>200</b>

#### 06. Procurement Method

The consulting firm will be selected according to the quality- and cost-based selection (QCBS) method under international competing bidding (ICB) process described in IDA Guidelines on the Selection of Consultants, January 2011, Revised July (2014). A weighting system of 80% for quality and 20% for cost will be applied.

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## PMC 17: Training Need Assessment for Economic Zones (Lot 1)

## Terms of Reference

## 1. Objectives of the Services

The TNA which is the subject of this procurement is an initial exercise to provide baseline information which will be used by BEZA in procurement and performance management of the Enterprise Skill Agency (ESA). It will be also be an operational document which provides to organisations wishing to offer training and labour market facilitation services for the EZs.

The information needed in the analysis should be specific on short-term needs, including detail of hard-to-fill vacancies and how training can improve supply, and should be directional on long-term needs. The objectives of the Initial TNA are:

- 1 To provide a detailed snapshot of the current labour market as defined by the demands of in-scope IZ tenants
- 2 To provide information on the labour market dynamics which will affect planning within the current 5-year planning period
- 3 To provide short, medium and long-term information on training needs
- 4 To provide insights into factors which will affect the design of the voucher scheme to catalyse the development of a strong supply of training and skilled labour for IZ tenants and potential investors.

## 2. Scope of Work

The consultancy firm will provide international and national expertise to conduct the Initial TNA for selected economic zones in Bangladesh. The scope of labour demand under consideration is limited to IIPrivate EZs and one Public Sector EZ. It is expected that the consulting firm will conduct the following tasks and activities:

1. Review the policies and plans for BEZA and the context provided by the National Skills Programme under the National Skills Development Agency,
2. Conduct a comprehensive labour demand survey for in-scope EZs, generating a primary data source and insights into the impact of IZ tenant and prospective investor strategies on labour demand.
3. Conduct required number of interviews with investor and tenants to provide insights into the data.
4. Evaluate the value of survey information on the Bangladesh labour market in the light of pandemic-related change, including the current experience of recruiters and information from skills development initiatives using digital platform,
5. Develop, synthesis, Interrogate and analyse relevant data using appropriate techniques and methodologies,



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6. Prepare baseline H2Z labour demand data, a narrative, and information on scenarios that will affect supply, including identification of occupations where there will be under or over-supply,
  7. Prepare Description of commonalities in EZ tenant and prospective investor strategies.
  8. Analyse Short (year 1), medium (years 2 and 3) and long-term (years 4 and 5) training needs,
  9. Conduct a stakeholder workshop to share the TNA outcomes;
- BEZA will provide support to the consultancy firm by facilitating the process of reaching survey and interview respondents and encouraging meaningful responses. The work will be presented by the consulting firm facilitated by BEZA to tenants as a part of the workforce planning support that BEZA provides to them.

### 3. Key Deliverables

Sl.	Activities/Deliverables	Terms
1	Submission of Inception Report	Within 15 days from the date of contract signing with presentation at project office. A list of all meetings and interviews with meeting notes, documents examined, work plan should be provided to BEZA. (Printed 05 copies and soft copy required)
2	Submission of Interim Report	Within 45 days from the date of contract signing. The firm must provide a Presentation on the Draft Final Report at project office. (Printed 05 copies and soft copy required)
3	Submission of Draft Final Report	Within 90 days from the date of contract signing. The firm must provide a Presentation on the Draft Final Report at project office. (Printed 05 copies and soft copy required)
4	Submission of Final Report and Data Pack on TNA	Within 120 days from the date of contract signing. The firm must also provide a PowerPoint Slide Deck on the Draft Final Report at project office. (Printed 10 copies and soft copy required)

### 4. Quality criteria for the deliverables and methodology

- The methodology included in proposals to support this ToR should illustrate a clear understanding of the project, and the tasks to be undertaken, and should support:
1. A recognition of the effects of Covid-19
  2. Survey and information captured using on-line and digital platforms
  3. Production of a data pack in standard and transferable digital formats
  4. Use of standard Bangladesh taxonomies for job-roles and occupational standards where possible. These should reference the Bangladesh National Training and Vocational Qualifications Framework (NTVQF) regulated by the National Skills Development Authority (NSDA) where possible
  5. Labour Market and Training Needs information provided to the level of job-role where possible
  6. A high level of specificity on job-role and volumes in the analysis of short-term needs, and a consideration of scenarios in the analysis of long-term needs



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7. Use of current data where available, including capture of data from current job-matching sites
8. Use of proxies where actual BEZA market does not yet have the volume to allow definitive statements
9. Delivery using a cost-effective methodology for gathering primary data
10. Use of pictorial representations of data when representing findings.

BEZA recognises the fast-changing nature of the labour markets and resultant training needs. Information is therefore expected to be specific in the short term and direction in the longer term:

1. Short term needs should include:
  - Job-role specific information and volumes of each job-role. Where suitable job-roles don't exist in Bangladesh taxonomics the supplier should use their judgment in citing a benchmark role which is appropriate, for example International or European Standard Classification of Occupations (I/ESCO).
  - The required Generic Skills (as defined by Bangladesh occupational standards), attitudes, behaviours.
2. Medium-term needs should include:
  - Job-role specific information where possible. Where it isn't possible then job-family and qualification level will be sufficient.
  - The required Generic Skills (as defined by Bangladesh occupational standards), attitudes, and behaviours.
3. Long Term needs should include:
  - Analysis of EZ, Tenant and Investor strategy and its impacts on labour demand. The analysis should also consider global and national drivers of change. Scenarios should be used to illustrate the analysis.

### 5. Required Qualifications and Experience

BEZA is looking to hire a consultancy firm with significant experience in labour market information and workforce development. The consultancy firm should have the following experience:

- Must have extensive experience in conducting training needs assessment applying international standards;
- Must have at least 5 years of relevant experience in the development and assessment of labour demand dynamics;
- Must have extensive experience in workforce development issues and methodology; Additional merit will be given to firms with experience in Bangladesh and/or the region.
- Must have experience and capability in data acquisition and analysis and access to or possession of requisite techniques and platforms;
- The firm must exhibit proven track record in delivering labour market scans;
- The core team must have experience in preparing reports to a standard acceptable to national and international financing institutions and be fluent in written and spoken English.

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In responding to the TOR, the consultancy firm should show how the team that they assign has the expertise to support the TNA, and they should show how that expertise will be applied efficiently. The consultancy firm should specify the expertise, including named Key Experts, and the allocation of their time. Key Expertise is expected to comprise a Team Leader/Training Specialist, Labour Market Research expert, Training and Workforce Development expert, and a Research Analysts/Statistician. An indication on of BEZA expectations of Key Experts and their allocation is as follows:

#### Key Expert Qualifications and Experience

SN	Position	Qualification	Experience
1	Team Leader/Training Specialist,	Master's degree in HRM/Business Administration/ Social science/ Development strategy or any other relevant subject.	<ul style="list-style-type: none"> <li>• Minimum 15 years general experience in relevant positions</li> <li>• Minimum 5 years specific experience in a similar field.</li> </ul>
2	Labour Market Research Expert	Master's degree in social science degree or equivalent any subject.  (Subject and Experience related to Labour Market Research will be given preference)	<ul style="list-style-type: none"> <li>• Minimum 10 years general experience in relevant positions</li> <li>• Minimum 5 years specific experience in a similar field.</li> </ul>
3	Training and work-force Development Expert	Master's degree in social science degree or equivalent any subject.  (Subject and Experience related to Training and Workforce will be given preference)	<ul style="list-style-type: none"> <li>• Minimum 10 years general experience in relevant positions</li> <li>• Minimum 5 years specific experience in a similar field.</li> </ul>
4	Research Analysts/statistician	Master's degree in social science degree or equivalent.  (Subject and Experience related to Training Research will be given preference)	<ul style="list-style-type: none"> <li>• Minimum 5 years general experience in the similar position</li> <li>• Minimum 2 years relevant research work.</li> </ul>

\*Signed CVs of Key Experts should be attached.

The consultancy firm may propose a different configuration of expertise, and use of additional non-key experts, but should show how expertise supports their method.

#### 6. Indicative Expected Effort

The consultant team will consist of both Key Expert will be engaged for the duration of consulting services. Key Expert required to execute the Consulting Services are summarized in the following table:



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 প্রকল্প পরিচালক (সি.এম.এ.)  
 জাতীয় কর্মসংস্থান পরিষদ  
 বাংলাদেশ সরকার (সি.এম.এ. অফিস)

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 Director  
 Prime Minister's Office  
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SN	Position	No	MM	Total
	<u>Key-Expert</u>			
1	Team Leader-Training Specialist (Int),	1	2	2
2	Labor market research expert	1	2	2
3	Training and work-force development expert	1	2	2
4	Research Assistant	1	3	3
	<u>Non-Key-Expert</u>			
5	Data Collector	1	5	5
6	Data Entry operator	1	5	5
<b>Total</b>		<b>6</b>	<b>19</b>	<b>19</b>

In addition to the Key Experts, the consultancy firm should ensure that there is resource within Bangladesh to liaise with BEZA for:

- Reporting, day-to-day co-ordination, and issue resolution
- Driving acquisition of survey and interview exercises, including co-ordinating BEZA support

Though BEZA will support acquisition of information, the consultancy firm should plan substantial in-country resource during the period in which survey and interviews take place, equivalent to a full-time resource for that period. In-country roles can be combined with those of Key Experts though the consultancy firm should demonstrate that it will use costly expertise efficiently.

#### 7. Duration of the Assignment

The assignment is expected to be completed within 3 months after signing the contract. The assignment is proposed to start in January 2021 to June 2021. The consultancy will be required to work closely with BEZA staff and if needed, travel to specific zones locations.

#### 8. Reporting Requirements

The winning firm will report project progress to the Project Director through the *Inception Report*, *Interim Report*, *Draft Final Report* and *Final Report* in English & Bangla, and in regular update meetings. All reports submitted must have signatures of the author, checker and approver with seals of the consulting firm. Each report will be accompanied by an electronic version (i.e soft copy).



স্বাক্ষরিত  
মন্ত্রিসভা  
সচিবালয়  
১০০, ঢাকা-১০০

Director  
Anisur Rahman

Prime Minister's Office  
Govt. of the People's Republic of Bangladesh

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**9. Facilities and Equipment:**

- a) To be provided by the Client  
 BEZA will provide the consulting firm with available materials and data relating to the project and will support acquisition of information from EZ tenants including support for survey and interview.
- b) To be provided by the Consultancy firm

No separate/additional payment is required from BEZA for the consulting firm's facilities.

**10. Cost Estimation**

Particulars	Key Expert		Non-Key Expert		Total (in lakh Taka)
	MM	BDT (in lakh Taka)	MM	BDT (in lakh Taka)	
Remuneration Expenses	9	40	10	20	60
Reimbursable Expenses					10
<b>Total</b>					<b>70</b>

**11. Procurement Method**

The consulting firm will be selected according to the quality- and cost-based selection (QCBS) method under national competing bidding (NCB) process described in IDA Guidelines on the Selection of Consultants, January 2011, Revised July (2014). A weighting system of 80% for quality and 20% for cost will be applied.

*Signature*  
 মহানগর উন্নয়ন  
 অফিস  
 কস্টারিং (এম এম এফ ও সিস্টেম)

*Signature*  
**Anisur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh



*Signature*  
 মহানগর উন্নয়ন  
 অফিস  
 কস্টারিং (এম এম এফ ও সিস্টেম)



## PMC 17: Skills & Social Development Program at BSMSN (Lo12)

### Terms of Reference

#### 01. Objectives of Consulting Services

The purpose of this term of reference is to hire an external firm through competitive procurement for a) design and implementation of skills development training program at BSMSN for 2000 interested participants especially for affected peoples b) design and implementation social development program around the BSMSN

#### 02. Scope of Consulting Services

This firm will be responsible for:

- Develop minimum 07 training modules for starting the training program immediately
- Design the training program according to TNA report for BSMSN
- Provide training to the 2000 participants around the BSMSN especially to the affected peoples (Duration of training will be finalize with the result of TNA and training modules) and job placement for the trainee
- Collect labour market data available from BEZA, government sources and other market watchers
- Design and implement the social development program around the BSMSN
- Stakeholder engagement program implementation around the BSMSN
- Social Development Program

#### 03. Expected outcome from Consulting Firm

- Provide training within 1 year \$00 participants , 2<sup>nd</sup> year 1000 participants and 3<sup>rd</sup> year 2000 participants
- Organize and implement program for celebrating special days for social development ( yearly 3 to 5)
- Organize 100 public consultations within the influence area of the Bangladesh Shilpanagar
- Organize 30 district, Upazila and Union level workshop for social development initiative of IZ/s
- Organize awareness program to ensure gender development in all level of EZs development
- Develop and print 5 types of brochure ( 20 thousands)for social development initiative of BEZA
- Organize & implement 5 national and regional workshop for developing the Bangladesh Shilpanagar
- Organize & implement 50 stakeholder workshop to ensure proper participation from all level
- Organize & implement 50 stakeholder meeting at Upazila and Union level
- Organize & implement 100 stakeholders consultation with labor group
- Organize & implement 20 stakeholders consultation with investors
- Support to BEZA to organize all of stakeholder's consultation and given redress mechanism

#### 04. Expected Time Schedule

The total duration of consulting services will be 48 months. The implementation schedule expected is as shown in Table.

Key Activities	Duration in Months
Invitation of POI	15/07/2021
Issue of RFP	24/08/2021
Commencement of Consulting Services	23/10/2021
Termination of Consulting Services	31/12/2025



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 ডায়েরী নং-১৩৩৯  
 প্রোগ্রামিং  
 সফটওয়্যার (সি.পি.এস.ও. অফিস)

০১/১০/২১  
 ডায়েরী নং-১৩৩৯  
 প্রোগ্রামিং  
 সফটওয়্যার (সি.পি.এস.ও. অফিস)

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০১/১০/২১  
 ডায়েরী নং-১৩৩৯  
 প্রোগ্রামিং  
 সফটওয়্যার (সি.পি.এস.ও. অফিস)

### 05. Expertise Required

The consultant team will consist of both Key Expert and Non-Key Expert and will be engaged for the duration of consulting services. The team of Key consultants is expected to be comprised of a Team leader / ES expert (International), Environmental Expert, Social Expert and OHS Expert.

Table: Expected Man-Months (MM)

SN	Position	No	MM	Total
	<b>Key Experts</b>			
1	Team leader (Training Specialist)	1	48	48
2	Training Expert	1	48	48
3	Jr. Training Expert	1	48	48
4	Jr. Social Development Expert	1	40	40
	<b>Non-Key Experts</b>			
	Trainer			
	Training organizer	10	30	300
	Total	5	30	150
		19		634

N. B.: Firm may propose additional Non-Key expert as per requirement.

### 06. Qualification and Experiences

The following tables provide minimum qualification for educational background and professional experiences.

Table: Qualification of Key Experts and Non-Key Experts

SN	Position	Qualification	Experience
KI-1	Key Experts: Team leader (Training Specialist)	Master Degree in any discipline	<ul style="list-style-type: none"> <li>Minimum 15 years general experience in the similar position</li> <li>Minimum 10 years specific experience in the similar field.</li> </ul>
KI-2	Training Expert	Master Degree in any discipline	<ul style="list-style-type: none"> <li>Minimum 12 years general experience in the similar position</li> <li>Minimum 10 years specific experience in the similar field.</li> </ul>
KI-3	Jr. Training Expert	Master Degree in any discipline	<ul style="list-style-type: none"> <li>Minimum 8 years general experience in the similar position</li> <li>Minimum 5 years specific experience in the similar field.</li> </ul>
KI-4	Jr. Social Development Expert	Master's Degree in Social Science or any other similar subject	<ul style="list-style-type: none"> <li>Minimum 8 years general experience in the similar position</li> <li>Minimum 5 years specific experience in the similar field</li> </ul>
	<b>Non-Key Experts:</b>		



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 বিভাগ  
 বাংলাদেশ সরকার, বাংলাদেশ  
 মহানগর পরিবহন  
 বিভাগ  
 কলকাতা (কম্পার্ট এন্ড ও গার্লস)

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 Director  
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 of the People's Republic of Bangladesh  
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SN	Position	Qualification	Experience
KN-1	Trainers	Bachelor/Master Degree in any discipline	<ul style="list-style-type: none"> <li>• Minimum 5 years general experience in the similar position</li> <li>• Minimum 2 years specific experience in the similar field.</li> </ul>
KN-2	Training organizer	Bachelor's Degree in any subject	<ul style="list-style-type: none"> <li>• Minimum 5 years general experience in the similar position</li> <li>• Minimum 2 years specific experience in the similar field</li> </ul>

#### 07. Supporting Staff

The consultant team may employ supporting staff for the supervision of the sub-projects and operation of the project office, if required. The supporting staff may include:

- 1) Inspector for quality control
- 2) Data collector
- 3) Administrator
- 4) Accountant
- 5) Typist

#### 08. Reporting

Within the scope of consulting services, the Consultant shall prepare and submit reports and documents to the Employer, as shown in Table. The Consultant shall provide hard and electronic copy of each of these reports.

Table: List of submission report

Sl.	Type of Report	Time Frame	No. of copies
1	Inception Report	Within 30 days after commencement of the services with presentation at project office including A list of all meetings and interviews with meeting notes and another list of studies and documents examined, gap analysis, work plan will be provided to BEZA.	07
2	Quarterly Progress Report	Quarterly with presentation at project office	05
3	Training modules	Within 08 month of the contract	100
4	Training implementation report	<ul style="list-style-type: none"> <li>• 500 participants training within 1 year of the contract</li> <li>• 1000 participants training within 2 year of the contract</li> <li>• 2000 participants training within 3 year of the contract</li> </ul>	15
5	Social Development Program	<ul style="list-style-type: none"> <li>• Organize and implement program for celebrating special days for social development (yearly 3 to 5)</li> <li>• Organize 100 public consultations within the influence area of the Bangladesh Shilpanagar</li> <li>• Organize 30 district, Upazila and Union level workshop for social development initiative of EZs</li> <li>• Organize awareness program to ensure gender development in all level of EZs development</li> <li>• Develop and print 5 types of brochure ( 20 thousands) for social development initiative of BEZA</li> <li>• Develop and print 8 thousands posters social development initiative of BEZA</li> </ul>	15
6	Stakeholders consultation	<ul style="list-style-type: none"> <li>• Organize &amp; implement 5 national and regional workshop for developing the Bangladesh Shilpanagar</li> <li>• Organize &amp; implement 50 stakeholder workshop to ensure proper participation from all level</li> <li>• Organize &amp; implement 50 stakeholder meeting at Upazila and Union level</li> </ul>	15

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Anisur Rahman

*Anisur Rahman*



স্বাক্ষরিত  
স্বাক্ষর (স্বাক্ষর করে এবং তার মতে)

স্বাক্ষরিত  
স্বাক্ষর (স্বাক্ষর করে এবং তার মতে)


		<ul style="list-style-type: none"> <li>Organize &amp; implement 100 stakeholders consultation with labor group</li> <li>Organize &amp; implement 20 stakeholders consultation with investors</li> <li>Support to BEZA to organize all of stakeholder's consultation and given redress</li> </ul> <p>The selected firm also will implement the stakeholder engagement plan of BEZA for BSMSN</p>	
7	Yearly Report	Yearly basis	5
8	Final Report	Before 1 month of the closing of contract	20

#### 09. Cost Estimation

Particulars	Key Expert		Non- Key Expert		Total (in lakh Taka)
	MM	BDT (in lakh Taka)	MM	BDT (in lakh Taka)	
Remuneration Expenses	184	320	450	300	620
Training Cost					930
Social Development					280
<b>Total</b>					<b>1830</b>

#### 10. Procurement Method

The consulting firm will be selected according to the quality- and cost-based selection (QCBS) method under national competing bidding (NCB) process described in IDA Guidelines on the Selection of Consultants, January 2011, Revised July (2014). A weighting system of 80% for quality and 20% for cost will be applied.

  
 Md. Anisur Rahman  
 Director  
 Govt. of Bangladesh (for BEZA & BSMSN)



  
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 Director  
 Prime Minister's Office  
 Gov. of the People's Republic of Bangladesh

  
 Md. Anisur Rahman  
 Director  
 Govt. of Bangladesh (for BEZA & BSMSN)

**PMC 18: Survey of local micro, small and medium-sized enterprises around BSMSN to build a portal**

**Terms of Reference**

**01. Objective:**

Bangladesh Economic Zones Authority (BEZA) have a requirement to produce a comprehensive inventory of local micro, small and medium-sized enterprises that are situated around Bangabandhu Sheikh Mujib Shilpa Nagar (BSMSN) in Mirsarai, Chittagong and simultaneously develop a portal that can be accessed by BEZA and its clients that will help to effectively integrate local firms to the supply chains of the domestic and local factories situated in BSMSN.

BEZA thus intends to procure the services of a consortium of experienced advisors to assist it through the phases of developing an inventory of micro, small and medium sized enterprises around BSMSN and simultaneously developing a portal. The terms of reference invite proposals from an advisor representing a team of suitably qualified and experiences technical, financial and legal advisors to help BEZA.

**02. Scope of**

The scope of work is as follows:

**Works:**

- i) Review the previous similar surveys used to prepare inventory and/or portals in the country and their degree of effectiveness.
- ii) Review various development of inventories conducted in comparator countries like India, Vietnam, Thailand, Indonesia and Malaysia and highlight the key techniques that have been favorable and lessons learned to consider
- iii) Develop and appropriate methodology to identify these firms and specify on the level of proximity of these firms to BSMSN. Some of the key criteria may also include a) Number of people they employ and their skill levels, b) what sector the firms cater to, c) what kind of raw materials they get and their respective sources. d) wages of their employees, e) revenue and profits of the firms, f) type of constraints they face while doing business, g) what type of policies, support or directives that would help the businesses grow, h) their methods of transportation of delivering the goods, how much time it takes and types of costs associated with it, i) a list of their buyers
- iv) Undertake a survey/census of local micro, small and medium sized enterprises that are in the vicinity of BSMSN.
- v) Prepare a comprehensive data inventory on incumbents of BSMSN including parameters such as a) the number of jobs they would generate, b) the sector they cater to, c) the types of raw materials they require and d) who will their likely buyers be as well as their respective production timeline (turnaround from local businesses)
- vi) Generate a projection of the business activities of the local micro, small and medium enterprises as well as the incumbents of BSMSN using a tri-categorical scenario, i.e., optimistic, regular and pessimistic.
- vii) Develop a matrix or a table explaining how the local firms can be potentially integrated into the supply chain of the businesses in BSMSN and identify capacity development needs for the local firms required to be integrated to the BSMSN firms as well as equipment requirement based by local firms to raise production capacity
- viii) Provide technical details and specifications of the IT hardware, software and operating systems needed for developing the portal (data capture, inventory



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স্বাক্ষরকার (স্বাক্ষর এবং চিহ্ন সহ)

*Anisur Rahman*

**Anisur Rahman**

Director

Prime Minister's Office

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- processing and reporting) of the inventory, including archiving systems and procedures;
- (x) Design and develop training materials on how to use the portal to maximize its effectiveness.
- x) Identify and recommend options on level of access to the portal (free or payment based or free access as a first position and incremental charges over time etc.).

**03. Deliverables:**

- i) A report on existing similar inventories that were developed in Bangladesh and analyze its effectiveness; Review similar inventories in comparator countries such as Thailand, Malaysia, Indonesia, Vietnam and India and highlight how it has been favorable for them always specifying lessons learned
- ii) Comprehensive report on methodology of survey/census for creating an inventory on local micro, small and medium enterprises that are in proximity to BSMSN.
- iii) Comprehensive information repository on the different types of local firms where parameters should include, but not limited to a) Number of people they employ and their skill levels, b) what sector the firms cater to, c) what kind of raw materials they get and their respective sources, d) wages of their employees, e) revenue and profits of the firms, f) type of constraints they face while doing business, g) what type of policies, support or directives that would help the businesses grow, h) their methods of transportation of delivering the goods, how much time it takes and types of costs associated with it, i) a list of their buyers and export experience
- (v) Projection of the business activities of the local micro, small and medium enterprises as well the firms in BSMSN, using a tri-categorical scenario, i.e., optimistic, regular and pessimistic. Additionally, explain in detail how the local firms can be potentially integrated into the supply chain of the businesses in BSMSN and identify capacity development needs for the local firms required to be integrated to the BSMSN firms.
- v) Report encompassing the technical details and specifications of the IT hardware, software and operating systems needed for developing the portal (data capture, inventory processing and reporting) of the inventory, including archiving systems and procedures;
- vi) Training for BEZA staff, BSMSN clients and local firms on how to use the portal to maximize its effectiveness. Consultant will also deliver a presentation to BEZA, BSMSM clients, local firms and the World Bank highlighting the salient areas of the report emphasizing risks and mitigating factors to address those risks.

**04. Contract duration:**

**12 months**

Key Activities	Duration in Months
Invitation of FOI	15/08/2021
Issue of RFP	24/09/2021
Commencement of Consulting Services	23/11/2021
Termination of Consulting Services	31/11/2022

**05. Expertise Required:**

The consultant team will consist of both Key Expert and Non-Key Expert and will be engaged for the duration of consulting services. The team of key consultants is expected to be comprised of a Team leader / PPP expert (Int), Fluent Treatment expert(Int) & Legal expert(Int)



*(Handwritten signatures and stamps in Bengali)*

**Anisur Rahman**  
 Director  
 Prime Minister's Office  
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SN	Position	No	MM	Total
1	Team leader	1	4	4
2	Senior Researchers	1	6	6
3	Economist	1	6	6
<b>Total</b>		<b>3</b>	<b>16</b>	<b>16</b>

Table: Key Experts and Indicative Expected Man-Months (MM)

SN	Position	No	MM	Total
1	Statistician	1	2	2
2	Researchers	2	4	8
3	ICI Expert	1	2	2
<b>Total</b>		<b>4</b>	<b>12</b>	<b>12</b>

Table: Non-Key Experts and Indicative Expected Man-Months (MM)

N. B.: Firm may proposed additional Non-Key expert as per requirement

#### 06. Qualification and Experiences

The following tables provide minimum qualification for educational background and professional experiences.

Table: Qualification of Key Experts and Non-Key Experts

SN	Position	Qualification	Experience
	<b>Key Expert:</b>		
K1-1	Team leader / PPP expert (Int.)	Master's degree in business administrator/Economics/ Development study or any other similar field	<ul style="list-style-type: none"> <li>Minimum 20 years general experience in the similar position</li> <li>Minimum 8 years specific experience in the similar field.</li> </ul>
K-2	Senior Researchers	Master's degree in Economics/ Development study or any other similar field	<ul style="list-style-type: none"> <li>Minimum 10 years general experience in the similar position</li> <li>Minimum 5 years specific experience in the similar field</li> </ul>
K1-3	Economist	Master's degree in Economics	<ul style="list-style-type: none"> <li>Minimum 15 years general experience in the similar position</li> <li>Minimum 8 years specific experience in the similar field</li> </ul>
	<b>Non-Key Expert:</b>		
KN-1	Statistician	Master's degree Statistic	<ul style="list-style-type: none"> <li>Minimum 7 years general experience in the similar position</li> <li>Minimum 2 years specific experience in the similar field</li> </ul>
KN-2	Researchers	Master's degree in Economics/ Development study or any other similar field	<ul style="list-style-type: none"> <li>Minimum 7 years general experience in the similar position</li> <li>Minimum 2 years specific experience in the similar field</li> </ul>



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 সরকার (স্বাক্ষরিত)

*Anisur Rahman*  
 Director

Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

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১৫/১১/১৯  
 মহানন্দা (স্বাক্ষরিত)  
 সরকার (স্বাক্ষরিত)

SN	Position	Qualification	Experience
KN-3	ICT Expert	Master's Degree in Computer Science	<ul style="list-style-type: none"> <li>• Minimum 7 years general experience in the similar position</li> <li>• Minimum 2 years specific experience in the similar field</li> </ul>

#### 07. Supporting Staff

The consultant team may employ supporting staff for the supervision of the sub-projects and operation of the project office, if required. The supporting staff may include:

- 1) Inspector for quality control
- 2) Data collector
- 3) Typist


#### 08. Cost Estimation

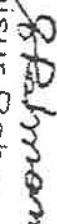
Particulars	Key Expert		Non-Key Expert		Total (in lakh Taka)
	MM	BDT (in lakh Taka)	MM	BDT (in lakh Taka)	
Remuneration Expenses		16		60	80
Reimbursable Expenses				20	47
<b>Total</b>					<b>127</b>

#### 09. Procurement Method

The consulting firm will be selected according to the quality- and cost-based selection (QCBS) method under national competing bidding (NCB) process described in IDA Guidelines on the Selection of Consultants, January 2011, Revised July (2014). A weighting system of 80% for quality and 20% for cost will be applied.

  
 মহাসচিব (প্রোগ্রামিং ও সিস্টেম)  
 প্রোগ্রামিং সিস্টেম  
 বাংলাদেশ (স্বাধীনতা গণতন্ত্র ও ন্যায়বিচার)

  
 মহাসচিব (প্রোগ্রামিং ও সিস্টেম)  
 প্রোগ্রামিং সিস্টেম  
 বাংলাদেশ (স্বাধীনতা গণতন্ত্র ও ন্যায়বিচার)

  
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 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh





PMC 19: Design, Implementation Support and Systems for IIR Policy and Financial  
Management Policy of BEZA

Terms of Reference

1. Objective of the Assignment:

The assignment aims to:

- Develop a modern and efficient human resources (HR) policy plan based on best practice EZ authorities and Bangladesh public institutions. Special consideration to be analyzed will be the institutional options to best reflect organization autonomy. Concurrently the plan will include recommended governance criteria, institutional legal mandates and agency nature, operations segmentation and specialization, personnel training based on needs assessment over time, recruitment criteria, salaries levels, reward systems options, organization chart review to ensure grouping of compatible functions, legal review and organizational strategic planning.

- Develop a short mid and long term financial plan for BEZA that will define the agency's resource liabilities and assets. Of particular important will be the definition of a land pricing strategy that will consider BEZA's social vision without jeopardizing its sustainability over time. Financial plan will include potential sources of income including a treasury function and how to manage and maximize. Optional sourced of income by BEZA's provision of optional value service to its client base should be analyzed categorizing into areas the present high and/or low opportunities. Definition of financial conditions for projects such as pay back, IRR and economic returns. Firm should develop a financial model that will include all financial variables, economic impacts, ideal debt/equity split as applicable the model should project results over a minimum of 20 years

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Anisur Rahman

Director

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2. Scope of Works:

1. *Human Resources Policy*

- a) Conduct a thorough as is organization analysis indicating strong/weak points and areas needing adjustment. Analysis should include current org chart functional groupings, authority flows, accountabilities and reporting mechanism. Provide a report of the assessment and deliver a presentation to BEZA's management on findings and recommendation
- b) Develop an organization benchmark study of similar agency in and extra regionally. firm will provide jurisdictions recommended for benchmark for BEZA's management approval
- c) Prepare and implement, in conjunction with BEZA, a change management plan to include: Readiness for organization change, internal communication strategy, reporting on progress and report on results and moving forward recommendation
- d) Conduct a thorough org chart audit recommending areas that need change, modification or elimination. Provide a re-engineered org chart for BEZA's management comments and



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suggestions in order to finalize and implement. Include a section on PPP developed zones that includes, tender preparation, conduction and adjudication as well as contract management. Org chart should include specific management structures for sites and corporate controls on those operations

c) Prepare comprehensive job descriptions for each position in the org chart detailing among others: Position, officer's name, reporting point, responsibilities, relations within the org chart other positions and qualification (Please see Annex 1 of these TORs for a job description template

d) Prepare a short, mid and long term training program based on agency's needs and personnel capacity building training plan should include, at a minimum, a projected budget for training. Prepare an deliver a presentation to BEZA's management for their comments and approval

e) Conduct a strategic plan workshop with BEZA to define the way forward for the organization. Workshop should visit the important of an impactful vision, mission and values to the organization. It should also articulate the agencies goals for the next 3-5 years, define inputs needed, outputs and outcomes. Based on workshop results prepare a multi-year organization plan that includes all aspects of the agency within the strategic vision. Plan should include institutional monitoring task and responsible and included in the new org chart as a strategic monitoring function at the highest agency level possible.

## 2. Financial Management Policy

a) Conduct an assessment of BEZA's current financial position based on current investment, expenditure and revenue projections. Prepare and deliver a presentation to BEZA's management recommending potential adjustments and opportunities

b) Benchmark financial area of key international benchmarks to determine standing of BEZA vis-à-vis other competing agencies

c) Provide a financial analysis of priority projects in terms of development costs, development strategies to consider to alleviate financial outlets over time, time to assign risks uptake in PPP developed zones to the private partner, projected income derived from provision of value service to BEZA's client base and estimated costs in setting-up these "profit centers" with projected incomes

d) Prepare a land cost strategy based on current EZ project under development and/or to be developed. Strategy should consider infrastructure availability or lack thereof, minimum extension of land to be released to users and/or developers based on performance conditions, site management costs

e) Develop a financial model that includes all financial costs



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Director

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স্বরাষ্ট্র মন্ত্রণালয়, ঢাকা  
স্মারকসংখ্যা (সি.এম.ও.)/সি.এম.ও.  
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তারিখঃ ১৩/০৮/২০১৬

- including debt/equity financing, consider all income generated by each EZ project along with the economic returns. Financial model should be a key inputs for business prospective of each EZ project
- f) Develop a budget monitoring mechanism to measure expenditures vs original plans and results of outlays
  - g) Prepare a yearly budget planning template and conduct a tutorial on its value, how to apply and monitor on a periodic basis

**3. Deliverables:**

- a) An organization development plan covering three years at a minimum and including all key areas of personnel management, detailing each area, functional adjustments, training needs, governance conditions, agency revised and upgraded institutional performance
- b) An executed change management plan detailing areas needing modifications, upgrading and/or elimination. Plan should include an internal communication strategy divided by staff functional grouping and generic agency initiatives
- c) A three year strategic plan with details on performance needs, inputs, expected outputs and outcomes by area, monitoring frequency across the agency to determine progress, lack thereof and remedies
- d) A functionally compatible org chart with specific job description of all personnel and a tutorial workshop for BEZA personnel to explain how the new policies will bring value to the agency and to its personnel
- e) A holistic land pricing strategy that ensures BEZA's sustainability and continuous successful operations
- f) Define a unit cost for all inputs of construction and development in order to guide BEZA tender processes and ensure realistic budget submitted by users/developers
- g) A real estate and service financial model to project results of each EZ project to be developed by BEZA or private developers and PPP zones. Costs will be based on Bangladesh construction and development cost. Model will be based on development of land by stages and tying further release of land to users based on their performance. Minimum/maximum plot of lands will be defined as a policy based on reasonable development schedules submitted by users/developers
- h) Develop a yearly profit/loss statement over three-five years to determine BEZA's financial performance
- i) Develop tutorial on how to use the financial model, its value and relevance to development and the specific use by BEZA staff before releasing land

4. Contract

18 months

Duration:



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**5. Expertise Required:**

The consultant team will consist of both Key Expert and Non-Key Expert and will be engaged for the duration of consulting services. Key Expert and Non-Key Expert required to execute the Consulting Services are summarized in the following table:

**Table: Key Experts and Indicative Expected Man-Months (MM)**

SN	Position	No	MM	Total
1	Team leader	1	12	12
2	HRD Expert	1	10	10
3	Financial Analyst	1	10	10
4	Communication Expert	1	4	4
5	Legal Expert	1	6	6
<b>Total</b>		<b>5</b>	<b>42</b>	<b>42</b>

**Table: Non-Key Experts and Indicative Expected Man-Months (MM)**

SN	Position	No	MM	Total
1	Jr. HRD Expert	1	10	10
2	Jr. Financial Analyst	1	10	10
<b>Total</b>		<b>2</b>	<b>20</b>	<b>20</b>

N. B.: Firm may proposed additional Non-Key expert as per requirement

**6. Qualification and Experiences**

The following tables provide minimum qualification for educational background and professional experiences.

**Table: Qualification of Key Experts and Non-Key Experts**

SN	Position	Qualification	Experience
<b>Key Experts:</b>			
K1-1	Team leader (Int.)	Master's degree in business administrator/Economics/ Development study or any other similar field	<ul style="list-style-type: none"> <li>Minimum 20 years general experience in the similar position</li> <li>Minimum 8 years specific experience in the similar field.</li> </ul>
K-2	HRD Expert (Int.)	Master's degree in Business Administrator including Professional degree in HRD or any other similar field	<ul style="list-style-type: none"> <li>Minimum 10 years general experience in the similar position</li> <li>Minimum 5 years specific experience in the similar field</li> </ul>
K1-3	Financial Analyst (Int.)	Master's degree in Business Administrator including FCA	<ul style="list-style-type: none"> <li>Minimum 15 years general experience in the similar position</li> <li>Minimum 8 years specific experience in the similar field</li> </ul>
K1-4	Communication Expert	Master's degree in Development Study	<ul style="list-style-type: none"> <li>Minimum 15 years general experience in the similar position</li> <li>Minimum 8 years specific experience in the similar field</li> </ul>
<b>Non-Key Experts:</b>			

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 প্রকল্প পরিচালক (সি.এস.সি.)



SN	Position	Qualification	Experience
KN-1	Jr. HRD Expert	Master's degree in Business Administrator including professional degree in HRD or any other similar field	<ul style="list-style-type: none"> <li>• Minimum 5 years general experience in the similar position</li> <li>• Minimum 2 years specific experience in the similar field</li> </ul>
KN-2	Jr. Financial Analyst	Master's degree in Business Administrator including FCA	<ul style="list-style-type: none"> <li>• Minimum 5 years general experience in the similar position</li> <li>• Minimum 2 years specific experience in the similar field</li> </ul>

#### 7. Supporting Staff

The consultant team may employ supporting staff for the supervision of the sub-projects and operation of the project office, if required. The supporting staff may include:

- 1) Inspector for quality control
- 2) Data collector
- 3) Typist

#### 8. Cost Estimation

Particulars	Key Expert		Non-Key Expert		Total (in lakh Taka)
	MM	BDT (in lakh Taka)	MM	BDT (in lakh Taka)	
Remuneration Expenses		42		20	220
Reimbursable Expenses					47
<b>Total</b>					<b>267</b>

#### 9. Procurement Method

The consulting firm will be selected according to the quality- and cost-based selection (QCBS) method under international competing bidding (ICB) process described in IDA Guidelines on the Selection of Consultants, January 2011, Revised July (2014). A weighting system of 80% for quality and 20% for cost will be applied.



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**PMC 20: Supply of Software, Security Solution (Software), CRM and  
development of Web Application for BEZA and BSMSN**

**Terms of Reference**

**1. Objectives of Consulting Services**

BEZA intends to procure the services of a consultancy firm to assist with IT and software solutions such as Word Pressing software, Drawing Design software, GIS Based system, Security Solution, Customer Management Solution, Project Management Solution, Web tool & solutions etc. to improve and secure work environment and enhance customer experience. The project should be useful for several categories of investors, both local and foreign, who are interested in the One-Stop-Services being offered by BEZA in BSMSN

**2. Specific objectives of the Firm:**

- Supply, Install, Commission different software solution,
- Develop Web Portal and tools for BSMSN
- Develop Web Portal and tools for different IZs
- Training on Software and Systems including CRM and Project Management.
- Provide High Level Technical training to BEZA Core IT professional including access to certification material and vouchers.

**3. Scope of Consulting Services**

The scope of work is as follows:

- (i) **Supply, Install, Commission Different Software Solution:** The service provider will supply original software licenses of required software's as per BEZA, install and commission. In-depth training to end use and IT should also be provided.
- (ii) **Project Management System:** The service provider will provide and install project management tools and techniques (i.e. MS Project) for efficient and smooth management of project. MSP solution should also include on-premise server for synchronization. End user hands on training should be given to users.
- (iii) **Develop BEZA Web Portal, BSMSN web portal and different EZs :** Web Portal and tools will be developed for BSMSN and different EZs as per BEZA'S requirement. Portal would be CMS based open source solutions and hosted on premise. User end training for data up gradation and management should also be included.
- (iv) **Training on Software and Systems:** The service provider will provide training Office package, CRM, PMS etc.
- (v) **Maintenance:** The service provider will provide one-month support service after completing the full tasks. After the support period BEZA and World Bank team will decide to make an agreement with the service provider based on their activities and



  
 Director  
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- performance. During this period, the service provider will also be responsible for the following technical support:
- Update patches
  - Fix bugs
  - Make post-deployment changes to the system based on feedback from user experience

#### 4. Expected Time Schedule

The total duration of consulting services will be **24 months**. The implementation schedule expected is as shown in Table.

Key Activities	Duration in Months
Invitation of EOI	15/05/2021
Issue of RFP	24/06/2021
Commencement of Consulting Services	23/08/2021
Termination of Consulting Services	31/09/2023

#### 5. Expertise Required

The consultant team will consist of both Key Expert and Non-Key Expert and will be engaged for the duration of consulting services. The team of key consultants is expected to be comprised of a Team Leader (In), Front End (HTML/ CSS) Engineer, Web developer, Web Designer, PMS and CRM Trainer and Automation Expert.

Table: Key Experts and Indicative Expected Man-Months (MM)

SN	Position	No	MM	Total
1	Team Leader (International)	1	12	12
2	Front End (PHP) Engineer	1	8	8
3	Web developer	1	8	8
4	Web Designer	1	8	8
5	PMS, CRM Trainer and Office	3	8	24
6	Security Expert	1	8	8
7	Content writer and developer	1	8	8
<b>Total</b>		<b>7</b>	<b>76</b>	<b>76</b>

Table: Non-Key Experts and Indicative Expected Man-Months (MM)

SN	Position	No	MM	Total
1	Coordinator	1	24	
2	Automation service provider	1	24	
<b>Total</b>		<b>2</b>	<b>48</b>	<b>48</b>

M.M.: Firm may proposed additional Non-Key expert as per requirement

#### 6. Qualification and Experiences



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*(Signature)*  
সিনিয়র প্রোগ্রামার (সিস্টেম এনালিসিস)  
সিস্টেম এনালিসিস

The following tables provide minimum qualification for educational background and professional experiences.

The team of key consultants is expected to be comprised of a Team Leader, Front End (HTML/ CSS) Engineer, Web developer, Web Designer, PMS and CRM Trainer and Automation Expert.

Table: Qualification of Key Experts

SN	Position	Qualification	Experience
1	Team Leader	Master's or of Science (BSc) in Computer Science Engineering, Bachelor of Science (BSc) in Computer Science, Bachelor of Science (BSc) in Computer Engineering	<ul style="list-style-type: none"> <li>Minimum 15 years general experience in the similar position</li> <li>Minimum 8 years specific experience in the similar field</li> <li>Extensive experience in Server Management, International payment, Project management, Software Development, web-based application development &amp; management;</li> </ul>
2	Front End (PHP) Engineer	(BSc) in Computer Science and Engineering or Computer Science	<ul style="list-style-type: none"> <li>Minimum 5 years specific experience in the similar field.</li> <li>Extensive experience in Server Management, International payment, Project management, Software Development, web-based application development &amp; management;</li> <li>Strong skills to modify and implement designs generated by others to ensure quality products.</li> <li>Ability to work with PHP, MySQL, Java, jQuery, CSS, Ajax and CMS based solution</li> </ul>
3	CRM developer	(BSc) in Computer Science and Engineering or Computer Science	<ul style="list-style-type: none"> <li>Minimum 5 years specific experience in the similar field</li> <li>Practical experience of working with CRM i.e Sugar CRM/Suite CRM</li> </ul>
4	Web Designer(Databases)	(BSc) in Computer Science and Engineering or Computer Science	<ul style="list-style-type: none"> <li>Minimum 5 years specific experience in the similar field.</li> <li>Strong skills to modify and implement designs generated by others to ensure quality products.</li> <li>Experience in Core Source Database like SQL, Mongo DB, Maria DB.</li> <li>Experience working with un-structured Data (Bigdata)</li> </ul>
5	PMS & CRM Trainer	Bachelor	<ul style="list-style-type: none"> <li>Minimum 5 years general experience as PMS trainer</li> <li>Valid PMP certification</li> </ul>
6	Security Expert	(BSc) in Computer Science and Engineering or Computer Science	<ul style="list-style-type: none"> <li>Minimum 5 years specific experience in the similar field.</li> <li>Any of the certification CISSP/CHH</li> </ul>
7	Content writer and developer	Masters in English Literature	<ul style="list-style-type: none"> <li>Minimum 5 years specific experience in the similar field.</li> <li>Experience in web content writing</li> </ul>

\* Signed CVs of Key Experts should be attached. Non-Key Expert will propose by the firm

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 সিস্টেম এনালিস্ট, বাংলাদেশ

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**Ahmed Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh





### 7. Supporting Staff

The consultant team may employ supporting staff for the supervision of the sub-projects and operation of the project office, if required. The supporting staff may include:

1) Typist

### 8. Reporting

Within the scope of consulting services, the Consultant shall prepare and submit reports and documents to the Employer, as shown in Table. The Consultant shall provide hard and electronic copy of each of these reports.

Table: List of submission report

Sl	Type of Report	Time Frame	No. of copies
1	Inception Report	<ul style="list-style-type: none"> <li>Within 20 days after commencement of the services with presentation at project office including A list of all meetings and interviews with meeting notes and another list of studies and documents examined, gap analysis, work plan will be provided to BEZA.</li> </ul>	07
2	Quarterly Progress Report	<ul style="list-style-type: none"> <li>Quarterly with presentation at project office</li> </ul>	05
3	Content Design Document (high level design, data model), user manuals (including screenshots) and any other documentation of the assignment have to be completed and handed over to the user.	<ul style="list-style-type: none"> <li>Within 02 months of the contract</li> </ul>	-
4	Present demo of the website, BEZA Web Portal, BSMSN and Tourism park	<ul style="list-style-type: none"> <li>Within 04 months of the contract</li> </ul>	-
5	Demo of File Sharing and collaboration system	<ul style="list-style-type: none"> <li>Within 04 months of the contract</li> </ul>	-
6	Project Management System installed and operational	<ul style="list-style-type: none"> <li>Within 06 months of the contract</li> </ul>	-
7	Training on Software and Systems	<ul style="list-style-type: none"> <li>During the project period</li> </ul>	-
8	Provide Software to BEZA	<ul style="list-style-type: none"> <li>During the project period</li> </ul>	-
9	Develop, Customize and manage CRM system for BEZA	<ul style="list-style-type: none"> <li>During the project period</li> </ul>	-
10	Automation related software develop and service provide to BEZA	<ul style="list-style-type: none"> <li>During the project period</li> </ul>	-
11	Final Report	Final Report	50



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প্রোগ্রামিং বিভাগ  
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সিনিয়র সহকারী প্রোগ্রামার  
প্রোগ্রামিং বিভাগ  
স্বপ্নাঙ্গনা (সি.এস.ইসি.এস.ও. অফিস)

9. Cost Estimation

Particulars	Key Expert		Non-Key Expert		Total (in lakh Taka)
	MM	BDT (in lakh Taka)	MM	BDT (in lakh Taka)	
Remuneration Expenses	76	200	48	48	248
Reimbursable Expenses					250
<b>Total</b>					<b>498</b>

10. Procurement Method

The consulting firm will be selected according to the quality- and cost-based selection (QCBS) method under national competing bidding (NCB) process described in IDA Guidelines on the Selection of Consultants, January 2011, Revised July (2014). A weighting system of 80% for quality and 20% for cost will be applied.

*QCBS*  
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 সরকার (এস কারে এবং ও সরকার)



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 Prime Minister's Office  
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*Rahman*  
 (Official stamp and signature area)

## PMC 21: Detail design of Data Center (Lay out, Civil Structure, Topology, Active & Passive part of Data Centre including Networking, Power, and Cooling etc.) at BSMSN

### Terms of Reference

#### 1. Objectives of Consulting Services

BEZA has a vision to provide investors One Stop Service (OSS) via online platform. As a part of the OSS initiative BEZA is already giving 19 services to the investors using online platform with a final goal to give all the services via online system. All these service providing platform require backbone infrastructure like data center. To ensure 99.9% uptime and protect any kind of data loss the systems should have multiple active-active DC and DR sites.

BSMS will be a smart industrial city, all the smart solutions like Security –surveillance, Fire Detection, Parking, Environment Monitoring etc. will also require large number of processing power and storage. BSMSN will host all it service and store data on a local state of the art datacenter.

#### 2. Specific objectives of the Firm

- Conduct workshop for in-depth analysis of smart solution and OSS system BEZA is giving or planning to give.
- Calculate requirement of processing power and storage.
- Propose active-active DC and DR topology.
- Propose land location for core DC in BSMSN
- Detail design of Datacenter including topology, civil structure, power, cooling, networking, security and other required facilities.
- Prepare bu:iget and BOQ.

#### 3. Scope of Consulting Services

The scope of work is as follows

- I. Design of the Data Centre
- II. Physical Infrastructure comprising of Civil, Electrical & Mechanical works required to build a Data Centre. This shall also include site preparation to make it suitable for setting up a tier III Data Centre.
- III. Multi-layer security infrastructure to prevent unauthorized access to the Data Centre.
- IV. Networking and other associated IT Components in the Data Centre.
- V. 24 \* 7 monitoring and management system design.
- VI. Prepare BOQ and Budget for all active and passive components and civil work.
- VII. Physical infrastructure components such as UPS and Air-Conditioning System, Fire Detection and Suppression System, Lighting system, Rodent Control, Water leakage detection system, CCTV Surveillance systems, Access Control System, Electrical Cabling and Network Cabling etc.
- VIII. IT Infrastructure components such as necessary Servers, Databases, Networking & Security components, Storage media, Software and other IT components required for managing the data center.



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IX.

Total DC area should have hosting space for 300 standard racks and 30% space for expansion. The Prime Vendor is expected to size the infrastructure and lay it out accordingly. There will be following four zones single/ separate building as detailed below:

- Zone A – This DC Server room area would host server racks, storage racks and networking component. The area required for Zone A should be sufficient enough to accommodate 150 racks
- Zone B – Comprises of BMS & Management area
- Zone C – Comprises of room for power panels, AHU, UPS, Fire suppressions, etc.
- Zone D – Coolant and chilling unit area
- Zone E: Store Room
- Zone F- Office and rest area

X.

The general requirement for the Data Centre is mentioned here after and system wise requirement / scope of work / specification are as per the details below. The Prime Vendor must adhere to the design criteria and specification.

- All Civil & Interior work and furnishing works
- Earthing & wiring.
- AMC of existing UPS System or implementation of new UPS
- Integration with existing DG Sets if any
- Adequate Lighting (Preferably LED)
- Electrical works – All major electrical work
- HVAC
- Precision Air conditioning
- Comfort Air conditioning
- Intelligent Smoke & Fire Detection system
- Fire Suppression System
- Heat detector
- Electromagnetic door lock
- Biometric Access Control System for the server room
- Proximity card reader solution
- Access Card
- CCTV based video surveillance system.
- Automatic water Leak Detection system.
- Rodent Repellent System
- Building Management system
- Networking (passive component for LAN cabling work)
- PA System
- KVM switches, if required
- Any other items required for this purpose.

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The design should include civil works, electrical and data cabling, wiring and connections, Precision Air conditioning and comfort air-conditioning.

#### 4. Expected Time Schedule

The total duration of consulting services will be 6 months. The implementation schedule expected is as shown in Table.

Key Activities	Duration in Months
Invitation of FOI	15/07/2021
Issue of RFP	24/08/2021
Commencement of Consulting Services	23/09/2021
Termination of Consulting Services	23/03/2022

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**Rahman**  
অতিরিক্ত সচিব (প্রশাসনিক)  
প্রধানমন্ত্রীর কার্যালয়  
১০১, গণপ্রজাতন্ত্রী বাংলাদেশ সরকার  
১০০, ঢাকা-১০০

### 5. Expertise Required

The consultant team will consist of both Key Expert and Non-Key Expert and will be engaged for the duration of consulting services. The team of key consultants is expected to be comprised of a Team Leader (Int), Front End (HTML/ CSS) Engineer, Web developer, Web Designer, PMS and CRM Trainer and Automation Expert.

Table: Key Experts and Indicative Expected Man-Months (MM)

SN	Position	No	MM	Total
1	Team Leader (International)	1	6	6
2	Data Center Expert	3	18	18
3	Architect	1	6	6
4	Civil Engineer	2	6	12
5	Structural Engineer	2	6	12
6	Electrical Engineer	2	6	12
7	Procurement Specialist	1	4	4
8	Planner	1	6	6
<b>Total</b>		<b>13</b>		<b>76</b>

Table: Non-Key Experts and Indicative Expected Man-Months (MM)

SN	Position	No	MM	Total
1	Coordinator	1	6	6
2	Network Engineer	2	6	12
3	Security Engineer	2	6	12
4	Server Expert	2	6	12
5	Cooling Expert	1	6	6
<b>Total</b>		<b>8</b>		<b>48</b>

N.B.: Firm may proposed additional Non-Key expert as per requirement.

### 6. Qualification and Experiences

The following tables provide minimum qualification for educational background and professional experiences.

The team of key consultants is expected to be comprised of a Team Leader, GIS Expert, Content Writer, Legal Expert,

Table: Qualification of Key Experts

Position	Qualification	Experience
Team Leader	Master's or of Science (BSc) in Computer Science or Bachelor of Science (BSc) in Computer Science, Bachelor of Science	<ul style="list-style-type: none"> <li>Minimum 15 years general experience in the similar position</li> <li>Minimum 8 years specific experience in Data Center Design</li> <li>Upline Certification. With Experience</li> </ul>

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প্রধানমন্ত্রীর কার্যালয়  
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*Abdullah*

সংসদ পরিদপ্তর ১৫৪১/১৮/১৬  
সংসদ (৩য় তল)  
১০০, ১০০, ঢাকা-১০০  
সচিবালয়, বাংলাদেশ

SN	Position	Qualification	Experience
2	Data Center Expert	(BSc) in Computer Engineering Bachelor of Science (BSc) in Computer Engineering, Bachelor of Science (BSc) in Computer Science, Bachelor of Science (BSc) in Computer Engineering	of Tite 4 or 3 Datacenter design <ul style="list-style-type: none"> <li>Minimum 8 years specific experience in Data Center Design</li> <li>Uptime Certification. With Experience of Tite 4 or 3 Datacenter design</li> <li>Experience in Virtualized server, Security, Networking</li> </ul>
3	Architect	Certified Architect	<ul style="list-style-type: none"> <li>Minimum 10 years general experience in the IT infrastructure design</li> <li>Minimum 5 years specific experience in Datacenter Design</li> </ul>
4	Civil Engineer	BSc in Civil	<ul style="list-style-type: none"> <li>Minimum 10 years general experience in the similar position</li> <li>Minimum 5 years specific experience in the similar field.</li> </ul>
5	Structural Engineer	BSc in Civil	<ul style="list-style-type: none"> <li>Minimum 10 years general experience in the similar position</li> <li>Minimum 5 years specific experience in the similar field.</li> </ul>
6	Electrical Engineer	BSc in EE or EEE	<ul style="list-style-type: none"> <li>Minimum 10 years general experience in the similar position</li> <li>Minimum 5 years specific experience in the similar field.</li> </ul>
7	Procurement Specialist	BSc in CSE or FE or BE or Mechanical	<ul style="list-style-type: none"> <li>Minimum 10 years general experience in the similar position</li> <li>Minimum 5 years specific experience in Datacenter related Procurement</li> </ul>
8	Urban Planner	Bachelor degree in Urban Planning	<ul style="list-style-type: none"> <li>Minimum 10 years general experience in the similar position</li> <li>Minimum 5 years specific experience in the similar field.</li> </ul>

\* Signed CVs of Key Experts should be attached. Non-Key Expert will propose by the firm.

#### 7. Supporting Staff

The consultant team may employ supporting staff for the supervision of the sub-projects and operation of the project office, if required. The supporting staff may include:

- 1) Typist

#### 8. Reporting

Within the scope of consulting services, the Consultant shall prepare and submit reports and documents to the Employer, as shown in Table. The Consultant shall provide hard and electronic copy of each of these reports.



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Table: List of submission report

SL	Type of Report	Time Frame	No. of copies
1	Inception Report	Within 20 days after commencement of the services with presentation at project office including A list of all meetings and interviews with meeting notes and another list of studies and documents examined, gap analysis, work plan will be provided to BEZA.	07
2	Quarterly Progress Report	Quarterly with presentation at project office	05
3	Presentation on Data Centre Location and Topology	Within 01 months of the contract	-
4	Detail Design of Datacenter	Within 04 months of the contract	-
5	BoQ Preparation and finalization	Within 05 months of the contract	-
6	Final draft report submission and presentation	Within 06 months of the contract	-
7	Final Report and Detail Design Submission	Within 06 months of the contract	-

**9. Cost Estimation**

Particulars	Key Expert		Non- Key Expert		Total (in lakh Taka)
	MM	BDT (in lakh Taka)	MM	BDT (in lakh Taka)	
Remuneration Expenses	76	150	48	40	190
Reimbursable Expenses					30
<b>Total</b>					<b>220</b>

**10. Procurement Method**

The consulting firm will be selected according to the quality- and cost-based selection (QCBS) method under national competing bidding (NCB) process described in IDA Guidelines on the Selection of Consultants, January 2011, Revised July (2014). A weighting system of 80% for quality and 20% for cost will be applied.

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১৫/০৬/১৪  
 প্রকল্প পরিচালক  
 জাতীয় প্রকল্প পরিচালনা  
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*Pratik*  
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**PMC 22: Selection of Consultancy Services Firm for Media Content  
Creation and Marketing Services**

**Terms of Reference**

**1. Objectives of the Assignment**

BEZA intends to procure the services of a local consultancy services firm to assist with the creation of content for media and other marketing related services. The terms of reference is aimed to invite proposals from an advisor representing a team of suitably qualified and experienced media and marketing professionals to help BEZA. The main objective of the firm is to promote Bangladesh and BEZA as a new investment destination and tourist destination in the world with unique resources.

**2. Scope of Work**

The TVCs, publications and other marketing and media content related tasks needs to be designed and developed in close collaboration with the PRIDI Project Implementation Unit (PIU) of BEZA and World Bank.

The following are the major **scope of works** under this TOR:

- Social media packs prepared for all key events, dates, launches, etc and shared with stakeholders, where appropriate.
- Evaluation of current and emerging digital marketing trends and technologies and provide leadership and perspective to adapt these in BEZA's campaigns and platforms
- Preparation required documents print & electronic media, publications, marketing & promotional materials
- A concept note, contents and script in both English and Bengali with key messages of the video for approval before filming;
- A finalized script for the documentary and TVC including inputs from the BEZA and World Bank and the key stakeholders and potential audiences;
- Present draft documentary to BEZA, World Bank, stakeholders and potential audiences at the end of the field visit to BSMSN and incorporation of comments;
- Produce an edited video recording of the scenarios captured, and the footage of the recorded stories;
- Present 5 10 minutes video (5 videos) in two versions: one with English subtitles and hand over 2 master copies of each version;
- Present 2 minute videos (3 videos) in two versions: one with English subtitles and hand over 2 master copies of each version compatible for broadcasting; publishing/posting in electronic and social media;
- Present 1 minute video(3 videos) in two versions: one with English subtitles and hand over 2 master copies of each version compatible for broadcasting; publishing/posting in electronic and social media;
- Present 30 second long 5 TVCs of 5 different types in two versions: one with English subtitles and hand over 2 master copies of each version compatible for broadcasting; publishing/posting in electronic and social media;
- Prepare all types of required printing media content and materials as well as publications.
- After developing a universe audience targets defined by specific roles and potential benefits to the BEZA's EZ development, proactively create editorial content in clear and attractive formats (stories, photos, advocacy images, contests, campaigns, audio, video, infographics, etc.) in cooperation with BEZA management and adapt for media pitching; web and social media; defining frequency of posting regularly to respective channels;
- Continuously update and implement BEZA's digital engagement strategy by target audience. Maintain a web and social media calendar and content plans of themes and all upcoming coverage schedules



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৪৬০  
স্বরাষ্ট্র মন্ত্রণালয়  
গণপ্রজাতন্ত্রী বাংলাদেশ



- according to the calendar.
- Prepare attractive and well written social media packs for flagship events, initiatives, campaigns.
- Actively engage with online audiences through social media channels;
- Prepare required documents print & electronic media, publications, marketing & promotional materials.
- Consultation with BIZZA Project team, World Bank officials and other stake holders such as industry associations to get a clear understanding of the purpose for creating any TVC, documentary, identify the target audience, and develop the key messages;
- Prepare a concept note, content of the Print/ audio/ audio visual and the script with key messages and get approval from PIU;
- Video shooting and editing as required; present the first/rough cut of the video for review and inputs; share the draft video with the PIU to get their feedback; Revise the video based on inputs from the PIU
- Field visit to BSMSN for video shots of development of the EZ and some of the operational foreign and local companies after consultation with the stakeholders;
- Test presentation of the developed draft video in the community and also in presence of the key stakeholders as well as potential audiences. Submit revised video in Bangla and English as required.
- Submit the final video documentary in DVD/compatible/ other required formats
- Conceptualization and implementation of activities/campaigns to promote and increase followers, fans, likes, shares, visits, engagement, downloads across BIZZA's digital platforms.
- Proper and Timely documentation of all the existing data, reports, advertisements, news contents, photos, videos, documentaries and other media related contents.
- Maintain and preserve hard copies of all the printed contents and produce a monthly report on BEZA's marketing activities.
- Twenty (20) copies of DVDs of the video documentary (including 10 minute, 2 minute, 1 minute and 30 second versions) branded with the PRIDE project name to be received.
- BEZA mobile app and Management, maintenance/lookup and improvement of the BEZA mobile app.
- Preparation monthly and end-of contract reports and analytics on all of the managed platforms and submit data collected from various digital marketing activities conducted.

### 3. Expertise Required

The curriculum vitae for the Key Experts and any additional staff should contain information of the assignments they have successfully completed within the last five years, with complete names and addresses of the clients and the name and contact information of their immediate supervisors. The procuring entity may contact these clients of the first ranked firm for verification of the information provided by the consultant, prior to signing the contract.

The consultant team will consist of Key Expert and will be engaged for the duration of consulting services. The team of key consultants (International) is expected to be comprised of a Creative Director, Copywriter, Art Director, Director, Director of Photography (DOP) and Production Designer/Manager and Archive manager

Table: Key Experts and Indicative Expected Man-Months (MM)

SN	Position	No	MM	Total
1	Creative Director	1	15	15
2	Copywriter	1	15	15
3	Art Director	1	15	15
4	Director	1	15	15
5	Director of Photography (DOP)	1	15	15
6	Production Designer/Manager	1	15	15
7	Archive Manager	1	20	20
Total			7	110



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N.B : Firm may proposed additional Non-Key expert as per requirement

#### 4. Qualification and Experiences

The following tables provide minimum qualification for educational background and professional experiences.

Table: Qualification of Key Experts and Non-Key Experts

SN	Position	Qualification	Experience
1	Creative Director	Bachelor Degree from any recognized university	<ul style="list-style-type: none"> <li>At least 10 years' Experience as the Creative Director in any advertising agency in Bangladesh</li> <li>Experience in at least 5 (Five) Television Commercials/Documentary in Tourism as the CD/ACD</li> <li>Experience as the CD/ACD to make 05 (five) Television Commercials/Documentary</li> </ul>
2	Copywriter	Bachelor Degree from any recognized university	<ul style="list-style-type: none"> <li>At least 8 years' Experience as the Copywriter in any advertising agency in Bangladesh</li> <li>Experience in at least 4 (Four) Television Commercials/Documentary in Tourism as the Copywriter</li> <li>Experience as the Copywriter to make 05 (five) Television Commercials/Documentary</li> </ul>
3	Art Director	Bachelor Degree from any recognized university	<ul style="list-style-type: none"> <li>At least 5 years' Experience as the Art Director in any advertising agency in Bangladesh</li> <li>Experience in at least 2 (Two) Television Commercials/Documentary in Tourism as the Art Director</li> <li>Experience as the Art Director to make 05 (five) Television Commercials/Documentary</li> </ul>
4	Director	Bachelor Degree from any recognized university	<ul style="list-style-type: none"> <li>At least 10 years' Experience as the Director in direction of making Television Commercial/Documentary</li> <li>Experience in at least 1 (Two) Television Commercials/Documentary in Tourism as the Director</li> <li>Experience as the Director to make 05 (five) Television Commercials/Documentary</li> </ul>
5	Director of Photography (DOP)	Bachelor Degree from any recognized university	<ul style="list-style-type: none"> <li>At least 5 years' Experience as the Director of Photography in direction of making Television Commercial/Documentary</li> <li>Experience in at least 1 (Two) Television Commercials/Documentary in Tourism as the Director</li> <li>Experience as the DOPs to make 05 (five) Television Commercials/Documentary</li> </ul>
6	Production Designer /Manager	Bachelor Degree from any recognized university	<ul style="list-style-type: none"> <li>At least 5 years' Experience as the Production Designer/Manager in of making Television Commercial/Documentary</li> <li>Experience in at least 1 (Two) Television Commercials/Documentary in Tourism as the Production Manager</li> <li>Experience as the Production Designer to make 05 (five) Television Commercials/Documentary</li> </ul>



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SN	Position	Qualification	Experience
7	Archive Manager	Master's Degree from any recognized university	<ul style="list-style-type: none"> <li>At least 10 years' Experience as the archive manager in making Television Commercial/Documentary</li> <li>Experience as the Archive management</li> </ul>

N.B.: Firm may propose additional Non-Key expert as per their requirement

#### 5. Supporting Staff

The consultant team may employ supporting staff for the supervision of the sub-projects and operation of the project office, if required. The supporting staff may include:

- 1) Inspector for quality control
- 2) Data collector
- 3) Administrator
- 4) Video editor
- 5) Cameraman

#### 6. Experience of the firm

The service provider will be required to have the following:

- More than 10 years of experience working in similar field;
- Extensive experience in producing documentaries for national/international organizations with the aim of reaching both local and international audiences;
- Experience in working with the international organizations
- Excellent technical capacities (state-of-the-art filming equipment preferably High Definition) to ensure smooth and high-quality production
- Experience in development information, communication and education materials
- Experience in producing quality TVC and documentaries
- Experience in developing and managing mobile apps
- Experience in print & electronic media as well as publications.
- Experience in marketing & promotional activities.

The special terms and conditions are:

- All material and footage will remain the property/copyright of the BEZA and PRIDE Project;
- All products to be in line with the Government of Bangladesh rules and regulations, including correct use of BEZA and PRIDE project branding and logos[1].

#### 7. Reporting Requirements

The winning firm will report project progress to the Project Director through monthly progress reports. The team will prepare the following reports in English and Bangla and submit in the number of copies as per direction of Project Director. All reports submitted must have signatures of the author, checker and approver, with seals of the consulting firm. Each report will be accompanied by an electronic version (i.e. soft copy). Electronic copies should be transferable to other devices.

#### 8. Tentative Duration of the Assignment



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 মহানগরী কেমিসার  
 কেমিসার  
 সরকার (সে. ক্র. ১৪ ১৪৯৯০)

*Rashed*  
 সিনিয়র সিনিয়র কেমিসার  
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 সিনিয়র কেমিসার  
 সরকার (সে. ক্র. ১৪ ১৪৯৯০)

The tentative milestones and duration for the project are the following:

- Tentative date of commencement of assignment is **October 2021**; and
  - Duration of the assignment will be **Four (4) years**.
- 9. Deliverable**

Within the scope of consulting services, the Consultant shall prepare and submit reports and documents to the Employer, as shown in Table. The Consultant shall provide hard and electronic copy of each of these reports.

Table: List of submission report

SL	Name of the Materials	No of Materials	Purposes
1	Television Commercial (5 TVC)	<ul style="list-style-type: none"> <li>• Economic Zone banding highlighting BEZA's initiative</li> <li>• Nation Branding</li> <li>• highlighting prime attractions and resources of Bangladesh</li> </ul>	<ul style="list-style-type: none"> <li>• Nation or Investment Destination branding</li> <li>• Economic Zone Banding</li> </ul>
2	Documentary 5-10 Minutes duration (5 videos)	<ul style="list-style-type: none"> <li>• BEZA activities</li> <li>• Bangabandhu Shilpanagar</li> <li>• Tourism Parks</li> <li>• Private EZs</li> </ul>	<ul style="list-style-type: none"> <li>• Nation or Investment Destination branding</li> <li>• Economic Zone Banding</li> </ul>
3	Documentary 2-5 Minutes duration (5 videos)	<ul style="list-style-type: none"> <li>• BEZA activities</li> <li>• Bangabandhu Shilpanagar</li> <li>• Tourism Parks</li> <li>• Private EZs</li> </ul>	<ul style="list-style-type: none"> <li>• Nation or Investment Destination branding</li> <li>• Economic Zone Banding</li> </ul>
4	Documentary and reporting of the event	<ul style="list-style-type: none"> <li>• All prime events of BEZA</li> <li>• Per year 10-20 events</li> </ul>	<ul style="list-style-type: none"> <li>• As per requirement of project</li> </ul>
5	Video and Photography of the event	<ul style="list-style-type: none"> <li>• All prime events of BEZA</li> <li>• Per year 10-20 event</li> </ul>	<ul style="list-style-type: none"> <li>• As per requirement of project</li> </ul>
6	Final Report	<ul style="list-style-type: none"> <li>• Before 1 months of the contract closing</li> </ul>	20

Note: Master production of Television Commercial/Documentary shall be shot on HD video camera.

**10. Cost Estimation**

Particulars	Key Expert		Non-Key Expert		Total (in Lakh Taka)
	MM	BDT (in Lakh Taka)	MM	BDT (in Lakh Taka)	
Remuneration Expenses	110	120	1.5	40	180
Reimbursable Expenses					32.5
<b>Total</b>					<b>212.5</b>



  
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### 11. Procurement Method

The consulting firm will be selected according to the quality- and cost-based selection (QCBS) method under national competing bidding (NCB) process described in IDA Guidelines on the Selection of Consultants, January 2011, Revised July (2014). A weighting system of 80% for quality and 20% for cost will be applied.

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## PMC 23: Operation and Maintenance Childcare Centers

### Terms of Reference

#### 1. Objectives of Consulting Services

The objective of the consulting services is to prepare, design and develop the childcare centers as per the newly developed Childcare Guideline for BEZA under PRIDE project at RSMNSN.

#### 2. Scope of Consulting Services

The scope of works includes:

- (i) Conducting an employee's needs analysis;
- (ii) Design of childcare facility in identified locations according to the established standards and to meet the stakeholders' needs;
- (iii) Ensure that qualified technical experts monitor the construction phases of the facilities complying with all relevant code of constructions;
- (iv) Conducting stakeholder training/workshops on applicable social, occupational health, safety environmental risks management policies associated with the Project to ensure compliance;
- (v) Preparation of contracts and other relevant legal instruments for setting-up arrangements between participating factories, local authorities, childcare service provider, operators and parents;
- (vi) Supply-side survey to determine the best available cost effective options based on comparative analysis of locally available services with the best international practices;
- (vii) Preparation of required documentation for the procurement of a service firm to operate the childcare center.

The assignment outputs and expected outcomes will include the following:

#### Outputs:

- Needs Assessment that will inform the design of the childcare centers
- Landscape Analysis of childcare options
- Manuals with legal documents and training delivered for the Social/health/safety Specialist
- RFP to bring a childcare service provider on board.

#### Outcomes:

- Better understanding of employers' challenges (including employee preferences, financing, quality childcare provision, etc.) to guide potential options
- Better understanding of necessary quality and standards required to successfully implement childcare solutions
- Better understanding of quality and standards required for successful implementation of childcare solutions
- Increased number of company uptake of quality employer-supported solutions
- Increased investments in quality childcare providers
- Better understanding of costs associated with providing quality childcare in that area



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প্রধানমন্ত্রীর কার্যালয়  
১০, সেরাফোর্ড রোড, ঢাকা-১০০  
১০০, সেরাফোর্ড রোড, ঢাকা-১০০  
প্রধানমন্ত্রীর কার্যালয়  
১০, সেরাফোর্ড রোড, ঢাকা-১০০

The childcare operating firm will design, institute and maintain systems and processes which will support the effective operation and maintenance of quality childcare services in BSMSN. The actual mechanism of childcare center operations will be addressed by the need's analysis outcomes. However, it should meet national and international standards, and be employer-led to effectively realize optimum gains for children, employee and employers. The firm will be invited to propose an operational and maintenance mechanism including financial framework through a request for proposal

- (i) Map target stakeholders/beneficiaries and form an understanding of the current needs;
- (ii) Develop a guideline to inform the day-to-day operations of the childcare center and defines the roles and modalities of engagement with all stakeholders indicating clearly designated roles and responsibilities;
- (iii) Develop estimated budget and costing for operating the childcare services;
- (iv) Develop a sustainable business model and strategy to ensure goals, solutions, and expected outcomes are aligned and integrated. Set a baseline and establish key performance indicators (KPIs) and pre-requisites to meet the performance standards progressively.

The project activities and expected outputs will include the following:

- (i) establishment of guidelines for, *inter alia* financial management, maintenance, legal procedures, insurance, working conditions, safety, security and compensation for employees;
- (ii) establishment of an Advisory Committee (AC), including the preparation of the AC operating guidelines and responsibilities;
- (iii) design and set-up of each childcare center's financial structure, including payments system mechanism and related management information;
- (iv) preparation of a caregiver training manual and other relevant training materials to ensure that caregivers are skilled and regularly trained
- (v) prepare and deliver parent/family caregiver education training programs on the application of childhood development methods, household financial management, prevention of gender-based violence and violence against children and other topics;
- (vi) support the health of children enrolled in the center, including healthy meal preparation and cooking methods;
- (vii) support regular medical check-ups of children enrolled in childcare center and to provide first aid training for staff, including organizing regular visits by local health centers outreach teams;
- (viii) prepare and deliver parent/family caregiver education training programs on the application of childhood development methods;
- (ix) Provision quality control of the childcare center operations and conducting awareness-raising and enrolment campaigns and educating the management of the participating factories on the operations, activities and benefits of the childcare center;
- (x) manage the day to day enrolment of children for childcare services to maximize the use of the center facilities keeping them operational at all times; ;
- (xi) manage and oversee the day to day service delivery quality at the center and ensure safety and other standards are maintained;
- (xii) Maintenance and public disclosure of an effective grievance redress mechanism, in form and substance satisfactory to BFZA requirements.

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### 3. Expected Time Schedule

The total duration of consulting services will be 33 months (10 months for drafting and finalizing of the feasibility study and proposed structure; 23 months for transaction phase including assist in project implementation). The implementation schedule expected is as shown in Table:

Key Activities	Schedule
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Key Activities	Schedule
Invitation of EOI	15/12/2022
Issue of RFP	24/01/2023
Commencement of Consulting Services	25/03/2023
Termination of Consulting Services	31/12/2025

#### 4. Selection Criteria for Firm/ Eligibility

The consultant must have experience in the following areas:

- Have knowledge/ experience in employer-driven child care solutions;
- Have a proven track record of working with employers in the childcare space;
- Developed analytical tools to assess and monitor organizational effectiveness in practice and employer-sponsored child care benefits;
- Knowledge of Bangladesh— familiarity with policies and regulations that affect establishing childcare solutions for employers;
- Experience in questionnaire development and stakeholder consultations;
- Excellent report writing and data interpretation skills.

#### 5. Expertise Required

The consultant team will consist of both Key Expert and Non-Key Expert and will be engaged for the duration of consulting services. The team of key consultants is expected to be comprised of a Team leader / procurement transaction expert (int.), Floating solar expert (int.), Renewable energy (Solar) expert (int.), PPP/project financing (int.) Legal expert (int.), Environmental and Social Specialist (int.).

Table: Key Experts and Indicative Expected Man-Months (MM)

SN	Position	No	MM	Total
1	Team Leader	1	12	12
2	Civil Engineer	1	10	10
3	Architect	1	2	2
4	Child Health Care Specialist	1	3	3
5	Training Specialist	1	5	5
<b>Total</b>		<b>5</b>	<b>32</b>	<b>32</b>

Table: Non-Key Experts and Indicative Expected Man-Months (MM)

SN	Position	No	MM	Total
1	Centre Director	1	20	20
2	Assistant Centre Director:	1	20	20
3	Caregivers (5)	5	20	100
4	Assistant Caregivers (5)	5	20	100
<b>Total</b>		<b>12</b>		<b>240</b>

N. R.: Firm may proposed additional Non-Key expert as per requirement





### 6. Qualification and Experiences

The team of key consultants is expected to be comprised of a Team Leader, Civil Engineer, and Architect & Training Specialist.

Table: Qualification of Key Experts and Non-Key Experts

SN	Position	Qualification	Experience
	<b>Key Expert:</b>		
KI-1	Team Leader	Master's degree in business administrator/ Development studies/Economics/public health or any other similar field.	<ul style="list-style-type: none"> <li>• Minimum 20 years general experience in the similar position</li> <li>• Minimum 8 years specific experience in the similar field.</li> </ul>
KI-2	Civil Engineer	Master's degree in civil engineering.	<ul style="list-style-type: none"> <li>• Minimum 12 years general experience in the similar position</li> <li>• Minimum 10 years specific experience in the similar field</li> </ul>
KI-3	Architect	Bachelor's degree in architect or urban planning.	<ul style="list-style-type: none"> <li>• Minimum 12 years general experience in the similar position</li> <li>• Minimum 10 years specific experience in the similar field</li> </ul>
KI-4	Child Health Care Specialist	Bachelor Degree in Medical Sciences (MBBS) with an advanced degree/diploma in public/child health, psychology.	<ul style="list-style-type: none"> <li>• Minimum 12 years general experience in the similar position</li> <li>• Minimum 10 years specific experience in the similar field</li> </ul>
KI-5	Training Specialist	Master's degree in Social science or development studies or similar field	<ul style="list-style-type: none"> <li>• Minimum 12 years general experience in the similar position</li> <li>• Minimum 10 years specific experience in the similar field</li> </ul>
	<b>Non-Key Expert</b>		
NKE-1	Centre Director	Bachelor degree from any recognized university.	<ul style="list-style-type: none"> <li>• Minimum 5 years general experience in the similar position</li> <li>• Minimum 2 years specific experience in the similar field.</li> </ul>
NKE-2	Assistant Director: Centre	Higher Secondary School Certificate (HSC) with additional training on childcare, child development, improvising learning materials, and the operation of a center.	<ul style="list-style-type: none"> <li>• Minimum 4 years general experience in the similar position</li> <li>• Minimum 2 years specific experience in the similar field.</li> </ul>
NKE-3	Caregivers (5)	Higher Secondary School Certificate (HSC) with additional training in childcare, child development, and improvising learning materials.	<ul style="list-style-type: none"> <li>• Minimum 4 years general experience in the similar position</li> <li>• Minimum 2 years specific experience in the similar field</li> </ul>
NKE-1	Assistant Caregivers (5)	Secondary School Certificate (SSC) passes with training on childcare, child development, and improvising learning materials.	<ul style="list-style-type: none"> <li>• Minimum 4 years general experience in the similar position</li> <li>• Minimum 2 years specific experience in the similar field</li> </ul>



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স্বাস্থ্য মন্ত্রণালয়  
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### 7. Supporting Staff

The consultant team may employ supporting staff for the supervision of the sub-projects and operation of the project office, if required. The supporting staff may include:

- 1) Data collector
- 2) Administrator
- 3) Accountant
- 4) Typist

### 8. Reporting

Within the scope of consulting services, the Consultant shall prepare and submit reports and documents to the Employer, as shown in Table 8-1. The Consultant shall provide hard and electronic copy of each of these reports.

Table: List of submission report

SL	Type of Report	Time Frame	No. of copies
1	Inception Report	Within 20 days after commencement of the services with presentation at project office including A list of all meetings and interviews with meeting notes and another list of studies and documents examined, gap analysis, work plan will be provided to BEZA.	07
2	Needs Assessment Report	Following topics are expected to be covered by the Needs Assessment : <ul style="list-style-type: none"> <li>• The employer- what they offer, how, why and how</li> <li>• The demographics- about the worksite, employee population, industry</li> <li>• Leadership- perspective, commitment, direction</li> <li>• Demand survey/ Focus Groups Discussion (FDG) template to capture employee preferences</li> </ul> <p>The project activities will include developing a survey instrument to identify preferences of employees to ensure that solutions are informed by demand. The data gathered will inform the design of the employer-supported childcare solution.</p>	05
3	Quarterly Progress Report	Quarterly with presentation at project office summarizing efforts underway to address the above scope of work, outlining problems and constraints encountered, and presenting issues for client decision-making, as needed.	
4	Implementation guideline fir child care center	According to BEZA childcare guideline	
5	Technical inputs to prepare RfQ for set-up child care center	Within 10 <sup>th</sup> month of the contract	
6	Design and set-up child care for BSMSN	Within 12 <sup>th</sup> month of the contract	
7	Training modules development for caregivers and assistant caregivers	Within 14 <sup>th</sup> month of the contract	



  
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Sl.	Type of Report	Time Frame	No. of copies
8	Prepare and deliver parent/family caregiver education training programs modules	Within 1 <sup>st</sup> month of the contract	
9	Training to the caregivers and assistant caregivers (approx. 100 participants)	Within 18 <sup>th</sup> month of the contract	
10	Operation and maintenance child care center at BSMSN	After 20 <sup>th</sup> Month of the contract	10
11	Annual report	Within 1 <sup>st</sup> week of January each year	20
12	Project closing report	Before close the project	

#### 9. Cost Estimation

Particulars	Key Expert		Non-Key Expert		Total (in lakh Taka)
	MM	BDT (in lakh Taka)	MM	BDT (in lakh Taka)	
Remuneration Expenses		32		50	200
Reimbursable Expenses					150
<b>Total</b>					<b>300</b>

#### 10. Procurement Method

The consulting firm will be selected according to the quality- and cost-based selection (QCBS) method under national competing bidding (NCB) process described in IDA Guidelines on the Selection of Consultants, January 2011, Revised July (2014). A weighting system of 80% for quality and 20% for cost will be applied.

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 মুহুরতি  
 সরকার (সে. মন্ত্রণালয় ও সচিবালয়)

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 মন্ত্রণালয়, বাংলাদেশ সচিবালয়  
 গণপ্রজাতন্ত্রী বাংলাদেশ



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## PMC 24: Development Company Policy formulation, development company formulation for BSMNSN

### Terms of Reference

#### 1. Objectives of Consulting Services

The Assignment aims to formulate institutional and operational policies for the proposed BSMNSN Development Company (BSDC) to manage, operate and promote the BSMNSN. The BSDC will have an arms-length relationship with BEZA<sup>1</sup> and be responsible for ensuring the best development options and strategies to attract FZ development partners' through PPPs for specific areas within the property, making contractor's agreements for others and develop and manage other areas as an interim stage to attracting private developers or contractors.

#### 2. Scope of Consulting Services

The scope of the assignment broadly includes following:

- In conjunction with BEZA, define the nature of the Company as a public owned entity by BEZA, formulate institutional and operational structure and policies/ guidelines/ legal instruments (as applicable) establishing initial operation stage for 6 months to a year, consolidation stage from 1 to 1.5 years and independent stage in 6 months
- Secure development rights assignment from BEZA over the BSMNSN lands defining Company scope, reporting responsibilities and frequency, non-competition provision in case PPP FZs
- Develop a clear organizational chart with specific job descriptions defining personnel role, internal procedures and systems, table of authorities, accountabilities and responsibilities
- Define the governing structure and roles of company areas, reporting relations between organization by Board of Directors, Executive area, support area and reporting frequency by area
- Define recruitment systems based on Company's HR systems and processes
- Define strategic objectives, vision, mission and values linked to the over BEZA/FZ development vision of the country
- Develop a results oriented multi-year strategic plan addressing: Institutional development, engagement with investors, budgetary definitions and needs, results oriented budget management
- Define a non-speculation commercial strategy for BSDC tied to the physical development BSMNSN FZ
- Establish developing criteria for decisions to develop land or assign this function to a PPP recruited through a competitive process for 3(0-40) years under a BOT requiring a robust feasibility study that includes: Market demand, business plan, financial strategy including equity/debt financing, IRR and payback time, engineering plan, built-out plan, phased development and estimated occupancy rate by phases, revenue stream and number
- Based on the BSMNSN FZ master plan, define a clear development strategy for site based on private development or self-development special area as a prelude to attracting private development or contract management partners
- Consider and apply BEZA's financial model as available or provide inputs as needed to ensure clear reflection of financial, development and economic returns for BSMNSN land release
- Define key stakeholders and strategies of engagement as well as best mechanism to formalize partnerships
- Define performance conditions and contracts with private investors, developers or contract managers defining roles, scopes, reporting responsibilities and frequencies, defaults and cure as well as ultimate recapture of land in case of serious performance short falls

<sup>1</sup> Discussions with working group last year indicated that BEZA preferred for an autonomous department/body within BEZA's structure that would evolve into an economic development company (SPV) in two or three years. Since this TOR is primarily addressing the functional nature of the entity is compatible with the independent department within BEZA option



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- Establish a contract management section/team/role responsible for ensuring contract compliance as well as maximizing land and overall site development
- Define an investor attraction strategy detailing promotional goals, investment attraction levels, job creation and outreach techniques along with follow-up activities and structures an investor's service structure that covers initial investor contact, entry facilitation, after care and policy advocacy related with to current or future occupants of the BSMISN EZ
- Define modalities of interaction with the local government and city development authorities based on BEZA's mandate
- Determine an internal-external communication strategy defining key targets, messages, media coverage and budgets that includes promotional materials (Brochures, website, professional sector presentation, among others)

### 3. Expected Time Schedule

The total duration of consulting services will be 30 months (10 months for drafting and finalizing of the policy structure, 20 months operation of the zone. The implementation schedule expected is as shown in Table.

Key Activities	Time Schedule
Invitation of EOI	15/10/2022
Issue of RFP	24/11/2022
Commencement of Consulting Services	23/01/2023
Termination of Consulting Services	31/09/2025

### 4. Expertise Required

The consultant team will consist of both Key Expert and Non-Key Expert and will be engaged for the duration of consulting services. The team of key consultants is expected to be comprised of a Team Leader, Team Leader (Economic Zone Development) Expert (Int), Legal Expert (Local), Company Act Expert, Training Specialist (Local), Environmental and Social Specialist (Local), Company Act Expert, Training Specialist (Local), Environmental and Social Specialist, Sub sector Specialists-Civil(1), electronic (1), mechanic (1) and textile (1) (Local), M&E Specialist (Local) & HRD specialist

Table: Key Experts and Indicative Expected Man-Months (MM)

SN	Position	No	MM	Total
1	Team Leader (Economic Zone Development) Expert (Int.)	1	30	30
2	Legal Expert (Local)	1	10	10
3	Company Act Expert	1	10	10
4	Training Specialist (Local)	1	2	2
5	Environmental and Social Specialist	1	2	2
6	Sub sector Specialists-Civil(1), electronic (1), mechanic (1) and textile (1) (Local)	4	10	40
7	M&E Specialist (Local)	1	2	2
8	HRD specialist	1	10	10
9	Finance Management Specialist (Int.)	1	10	10
10		13		116

N.B. Firm may propose additional Non-Key expert as per requirement



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### 5. Qualification and Experiences

The following tables provide minimum qualification for educational background and professional experiences.

Table: Qualification of Key Experts

SN	Position	Qualification	Experience
1	Team Leader (Economic Zone Development) Expert (In.)	Master's degree in business administrator and development study are preferred'	<ul style="list-style-type: none"> <li>Minimum 20 years general experience in the similar position</li> <li>Minimum 10 years specific experience in the similar field.</li> </ul>
2	Legal Expert (Local)	Master's Degree in Law	<ul style="list-style-type: none"> <li>Minimum 12 years general experience in the similar position</li> <li>Minimum 10 years specific experience in the similar field.</li> </ul>
3	Company Act Expert	Master's Degree in Law	<ul style="list-style-type: none"> <li>Minimum 12 years general experience in the similar position</li> <li>Minimum 10 years specific experience in the similar field.</li> </ul>
4	Training Specialist (Local)	Master's degree in Social science or development study or similar field	<ul style="list-style-type: none"> <li>Minimum 12 years general experience in the similar position</li> <li>Minimum 10 years specific experience in the similar field.</li> </ul>
5	Environmental and Social Specialist	Master's Degree in Environmental Science or Master's Degree in Sociology, Social Science or who have both of degree will get priority	<ul style="list-style-type: none"> <li>Minimum 12 years general experience in the similar position</li> <li>Minimum 10 years specific experience in the similar field.</li> </ul>
6	Sub sector Specialists- Civil(1), electronic (1), mechanic (1) and textile (1) (Local)	Master's degree in civil/ electronic/ mechanic/ textile engineering	<ul style="list-style-type: none"> <li>Minimum 10 years general experience in the similar position</li> <li>Minimum 8 years specific experience in the similar field.</li> </ul>
7	M&I Specialist (Local)	Master's degree in project management or any other similar subject.	<ul style="list-style-type: none"> <li>Minimum 10 years general experience in the similar position</li> <li>Minimum 8 years specific experience in the similar field</li> </ul>
8	HRD specialist	Master's degree in business administrator/ HRD are preferred'	<ul style="list-style-type: none"> <li>Minimum 12 years general experience in the similar position</li> <li>Minimum 10 years specific experience in the similar field.</li> </ul>
9	Finance Management Specialist (In.)	Master Degree in Finance or accounting	<ul style="list-style-type: none"> <li>Minimum 12 years general experience in the similar position</li> <li>Minimum 10 years specific experience in the similar field.</li> </ul>

### 6. Supporting Staff

The consultant team may employ supporting staff for the supervision of the sub-projects and operation of the project office, if required. The supporting staff may include:

  
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- 1) Inspector for quality control
- 2) Data collector
- 3) Administrator
- 4) Accountant
- 5) Typist

#### 7. Reporting

Within the scope of consulting services, the Consultant shall prepare and submit reports and documents to the Employer, as shown in Table. The Consultant shall provide hard and electronic copy of each of these reports.

Table: List of submission report

Sl.	Type of Report	Time Frame	No. of copies
1	Inception Report	<ul style="list-style-type: none"> <li>Within 20 days after commencement of the services with presentation at project office including A list of all meetings and interviews with meeting notes and another list of studies and documents examined, gap analysis, work plan will be provided to BEZA.</li> </ul>	07
2	Quarterly Progress Report	<ul style="list-style-type: none"> <li>Quarterly with presentation at project office</li> </ul>	05
3	An HR recruitment policy and processes that include	<ul style="list-style-type: none"> <li>An HR recruitment policy and processes that include: induction training, specialty training based on a training needs assessment, evaluation criteria, compensation packages as well as incentive program (individual and/or collective)</li> </ul>	
4	Developed and agreed organizational chart	<ul style="list-style-type: none"> <li>Within 6th month of the contract (Developed and agreed organizational chart based on grouping compatible functions, clear lines of reporting and authorities and job description)</li> </ul>	
5	A multi-year corporate strategic plan	<ul style="list-style-type: none"> <li>Within 10<sup>th</sup> month of the contract (including Clear development criteria tied to expected economic and financial results centered on the Company's sustainability and maximum economic impacts for Bangladesh including standard contracts with individual investors, PPPs, contract management and a tender system that includes: Prospectus formats for different transactions, standard tender documents including development experience FQIs, evaluation criteria, grading levels, mobilization process and procedures for selected developers</li> </ul>	
6	Training module development and provide training to the company	<ul style="list-style-type: none"> <li>Within 15<sup>th</sup> month of the contract</li> </ul>	
7	A financial development strategy	<ul style="list-style-type: none"> <li>Within 15<sup>th</sup> month of the contract (A financial development strategy defining budget, sources of debt financing, expected mandatory and optional value services charges, revenue sources, estimated operation cost based on positive, mid and worst case scenarios, sustainability plans )</li> </ul>	
8	SPC guideline develop	<ul style="list-style-type: none"> <li>Within 15th month of the contract (including A multi-year corporate strategic plan driven by a workshop with selected public-private audience led by BEZA defining institutional development of the</li> </ul>	

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 (প্র. কার. এর ও. সেক্রেটারি)

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9	Draft Final Report	<p>Company, development strategy and implementation framework, budget needs and performance structure-requirements, land release framework, promotional activities, customer services, BEZA-Company relationship and accountability, external stakeholder engagement plan defining specific mechanisms to formalize partnerships and define collective working relationships)</p> <p>Within 25 month after commencement of the services with presentation at project office including :</p> <ul style="list-style-type: none"> <li>• A 20-year demand forecast for the Economic Zone location</li> <li>• A set of on-site infrastructure drawings for the EZ master plan including topographic survey report and an overview of necessary off-site infrastructure needs/improvements and their tentative costs, in order for the site to be successful;</li> <li>• An environmental and social footprint (including resettlement, livelihood if required) of the site with mitigation and management plans proposed for key problems.</li> <li>• A chapter in feasibility study that identifies the best institutional framework for the site including a description of the management framework and staff profiles.</li> <li>• An economic model for Economic Zone site that illustrates the economic/social benefits (EHR) of the project</li> </ul>	10
10	Final Report	<ul style="list-style-type: none"> <li>• A financial model and sensitivity tests for the site.</li> <li>• Before 1 month closing the contract</li> </ul>	20

### 8. Cost Estimation

Particulars	Key Expert		Non- Key Expert		Total (in lakh Taka)
	MMT	BDT (in lakh Taka)	MMT	BDT (in lakh Taka)	
Remuneration Expenses		116		255	305
Reimbursable Expenses				1.5	180
<b>Total</b>					<b>405</b>

### 9. Procurement Method

The consulting firm will be selected according to the quality- and cost-based selection (QCBS) method under national competing bidding (NCB) process described in IDA Guidelines on the Selection of Consultants, January 2011, Revised July (2014). A weighting system of 80% for quality and 20% for cost will be applied.



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## PMC 25: Economic Analysis BEZA initiatives (BSMSN transformation and economic contribution)

### Terms of Reference

#### 1. Objectives of Consulting Services

The assignment aims to conduct an in-depth economic analysis of diverse development activities being undertaken by the government, private sector and development partners in the BSMSN area and recommend policies for appropriate integration with the national development agenda.

#### 2. Scope of Consulting Services

The scope of work is as follows:

- a. Identify all development initiatives being undertaken and planned for BSMSN and collect all required information about those initiatives.
- b. Thoroughly review comparable and relevant economic analyses undertaken in Bangladesh for large-scale development/ infrastructure projects and evaluate their methodologies to identify compatible portions for the BSMSN analysis highlighting prime aspects and relevant references
- c. Review similar economic analyses performed for industrial cities/Special Economic Zones for comparator countries like Vietnam, Thailand, Malaysia, Singapore, Indonesia, India etc. And evaluate their methodologies and derive pros and cons for each type of methodology.
- d. Develop an appropriate methodology for in-depth economic analysis of development activities undertaken for the transformation of BSMSN and agree with client/ stakeholders.
- e. Prepare a comprehensive estimation of the projected economic activity mix that is going to be attracted in BSMSN based on a market demand study; for instance, how many firms are expected to be operating in BSMSN by sector over time until site is fully occupied, how many jobs and job types they will create and what kind of trainings will be necessary to provide; define the percentage split between potential export firms and those serving the local market.
- f. Identify a five to ten year projected inventory of required off-site infrastructure and indirect services needs of the BSMSN industrial city detailing type, estimated budget requirements, number of indirect jobs and estimated total indirect impacts and aggregate requirements for the BSMSN industrial city from launch through full occupancy
- g. Prepare a comprehensive estimation of the on-site infrastructure system and phased development that is expected in BSMSN. A five to ten year projection is to be provided in a tri-categorical basis, i.e., high economic activity, moderate economic activity and low economic activity.
- h. A five to ten year projection is to be provided in a tri-categorical basis, i.e., high economic activity, moderate economic activity and low economic activity scenario for above estimations. A part of this estimation will be derived from discussions with BEZA, companies that have leased in BSMSN and future potential clients (investment pipeline) of BSMSN.

Undertake the in-depth economic analysis of development activities that are being undertaken in BSMSN measuring transformation potential of the industrial city. The comprehensive analysis should also highlight on how the economic activities in BSMSN will integrate with and directly and indirectly support the economy of Bangladesh including the spill-over effects

- j. Prepared policies recommendations for appropriate integration of BSMSN with the national development agenda.

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 Director

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 প্রধানমন্ত্রীর কার্যালয়  
 ঢাকা (১০০) গণপ্রজাতন্ত্রী বাংলাদেশ

k. Share the findings to DFZA, its clients and stakeholders including World Bank Group and undertake necessary revisit to the analysis.

### 3. Expected Time Schedule

The total duration of consulting services will be 12 months. The implementation schedule expected is as shown in Table.

Key Activities	Duration in Months
Invitation of EOI	15/06/2023
Issue of RFP	15/07/2023
Commencement of Consulting Services	23/09/2023
Termination of Consulting Services	24/09/2024

### 4. Expertise Required

The consultant team will consist of both Key Expert and Non-Key Expert and will be engaged for the duration of consulting services. The team of key consultants is expected to be comprised of a Team Leader, Team Leader (Economic Zone Development) Expert (Int.), Economist, Social Development Expert, Senior Researcher, and Environmental Specialist.

Table: Experts and Indicative Expected Man-Months (MM)

SN	Position	No	MM	Total
1	Team Leader	1	12	12
2	Economist	1	4	4
3	Social Development Specialist	1	4	4
4	Senior Researchers	1	6	6
5	Environmental Specialist	1	4	4
<b>Total</b>		<b>5</b>	<b>30</b>	<b>30</b>

N. B.: Firm may proposed additional Non-Key expert as per requirement

### 5. Qualification and Experiences

The following tables provide minimum qualification for educational background and professional experiences. The team of key consultants is expected to be comprised of a Team Leader, Economist, Social Development Specialist, Senior Researchers and Environmental Specialist.

Table: Qualification of Key Experts and Non-Key Experts

SN	Position	Qualification	Experience
1	Team Leader	Master's degree in business administrator/ Economics/ Development study or any other similar field	<ul style="list-style-type: none"> <li>Minimum 20 years general experience in the similar position.</li> <li>Minimum 8 years specific experience in the similar field.</li> </ul>



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SN	Position	Qualification	Experience
2	Economist	Master's degree in Economics	<ul style="list-style-type: none"> <li>Minimum 15 years general experience in the similar position</li> <li>Minimum 8 years specific experience in the similar field</li> </ul>
3	Social Development Specialist	Master's degree in Social Science or Development Study	<ul style="list-style-type: none"> <li>Minimum 15 years general experience in the similar position</li> <li>Minimum 5 years specific experience in the similar field</li> </ul>
4	Senior Researchers	Master's degree in Economics/ Development study or any other similar field	<ul style="list-style-type: none"> <li>Minimum 10 years general experience in the similar position</li> <li>Minimum 5 years specific experience in the similar field</li> </ul>
5	Environmental Specialist	Master's degree in Environmental Science or any other similar field	<ul style="list-style-type: none"> <li>Minimum 15 years general experience in the similar position</li> <li>Minimum 5 years specific experience in the similar field</li> </ul>

\* Signed CVs of Key Experts should be attached. Non-Key Expert will propose by the firm.

#### 6. Supporting Staff

The consultant team may employ supporting staff for the supervision of the sub-projects and operation of the project office, if required. The supporting staff may include:

- 1) Inspector for quality control
- 2) Data collector
- 3) Administrator
- 4) Accountant
- 5) Typist

#### 7. Reporting

Within the scope of consulting services, the Consultant shall prepare and submit reports and documents to the Employer, as shown in Table. The Consultant shall provide hard and electronic copy of each of these reports.

Table: List of submission report

Sl.	Type of Report	Time Frame	No. of copies
1	Inception Report	<ul style="list-style-type: none"> <li>Within 20 days after commencement of the services with presentation at project office including A list of all meetings and interviews with meeting notes and another list of studies and documents examined, gap analysis, work plan will be provided to BEZA.</li> </ul>	07
2	Quarterly Progress Report	<ul style="list-style-type: none"> <li>Quarterly with presentation at project office</li> </ul>	05
3	Report on comparable and relevant economic analysis	<ul style="list-style-type: none"> <li>Report on comparable and relevant economic analyses and their methodologies undertaken in Bangladesh for similar projects and for industrial cities/Special Economic Zones for comparator countries and the details of recommended methodology for the assignment.</li> </ul>	05
	Interim report on comprehensive	Interim report on comprehensive estimation of projected economic activity mix, on-and-off-site infrastructure	



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স্বাক্ষর (০৩/০৮/১৯)

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১৯/০৮/১৯  
স্বাক্ষর (১৯/০৮/১৯)

	estimation of projected economic activity	requirements for BSMMSN including direct and indirect job creation.	
5	Report on in-depth economic analysis of development activities that are being undertaken in BSMMSN to transform	Report on in-depth economic analysis of development activities that are being undertaken in BSMMSN to transform it into a competitive and modern industrial city including policy recommendations for BSMMSN's integration with the national development agenda	05
6	Social impact in the influence area of BSMMSN	Including Mirsarai, Sitakunda, Chattoogram, Sonagazi, Feni etc.	05
7	Draft Final Report	Draft Final Research Report	
8	Organize national level validation Workshop	At Dhaka and Chattoogram	05
9	Final Report	Final Research Report	50

### 8. Cost Estimation:

Particulars	Key Expert		Non-Key Expert		Total (in lakh Taka)
	MM	BDT (in lakh Taka)	MM	BDT (in lakh Taka)	
Remuneration Expenses		30		55	75
Reimbursable Expenses				LS	10
<b>Total</b>					<b>85</b>

### 9. Procurement Method

The consulting firm will be selected according to the quality- and cost-based selection (QCBS) method under national competing bidding (NCB) process described in IDA Guidelines on the Selection of Consultants, January 2011, Revised July (2014). A weighting system of 80% for quality and 20% for cost will be applied.

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*20/1/14*  
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 সফরান্দা (নেসনাল) এ মাসকাল)

**PMC 26: Voucher and Grant Matching Management Program**  
**Terms of Reference (TOR)**

**1. Background**

Bangladesh Economic Zones Authority (BEZA) aims to stimulate and catalyze the creation of a dynamic private market for serviced industrial land and help scale national green and resilient economic zone guidelines to all of economic zones. The objective of the assignment is to implement a capital grant scheme aimed to increase the supply of industrial-relevant skills and to raise environmental standards in the industrial production and manufacturing sector of the economic zones. This Terms of Reference (TOR) invites proposals from experienced fund management firm as Voucher and Matching Grant Management for overall management of the voucher and matching grant program that include formulating the policy and strategy, carrying out fund promotion activities, managing fund operations and disbursement, monitoring, evaluating and providing fiduciary oversight.

The Voucher and Matching Grant Management firm will be responsible for maintaining financial and technical expert team and monitoring its activities to ensure that its performance is consistent with the project's objectives and requirements. It will be in charge of day-to-day operations, outreach, appraisal, selection, grant disbursement, verification and completion of projects. The Voucher and Matching Grant Management firm will be responsible for the appraisal and selection process and help BIFZA implement the fund through two windows (i) Voucher program to build industry-relevant skills; and (ii) Matching Grant program to implement the International Framework for Eco-Industrial Parks. The responsibilities will be extended until the final short listing of industrial tenants in the EZs to ensure that selection is focused solely on economic and commercial criteria. It will also provide assistance in the initial implementation of grantee projects.

The Voucher and Matching Grant Management firm will report according to a timetable laid out in its contract. A comprehensive monitoring and evaluation (M&E) system will be put in place and managed by the Voucher and Matching Grant Management firm to provide data for performance assessment, ongoing monitoring, and a future impact/risk assessment along with mitigation measures that would be conducted by the WBG through an independent source.

**2. Objectives of Consulting Services**

The consulting services shall be provided by Voucher and Matching Grant Management firm to compliance with Guidelines for the Employment of Consultants under the GOB and the World Bank. The objective of the consulting services is to prepare policy & strategy development for implementation of voucher program in relation with national skills development authority for ensuring skilled workforce at EZs, Development of disbursement system for matching grant and voucher program and implementation of matching grant program in relation with the International Framework for Eco-Industrial Parks.



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### 3. Scope of Consulting Services

The Voucher and Matching Grant Management firm will be required to produce a comprehensive study for the (i) Voucher program to build industry-relevant skills; and (ii) Matching Grant program to implement the International Framework for Eco-Industrial Parks. The Voucher and Matching Grant Management firm will be comprised of the following tasks:

- Task 1: Policy & strategy development for implementation of voucher program in relation with national skills development authority and requirement of BEZA
- Task 2: Policy & strategy development for Matching Grant program to implement the International Framework for Eco-Industrial Parks.
- Task 3: Disbursement System development for matching grant and voucher program.
- Task 4: Monitoring framework development for matching grant and voucher program
- Task 5: Evaluation guideline development matching grant and voucher program
- Task 6: Training module development for senior manager of FZs, investors and developers to ensure the smooth operation of matching grant and voucher program.
- Task 7: 3 days training provide (100 persons) to the senior manager of EZs, investors and developers to ensure the smooth operation of matching grant and voucher program.
- Task 8: 2 days training provide the (100 persons) the senior manager of EZs, investors and developers on International Framework for Eco-Industrial Parks or green Economic zone guideline of BIFZA.
- Task 9: Design and implementation of 3 national workshops on Voucher and Matching Grant Management program of BIFZA

### 4. Expected Time Schedule

The total duration of consulting services will be 50 months (8 months for drafting and finalizing of the policy; 42 months for transaction and implementation phase until financial close). The implementation schedule expected is as shown in Table.

Key Activities	Time Schedule
Invitation of IOI	15/02/2021
Issue of RFP	25/03/2021
Commencement of Consulting Services	23/05/2021
Termination of Consulting Services	31/11/2025

### 5. Expertise Required

The consultant team will consist of both Key Expert and Non-Key Expert and will be engaged for the duration of consulting services. The team of key consultants (International) is expected to be comprised of a Team Leader (Fund Operations Manager (Int.), Finance Manager (Local), Chief Grant Officer (Int.), Technical Specialist (Skills program) (Local), Environmental and Social Specialist, Sub sector Specialists-Civil (1), electrical (1), mechanic (1) and textile (1) (Local), M&B Specialist (Local) and Social Specialist(local)



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আইসিটি  
স্বাধীনতা পুরস্কার  
গণপ্রজাতন্ত্রী বাংলাদেশ

Table: Key Experts and Indicative Expected Man-Months (MM)

SN	Position	No	MM	Total
1	Team Leader (Fund Operations Manager (Int)	1	48	48
2	Finance Management Specialist (Local)	1	40	40
3	Chief Grant Officer (Int)	1	40	40
4	Technical Specialist (Skills program) (Local)-2	1	40	40
5	Environmental Specialist (Local)	1	40	40
6	Sub sector Specialists-Civil (1), electrical (1), mechanic (1) and textile (1) (Local)	4	40	160
7	M&E Specialist (Local)	1	18	18
8	Grant Specialist (local)	1	40	40
9	Social Specialist (Local)	1	40	40
10	Training Expert	1	48	48
<b>Total</b>		<b>13</b>		<b>514</b>

Table: Non-Key Experts and Indicative Expected Man-Months (MM)

SN	Position	No	MM	Total
1	Grant Officer	1	40	40
2	Jr. Technical Specialist (Skills program) (Local)	1	40	40
3	Environmental Specialist (Local)	1	40	40
4	Jr. Social Specialist	1	40	40
5	Jr. Training Expert	1	40	40
<b>Total</b>		<b>5</b>	<b>200</b>	<b>200</b>

N. B.: Firm may purpose additional non-key expert as per requirement.

### 6. Qualification and Experiences

The following tables provide minimum qualification for educational background and professional experiences.

Table: Qualification of Key Experts

SN	Position	Qualification	Experience
1	Team Leader (Fund Operations Manager (Int)	Master's degree in business administration/Finance/ Accounting / professional qualification in fund operation (e.g. FCA, ACCA) are preferred	<ul style="list-style-type: none"> <li>Minimum 20 years general experience in the similar position</li> <li>Minimum 10 years specific experience in the similar field.</li> </ul>
2	Finance Management Specialist	Master Degree in Finance or accounting	<ul style="list-style-type: none"> <li>Minimum 12 years general experience in the similar position</li> <li>Minimum 10 years specific experience</li> </ul>

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SN	Position	Qualification	Experience
	(Local)		in the similar field.
3	Chief Grant Officer (Int)	Master's degree in business administrator/Finance/ Accounting / professional qualification in fund operation (e.g. FCA, ACCA) are preferred.	<ul style="list-style-type: none"> <li>Minimum 12 years general experience in the similar position</li> <li>Minimum 10 years specific experience in the similar field.</li> </ul>
4	Technical Specialist (Skills program) (Local)-2	Master's degree in Social science or development study or similar field	<ul style="list-style-type: none"> <li>Minimum 12 years general experience in the similar position</li> <li>Minimum 10 years specific experience in the similar field.</li> </ul>
5	Environmental Specialist (Local)	Master's Degree Environmental Science	<ul style="list-style-type: none"> <li>Minimum 12 years general experience in the similar position</li> <li>Minimum 10 years specific experience in the similar field.</li> </ul>
6	Sub sector Specialists- Civil (1), electrical (1), mechanic (1) and textile (1) (Local)	Master's degree in civil/ electronic/ mechanic/ textile engineering	<ul style="list-style-type: none"> <li>Minimum 10 years general experience in the similar position</li> <li>Minimum 8 years specific experience in the similar field.</li> </ul>
7	M&E Specialist (Local)	Master's degree in project management or any other similar subject.	<ul style="list-style-type: none"> <li>Minimum 10 years general experience in the similar position</li> <li>Minimum 8 years specific experience in the similar field.</li> </ul>
8	Grant Specialist (Local)	Master's degree in business administrator/Finance/ Accounting / professional qualification in fund operation (e.g. FCA, ACCA) are preferred.	<ul style="list-style-type: none"> <li>Minimum 12 years general experience in the similar position</li> <li>Minimum 10 years specific experience in the similar field.</li> </ul>
9	Social Specialist (Local)	Master's Degree in Sociology or Social Science	<ul style="list-style-type: none"> <li>Minimum 12 years general experience in the similar position</li> <li>Minimum 10 years specific experience in the similar field.</li> </ul>
10	Training Expert	Master Degree in any discipline	<ul style="list-style-type: none"> <li>Minimum 12 years general experience in the similar position</li> <li>Minimum 10 years specific experience in the similar field.</li> </ul>

N. B.: Signed CVs of Key Experts should be attached. Firm may propose additional non-key expert according to requirement

#### 8. Supporting Staff

The consultant team may employ supporting staff for the supervision of the sub-projects and operation of the project office, if required. The supporting staff may include:

- 1) Inspector for quality control
- 2) Data collector
- 3) Administrator
- 4) Accountant
- 5) Typist



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 মহাপরিচালক, পরিকল্পনা  
 বাংলাদেশ (সে. প্রোগ্রাম ও প্রকল্প)

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### 9. Reporting

Within the scope of consulting services, the Consultant shall prepare and submit reports and documents to the Employer, as shown in Table. The Consultant shall provide hard and electronic copy of each of these reports.

Table: List of submission report

SL	Type of Report	Time Frame	No. of copies
1	Inception Report	Within 20 days after commencement of the services with presentation at project office including A list of all meetings and interviews with meeting notes and another list of studies and documents examined, gap analysis, work plan will be provided to BEZA.	07
2	Quarterly Implementation report	Quarterly with presentation at project office	05
3	Policy & strategy development for implementation of voucher program	Within 5 months after commencement of the services with presentation at project office including	05
4	Policy & strategy development for Matching Grant program to implement the International framework for Eco-Industrial Parks	Within 6 months after commencement of the services with presentation at project office including	05
5	Monitoring framework for matching grant and voucher program	Within 7 months after commencement of the services with presentation at project office including	05
6	Evaluation guideline development for matching grant and voucher program	Within 8 months after commencement of the services with presentation at project office including	05
7	Annual Implementation Report	Yearly	10
8	In-depth evaluation report of the project	Before 2 month of the contract closing	20
9	Draft Final Report	Before 1.5 months of the contract closing	20
10	Final Report	Before 15 days of the contract closing	20

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### 10. Cost Estimation

Particulars	Key Expert		Non-Key Expert		Total (in lakh Taka)
	MM	BDT (in lakh Taka)	MM	BDT (in lakh Taka)	
Reimbursement Expenses	514	2600	200	350	2950
Reimbursable Expenses					1300
<b>Total</b>					<b>4250</b>

### 11. Procurement Method

The consulting firm will be selected according to the quality and cost-based selection (QCBS) method under international competing bidding (ICB) process described in IDA



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Guidelines on the Selection of Consultants, January 2011, Revised July (2014). A weighting system of 80% for quality and 20% for cost will be applied.

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Bangladesh Economic Zones Authority  
**VOUCHER AND MATCHING GRANT MANAGEMENT PROGRAM**

Bangladesh Economic Zones Authority (BEZA) aims to stimulate and catalyze the creation of a dynamic private market for serviced industrial land and to scale up national green and resilient economic zone guidelines to other private economic zones. The objective of the assignment is to implement a capital grant scheme aimed to increase the supply of industrial-relevant skills and to raise environmental standards in industrial production in economic zones. The Voucher and Matching Grant management firm for overall training management of the voucher and matching grant program will include formulating the policy and strategy, carrying out fund promotion activities, managing fund operations and disbursement, monitoring, evaluating and providing fiduciary oversight.

This component will finance grants under two windows that support private participation in projects with high economic returns but low financial returns in addition to a consultancy contract for program management. The objectives of grant funding are to: (i) help address industry-relevant skills shortages and raise labor productivity by incentivizing private investment in skills formation; at accredited institutions and (ii) to combat negative externalities and improving the health and safety of workers and women by raising environmental standards in industrial production and security standards in economic zones. The voucher program under will be extended to support the formation of specialized skills required by anchor investors in economic zones if they are essential for integration in global value chains.

Grant Voucher program to build industry-relevant skills will cover skills vouchers in a program to support industry-relevant skills formation of workers by unit investors/industrial tenants in economic zones. The voucher will be structured to ensure relevance and responsiveness to industry needs and focus on meaningful and verifiable outcomes for employers and employees.

Grant Program aims to raise the sustainability and resilience of the economic zones by supporting the implementation of the Green and Economic Zone Guidelines. The Grant Program will help push the national frontier in terms of sustainability and resilience of unit investors/industrial tenants and by extension help render similar investments by the developer-operator more attractive.



The voucher program to build industry-relevant skills will be structured to drive responsiveness to industry need and focus on meaningful outcomes for employers and employees. IZs have a high level of financial health if there is a skills ecosystem that provides a pipeline of skilled, motivated, adaptable and resilient people into their tenants' businesses. BEZA will carry out its role as an intelligent customer of skills development services. The supply side of the ecosystem is not wholly able to respond to IZ demand. IZ requirements. BEZA's role to support the skills development ecosystem are: on the demand side, to: (i) offer a reimbursable incentive grant (i.e. the voucher) based on jobs outcomes, (ii) provide high quality information on labor demand and career pathways, (iii) provide access to networks of employers and employer groups, (iv) encourage inclusive and fair recruitment practices, (v) encourage personnel to join governance groups, and (vi) provide access to land and utilities

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 Bangladesh Economic Zones Authority  
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for training providers. The voucher program will operate on a reimbursable basis using banking channels and only cover legitimate training expenditures for those who successfully complete the training with gender targets to encourage female labor force participation and obtain certified credentials.

The voucher and matching grant management firm will be responsible for maintaining financial and technical expert team and monitoring its work to ensure that its performance is consistent with the project's objectives. It will be in charge of day-to-day operations, outreach, appraisal, selection, grant disbursement, verification and completion of projects. The Voucher and Matching Grant Manager will be responsible for the appraisal and selection process and help BEZA implement the fund through two windows: (i) Voucher program to build industry-relevant skills; and (ii) Matching Grant program to implement the International Framework for Bio-Industrial Parks. The responsibilities will be extended until the final short list of industrial tenants in the PEZs to ensure that selection is focused solely on economic and commercial criteria. It will also provide assistance in the initial implementation of grantee projects.

The Voucher and Matching Grant Firm will report according to a timetable laid out in its contract. A comprehensive monitoring and evaluation (M&E) system will be put in place and managed by the Voucher and Matching Grant Manager to provide data for performance assessment, ongoing monitoring, and a future impact assessment that would be conducted by the WRG through an independent source.

#### A. Skill Voucher System

The project will finance a Voucher System to support industry-relevant skills development for workers by unit investors/industrial tenants in Economic Zones (EZs). The Voucher System will seek to address the shortage of semi-skilled and skilled labor faced by new industries in Bangladesh. Key elements of context to be understood by potential suppliers:

1. The Voucher System is to support the project until December 2025
2. Expected number of learners: 20,000 of which at least 2,000 will be higher level (Bangladesh Qualification Framework L5 Diploma or equivalent).
3. All new employees in EZs will be offered induction training and careers information
4. The Voucher System is only expected to support the demand side of the labor market and will therefore require collaboration with supply-side stakeholders to encourage development of a market of skills development providers and labor market intermediaries.
5. The Voucher System is expected to catalyse the supply side of the skills market within proximity of the economic zones that is supported by other GoB projects partly financed by the World Bank and other H/Ts
6. The voucher program will operate on a reimbursable basis and only cover legitimate expenses for those who will successfully complete the training and obtain certified credentials (i.e. strict focus on job outcomes).
7. Training outcomes should lead to certification which is recognized and valid in a way that makes people mobile and supports learner and career progression.
8. The voucher systems should prioritise curriculum and certification which is meaningful to employers and should be pragmatic about its use of national or international TVET structures.



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9. The Economic Zones will make land and utilities available to education investors on a similar basis to other EZ investors.

#### **B. Training need assessment for skills workforce of EZs**

The training needs assessment is a report which should provide a baseline understanding of the skills needed by EZ investors/tenants over the project lifetime and beyond. The report will provide the operators of the Project Voucher System with input to design their services and will provide the initial data-set on labor market needs. Key elements of the report are:

- A stakeholder map and an analysis of stakeholder needs/expectations.
- A model of labour demand using categorization (proposed by the supplier) which is focused on occupations (not qualifications or training programmes) and clarifies sector and skill level. The model should provide numerical data on demand for one year, and then give data on scenarios which will drive demand over the lifetime of project. The model should also include information on broader employability skills as well as specific technical skills.
- Identification of barriers to labor market participation of disadvantaged groups with an emphasis on female participation.
- An assessment of current skills availability, without project intervention, measured against the skills demand and possible future scenarios.
- Identification of challenges/constraints employers face in recruitment and retention of unskilled, semi-skilled and skilled employees.
- A skills gap statement giving current and future needs presented in enough detail for training providers to respond, including a log of qualifications or training programmes which current investors/tenants have cited when expressing their skills need.
- Short, mid and long term training plan for EZs
- Information on appetite for investors/tenants to invest in skills development for their employees and recruits, and proposals for design elements of the Voucher System which could increase scale of engagement by employers.

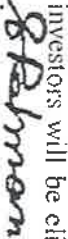
#### **C. Grant Management**

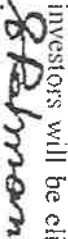
Grant Program aims to raise the sustainability and resilience of the economic zones by supporting the implementation of the Green and Economic Zone Guidelines. The Grant Program will help push the national frontier in terms of sustainability and resilience of unimproved industrial tenants and by extension help render similar investments by the developer-operator more attractive.



The grant will support programs on a reimbursable basis to promote green and resilient buildings and energy-efficient production. Approximately 50 percent of tenant firms can benefit from the green and resilient building program under this component. The program to support energy efficient production will primarily target large energy consumers and the Operations Manual will cover the type of investments in equipment, technology and green/resilient building designs that tenant companies can apply for preferential loans. Approximately 50 percent of tenants in BSMSN and other private investors will be eligible

  
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for this program, which will also support companies design and implement factory and building level disaster resilient measures such as raising/fortification of building foundations for flood management, land subsidence and liquefaction, and advanced and rainwater harvesting and utilization. The grant program will be provided according to international best practice and by the suggestions provided from an advisory firm. The existing SREDA's program covering 10 percent of the total investment may be considered under this grant program.

The program will also support companies meet and enhance their capacities for business continuity and risk management by catalyzing pre-arranged cooperation and financing arrangements and enhance the capacities of the grant beneficiaries to cope with the impacts of climate change.

The grant distribution will be examined and monitored by a committee within BFZA. The disbursement of grant money will be ensured through proper banking channel.

#### **D. Terms of reference for voucher and grant program**


The supplier will design, institute and maintain systems and processes which will support the labor market within the scope of the project. The voucher system is a demand-side intervention intended to drive development of a transparent ecosystem of skills development and recruitment facilitation services which will benefit 1% investors/tenants and potential or current employees. The supplier is invited to propose a project in three phases: design, build and operate. The attributes of the funding programme are that it should:

1. Linencourage private employer's investment into skills development for productivity and higher value work.
2. Use systems, process and customer support which are reliable, readily available, and easy to use for employers, service providers and learners.
3. Be responsive to industry need, and focused on meaningful and verifiable outcomes for employers and employees.
4. Support lifelong learning.
5. Encourage development of transferrable skills and employability skills which build resilience and adaptability. These should reference currently used curriculums or standards such as Bangladesh Generic Skills and OI/CD Survey of Adult Skills.
6. Achieve targets for disadvantaged groups with a particular focus on meeting project metrics for female labor participation.
7. Act as a driver for inclusive and fair recruitment practice.
8. Be responsive to current and future policy priorities of the project including:
  - a. Innovation
  - b. new domestic markets
  - c. access to foreign markets
  - d. diversification
  - e. higher level skills and higher value work
  - f. formation of specialized skills required to supply anchor investors in economic zones if they are critical to integrate in new global value chains.

During the design phase the supplier should

1. Map stakeholders and form an understanding of the current labor market including supply of skills development and recruitment services and gaps. A training needs assessment will be provided as input.

  
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2. Work with supply side partners, including projects and interventions, to build an understanding of how Vouchers should be structured to drive the development of responsive and adaptable supply, and the development of a multi-supplier market. Funding should be calibrated in a way that prevents double-funding, but also creates an attractive risk/reward climate for potential investors into education, training and recruitment services.
3. Align the description and metrics for Outputs and Outcomes with broader Monitoring and Evaluation Framework.
4. Recommend the opening funding triggers and amounts. The triggers and amounts should seek to be simple while also designed to avoid perverse market behavior.
5. Recommend approach to delivering information to market, including forward guidance, which will work with funding triggers to promote desired market development.
6. Recommend the governance approach and governance group for the Voucher System
7. Build a dashboard of information to be used by the Voucher System operators and its governance group which can support transparency.

#### **E. Skills Development Consultant**

The Skills Development Consultant will act on behalf of the project, ensuring that suppliers to the project are engaged, and their performance managed, in a way that drives project objectives as measured in the results framework. Key aspects of the role:

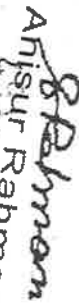
1. Develop terms of reference for engaging suppliers and partners, and join panels for supplier and partner selection
2. Maintain a relentless focus project objectives and metrics
3. Act as programme assurance and quality backstop for Skills Development related elements of the project
4. Join governance boards and sub-committees as required
5. Carry out appraisals of the performance of the Skills Voucher System and make recommendations for change where necessary
6. Provide necessary expertise to inform program design and implementation and review progress reports for the sub-component activities.

#### **F. Training Needs Assessment (TNA)**

TNA is a report which should provide a baseline understanding of the skills needed by EZZ investors/tenants over the project lifetime and beyond. According to the TOR of training firm will prepare TNA with discussion of all stakeholders of EZZ investors/ tenants for whole period of project until December 2025. Expected numbers of learners amounting 20,000 of which at least 2,000 will be higher level.

- a) The Module of Voucher Training Programs would be structured by the training firm are:
  - i) Build industry-relevant skills
  - ii) Provide data for performance assessment, ongoing monitoring, and a future impact assessment conducted by the WBQ through an independent source;
  - iii) Implement the International Framework for Eco-Industrial Parks;

  
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- iv) Demand side labor Market and Skills development for labor market intermediaries;
- v) Catalyze the supply side of the skills market within proximity of the economic zones;
- vi) Operating on a reimbursable basis and only cover legitimate expenses for jobs outcomes;
- vii) Prioritize curriculum and certification which is meaningful to employers of national or international TVET structures;
- viii) Land and utilities available to education investors on a similar basis to other EZ investors;
- ix) Assessment of current skills availability;
- x) Appraisals of the performance of the Skills Voucher System and make recommendations for change where necessary; etc.

**b) Proposed Training Course**

- Basic Computer Course: Photoshop, Illustrator, Web Page Designing for Project;
- Skilled Development Training for Garments worker;
- Training on Pharmaceutical;
- Training on Electric wiring;
- Training on Knit wearing;
- Training on Shipbuilding;
- Training on chemical issues;
- Training on Driving;
- Training on House-keeping;
- Training on Factory construction;
- Training on office management;
- Training on labor issue;
- Training on Fire Safety and Emergency Response;
- Training on Tourism and Hotel Management;
- Training on environment, occupational health safety and Social safeguard
- Training on Security Service;
- Training on Masonry;
- Training on BEZA Building Construction Rules of BEZA and BNBC;
- Training Solar system management;
- Training on Behavior Change and Labor law of BEZA.
- Training program on E-Filing;
- Training on PPP;
- Training on Fund Management, Account's and Finance;
- Training on ceramics factory worker;
- Training on leather and lather products manufacturing;
- Training Program on Microsoft Project Software;
- Training on gender mainstreaming;
- Procurement Procedures for the World Bank Aided Projects;
- Financial Management for the World Bank Aided Projects;
- Project Management for the World Bank Aided Projects;
- Audit & Accounts Management for the World Bank Aided Projects;



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- Monitoring & Evaluation, Report writing and PCR for the World Bank Aided Projects;
- Planning & Best practices, Organizational Performance Engineering and Human Resources & Culture;
- Pre-feasibility study, Master Plan and Site Selection of EZs;
- Stakeholder engagement program/ social development program;
- Information and labor market dynamics;
- Policies and plans for BIZZA and the context provided by the National Skills Program;
- Comprehensive labor demand survey for in-scope IZs;
- Survey information on the Bangladesh labor market in light of pandemic-related change including skills development initiatives using digital platform;
- Develop, synthesize, interrogate and analyze relevant data using appropriate techniques and methodologies;
- Commonalities in IZ, tenant and prospective investor strategies;
- Recognition of the effects of Covid-19;
- Standard Bangladesh taxonomies for job-roles and occupational standards;
- Cost-effective methodology for gathering primary data; etc.

c) **The proposed government, semi government and Autonomous training institute/ organization will get priority to ensure the quality training under project:**

- Bangladesh Industrial Technical Assistance Centre (BITAC);
- Sheikh Fazlulunnabi Mujib Mohila Technical Training Center;
- Bangladesh Fire Service and Civil Defense
- National Academy for Planning and Development (NAPD);
- Bangladesh Computer Council
- Bangladesh Institute of Administration and Management (BIAM);
- Engineering Staff College Bangladesh;
- Central Procurement Technical Unit
- Skills for Employment Investment Program (SEIP);
- Bangladesh-Korea Technical Training Centre;
- Bangladesh Institute of Management (BIM);
- BRTA Training Institute ;
- BRTE Tejgaon Training Institute
- Bangladesh Japan Training Centre;
- Bangladesh Parjaton Corporation
- Housing and Building Research Institute (HBRI);
- Bangladesh-Korea Technical Training Center
- Technical Training Center
- National Hotel & Tourism Training Institute
- Chittagong Mohila Technical Training Center
- Bangladesh Garment Manufacturers and Exporters Association (BGMENA);



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- Bangladesh Knitwear Manufacturers and Exporters Association (BKMEA);
- BASIS institute of Technology & Management (BITM);


#### G. Voucher and Grant Program Firm:

The firm appointed by QCBS method, will ensure quality of the training and green resident industries development including grant management with appropriate auditing and documentation system. This firm will assist the project with all support expertise in managing this voucher and grant program.

#### H. Trade name, module & institution selection under voucher program and trainee selection process

Trade name, module & institution selection under voucher program and trainees selection process will be inserted upon the approval of the authority. Trade name and modules in the training will be finalized through Training Need Assessment (TNA) and the TNA firm will advise the names of institutions based on their experience and current capacity. The TNA firm will also advise on the trainee selection process, according to which training program will take place at selected training centers. However, affected persons or families due to the development of Bangabandhu Sheikh Mujib Shilpanagar and other economic zones will be given priority. The consulting firm will monitor training program and will submit a report to the project director after review and appropriate examination of cost in this regard. The project director will initiate disbursement of fund as per report.

Note: According to the TOR, the training firm will prepare TNA with discussion of all stakeholders of EZ, investors/ tenants for whole period of the project until December 2025.

  
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## ৩.০ বিস্তারিত আবেদন শেষে সরকারীভাবে নিম্নরূপ সিদ্ধান্ত গৃহীত হইবে:

ক্রমিক নং	প্রার্থিত পদের নাম ও বেতন স্কেল	সংস্থার রাজস্ব খাতে একই ধরনের পদের সংখ্যা	প্রস্তাবিত পদের সংখ্যা		নিয়োগের ধরণ	অর্থ বিভাগের সুপারিশ		
			বাস্তবায়ন পর্যায়ে	বেতনে		পদ/একক সংখ্যা	নিয়োগের ধরণ	পে.গ্রেড
১	১) জ্যেষ্ঠ জরুরি (১০ জন)	৩	৪	০	৬	৭	৮	৯
১।	২) জরুরি পরিচালক (পে.গ্রেড-২)	৩	১	০	জ্যেষ্ঠ	১	জ্যেষ্ঠ	২/৩
২।	৩) উপ জরুরি পরিচালক (পে.গ্রেড-৩)	১২	৩	০	জ্যেষ্ঠ	৩	জ্যেষ্ঠ	৫/৬
৩।	৪) নিরীক্ষী প্রকৌশলী (পে.গ্রেড-৫)	১	৩	০	জ্যেষ্ঠ	৩	জ্যেষ্ঠ	৫
৪।	৫) সরকারী প্রকল্প পরিচালক (পে.গ্রেড-২)	১৬	৩	০	জ্যেষ্ঠ	৩	জ্যেষ্ঠ	৬-৯
	৬) সরকারি নিয়োগ (২৪২)		১০			১০		
৭।	৭) সরকারী প্রকৌশলী (পে.গ্রেড-৯)	০	১৪	০	সরাসরি	১২ একক (৪ শ্রেণি)	সেবাক্রম	বিশেষসেবা-১
৮।	৮) সরকারী হিসাবরক্ষণ কর্মকর্তা (পে.গ্রেড-৯)	০	১	০	সরাসরি	১ একক	সেবাক্রম	১
৯।	৯) উপ সরকারী প্রকৌশলী (পে.গ্রেড-১০)	০	২২	০	সরাসরি	১৬ একক (৪ শ্রেণি)	সেবাক্রম	২
১০।	১০) উপ জরুরিমান (পে.গ্রেড-১০)	০	৪	০	সরাসরি	২ একক	সেবাক্রম	২
	১১) অতিরিক্ত (পে.গ্রেড-১০)	০	৪	০	সরাসরি	৩ একক	সেবাক্রম	২
	১২) সাধারণ (পে.গ্রেড-১০)	০	০	০	সরাসরি	৩ একক	সেবাক্রম	২
১১।	১৩) কম্পিউটার অপারেটর (পে.গ্রেড-১৪)	১৫	২১	০	সরাসরি	৮ একক	কম্পিউটিং সেবাক্রম	কাটাগারি-১
১২।	১৪) স্টেনোগ্রাফার (পে.গ্রেড-১৭)	০	২	০	সরাসরি	১ একক	কর্ম সেবাক্রম	কাটাগারি-১
১৩।	১৫) প্রায়শ (পে.গ্রেড-১৪)	০	২	০	সরাসরি	২ একক	সেবাক্রম	কাটাগারি-২
১৪।	১৬) ইন্সপেক্টরিয়ান (পে.গ্রেড-১৪)	০	৩	০	সরাসরি	৩ একক	সেবাক্রম	কাটাগারি-১

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১৩	স্বাইভরি (পে-গেড ১৬)	৪	১১	০	০	সরাসরি	৫ একক	পরিবহন সেবাক্রম	
১৬	সিগভরোড স্বাইভার (পে-গেড ১৬)	০	২	০	০	সরাসরি	১ একক	সেবাক্রম	ক্যাটাগরি -১
১৭	চৌনামান (পে-গেড ১৬)	০	৫	০	০	সরাসরি	৩ একক	সার্ভে সহায়ক সেবাক্রম	ক্যাটাগরি -৫
১৮	ডুপ্লিকট মেশিন অপারেটর (পে-গেড ১৬)	০	৪	০	০	সরাসরি	১ একক	সেবাক্রম	ক্যাটাগরি -২
১৯	ম্যানেজার (পে-গেড ২০)	১	৯	০	০	সরাসরি	-	-	-
২০	অফিস সহায়ক (পে-গেড ২০)	১৫	১৩	০	০	সরাসরি	১১ একক	কর্ম সহায়ক সেবাক্রম	ক্যাটাগরি -৫
২১	সিকিউরিটি গার্ড (পে-গেড ২০)	৪	১৭	০	০	সরাসরি	১২ একক	নিরাপত্তা সেবাক্রম	ক্যাটাগরি -৫
২২	বাথটুকু (পে-গেড ২০)	০	২	০	০	সরাসরি	-	-	-
২৩	ক্রিনার (পে-গেড ২০)	৪	৬	০	০	সরাসরি	২ একক	পরিষ্করণ সেবাক্রম	ক্যাটাগরি -৫
পিইসি সভার সুপারিশক্রমে নতুন প্রস্তাবিত জনবল									
২৪	মেডিকেল অফিসার	০	২	০	০	সরাসরি	২ একক	সেবাক্রম	বিশেষ সেবা-১
২৫	জুনিয়র আইটি কর্মকর্তা	০	১	০	০	সরাসরি	১ একক	সেবাক্রম	বিশেষ সেবা-১
২৬	জুনিয়র অডিট কর্মকর্তা	০	১	০	০	সরাসরি	১ একক	সেবাক্রম	বিশেষ সেবা-১
২৭	নার্স	০	২	০	০	সরাসরি	২ একক	সেবাক্রম	বিশেষ সেবা-২
২৮	ম্যার টেকনিশিয়ান	০	২	০	০	সরাসরি	২ একক	সেবাক্রম	বিশেষ সেবা-১
১ জন অ্রমেণে ৯২ একক মোতা ক্রয় ও ৫ একক পরিবরণ সেবা									



(ক) প্রকল্পের বাস্তবায়ন পর্যায়ে নিচে উল্লিখিত শর্ত সাপেক্ষে "Private Investment and Digital Entrepreneurship (PRIDE) for BIZZA Project" প্রকল্পের জন্য এটি পূর্বের বিপরীতে ১১ জনের অ্রমেণে নিয়োজিত গণ্যপাণি বিভিন্ন ক্যাটাগরিতে ৯২ একক সেবাক্রম ও ৫ একক পরিবরণ সেবাক্রমের সুপারিশ করা হল।

(খ) প্রস্তাবিত প্রকল্পের বাস্তবায়ন পর্যায়ে ১,২,৩,৪ ও ৭ নং ক্রমিকের সকল পদই অস্থায়ীভাবে প্রায়শে প্রকল্প চলাকালীন সময়ের জন্য নিয়োজনের সুপারিশ করা হলো। অস্থায়ী ক্রমিকসমূহের মোতাপত্র আউটসোর্সিং প্রক্রিয়ায় সেবাগ্রহণ হইতামাত্র ২০১৮ অর্থবছরী ক্রমের সুপারিশ করা হলো। উল্লেখ্য, অর্থ বিজ্ঞান প্রতি ০৮/০১/২০১৯ তারিখ অধীকৃত আউটসোর্সিং প্রক্রিয়ায় সেবাগ্রহণ হইতামাত্র ২০১৮ এবং ১৮/১২/২০১৯ তারিখের ০৭,১১,০৩,০১,০০,০০০ ২০১৯-২০২০-৫০০ নং পরিপত্র অনুসরণ করতে হলো। বাস্তবায়নোক্ত পর্যায়ে কোন পদের সুপারিশ করা হয়নি।

০১/১১  
 মাসামপুর (সেবামাত্র)  
 সুপারিশ  
 করা হয়েছে ও প্রকল্পে।  
 মাসামপুর (সেবামাত্র)

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 ১২/১১  
 পরিচালক

- (১)  
 (২) অস্থায়ীভাবে প্রকল্পের পক্ষে জনবল প্রেষণে নিয়োগ দেয়া হলে তাদের বিদ্যমান পদের আভ্যন্তরীণ কার্যক্রম পরিচালনার বিষয়টি নিশ্চিত করতে হবে এবং এ সকল কর্মকর্তা অন্য কোন প্রকল্পে সংশ্লিষ্ট থাকতে পারবেন না;  
 (২) প্রেষণে নিয়োগের জন্য সুপারিশকৃত পক্ষ সংশ্লিষ্ট দপ্তর/সংস্থার বিদ্যমান চাকুরি বিধি অনুসরণে উপযুক্ত কর্মকর্তা/কর্মচারী নিয়োগ করতে হবে;  
 (৩) উপযুক্ত সুপারিশ ভিত্তিপক্ষে যথাযথনে অন্তর্ভুক্ত করতে হবে।
৫. আর কোন আলোচ্য বিষয় না থাকায় সকলকে ধন্যবাদ জানিয়ে সভাপতি সভার সমাপ্তি ঘোষণা করেন।



রুবীনা আশীনি

অতিরিক্ত সচিব

(বাজেট ও সামষ্টিক অর্থনীতি)

৩

সভাপতি

প্রকল্পের পদ/জনবল নির্ধারণ সংক্রান্ত আওতাধীন কার্যক্রম

  
 মহানন্দ দেবলাথ  
 সুপারিস  
 বাজেট ও সামষ্টিক অর্থনীতি

  
 সভাপতি  
 বাজেট ও সামষ্টিক অর্থনীতি

  
 Anisur Rahman

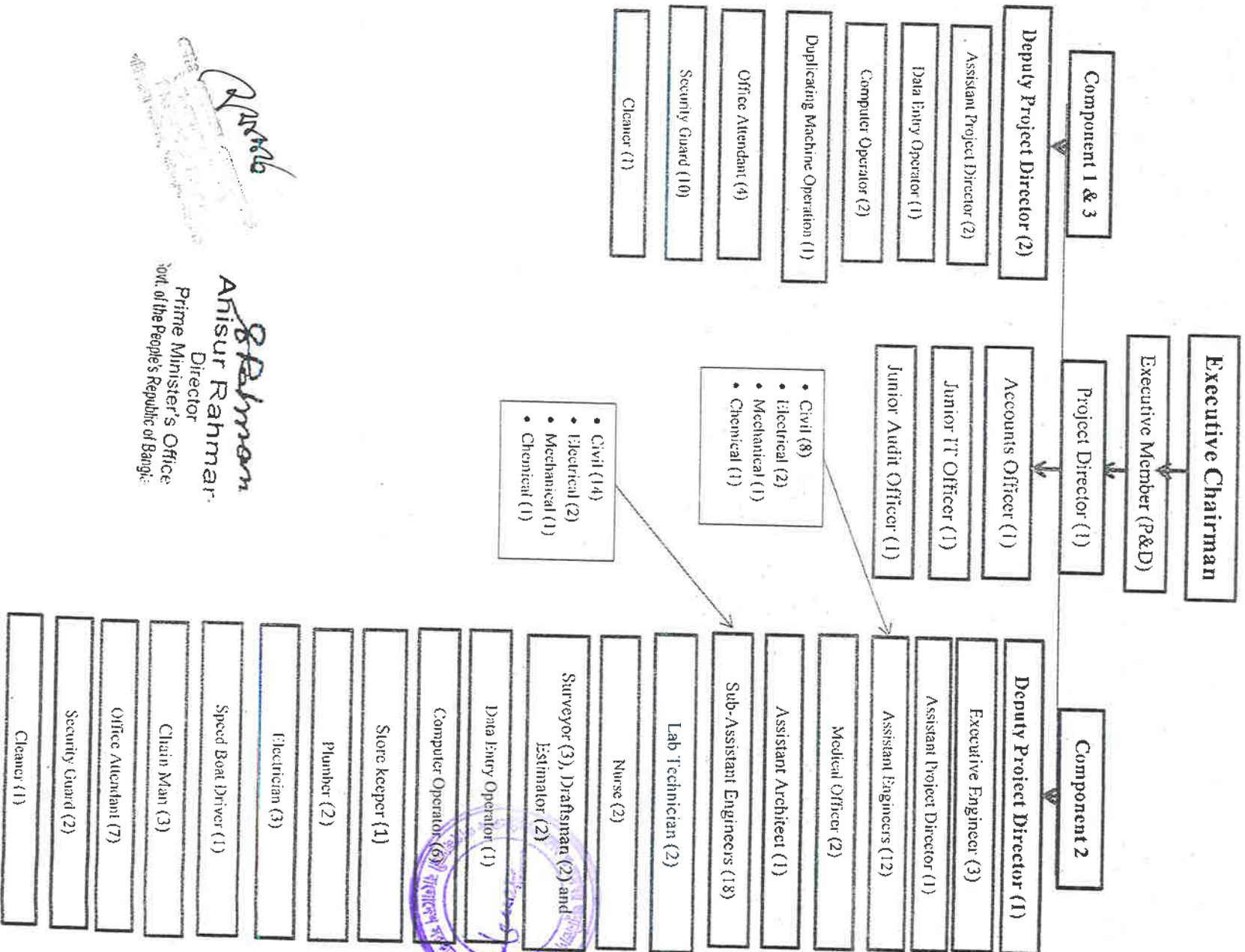
Director

Prime Minister's Office

Govt. of the People's Republic of Bangladesh



**Project Management Setup**



*Qureshi*  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

*Anisur Rahman*  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh





# মিরসরাই-২এ অর্থনৈতিক অঞ্চল

মহাব্যবস্থাপক

১X মহাব্যবস্থাপক  
১X সীট সিপিএর কান-কম্পিউটার অপারেটর  
১X অফিস সহায়ক

ব্যবস্থাপক

১X ব্যবস্থাপক  
১X অফিস সহকারী কান-  
কম্পিউটার অপারেটর  
১X অফিস সহায়ক

উপ ব্যবস্থাপক (প্রশাসন ও অর্থ)

১X উপ ব্যবস্থাপক  
১X অফিস সহায়ক

উপ ব্যবস্থাপক (বিনিয়োগ ও পরিকল্পনা)

১X উপ ব্যবস্থাপক  
১X অফিস সহায়ক

সহকারী ব্যবস্থাপক (প্রশাসন)

১X সহকারী ব্যবস্থাপক  
১X টেকনিক্যাল সহকারী  
১X অফিস সহকারী কান-  
কম্পিউটার অপারেটর  
১X গার্ডি মাস্টার  
১X মাস্টার  
১X নিয়ন্ত্রণ প্রহরী  
১X পরিষ্কারকারী

হিসাব রক্ষণ কর্মকর্তা

১X হিসাব রক্ষণ কর্মকর্তা  
১X অডিটর  
১X হিসাব সহকারী  
১X মাস্টার

সহকারী ব্যবস্থাপক (বিনিয়োগ)

১X সহকারী ব্যবস্থাপক

সহকারী প্রকৌশলী

১X সহকারী প্রকৌশলী  
৩X উপ সহকারী প্রকৌশলী  
১X কার্য সহকারী

সহকারী ব্যবস্থাপক (ওএসএস ও সমনয়)

১X সহকারী ব্যবস্থাপক

Govt. of the Peoples Republic of Bangladesh  
Prime Minister's Office  
Anisur Rahman  
Director

দায়মান সুবিনায়া  
মুসলিম  
ব্যবস্থাপক (এম এম এ ও গবেষণা)



মোঃ মোস্তাফিজুর রহমান  
উপ-ব্যবস্থাপক (ওএসএস ও সমনয়)  
পরিচালনা কমিশন, গার্ডিয়ান নগরায়ণ

মোঃ শোয়েব  
মহাব্যবস্থাপক (মুগু সচিব)  
বাংলাদেশ অর্থনৈতিক অঞ্চল কর্তৃপক্ষ  
প্রধানমন্ত্রীর কার্যালয়, ঢাকা।

Designed by: BH/PA to M (F&B)

500





**Anisur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

**মিরসরাই-২বি অর্থনৈতিক অঞ্চল**

**মহাব্যবস্থাপক**

- ১X মহাব্যবস্থাপক
- ১X স্টাফ ইন্সপেক্টর কম্পিউটার অপারেটর
- ১X অফিস সহায়ক

**ব্যবস্থাপক**

- ১X ব্যবস্থাপক
- ১X অফিস সহকারী কম্পিউটার অপারেটর
- ১X অফিস সহায়ক

**উপ ব্যবস্থাপক (প্রশাসন ও অর্থ)**

- ১X উপ ব্যবস্থাপক
- ১X অফিস সহায়ক

**উপ ব্যবস্থাপক (বিনিয়োগ ও পরিকল্পনা)**

- ১X উপ ব্যবস্থাপক
- ১X অফিস সহায়ক

**সহকারী ব্যবস্থাপক (প্রশাসন)**

- ১X সহকারী ব্যবস্থাপক
- ১X উচ্চমান সহকারী
- ১X অফিস সহকারী কম্পিউটার অপারেটর
- ১X গার্ডি চালক
- ১X ব্যান্ডেজার
- ৪X নিরাপত্তা প্রহরী
- ২X পরিচ্ছন্নকারী

**হিসাব রক্ষণ কর্মকর্তা**

- ১X হিসাব রক্ষণ কর্মকর্তা
- ১X অডিটর
- ১X হিসাব সহকারী
- ১X ব্যালেন্সার

**সহকারী ব্যবস্থাপক (বিনিয়োগ)**

- ১X সহকারী ব্যবস্থাপক

**সহকারী প্রকৌশলী**

- ১X সহকারী প্রকৌশলী
- ১X উপ সহকারী প্রকৌশলী
- ২X কার্ভ সহকারী

**সহকারী ব্যবস্থাপক (ওএসএস ও সঘনয়)**

- ১X সহকারী ব্যবস্থাপক

*(Signature)*  
**সমান্বিত চেম্বার**  
 সুসংক্রিয়  
 ব্যবস্থাপক (প্রশাসন ও অর্থ)

*(Signature)*  
 মোঃ মোস্তাফিজুর রহমান  
 উপ-প্রশাসন (সি.সি.)  
 নিয়ন্ত্রণ ও পরিচালনা বিভাগ  
 পরিচালনা কমিশন, অর্থনৈতিক অঞ্চল

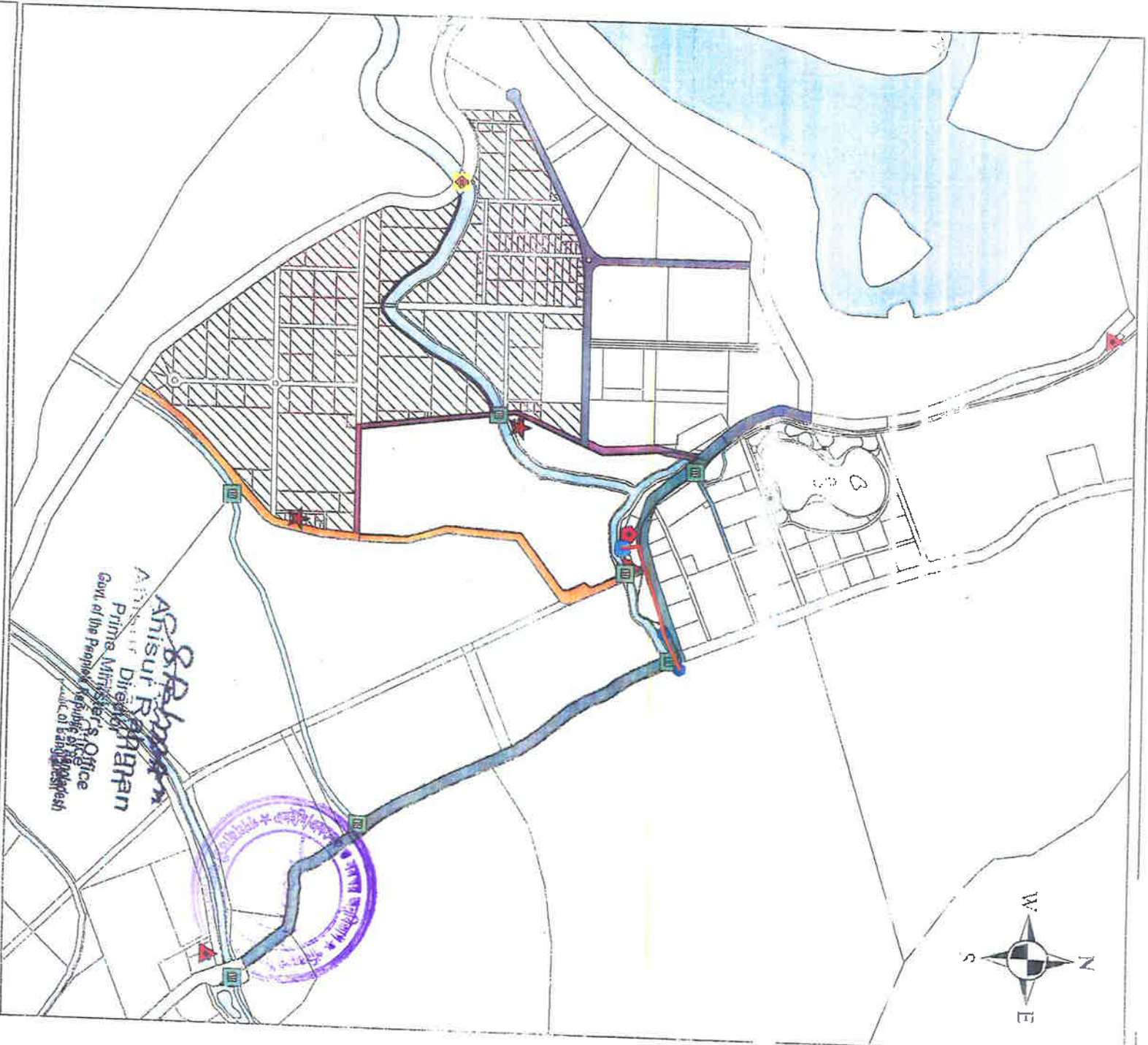
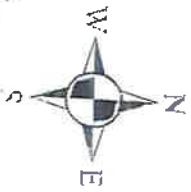
*(Signature)*  
**মোঃ শোয়েব**  
 মহাব্যবস্থাপক (মুগা সচিব)  
 বাংলাদেশ অর্থনৈতিক অঞ্চল কর্তৃপক্ষ  
 প্রধানমন্ত্রীর কার্যালয়, ঢাকা।

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# BMSN BEZDP Phase-01 Works

Appendix XII



## Legend

- Bridge & Culvert
- Admin Building
- Production Tubewell
- Security Shed
- Sub-station
- Water Reservoir
- Sluice Gate

- Water Pipeline
- Embankment
- Embankment cum Road
- Road
- Embankment / Super Dyke
- Land Development
- Zone 2A & 2B

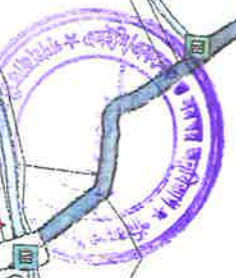


**BANGLADESH  
ECONOMIC ZONES  
AUTHORITY**

503



*Arifur Rahman*  
**Arifur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh



*স্বাক্ষরিত*  
 বাংলাদেশ সরকার  
 সড়ক ও জনপথ  
 বিভাগ

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NEGOTIATION DRAFT  
(Subject to Change)  
Vidya Venugopal  
May 11, 2020

CREDIT NUMBER 6676-BD

# Financing Agreement

(Bangladesh Private Investment and Digital Entrepreneurship Project)

between

PEOPLE'S REPUBLIC OF BANGLADESH

and

INTERNATIONAL DEVELOPMENT ASSOCIATION



*Anisur Rahman*  
**Anisur Rahman**  
Director  
Prime Minister's Office  
Govt. of the People's Republic of Bangladesh

*Dr. Md. A. Hossain*  
স্বাক্ষরিত/নবায়ন  
কর্তৃপক্ষ  
স্বাক্ষরিত (স্বাক্ষর করা ও মসকর)

*AB*

*[Signature]*

504

*Quamrul*  
স্বাক্ষরিত/নবায়ন  
কর্তৃপক্ষ  
স্বাক্ষরিত (স্বাক্ষর করা ও মসকর)  
অফিসের স্বাক্ষর, বাংলাদেশ

CREDIT NUMBER 6676-BD

FINANCING AGREEMENT

AGREEMENT dated as of the Signature Date between PEOPLE'S REPUBLIC OF BANGLADESH ("Recipient") and INTERNATIONAL DEVELOPMENT ASSOCIATION ("Association").

WHEREAS the Borrower has requested support from the Bank to contribute to the financing of the project described in Schedule I to this Agreement ("Project"), whose total cost is estimated at five hundred and fifty five million Dollars (\$555,000,000).

The Recipient and the Association hereby agree as follows:

ARTICLE I — GENERAL CONDITIONS; DEFINITIONS

- 1.01. The General Conditions (as defined in the Appendix to this Agreement) apply to and form part of this Agreement.
- 1.02. Unless the context requires otherwise, the capitalized terms used in this Agreement have the meanings ascribed to them in the General Conditions or in the Appendix to this Agreement.

ARTICLE II — FINANCING

- 2.01. The Association agrees to extend to the Recipient a credit, which is deemed as Non-Concessional Financing for purposes of the General Conditions, in an amount of four hundred and fifty nine million, eight hundred thousand Euros, (EUR 459,800,000) as such amount may be converted from time to time through a Currency Conversion (variously, "Credit" and "Financing" to assist in financing the project described in Schedule I to this Agreement ("Project").
- 2.02. The Recipient may withdraw the proceeds of the Credit in accordance with Section III of Schedule 2 to this Agreement.
- 2.03. The Front-end Fee is one quarter of one percent ( $\frac{1}{4}$  of 1%) of the Credit amount.
- 2.04. The Commitment Charge is one-quarter of one percent ( $\frac{1}{4}$  of 1%) per annum on the Unwithdrawn Credit Balance.
- 2.05. The Interest Charge is the Reference Rate plus the Fixed Spread or such rate as may apply following a Conversion; subject to Section 3.09(e) of the General Conditions.
- 2.06. The Payment Dates are May 1 and November 1 in each year.



১৫/৫/১৯  
মহানন্দ চৌধুরী  
সহকারী সচিব  
প্রশাসনিক (সহকারী সচিব ও মন্ত্রণালয়)

AS

Anisur Rahm  
Director  
Prime Minister's Office  
Govt. of the People's Republic of B.

AS

১৫/৫/১৯  
মহানন্দ চৌধুরী  
সহকারী সচিব  
প্রশাসনিক (সহকারী সচিব ও মন্ত্রণালয়)

2.07. The principal amount of the Credit shall be repaid in accordance with the repayment schedule set forth in Schedule 3 to this Agreement.

### ARTICLE III — PROJECT

3.01. The Recipient declares its commitment to the objectives of the Project. To this end, the Recipient shall, cause Parts (1), (2) and (3) of the Project to be carried out by BEZA, and Part (4) of the Project to be carried out by BHTPA, each in in accordance with the provisions of Article V of the General Conditions, Schedule 2 to this Agreement and the respective Project Agreement.

### ARTICLE IV — EFFECTIVENESS; TERMINATION

4.01. The Additional Conditions of Effectiveness consist of the following:

(a) The BEZA Project Operations Manual, in a form and substance satisfactory to the Association, has been adopted by BEZA;

(b) The BHTPA Project Operations Manual, in a form and substance satisfactory to the Association, has been and adopted by BHTPA.

4.02. The Effectiveness Deadline is the date ninety (90) days after the Signature Date.

4.03. For purposes of Section 10.05 (b) of the General Conditions, the date on which the obligations of the Recipient under this Agreement (other than those providing for payment obligations) shall terminate is twenty years after the Signature Date.

### ARTICLE V — REPRESENTATIVE; ADDRESSES

5.01. The Recipient's Representative is the Senior Secretary/Secretary or the Additional Secretary, or any Joint Secretary, Joint Chief, Deputy Secretary, Deputy Chief, Senior Assistant Secretary, Senior Assistant Chief, Assistant Secretary or Assistant Chief of the Economic Relations Division of the Ministry of Finance.

5.02. For purposes of Section 11.01 of the General Conditions: (a) the Recipient's address is:

Economic Relations Division  
Ministry of Finance  
Government of the People's Republic of Bangladesh  
Sher-12-Bangla Nagar 1207  
Dhaka, Bangladesh; and

(b) the Recipient's Electronic Address is:

Telex: \_\_\_\_\_ Facsimile: \_\_\_\_\_  
E-mail: \_\_\_\_\_

5.03. For purposes of Section 11.01 of the General Conditions: (a) The Association's address is:



3

*Dr. Md. Moinul Hossain*  
সিনিয়র সিনিয়র সচিব  
স্বাধীনতা উন্নয়ন  
বিভাগ (কাজী সুলতান আলী হাট রাস্তা)

*AM*

*AM*

506

*Ahmed*  
**Ahmedur Rahman**  
Director  
Prime Minister's Office  
Govt. of the People's Republic of Bangladesh

International Development Association  
1818 H Street, N.W.  
Washington, D.C. 20433  
United States of America; and

(b) the Association's Electronic Address is:

Telex: \_\_\_\_\_ [E-mail]: \_\_\_\_\_  
Facsimile: \_\_\_\_\_  
218423 (MCI) 1-202-477-6391 \_\_\_\_\_

AGREED as of the Signature Date.

PEOPLE'S REPUBLIC OF BANGLADESH

By

\_\_\_\_\_  
Authorized Representative

Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

INTERNATIONAL DEVELOPMENT ASSOCIATION

By

\_\_\_\_\_  
Authorized Representative

Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_



*Anisur Rahman*  
Anisur Rahman  
Director

Prime Minister's Office  
Govt. of the People's Republic of Bangladesh

*02/11/02*  
মন্ত্রণালয় (নেসডা)  
স্বাক্ষরিত  
কার্যালয় (এম. বি. ও. এ. অফিস)

*AR*

*4*  
*mm*

507

*Parvee*  
Director General  
Office of the Director General  
International Development Association  
Washington, D.C. 20433

**SCHEDULE 1**

**Project Description**

The objective of the Project is to promote private investment, job creation, and environmental sustainability in Participating Economic Zones and Software Technology Parks in Bangladesh.

The Project consists of the following parts:

**Part 1: Creating an Enabling Environment for Private Investment and Sustainability**

*1.1: Promoting good governance and building core institutional capabilities*

Provision of support to: (i) develop BEZA National Master Plan; (ii) design and implement a comprehensive gender-informed human resources (HR) policy and plan to strengthen HR management and core technical functions within BEZA, such as site selection, feasibility assessment, infrastructure development and maintenance, PPPs and transactions support; (iii) develop rules to reduce the scope for conflicts of interest between BEZA's role as a regulator and as a developer-operator; (iv) strengthen BEZA's capacity to implement, monitor and enforce contractual obligations and licensing requirements; (v) review and update BEZA's land allocation and pricing policy to reduce the risk of inefficient land use and land speculation; (vi) establish formal coordinating mechanisms at the local/district level and provide support to other public entities and private partners when needed; (vii) make an inventory of local micro, small and medium-sized enterprises proximate to BSMSN to boost local procurement; and (viii) develop a national policy framework for green economic zones that prioritizes green investments in the construction and management of infrastructure, utilities, buildings and common services and support the adoption and publication of national green economic zone guidelines.

*1.2: Structuring public private partnerships*

(i) Support the establishment and functioning of PPP SOU within BEZA to *inter alia* prepare feasibility studies, manage competitive bidding process, develop a BEZA-specific PPP framework, develop standard documentation, procedures and guidelines and monitor and coordinate contractual enforcement; (ii) carry out preliminary viability assessments, feasibility studies and transaction advisory services for the purpose of leveraging private capital; and (iii) facilitate the development of a pipeline of bankable PPP projects in an open and competitive manner including but not limited to a seaport in BSMSN, a tier-1 international master developer of an economic zone, and for projects related to industrial waste water management, water supply, and renewable energy production.

**Part 2: Developing a Greener and Climate Resilient BSMSN**

*2.1: Basic infrastructure to implement the BSMSN Master Plan*

(i) Develop on-site infrastructure and last mile infrastructure in BSMSN-2 as outlined in the BSMSN Master Plan, covering basic infrastructure networks including developing road network with storm water drainage, solar powered street lights, climate resilient water network (supply and sewer), power network and other utility connections; and (ii) promote investments for resilient site upgrade and green building and infrastructure development, and site level interventions for subsidence and liquefaction;.

*2.2: Introducing sustainable and resilient services*

AS

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০৩/১১/১৯  
স্বাক্ষরিত করেছেন  
স্বাক্ষরিত (স্বাক্ষর করা হয়েছে)  
সহকারী সচিব

০৩/১১/১৯  
স্বাক্ষরিত করেছেন  
স্বাক্ষরিত (স্বাক্ষর করা হয়েছে)  
সহকারী সচিব  
ANISUR RAHMAN  
Director  
Prime Minister's Office  
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(i) Support the design and construction of climate smart and resilient shared facilities and services within BSMNSN-2, and to expand to the residential and commercial areas where feasible; (ii) carry out feasibility studies, technical advice and necessary construction through select investments in wastewater treatment, desalination plants, climate and disaster resilient infrastructure, renewable (solar) energy generation based on a cascade approach in partnership with private operators; and (iii) strengthen capacity building and training through addressing the capacity gaps related to engineering design, construction, operation and maintenance of infrastructure and providing tools for monitoring, evaluation and improvement of the [Participating] Economic Zones.

### Part 3 : Creating a Private Market for Serviced Industrial Land

#### 3.1: Strengthen compliance mechanisms

Provision of technical assistance to (i) review and revise the regulations and procedures pertaining to the licensing of PEZs; (ii) support capacity building measures to monitor and enforce regulatory commitments and contractual obligations of economic zone developers-operators and industrial tenants; and (iii) support compliance with good social and environmental practices in the Economic Zones with an emphasis on developing of gender sensitive counselor programs within PEZs.

#### 3.2: Grant programs to encourage private investment in skills and green production

(i) Provision of grants for (a) the Voucher Program to build industry relevant skills formations for workers within the Economic Zones; and (b) the Grant Program to promote the implementation of green economic zone guidelines; and (ii) provide support for Grant/Voucher Program management.

### Part 4: Strengthening the Digital Entrepreneurship and Innovation Eco-system

#### 4.1 Establishing Dhaka's first digital entrepreneurship hub in Janata STP

(i) Recruitment of an experienced internationally recognized private operator for managing the expanded Janata STP (comprising of Janata-1 and Janata-2-STP respectively); and (ii) upgrade the facilities of Janata-1 STP; and (iii) build climate resilient Janata-2-STP with the construction of a new multistoried building.

#### 4.2 Digital Entrepreneurship, training and innovation support program

Provision of support to (i) design and implement the Entrepreneurship Program with special emphasis on women digital entrepreneurs; (ii) design and implement a program to mentor, advise and train digital entrepreneurs for the Start-up and Scale-up Facility within select STPs; (iii) establish University Innovation Hubs in technological universities and business schools and (iv) towards the necessary civil works in support of the same.



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SCHEDULE 2

Project Execution

Section 1. Implementation Arrangements

A. Institutional Arrangements.

1. The Recipient shall maintain, within the Economic Relations Division of its Ministry of Finance until Project completion, the CCU, with functions and resources satisfactory to the Association, and with staff in adequate numbers and with the qualifications, experience and terms of reference satisfactory to the Association. Without limitation on the foregoing, the CCU shall be headed by a Project Coordinator being a senior level person of the ERD, and shall be responsible *inter alia* for:  
(a) assisting BEZA and BHTPA involved in the Project in matters relating to inter-departmental and inter-ministerial coordination; (b) facilitate disbursement of the Credit proceeds to the Project Implementing Entities on the basis of the approved work plans; (c) submitting consolidated interim unaudited financial reports and withdrawal applications to the Association, monitor the flow and utilization of the Credit proceeds and coordinate the work of the auditors under the Project; (d) providing financial management, monitoring and evaluation advice, including organizing training of relevant staff on procurement and financial management; and (e) engaging a third-party consultancy for DLI verification.
2. The Recipient shall cause, each Project Implementing Entity to maintain, until completion of the Project, a Project Steering Committee, each with a composition acceptable to the Association, to:  
(a) ensure that the institutions involved in Project implementation are familiar with the said Project Steering Committees' policies, and ensure that said policies are adhered to in the course of Project implementation; (b) assist in overcoming constraints to Project implementation; and (c) address Project related complaints from stakeholders and/or beneficiaries.

B. Project Operations Manuals

1. The Recipient shall cause BEZA to prepare and adopt, prior to the Effective Date, the BEZA Project Operation Manual in a manner and substance satisfactory to the Association, setting forth the principles, protocols and procedures, for its Respective Part of Project, including *inter alia*: (i) the details of the Project activities including results framework and overall budget; (ii) the implementation arrangements for its Respective Part of the Project; (iii) the format of the interim unaudited financial reports to be submitted; (iv) the administrative, accounting, auditing, reporting, financial management and procurement requirements; (v) criteria for the identification, selection and planning of activities under Part 3.2 of the Project; (vi) draft of the template of the Sub-grant Agreement (viii) the environmental and social safeguard requirements; and (ix) the monitoring and evaluation, and reporting requirements; and thereafter, implement its Respective Part of the Project in accordance with the BEZA Project Operations Manual.
2. The Recipient shall cause BHTPA to prepare and adopt, prior to the Effective Date, the BHTPA Project Operation Manual in a manner and substance satisfactory to the Association, setting forth the principles, protocols and procedures, for its Respective Part of Project including *inter alia*: (i) the details of the Project activities for its Respective Part of the Project including results framework and overall budget; (ii) the implementation arrangements; (iii) the format of the interim unaudited financial reports to be submitted; (iv) the administrative, accounting, auditing, reporting, financial management and procurement requirements; (v) details of the



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programs under Part 4.2 of the Project; (vi) draft of the Implementation Agreement template (vii) the environmental and social safeguard requirements; and (viii) the monitoring and evaluation, and reporting requirements; and thereafter, implement its Respective Part of the Project in accordance with the BHITPA Project Operations Manual.

3. The Recipient shall, and shall cause the Project Implementing Entities to refrain from amending, revising, waiving, voiding, suspending or abrogating any provision of the Project Operations Manuals, whether in whole or in part, without the prior written agreement of the Association.

4. In the event of any inconsistency between the provisions of either of the Project Operations Manuals and this Agreement, this Agreement shall govern.

C. Environmental and Social Standards.

1. The Recipient shall, and shall cause the Project Implementing Entities to, ensure that the Project is carried out in accordance with the Environmental and Social Standards, in a manner acceptable to the Association.

2. Without limitation upon paragraph 1 above, the Recipient shall, and shall cause the Project Implementing Entities to ensure that the Project is implemented in accordance with the Environmental and Social Commitment Plan ("ESCP"), in a manner acceptable to the Association. To this end, the Recipient shall, and shall cause the Project Implementing Entities to, ensure that:

- (a) the measures and actions specified in the ESCP are implemented with due diligence and efficiency, and as further specified in the ESCP;
- (b) sufficient funds are available to cover the costs of implementing the ESCP;
- (c) policies, procedures and qualified staff are maintained to enable it to implement the ESCP, as further specified in the ESCP; and
- (d) the ESCP or any provision thereof, is not amended, revised or waived, except as the Association shall otherwise agree in writing and the Recipient has, thereafter, disclosed the revised ESCP.

3. In case of any inconsistencies between the ESCP and the provisions of this Agreement, the provisions of this Agreement shall prevail.

4. The Recipient shall, and shall cause each of the Project Implementing Entities to:

- (a) take all measures necessary on its part to collect, compile, and furnish to the Association through regular reports, with the frequency specified in the ESCP, and promptly in a separate report or reports, if so requested by the Association, information on the status of compliance with the ESCP and the environmental and social instruments referred to therein, all such reports in form and substance acceptable to the Association, setting out, inter alia: (i) the status of implementation of the ESCP; (ii) conditions, if any, which interfere or threaten to interfere with the implementation of the ESCP; and (iii) corrective and preventive measures taken or required to be taken to address such conditions; and

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(b) promptly notify the Association of any incident or accident related to or having an impact on the Project which has, or is likely to have, a significant adverse effect on the environment, the affected communities, the public or workers, in accordance with the ESCP, the environmental and social instruments referenced therein and the Environmental and Social Standards.

5. The Recipient shall, and shall cause each of the Project Implementing Entities to establish, publicize, maintain and operate an accessible grievance mechanism, to receive and facilitate resolution of concerns and grievances of Project-affected people, and take all measures necessary and appropriate to resolve, or facilitate the resolution of, such concerns and grievances, in a manner acceptable to the Association.

6. The Recipient shall ensure, and cause the Project Implementing Entities to ensure that: (a) all consultancies related to technical assistance, design and capacity building under the Project, the application of whose results could have environmental, social and health and safety implications, shall only be undertaken pursuant to terms of reference reviewed and found satisfactory by the Association; and (b) such terms of reference shall require the technical assistance, design and capacity building activities to take into account the requirements of the applicable Bank Safeguards Policies and EHS Guidelines.

7. In respect of each PPP project to be developed under Part 1.2 of the Project, the Recipient shall cause BEZA to: (i) prepare the necessary safeguard instruments as required under the ESCP; (ii) ensure that any such instrument is furnished to the Association for its review prior to the implementation of the said PPP project/sub-project; and adopt and disclose such safeguard instruments.

8. The Recipient shall, and shall cause each of the Project Implementing Entities to, ensure that all bidding documents and contracts for civil works under the Project include the obligation of contractors, and subcontractors and supervising entities to: (a) comply with the relevant aspects of ESCP and the environmental and social instruments referred to therein; and (b) adopt and enforce codes of conduct that should be provided to and signed by all workers, detailing measures to address environmental, social, health and safety risks, and the risks of sexual exploitation and abuse, sexual harassment and violence against children, all as applicable to such civil works commissioned or carried out pursuant to said contracts.

#### D. Expenditures to be Exclusively Financed with Counterpart Funds

The Recipient shall ensure that the following expenditures are financed exclusively out of its own resources or the resources of the Project Implementing Entities, as applicable, and not out of the proceeds of the Credit: (i) all land required for the purposes of the Project; (ii) all resettlement and rehabilitation compensation and other assistance to Affected Persons, in accordance with the RAPPs; (iii) recurrent expenditures such as workshop allowances, sitting allowances, cash per diems, honoraria and fuel; and (iv) purchase of vehicles.

#### Section II. Project Monitoring, Reporting and Evaluation

The Recipient shall, and shall cause the Project Implementing Entities to furnish to the Association each Project Report for its/her Respective Part of the Project, in a format agreed with the Bank not later than forty-five days after the end of each calendar quarter, covering the calendar quarter.

#### Section III. Withdrawal of the Proceeds of the Financing



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Prime Minister's Office  
Govt. of the People's Republic of Bangladesh

A. General

Without limitation upon the provisions of Article II of the General Conditions and in accordance with the Disbursement and Financial Information Letter, the Recipient may withdraw the proceeds of the Financing to: (a) finance eligible Expenditures; (b) pay each Interest Rate Cap or Interest Rate Collar premium in the amount allocated and, if applicable, up to the percentage set forth against each Category of the following table:

Category	Amount of the Credit Allocated (expressed in EUR)	Percentage of Expenditures to be Financed (inclusive of Taxes)
(1) Goods, works, non-consulting services, consulting services, Training and Operating Costs for Parts 1, and 3.1 of the Project and 3.2	46,000,000	92.55%
(2) Goods, works, non-consulting services, consulting services, Training and Operating Costs for Part 2 of the Project	225,250,000	58.89%
(3) Grants under Part 3.2 of the Project towards	13,800,000	100%
(i) Voucher Program	18,400,000	100%
(ii) Grant Program	1,850,000	100%
(4) Goods, non-consulting services, consulting services, Training and Operating Costs for Part 4.1 of the Project and Works for Part 4.1 (ii) of the Project	16,550,000	100%
(5) Goods, works, non-consulting services, consulting services, Training, and Operating Costs under Part 4.2	128,750,000	33.65%
(6) (i) BEZA EEPs	9,200,000	50%
(ii) BIITPA EEP		
(7) Interest Rate Cap or Interest Rate Collar premium		Amount payable pursuant to Section 2.03 of this Agreement in accordance with Section 2.07 (b) of the General Conditions
<b>TOTAL AMOUNT</b>	<b>459,800,000</b>	

Withdrawal Conditions; Withdrawal Period

Notwithstanding the provisions of Part A above, no withdrawal shall be made:

- (i) for payments made prior to the Signature Date, except that withdrawals up to an aggregate amount not to exceed EUR 4, 600,000/- (four million six hundred thousand)



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সংসদ ভবন, ঢাকা

may be made for payments made prior to this date but on or after April 1, 2020, for the BEZA Eligible Expenditures under Category (1); or

(ii) for payments made prior to the Signature Date, except that withdrawals up to an aggregate amount not to exceed EUR 4, 600,000/- (*four million six hundred thousand*) may be made for payments made prior to this date but on or after April 1, 2020, for the BEZA Eligible Expenditures under Category (2); or

(b) for either of BEZA EEPs under Category 6 (i) or BHTPA EEPs under Category 6 (ii), unless and until the Recipient has:

(i) furnished evidence satisfactory to the Association in accordance with the DLJ Verification Protocol set forth in the BEZA Project Operations Manual or the BHTPA Project Operations Manual as the case may be, that the Recipient has achieved the respective DLJ Targets set forth in Schedule 4 to this Agreement against which withdrawal is requested; and

(ii) complied with the instructions referred to in Section III.A of this Schedule, including furnished to the Association the applicable interim unaudited financial reports documenting the incurrence of BEZA EEP or BHTPA EEPs, as the case may be during the respective Fiscal Year up to the date against which withdrawal is requested.

(iii) No later than August 1, 2020, or the first disbursement against Disbursement Linked Indicators (DLIs) disbursed against either Project Implementing Entity, whichever comes first, unless the Recipient shall engage an independent Verification Agent - with qualifications, experience and terms of reference acceptable to the Association, to confirm the fulfillment of the verification protocols for the DLIs and authorize disbursement.

2. Notwithstanding the provisions of paragraph 1(b) above, the amount of the Credit to be withdrawn upon the verified achievement of any DLJ Target shall not exceed the lesser of: (a) the amount allocated against such DLJ Target; and (b) the amount of the BEZA EEP or BHTPA EEP expenditures, as the case may be under Category (6) (i) or 6 (ii), including those incurred but not yet paid by the proceeds of the Credit, at the date of submission of such withdrawal application.

3. Notwithstanding the provisions of paragraph 1(b) above, with regards to the DLIs, the Recipient may request withdrawals of Credit for relevant expenditures to be incurred, but prior to the DLJs having been met, provided that the Recipient shall: (a) meet such DLJs no later than the Closing Date; and (b) submit to the Association evidence satisfactory to it of such DLJs having been met no later than the Disbursement Deadline Date.

4. If by or before the Disbursement Deadline Date, the Recipient has failed to provide the Association evidence satisfactory to the Bank that the DLJs related to Category 6(i) or 6(ii) have been fully met, the Recipient shall, upon notice from the Association, promptly refund to the Bank the Withdrawn Credit Balance related to such Category 6(i) or 6(ii). Except as the Bank may otherwise determine, the Bank shall cancel all amounts refunded pursuant to this Section.

5. Notwithstanding the provisions of Part B.1 (b) of this Section, if the Association shall determine, that any DLJ Target has not been fully achieved in accordance with the table in Schedule 4 to this Agreement/ and or the amount allocated against such DLJ Target has not been fully withdrawn,

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Association may in its sole discretion, by notice to the Recipient: (i) reallocate all or a portion of the proceeds of the Credit then allocated to said DLI Target to any other DLI Target(s); and/or (ii) cancel in whole or in part, the proceeds of the Credit then allocated to said DLI Target.

6. Notwithstanding the provisions of paragraphs of Part B.1(b) of this Section, with respect to the DLI Targets for the period current at the time of any withdrawal, if the DLI Target(s) for the subsequent period(s) has/have been partially or fully achieved in such current period(s), the Bank may at any time, by notice to the Borrower, decide to authorize the withdrawal of part or all of the amount allocated against the said DLI Target incurred in such current period up to the allocated amount of such DLI Targets achieved during such current period, and the allocated amount in the subsequent DLI Target shall be correspondingly reduced.

7. If, at any time, the Association determines that any portion of the amounts disbursed under Category 6(i) or 6(ii) was: (i) for expenditures which are not eligible under BEZA EEP or BHTPA EEP; or (ii) not in compliance with the provisions of Section III.B.1(c) of this Schedule 2, the Recipient shall promptly refund any such amount to the Association as the Association shall specify by notice to the Recipient.

8. The Closing Date is December 31, 2025.

**Section IV. Other Undertakings**

- A. The Recipient shall provide, and cause each Project Implementing Entity to provide, as needed, the funds, facilities and services and other resources required for their Respective Parts of the Project.
- B. The Recipient shall cause BHTPA to identify and recruit a suitable private operator and enter into an Implementation Agreement for the Start-up Facility and the University Innovation Hubs respectively.
- C. The Recipient through its CCU shall computerize its FM systems within one year from the Effective Date.



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SCHEDULE 3

Repayment Schedule

Commitment-Linked Amortization Repayment Schedule

The following table sets forth the Principal Payment Dates of the Credit and the percentage of the total principal amount of the Credit payable on each Principal Payment Date ("Installment Share")

Level Principal Repayments	
Principal Payment Date	Installment Share
On each November 1 and May 1	
Beginning November 1, 2024 through November 1, 2053	1.67%
On May 1, 2054	1.47%



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**SCHEDULE 4**

**Disbursement-Linked Indicators (DLIs)<sup>1</sup>, Disbursement-Linked Indicator Targets, and Disbursement-Linked Indicator Values applicable to the Project**

DLI	DLI Targets for Year 1 (FY-2020/21)	DLI Targets for Year 2 (FY2021/2022)	DLI Targets for Year 3 (FY2022/2023)	DLI Targets for Year 4 (FY2023/2024)
DLI 1: Strengthen the institutional capabilities of BEZA and make it an effective and financially sustainable institution under Part 1.1	1.1: Establish a dedicated Environmental & Social Unit and appoint at least (3) three specialized staff tasked with the monitoring and compliance of developers, operators and unit investors.	1.2: Adapt & publish the BEZA National Master Plan with phased hard development on the BEZA website.  1.3: BEZA Executive Board adopts a financial policy and institutional revenue model with revised financially sustainable annual land lease rates and fair competition rules.		1.5: Publish an annual report on the BEZA website with standard reporting criteria for all entities with a final economic zone license, including an tax deductibility/compliance, investment and jobs.
Allocated Amount: \$100 27,588,000	For 1.1: EUR 4,598,000, by 30/6/21	For 1.2: EUR 6,897,000, by 31/12/21 For 1.3: 6,897,000, by 30/6/22 For 1.4: EDR 4,598,000, by 30/6/22		For 1.5: EUR 4,598,000, by 31/12/23
DLI 2: Level the playing field for developer-operators of economic zones under Part 1.1, 2.1 and Part 3.1	2.1: Update BEZA's policy on the ratio of third-party-to-affiliate unit investors in PEZs from 50% to 60% by December 31, 2022 and 65% by December 31, 2023 with non-compliance provisions for newly approved PEZs	2.2: Adopt & publish PEZ developer qualification requirements, PEZ license application & approval procedures; a periodic monitoring system tracking compliance with PEZ requirements; PEZ license termination procedures.		

<sup>1</sup> These DLIs are not time-bound. The Fiscal Years in which they are expected to be achieved as per this Schedule are strictly for indicative purposes. These DLIs can accordingly be met up and until the Closing Date, but in all cases subject to meeting the requirements set out in Section III.B of Schedule 2 to this Agreement. Unless otherwise specified, the DLI Target(s) where there are more than one in a FY, can be achieved separately.



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DLI	DLI Targets for Year 1 (FY-2020/21)	DLI Targets for Year 2 (FY2021/2022)	DLI Targets for Year 3 (FY2022/2023)	DLI Targets for Year 4 (FY2023/2024)
DLI-3: Mainstream sustainable and climate resilient practices in economic zones under Part I of the Project	3.1: BEZA Executive Board approves the National Guidelines for Green Economic Zones 3.2: Establish an engineering unit with (3) three full-time specialized staff for the technical design and maintenance of infrastructure.	3.3 BEZA Executive Board includes a condition for the BSMSN-2 in all land lease agreements that requires lessees to use waste and waste heat, and treated wastewater when available		
Allocated Amount: EUR 21,990,000	For 2.1: EUR 9,196,000, by 30/06/21	For 2.2: EUR 4,598,000, by 31/12/21 For 2.3: EUR 9,196,000, by 30/6/22		
Allocated Amount: EUR 13,794,000	For 3.1: EUR 4,598,000, by 30/06/21 For 3.2: EUR 4,598,000, by 30/6/21	For 3.3: EUR 4,598,000, by 31/7/221		
DLI 4: Establish a PPP SOU and structure three transactions under Part 1.2 and Part 2.2 of the Project	4.1: BEZA Executive Board adopts BEZA standard operating procedures for PPPs 4.2: Launch an open competitive PPP tendering of the CEIP 4.3: Recruit a dedicated technical team with at least three full-time staff members for a PPP SOU	4.4: Launch an open competitive PPP tendering for a tier-1 international master developer 4.5: Launch an open competitive PPP tendering of one green priority infrastructure service		

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DLI	DLI Targets for Year 1 (FY:2020/21)	DLI Targets for Year 2 (FY2021/2022)	DLI Targets for Year 3 (FY2022/2023)	DLI Targets for Year 4 (FY2023/2024)
Allocated Amount: EUR 64,378,008	For 4.1: EUR 9,196,000, by 30/06/21 For 4.2: EUR 9,196,000, by 30/06/21 For 4.3: EUR 9,196,000, by 30/06/21	For 4.4: EUR 18,395,000, by 31/12/21 For 4.5: EUR 18,395,000, by 31/12/21	For 5.2: Award operator contract for Janak-2 For 5.2: EUR 7,360,000, by 31/12/22	
DLI 5: Establish a privately-operated flagship STP under Part 4, i of the Project		5.1: Launch an open competitive PPP tendering process for an internationally recognized operator of Janak-2		
Allocated Amount: 9,290,000		For 5.1: EUR 1,840,000, by 31/12/21		

  
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 সার্বভৌম (সব শরৎ লস্ট ও মাসলা)

APPENDIX

Section 1. Definitions

1. "Anti-Corruption Guidelines" means, for purposes of paragraph 5 of the Appendix to the General Conditions, the "Guidelines on Preventing and Combating Fraud and Corruption in Projects Financed by IBRD Loans and IDA Credits and Grants", dated October 15, 2006 and revised in January 2011 and as of July 1, 2016.
2. "BEZA" means the Bangladesh Economic Zones Authority, an authority established pursuant to the Bangladesh Economic Zones Act, 2010 (Act No. 42 of 2010) (as amended to the date of this Agreement), or any successor acceptable to the Association.
3. "BEZA National Master Plan" means the master plan to be adopted by the competent authorities governing BEZA.
4. "BEZA Project Operations Manual" means the manual to be adopted by BEZA pursuant to the provisions of Section I.B.1 of Schedule 2 to this Agreement, as such manual may be amended from time to time with the prior concurrence of the Association.
5. "Beneficiary" means an eligible beneficiary selected pursuant to the criteria stipulated in the BEZA Project Operations Manual being a recipient of the grant provided under the terms of the Sub-Grant Agreement.
6. "BITPA" means the Bangladesh Hi-Tech Park Authority, an authority established pursuant to the Bangladesh Hi-Tech Park Authority Act, 2010 of the Recipient, dated March 18, 2010, (as amended to the date of this Agreement), or any successor acceptable to the Association.
7. "BITPA Project Operations Manual" means the manual to be adopted by BITPA pursuant to the provisions of Section I.B.2 of Schedule 2 to this Agreement, as such manual may be amended from time to time with the prior concurrence of the Association.
8. "BSMSN" means the Bangabandhu Sheikh Mujib Shilpa Nagar, the Economic Zones being set up under the Bangladesh Economic Zones Act, 2010 located within the Chittagong and Feni district areas developed/being developed under the BSMSN Master Plan.



০১/১৯  
মহাপাঠক, প্রকল্প  
সুপারভাইজার  
বঙ্গবন্ধু (১২) জিপি এন এ স্ট্যান্ড

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মহাপাঠক, প্রকল্প  
সুপারভাইজার  
বঙ্গবন্ধু (১২) জিপি এন এ স্ট্যান্ড


Anisur Rahman  
Director


Prime Minister's Office  
Govt. of the People's Republic of Bangladesh

9. <sup>2</sup>"BSMSN Master Plan" means the plan prepared and approved by the Prime Minister's Office.
10. "BSMSN-2" is the economic zone area within BSMSN comprising of BSMSN 2A and 2B as identified in the BSMSN Master Plan.
11. "Category" means a category set forth in the table in Section III.A of Schedule 2 to this Agreement.
12. "CCU" means the central coordination unit, established within the ERD.
13. "DLI" mean any one of the disbursement-linked indicators set out in the table in Schedule 4 to this Agreement; and "DLIs" means, more than one such DLI.
14. "DLI Target" means any one of the annual targets set to be achieved under each DLI as set forth in the table in Schedule 4 to this Agreement; and "DLI Targets" means, collectively, more than one such target.
15. "DLI Verification Protocol" means the set of procedures, prepared for the Project and acceptable to the Bank as provided for in each of the BEZA Project Operation Manual and the BHTPA Project Operations Manual, to verify the achievement of DLI Targets, which sets out, *inter alia*, the description of the evidence required; as the same may be amended from time to time with the prior written agreement of the Bank.
16. "Disbursement Deadline Date" means the final date, established by the Association, for the receipt of applications for withdrawal and supporting documentation as specified in the Disbursement and Financial Information Letter
17. "BEZA EEP" means the eligible expenditure program being the expenditures incurred on goods, works, non-consulting services, consulting services, Training and Operating costs incurred by BEZA under Part 2.1 and 2.2 of the Project, to the extent of 33.65% as outlined in the BEZA Project Operations Manual,
18. BHTPA EEP" means the eligible expenditure program being the expenditures incurred on goods, works, non-consulting services, consulting services, training and operating costs for BHTPA under Part 4.1 of the Project, to the extent of 50%, as outlined in the BHTPA Project Operations Manual.
19. "ERD" means the Recipient's Economic Relations Division within its Ministry of Finance.



<sup>2</sup>At the time of signing to confirm if this has been approved by the Governing Body.

  
 মহানগর পরিষদ  
 সুপ্রিম  
 কার্যালয় (এম বিডি এফ এ মন্ত্রণা)

  
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**Anisur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh



20. "Economic Zone" means any site recognized as an economic zone pursuant to the provisions of Section 5 of the Bangladesh Economic Zones Act, 2010, as amended; and "Economic Zones" shall mean all such zones.

21. "Entrepreneurship Program" means the program established by BHTPA under Part 4.2 of the Project to provide awards to promote digital entrepreneurship.

22. "Environmental and Social Commitment Plan" or "ESCP" means the environmental and social commitment plan for the Project, dated May 7, 2020, as the same may be amended from time to time in accordance with the provisions thereof, which sets out the material measures and actions that the Project Implementing Entities shall carry out or cause to be carried out to address the potential environmental and social risks and impacts of the Project, including the timeframes of the actions and measures, institutional, staffing, training, monitoring and reporting arrangements, and any environmental and social instruments to be prepared thereunder.

23. "Environmental and Social Standards" means, collectively: (i) "Environmental and Social Standard 1: Assessment and Management of Environmental and Social Risks and Impacts"; (ii) "Environmental and Social Standard 2: Labor and Working Conditions"; (iii) "Environmental and Social Standard 3: Resource Efficiency and Pollution Prevention and Management"; (iv) "Environmental and Social Standard 4: Community Health and Safety"; (v) "Environmental and Social Standard 5: Land Acquisition, Resettlement and Involuntary Resettlement"; (vi) "Environmental and Social Standard 6: Biodiversity Conservation and Sustainable Management of Living Natural Resources"; (vii) "Environmental and Social Standard 7: Indigenous Peoples/Sub-Saharan Historically Underserved Traditional Local Communities"; (viii) "Environmental and Social Standard 8: Cultural Heritage"; (ix) "Environmental and Social Standard 9: Financial Intermediaries"; (x) "Environmental and Social Standard 10: Stakeholder Engagement and Information Disclosure"; effective on October 1, 2018, as published by the Association.

24. "Fiscal Year" or the acronym "FY" means the Borrower's fiscal year, which begins on July 1 of each calendar year and ends on June 30 of the next calendar year.

25. "General Conditions" means the "International Development Association General Conditions for IDA Financing, Investment Project Financing", dated December 14, 2018.

"Grant Program" means the grant program to be established to support the tenant companies within BSMSN-2 that incur select expenditures for the investment in green and resilient buildings, or green technologies for their buildings or adopt business continuity management practices, as further provided for in the BEZA Program Operations Manual.

*Ahmedur Rahman*  
**Ahmedur Rahman**  
Director  
Prime Minister's Office  
Govt. of the People's Republic of Bangladesh



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*Arifur*  
সচিব, পরিচালনা কমিটি  
গণপ্রজাতন্ত্রী বাংলাদেশ  
১৯৯৬ সাল

27. "Implementation Agreement" means any such agreement to be entered into between BHTPA and the select private operator for the implementation of the activities under Part 4.2 of the Project.
28. "Independent Verification Agent" or "IVA" means the third-party agency/entity to be appointed by the Recipient to undertake the verification of the DLIs pursuant to the DLI Verification Protocol.
29. "Ministry of Finance" means the Recipient's Ministry of Finance.
30. "Operating Costs" mean the reasonable costs required by the Recipient or the Project Implementing Entities, for the day-to-day coordination, administration and supervision of Project activities, including leasing and/or routine repair and maintenance of vehicles, equipment, facilities and office premises; office rent; office supplies; utilities; consumables; communication expenses; translation; photocopying and postal expenses; bank charges; insurance; costs of clearing, forwarding, inspection, survey and transportation of goods; Project-related meeting expenses; Project-related travel, subsistence and lodging expenses; provided that such Operating Costs are paid to the eligible recipient through the banking system (except for petty cash expenses following the Recipient's existing policy); but excluding salaries, workshop allowances, sitting allowances/per diems/honoraria for meetings, conferences, seminars, workshops and study visits, expenditures and fuel.
31. "PEZs" means any of the private economic zones established and declared pursuant to the provisions of the Recipient's Bangladesh Economic Zones Act, 2010 read with the Bangladesh Private Economic Zones Policy, 2015.
32. "PIUs" means the Project implementation units referred to in Section I.A.1 of Schedule to the Project Agreements.
33. "PPP" means public private partnerships.
34. "PPP SOLU" means the PPP special operations unit to be established within BEZA responsible for undertaking PPP transactions of BEZA.
35. "Participating Economic Zones" means the Economic Zones within the BSMSN region and the PEZs located outside BSMSN within the territory of the Recipient.
36. "Participating Software Technology Parks" means the STPs, not being in the nature of hi-tech parks licensed by BHTPA producing goods.
37. "Procurement Regulations" means, for purposes of paragraph 87 of the Appendix to the General Conditions, the "World Bank Procurement Regulations for IPP Borrowers", dated July 2016, revised November 2017 and August 2018.



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 মন্ত্রণালয় সচিবালয়  
 অফিস  
 ধাকাকা (১৯৯৯ সন ৪ নং)

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*Anisur Rahman*  
 Anisur Rahman  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

০১/১০  
 মন্ত্রণালয় সচিবালয়  
 অফিস  
 ধাকাকা (১৯৯৯ সন ৪ নং)



১৯/১১/১৯  
মুদ্রিত (১৯/১১/১৯)  
মুদ্রিত (১৯/১১/১৯)

Director  
Prime Minister's Office  
Govt. of the People's Republic of Bangladesh

Anisur Rahman

- 38. "Project Implementing Entity" means each of the (i) BEZA and (ii) BHTPA respectively and their respective successors thereto, and collectively the "Project Implementing Entities".
- 39. "Project Operations Manuals" shall mean collectively, the BEZA Project Operations Manual and the BHTPA Project Operations Manual.
- 40. "Project Steering Committee" means the committee set up by each Project Implementing Entity referred to in Section 1.A.2 of Schedule 2 to this Agreement.
- 41. "Signature Date" means the later of the two dates on which the Recipient and the Association signed this Agreement and such definition applies to all references to "the date of the Financing Agreement" in the General Conditions.
- 42. "Software Technology Parks" or "STPs" means software technology parks as established under the Bangladesh Hi-Tech Park Authority Act, 2010.
- 43. "Start-up and Scale-up Facility" means the program to be established by BHTPA under Part 4.2 of the Project with the objective of providing incubation and acceleration support, market entry and market expansion advisory to assist digital entrepreneurs.
- 44. "Sub-grants" shall mean the grants provided under the Grant Program financed under Part 3.2 of the Project.
- 45. "Sub-grant Agreement" means an agreement to be entered between BEZA and a Beneficiary for purposes of providing a Sub-grant, referred to in Section 1.D of Schedule 1 to the Project Agreement.
- 46. "Sub-project" means an eligible sub-project, on the basis of eligibility criteria listed in the BEZA Project Operations Manual, which is proposed to be implemented, under Part 3.2 of the Project.
- 47. "University Innovation Hubs" shall mean the hubs to be established by BHTPA within select universities and business schools to *inter alia* provide incubation support, training and coaching to students, facilitate industry partnerships, have dedicated programs targeting women and design and implement train-the-trainer program for university officials.
- 48. "Voucher Program" means the training program to be established as a trainee grant program for the employees (new or existing) to support new unit investors/industrial tenants within select Economic Zones for supporting specialized industry-relevant skills, as further provided for in the BEZA Project Operations Manual.

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মুদ্রিত (১৯/১১/১৯)  
মুদ্রিত (১৯/১১/১৯)




- 49. "Training" means the reasonable costs required for the participation of personnel involved in training activities, conferences, seminars and workshops under the Project, which have been approved by the Association in writing on an annual basis, including: (a) travel, hotel, and subsistence costs associated to training, conferences, seminars and workshops provided that such costs are paid directly to the eligible recipient using the banking system; and (b) costs associated with rental of training, conferences, study tours, seminar and workshop facilities; preparation and reproduction of training, conference, seminar and workshop materials; costs of academic degree studies; and other costs directly related to preparation and implementation of any training course or workshop; but excluding sitting allowances, workshop allowances and honorarium of any nature.
- 50. "Year 1" means the Fiscal Year commencing July 1, 2020 and ending June 30, 2021.
- 51. "Year 2" means the Fiscal Year commencing July 1, 2021 and ending June 30, 2022.
- 52. "Year 3" means the Fiscal Year commencing July 1, 2022 and ending June 30, 2023
- 53. "Year 4" means the Fiscal Year commencing July 1, 2023 and ending June 30, 2024

  
 মন্ত্রণালয় পরিচালক  
 মুক্তিযোদ্ধা  
 কার্যালয় (এম জি কে ও মন্ত্রণালয়)



  
**Anisur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

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 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

**BANGLADESH PRIVATE INVESTMENT AND DIGITAL ENTREPRENEURSHIP  
PROJECT**

Minutes of Negotiations  
between  
People's Republic of Bangladesh  
&  
International Development Association  
May 11, 2020

1. Negotiations for an IDA Credit of EUR 459,800,000 (USD 500 million equivalent) to be provided by the International Development Association ("World Bank" or "Bank") to Bangladesh, for the proposed Private Investment and Digital Entrepreneurship Project (the Project) were held between delegations representing the People's Republic of Bangladesh (the Recipient's Delegation) and the International Development Association (the Association's Delegation) at the Bank's office in Dhaka, Bangladesh, and vide video-conference on May 7, 2020 and concluded on May 11, 2020. The list of members of the two delegations is provided in Annex 1 to these Minutes of Negotiations (the Minutes).

2. **Introduction.** These Minutes summarize the understanding reached between the two delegations pertaining to (a) the draft Financing Agreement; (b) the draft Project Agreement between the Association and Bangladesh Economic Zones Authority (BEZA); (c) the draft Project Agreement between the Association and Bangladesh Hi-Tech Park Authority (BHTPA); (d) the Disbursement and Financial Information Letter; (e) the draft Project Appraisal Document; (f) the agreed Environment and Social Commitment Plan (ESCP); (g) signed Credit Choice Worksheet along with the Amortization Schedule; and (h) the proposed indicators for the Project (described in Section VII of the PAD).

3. These minutes are not a complete record of the issues discussed and are intended to record and clarify the critical understandings reached between the Recipient's Delegation and the Association's Delegation regarding the aforesaid documents. Accordingly, the Recipient's Delegation and the Association's Delegation decided to record in writing the following clarifications.

4. **Financing Agreement (FA)**

(i) The two delegations reached agreement on the draft FA, as set out in Annex 2 to these Minutes, based on the clarifications and understandings mentioned below:

(a) **Article II, Section 2.01:** The total Credit amount would be EUR 459,800,000 (USD 500,000,000 equivalent) based on the exchange rate EUR 1.00000000 = USD 1.08760000 prevailing on the last day of the month preceding negotiations, i.e April 30, 2020, rounded up to the nearest hundred thousand.

**Financial Terms:** The Recipient's Delegation provided the filled and signed Credit Choice Worksheet signed by an authorized representative which were reflected in the Financing Agreement indicating Bangladesh's option for a Fixed Spread Loan denominated in Euro with commitment-linked level repayments. The front end fee of 0.25% would be paid by Bangladesh pursuant to the terms of the General Conditions. The financial terms selected by the Recipient's Delegation has been reflected in the negotiated Financing Agreement as per the aforementioned Credit Choice Worksheet.

(b) **Article II, Section 2.03, 2.04 and 2.05:** The Recipient's Delegation selected May 1 and November 1 as the payment dates for the commitment charges, and interest charges. The commitment charge is 0.25% of the unwithdrawn financing amount.



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*Ahmed*  
**Ahmed Rahman**  
Director  
Prime Minister's Office  
Govt. of the People's Republic of Bangladesh

১১ মে ২০২০  
 আর্থিক মন্ত্রণালয়  
 বাংলাদেশ সরকার  
 (১১ মে ২০২০)

(c) **Article II, Sections 2.06 and 2.07:** The Association's Delegation explained that repayment period would be thirty four (34) years of overall maturity, including four (4) years of grace period. The Recipient's Delegation indicated that it will repay the principal amount of the Credit in semi-annual installments payable on each May 1 and November 1, commencing on November 1, 2024, to and including November 1, 2053, at 1.67% of such principal amount, and on May 1, 2054 at 1.47% of such principal amount. The Association's Delegation clarified that a change in the scheduled date for the submission of the above-mentioned draft documents to its Board of Executive Directors, for approval, may result in a change in amortization schedule in the Financing Agreement.

(d) **Schedule 2, Section II.:** For the purpose of Project monitoring, reporting and evaluation, relevant indicators are specified in the Project Appraisal Document (Part VII: Results Framework and Monitoring) and will be specified in a supplemental letter to be signed at the same time as the Financing Agreement.

(e) **Negative Pledge:** Owing to the non-concessional nature of this borrowing, the Association's Delegation drew attention to the Recipient's Delegation on the applicability of Article VII (*Negative Pledge*) as detailed in the IDA General Conditions to this Financing and confirmed the understanding of this clause with the Recipient's Delegation.

(f) **Schedule 2, Section III.A:** The Disbursement and Financial Information Letter refers to the draft Disbursement and Financial Information Letter as set out in **Annex 6** to these Minutes.

(g) **Environment and Social Commitment Plan (ESCP):** Section 1.C of Schedule 2 to the FA: The Environment and Social Commitment Plan referred to in Section 1.C of Schedule 2 to the FA and agreed between the delegations is the one attached as **Annex 5** to these Minutes.

(h) **Disbursement Linked Indicators (DLIs):** The Delegations discussed and agreed on the DLIs and the amounts allocated against it. It was noted that the Recipient may request withdrawals in the form of Advance as mentioned in the Disbursement and Financial Information Letter where the relevant expenditures have been incurred but prior to the DLIs having been met provided that these were met no later than the Closing Date, failing which, the Association would have the right to seek a refund on the same and cancel all amounts so refunded. Pursuant to the Recipient's request, the amount allocated against the Eligible Expenditure Program was reduced from USD 200 million to USD 150 million. The Recipient's Delegation also requested revision and dropping of some of the DLIs, which after much consideration by the Association's Delegation was concurred. Owing to the COVID-19 situation, the Recipient's Delegation requested the Association's Delegation to amend some of the target year for the DLIs which was concurred to by the Association.

5. **Project Agreement with BEZA**

The delegations(s) reached agreement on the draft Project Agreement set out in **Annex 3** to these Minutes.

6. **Project Agreement with BHTPA**

The delegations(s) reached agreement on the draft Project Agreement set out in **Annex 4** to these Minutes.

**Disbursement and Financial Information Letter**

The draft Disbursement and Financial Information Letter was jointly reviewed and agreed as set out in **Annex 6** to these Minutes.



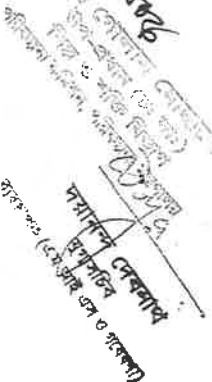
Anisur Rahman

Director

Prime Minister's Office

Govt. of the People's Republic of Bangladesh

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8. Project Appraisal Document

The draft Project Appraisal Document was jointly reviewed and agreed. This draft incorporates relevant changes made to the draft Financing Agreement, draft Project Agreement(s) and draft Disbursement and Financial Information Letter, as updated from the versions enclosed with the Association's Invitation to Negotiate dated April 21, 2020, and respectively set out in Annexes to these Minutes. The Association clarified that other minor changes may be required following these negotiations, to ensure consistency among the draft documents or incorporate additional information with no legal or financial implications, for the purpose of presentation to the Association's Board of Executive Directors, in which case these may be made with notice to the Recipient. The Recipient's Delegation confirmed that there is no information in the Project Appraisal Document of a confidential or sensitive nature, or which may adversely affect the relations between the Recipient and the Association.

8. Public Disclosure

Pursuant to the World Bank Policy on Access to Information (July 1, 2015) the Association will disclose the Project Appraisal Document, the related legal agreements and other information related to the legal agreements, including any supplemental letters. The Recipient's Delegation confirmed that the Association may publicly release the Project Appraisal Document after consideration of the operation by its Board of Executive Directors.

9. Approval of negotiated documents & Statutory Committee Recommendation

The Head of the Recipient's Delegation indicated that the negotiated documents are approved by the People's Republic of Bangladesh.

According to Article V, Section 1(d) of the Association's Articles of Association, an operation proposed to be financed or guaranteed by the Association shall be accompanied by a recommendation (the Statutory Committee Report) to be issued by a competent committee (the Statutory Committee) whose members shall include an expert selected by the Governor representing the member in whose territories the operation in question is located. The Governor representing the Recipient on the Association's Board of Governors agreed, by a 2014 letter, that in the negotiations of IDA financing provided to or guaranteed by the Recipient to represent the Recipient to be the Recipient's expert on the Statutory Committee and that said official's signature of the signed Minutes of Negotiations for such IDA financing shall be deemed to constitute the signature of the Statutory Committee Report. The parties acknowledge the above designation with respect to the financing for this Project.

10. Approval & Signing

**Board Approval:** The Association's delegation informed the Recipient's Delegation that it plans to submit the Project to its Board of Executive Directors. The formal presentation is tentatively scheduled for June 19, 2020.

**Signing:** Upon the approval of the Project by the Association's Board of Executive Directors, the Senior Secretary / Secretary or the Additional Secretary of the Economic Relations Division, and the Country Director or Acting Country Director of the World Bank, will agree on the place and date for the signing of the legal documents.



০১/০৬/২০  
মন্ত্রণালয় সচিবালয়  
প্রশাসনিক  
সহকারী সচিব (কম্পিউটার ও ই-গভর্নেন্স)

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Anisur Rahman  
Director  
Prime Minister's Office  
Govt. of the People's Republic of Bangladesh

Signed in Dhaka, Bangladesh, on May 11, 2020:

On behalf of the  
People's Republic of Bangladesh

  
Md. Shahabuddin Patwary

Head of the Recipient's Delegation  
Additional Secretary  
Economic Relations Division

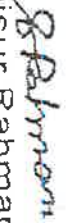
On behalf of the  
International Development Association

  
Ali Zafar

Head of the Association's Delegation/Co-  
Task Team Leader  
Sr. Economist

Attachments


- Annex 1: List of Delegation Members
- Annex 2: Financing Agreement
- Annex 3: Project Agreement with BEZA
- Annex 4: Project Agreement with BHTPA
- Annex 5: ESCP
- Annex 6: Disbursement and Financial Information Letter
- Annex 7: Credit Choice Worksheet/Amortization Schedule

  
Anisur Rahman  
Director  
Prime Minister's Office  
Govt. of the People's Republic of Bangladesh

  
মহানন্দ চন্দ্রসার  
অতিরিক্ত  
সহকারী (সহ) সচিব (সংসদ ও সচিবালয়)

  
আই. জাফর  
সিনিয়র অর্থনীতিবিদ (সিনিয়র টিম লিডার)  
আই.ডি.এ. (সংসদ ও সচিবালয়)

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Annex 1: List of Delegation Members *(to be updated)*  
People's Republic of Bangladesh

Names	Designation	Organization
Mr. Md. Shahabuddin Parwary	Additional Secretary & Wing Chief	ERD
Mr. Zahid Hossain Munshi	Joint Secretary	ERD
Mr. Md. Hasan Maruf	Deputy Secretary	ERD
Mr. Nurul Hai Mohammad Anas	Senior Assistant Secretary	ERD
Mr. Md. Harunur Rashid	Executive Member	BEZA
Mr. Abdullah Al Mahmud Faruk	Deputy Project Director	BEZA
Mr. Doyananda Debnath	Manager (Deputy Chief)	BEZA
Mr. A N M Saïqul Islam	Director (Finance & Admin)	BHTPA
Ms. Aspia Akhter	Deputy Chief, ICT Division	BHTPA
Mr. Md. Sunur Jannan	FMS	BITTPA
Dr. Md. Mashur Rahman	Joint Chief	Planning Commission
Mr. Md. Ziaul Haque	Director-1	PMO


International Development Association

*Ms. Mercy Miyang Tembon	Country Director	
*Mr. Michael O Engman	Sr. Economist & Task Team Leader	
Mr. Ali Zafar	Sr. Economist & Co-Task Team Leader	
*Mr. Etienne Raffi Kechichian	Senior Private Sector Specialist	
*Ms. Ferdous Jahan	Senior Social Development Specialist	
*Mr. Henang Priyavadan Jani	Senior Private Sector Specialist	
*Mr. Tomas A. Sta. Maria	Senior Financial Management Specialist	
*Mr. Toni Kristian Eliasz	Senior Private Sector Specialist	
*Mr. Jeffrey Joha Delmon	Senior Infrastructure Finance Specialist	
*Mr. Mohammad Lufulullah	Senior Private Sector Specialist	
*Ms. Vidya Venugopal	Counsel	
*Mr. Satish Kumar Shivakumar	Finance Officer	
*Mr. Yutaka Yoshino	Program Leader	



  
 মহানন্দা বিশ্বাস  
 মুকাদ্দিস  
 করসার (কম্পিউটার ও সিস্টেম)

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**Anisur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

*Ms. Ciliaka Millicent Wanjir Gitau	Economist
Md Shamsur Rahman	Consultant
*K. M. Magsoodul Mannan	Consultant
*Mr. Mohammed Azad Rahman	
*Mr. Daric Quaranta	Consultant
*Mr. MD Kamruzzaman	Procurement Specialist
*Ms. Nasirra Ahsan	Consultant
*Mr. S. M. Zulkernine	Environmental Specialist
Ms. Mehar Akhter Khan	Program Assistant

\* video-conference

*০১/১২*  
 মহাপরিচালক (প্রোগ্রামিং)  
 সরকার (কম্পিউটার ও ইন্টারনেট)

*Risat*  
 গণপ্রজাতন্ত্রী বাংলাদেশ সরকার  
 কম্পিউটার প্রোগ্রামিং বিভাগ  
 পি.ও. বকুল চৌধুরী, মহাপরিচালক  
 মন্ত্রিসভা ভবন, ঢাকা

*Ahmed*  
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 Director  
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গণপ্রজাতন্ত্রী বাংলাদেশ সরকার  
অর্থ মন্ত্রণালয়  
অর্থনৈতিক সম্পর্ক বিভাগ  
আইডিএ-১ শাখা  
শের-ই-বাংলা নগর, ঢাকা

সং: ০৯.৩৩.০০০০.০৬১.১৪.০২৪.১৮-১১৪

তারিখ: ২০ এপ্রিল ২০২০

**বিষয়: 'Private Investment & Digital Entrepreneurship Project (PRIDE)'** শীর্ষক প্রকল্পের ধনভা  
কল্পটি ও অন্যান্য খণ্ডিলাটির ওপর আর্থ:মন্ত্রণালয় সজ্ঞা প্রদান।

উপর্যুক্ত বিষয়ে জানানো যাচ্ছে যে, বাংলাদেশ অর্থনৈতিক অঞ্চল কর্তৃপক্ষ ও বাংলাদেশ হাইটেক পার্ক অথরিটি কর্তৃক বাস্তবায়িত 'Private Investment & Digital Entrepreneurship Project (PRIDE)' শীর্ষক প্রকল্পের খসড়া খণ্ডিত্তি ও অন্যান্য দলিলাটির ওপর বিধবাংকরের সজ্ঞা বাংলাদেশ সরকারের অন্তর্ভুক্ত লেগািসিয়েশনে বাংলাদেশ সরকারের অবদান নির্ধারণ করার লক্ষ্যে একটি আর্থ:মন্ত্রণালয় সজ্ঞা অতিরিক্ত সচিব (বিধবাংক অনুবিভাগ) জনাব মোঃ শাহাবুদ্দিন পাটোয়ারী মহোদয়ের সভাপতিত্বে আগামী ০৩ মে ২০২০ তারিখ সকাল ১০:৩০ ঘটিকায় এ বিভাগে (রুম-০৬, রক-১৬) অনুষ্ঠিত হবে।

২। বর্ণিত প্রেক্ষিতে, উক্ত আর্থ:মন্ত্রণালয় সজ্ঞা এবং লেগািসিয়েশনে অংশগ্রহণের জন্য উপযুক্ত প্রতিনিধি প্রেরণের এ বিষয়ে প্রিভিড  
মতামত আগামী ০২ মে ২০২০ তারিখের মধ্যে প্রেরণের জন্য নির্দেশক্রমে অনুরোধ জানানো যাবে।

শংযুক্তি: খসড়া খণ্ডিত্তি ও অন্যান্য দলিলাদি।

(নুরুল হাই মোহাম্মদ জানাছ, পিএম)  
২০/০৪/২০২০  
সিনিয়র সরকারী সচিব  
ফোন: ৯১১২৬৪৪১

Email: nurulhaid@gmail.com

বিতরণ (প্রোডার কমান্ডারের ন্যে):

১. সিনিয়র সচিব, তথ্য ও যোগাযোগ প্রযুক্তি বিভাগ, বিপিসি ভবন, আগারগাঁও, ঢাকা।
২. অর্থ সচিব, অর্থ বিভাগ, অর্থমন্ত্রণালয়, বাংলাদেশ সচিবালয়, ঢাকা।
৩. সচিব, প্রধানমন্ত্রীর কার্যালয়, পুরাতন বিমান কমান্ড, তেজগাঁও, ঢাকা।
৪. সচিব, লেজিসলেটিভ ও সংসদ বিষয়ক বিভাগ, আইন, বিচার ও সংসদ বিষয়ক মন্ত্রণালয়, বাংলাদেশ সচিবালয়, ঢাকা।
৫. সনস্যা, আর্থ:সমাঙ্কিত অককাঠামো বিভাগ, পরিকল্পনা কমিশন, শের-ই-বাংলা নগর, ঢাকা।
৬. নির্বাচী চেয়ারম্যান, বাংলাদেশ ইকোনমিক জোনস অথরিটি (বেফা), মোদেয় বিজনেস ডিস্ট্রিক্ট, সেক্টর-১২, ১১১ ধীর উত্তর সি.আর, দহ রোড, ঢাকা।
৭. করস্বাস্থ্যা পরিচালক, বাংলাদেশ হাইটেক পার্ক অথরিটি, বিপিসি ভবন, আগারগাঁও, ঢাকা-১১০৭।
৮. অতিরিক্ত সচিব ও অনুবিভাগ প্রধান (ধরা ও আইসিটি অনুবিভাগ), অর্থনৈতিক সম্পর্ক বিভাগ, শের-ই-বাংলা নগর, ঢাকা।
৯. প্রকল্প পরিচালক, বাংলাদেশ য়েজোনায়িক জোনস ডেভেলপমেন্ট প্রজেক্ট (বেজ-১), মোদেয় বিজনেস ডিস্ট্রিক্ট, সেক্টর-১২, ১১১ ধীর উত্তর সি.আর, দহ রোড, ঢাকা।
১০. প্রকল্প পরিচালক, সাপোর্ট টু কাপাসিটি বিপিএ অফ ব্রেকস্ট্র, বেক্স। মোদেয় বিজনেস ডিস্ট্রিক্ট, সেক্টর-১২, ১১১ ধীর উত্তর সি.আর, দহ রোড, ঢাকা।
১১. প্রকল্প পরিচালক, সাপোর্ট টু ডেভেলপমেন্ট অফ কাপাসিটিকর হাই-টেক পার্ক প্রজেক্ট, বিপিসি ভবন, আগারগাঁও, ঢাকা।

সহায় অর্থগতির জন্য অনুরোধ:

অতিরিক্ত সচিব (বিধবাংক) মহোদয়ের কাঙ্ক্ষিত করফর্তা, অর্থনৈতিক সম্পর্ক বিভাগ, শের-ই-বাংলা নগর, ঢাকা।



০৩/০৪/২০  
মহামান্ন মোহাম্মদ  
সহায় অর্থগতির  
সহায়ক (ধীর-মারি এল ও মফকা)

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Government of the People's Republic of Bangladesh  
Ministry of Finance  
Economic Relations Division  
World Bank-5 Branch  
Sher-e-Bangla Nagar, Dhaka  
(www.erd.gov.bd)

Memo No. 09.00.0000.061.14.024.18-217

Date: 04 May 2020

Subject: Minutes of Inter-ministerial meeting on 'Private Investment & Digital Entrepreneurship Project (PRIDE)'.  
Chairperson : Mr. Md. Shahabuddin Palwary  
Additional Secretary, World Bank Wing, ERD

Date & Time : 03/05/2020 at 10:30 am.

Meeting Place : Asia Wing Conference Room, ERD,  
Planning Commission Campus, Dhaka

An inter-ministerial meeting was held in the Economic Relations Division (ERD) at 10:30 am on 03 May 2020 to finalise Bangladesh position on the negotiation documents : Draft Financing Agreement (FA), Disbursement and Financial Information Letter and Project Appraisal Document (PAD) and Project Agreements of Bangladesh Economic Zone Authority (BEZA) & Bangladesh Hi-Tech Park Authority (BHTPA) prepared by the World Bank in connection with the 'Private Investment & Digital Entrepreneurship Project (PRIDE)'. Mr. Md. Shahabuddin Palwary, Additional Secretary, ERD presided over the meeting.

List of participants is appended at (Annexure-1).

02. At the outset, the Chair welcomed all to the meeting. He informed the meeting about the objectives of the project and the financial terms of the project. The Chair then requested the participants to share their views, comments, and suggestions on the draft negotiation documents.

03. Prime Minister's Office representative flagged the following observations/amendments on Project Appraisal Document (PAD):

Sl. No.	Ref. Page/Para No.	Existing text	Proposed PMO clause/text by	Remarks
1.	Page 2 (Ref. STRATEGIC CONTEXT Para 4.)	Opaque land records and an unpredictable judiciary do not help.	Opaque land records do not help.	and an unpredictable judiciary could be deleted

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সিনিয়র সিনিয়র  
সহকারী সিনিয়র  
সহকারী সিনিয়র (সহকারী সিনিয়র)

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সিনিয়র সিনিয়র  
সহকারী সিনিয়র  
সহকারী সিনিয়র (সহকারী সিনিয়র)



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Sl. No.	Ref. Page/Para No.	Existing text	Proposed clause/text by PMO	Remarks
2	Page 3 (Ref. STRATEGIC CONTEXT Para 8: )	BEZA's vision of licensing 100 EZs and creating 10 million jobs by 2030 is ambitious and the GoB is adamant that industrial expansion takes place in economic zones.	BEZA's vision of creating 10 million jobs by 2030 is ambitious and the GoB is adamant that industrial expansion takes place in economic zones.	Original text could be revised

04. BEZA's observations/amendments on Financial Agreement and Project Appraisal Document (PAD)

(a). Project Appraisal Document (PAD)

Sl. No.	Ref. Page/Para No.	Existing text	Proposed clause/text by BEZA	Remarks
1.	Page 30 (Ref. Para VII: Component 1)	1.1: Separation of BEZA's role as regulator and developer (Yes/No).	To be deleted	
2.	Page 31 (Ref. Para VII: Component 1)	1.3: Number of dedicated full-time staff in SOUs: (Number) ... of which in PPP (Number) ... of which in social and environmental (Number) ... of which in engineering and maintenance (Number)	Segregation would be omitted	
3.	Page 32 (Ref. Para VIII: Component 3)	3.2: Number of trainees receiving demand driven skills in IZs (Number) ...of which women (Percentage)	The targeted figures should be recorded as 15 for 2 <sup>nd</sup> year, 20 for 3 <sup>rd</sup> year, 25 for 4 <sup>th</sup> year, 30 for 5 <sup>th</sup> year and 30 for End Target.	



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স্বপ্নাঙ্গনা  
স্বপ্নাঙ্গনা (স্বপ্নাঙ্গনা) (স্বপ্নাঙ্গনা)

*A. Rahman*  
স্বপ্নাঙ্গনা পরিচালক  
স্বপ্নাঙ্গনা পরিচালক (স্বপ্নাঙ্গনা)  
স্বপ্নাঙ্গনা পরিচালক (স্বপ্নাঙ্গনা)

Sl. No.	Ref Page/Para No.	Existing text	Proposed clause/text by BEZA	Remarks
4.	Page 36 (Ref. Para VII: DLI Matrix)	DLI 1.3, 1.4 and 1.5: The targeted amounts are US\$10m, US\$5m and US\$5m respectively	DLI 1.3, 1.4 and 1.5: The targeted amounts could be revised as US\$5m, US\$2m and US\$3m respectively	No change in text
5.	Page 37 (Ref. Para VII: DLI Matrix)	DLI 2.2 and 2.3: The targeted amounts are US\$10m and US\$10m respectively	DLI 2.2 and 2.3: The targeted amounts could be revised as US\$5m and US\$5m respectively	No change in text
6.	Page 37 (Ref. Para VII: DLI Matrix)	2.4: Amend the Bangladesh Economic Zones Act, 2010 to allow for the establishment of development companies with separate governance and audit mechanisms for publicly developed and operated EZs (US\$10m)	To be omitted	
7.	Page 37 (Ref. Para VII: DLI Matrix)	2.5: Incorporate a new legal entity for the BSMSN Development Corporation and transfer the land, infrastructure assets and relevant liabilities to this new corporation (US\$10m)	To be omitted	Separate Management Unit could be established in place of new legal entity
8.	Page 37 (Ref. Para VIII: DLI Matrix)	DLI 3.1: The targeted amount is US\$10m	DLI 3.1: The targeted amount could be revised as US\$5m	No change in text
9.	Page 38 (Ref. Para VII: DLI Matrix)	4.1: BEZA Executive Board adopts BEZA PPP Guidelines (US\$10m)	4.1: BEZA Executive Board adopts SOP for BEZA PPP SOU (US\$10m)	No change in amount
10.	Page 38 (Ref. Para VII: DLI Matrix)	DLI 4.2, 4.4 and 4.5: The targeted amounts are US\$10m, US\$30m and US\$30m	DLI 4.2, 4.4 and 4.5: The targeted amounts could be revised as US\$5m, US\$5m and US\$5m	No change in text

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মন্ত্রণালয় সেক্রেটারি  
সুশাসনিক  
স্বরাষ্ট্র (এস এফ এল ও মাল্টিস)

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Rahim

Ahissur Rahiman

Director

Prime Minister's Office

Govt. of the People's Republic of Bangladesh



Sl. No.	Ref. Page/Para No.	Existing text	Proposed clause/text by BEZA	Remarks
11.	Page 51 (Ref: Annex 1: Table 7)	(5) (i) BEZA EEPs: The total amount is US\$190m	(5) (i) BEZA EEPs: The total amount could be revised as US\$90m	After adjusting the DLIs as proposed
12.	Page 52 (Ref: Annex 1: Table 8)	DLI 1, 2, 3 and 4: The targeted amounts are US\$30m, US\$20m and US\$90m respectively (Total: US\$190m)	DLI 1, 2, 3 and 4: The targeted amounts could be revised as US\$20m, US\$15m and US\$35m respectively (Total: US\$90m)	

N.B.: The changes should be reflected in all relevant phrases and documents.

**(b). Financing Agreement**

Sl. No.	Ref. Page/Para No.	Existing text	Proposed clause/text by BEZA	Remarks
1.	Schedule 1 (Part 1, Para 1.1)	(vi) establish formal coordinating mechanisms at the local/district level and provide support to other public entities and private partners when needed	--	Need explanation
2.	Schedule 2 (Section 1, Para A(1))	(e) engaging a third-party consultancy for DLI verification	--	Alternative option is preferred to avoid complexity/cumbersome
3.	Schedule 2 (Section III, Para A(Table))	The Recipient shall cause BEZA to prepare and adopt, prior to the Effective Date, the BEZA Project Operation Manual ....	--	The project document (DPP) can be used as Project Operation Manual
4.	Schedule 2 (Section 1, Para B(1))	(5) (i) BEZA EEPs: The total amount is US\$190m	(5) (i) BEZA EEPs: The total amount could be revised as US\$90m	After adjusting the DLIs as proposed
	Schedule 4 (DLI)	DLI 1.3, 1.4 and 1.5: The targeted amounts are US\$10m, US\$5m and US\$5m	DLI 1.3, 1.4 and 1.5: The targeted amounts could be revised as US\$5m, US\$2m	No change in text.



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Prime Minister's Office

Govt. of the People's Republic of Bangladesh

স্বাক্ষরিত (স্বাক্ষর ও সীলন)  
 প্রকল্প পরিচালক (সি.এম.এ)  
 জাতীয় প্রকল্প পরিচালনা কার্যালয়

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স্বাক্ষরিত (স্বাক্ষর ও সীলন)  
 প্রকল্প পরিচালক (সি.এম.এ)  
 জাতীয় প্রকল্প পরিচালনা কার্যালয়

Sl. No.	Ref. Page/Para No.	Existing text	Proposed clause/text by BEZA	Remarks
		respectively	and US\$3m respectively	
		DLJ 2.2 and 2.3: The targeted amounts are US\$10m and US\$10m respectively	DLJ 2.2 and 2.3: The targeted amounts could be revised as US\$5m and US\$5m respectively	No change in text
		2.4: Amend the Bangladesh Economic Zones Act, 2010 to allow for the establishment of development companies with separate governance and audit mechanisms for publicly developed and operated EZs (US\$10m)	To be omitted	
		2.5: Incorporate a new legal entity for the BSMSN Development Corporation and transfer the land, infrastructure assets and relevant liabilities to this new corporation (US\$10m)	To be omitted	Separate Management Unit could be established in place of new legal entity
		DLJ 3.1: The targeted amount is US\$10m	DLJ 3.1: The targeted amount could be revised as US\$5m	No change in text

N.B.: The changes should be reflected in all relevant phrases and documents.

05. BHTTPA flagged the following observations/amendments on  
(a) Financial Agreement and Project Appraisal Document (PAD)

SL	Ref. Page/Para No.	Subject/ Description	Remarks
1	Project Agreement Section-1 (B) -1 Page -5	For the implementation of Part 4.1 of the Project, BHTPA shall appoint a private operator, with the experience, qualifications and terms of reference as further specified in the BHTTPA Project Operations Manual.	BHTTPA is agreed to appoint a Private Developer for the Janata Tower STP-2. But the appointment of the Private Developer at the beginning of the project is not possible as the T&S firm will prepared Bid document for appointing Private Developer. So the section could be revised to keep the provision of appointing the Private Developer and the construction

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০২/০৬/১৯  
মহানন্দা (নিবনসাব)  
মুন্সেফি  
কামাল (এম কবি এম এ মল্লিক)

০২/০৬/১৯  
১৯৬৬

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Govt. of the People's Republic of Bangladesh



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2	Project Agreement Section-1 (B) -2 Page -5	Prior to the implementation of Part 4.2 of the Project, BHTPA shall enter into implementation agreements ("Implementation Agreements") with select private operators to implement the Entrepreneurship Program and the Start-up Facility and for setting up the University Innovation Hubs in accordance with eligibility criteria, assessment, due diligence and procedures set out in the BHTPA Operations Manual.	could be done simultaneously
3	Project Agreement Section-1 (B) -4 Page -5	Pursuant to the Implementation Agreement for the Entrepreneurship Program, the responsibility of the private operator for the Entrepreneurship Program shall be to set up programs that will offer innovation awards for training, accreditations, and business advisory services.	Part 4.2 is the vital part of the project related with Innovation Eco-System. BHTPA is agreed to engage consulting firms. So, the word Private operators could be replaced with the word Consulting firm (s) for this purpose. We have to take some initiatives such as appointment of Consultant for Strategy, Content management, infrastructure for University Innovation Hub which is not dependent on the Consulting firm. So the Prior to the implementation words could be deleted. Section 2 could be revised as follows: Implementation of Part 4.2 of the Project, BHTPA shall enter into implementation agreements ("Implementation Agreements") with selected Consulting firm (s) to implement the Entrepreneurship Program Challenge Program in both the Janata Tower STP, existing Start-up facilities and University Innovation Hubs in accordance with eligibility criteria, assessment, due diligence and procedures set out in the BHTPA Operations Manual.
4	Project Agreement Section-1 (B)	Pursuant to the Implementation Agreement for the Start-up and Scale-up	Section 5 Could be revised as Pursuant to the Implementation Agreement for the Start-up and Scale-up Facilities Program,

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স্বাক্ষরিত  
মন্ত্রিপরিষদ  
সচিব (প্রোগ্রাম ও পাবনা)

স্বাক্ষরিত  
মন্ত্রিপরিষদ (প্রোগ্রাম ও পাবনা)  
সচিব (প্রোগ্রাম ও পাবনা)

-5	<p>Facilities Program, the responsibility of the private operator for the Start-up and Scale-up Facilities will include the following activities: (a) organize entrepreneurship awareness activities; (b) assign coaches and mentors to advise entrepreneurs on developing/improving their business models and business plans; (c) provide specialized training to help participants in planning and realizing local and/or international growth; (d) provide investment readiness training, support and facilitation; (e) organize networking events with industry leaders, suppliers and potential customers; (f) implement dedicated programs to support women entrepreneurs; and (g) develop and document operational processes customized to local needs as well as necessary digital systems to manage programs.</p>	<p>the responsibility of the Consulting Firm for different activities which includes but not limited to (a) organize entrepreneurship awareness activities; (b) assign coaches and mentors to advise entrepreneurs on developing/improving their business models and business plans; (c) provide specialized training to help participants in planning and realizing local and/or international growth; (d) provide investment readiness training, support and facilitation; (e) organize networking events with industry leaders, suppliers and potential customers; (f) implement dedicated programs to support women entrepreneurs; and (g) develop and document operational processes customized to local needs as well as necessary digital systems to manage programs.</p>
Page-6	<p>Project Agreement Section-1 (B)</p>	<p>By deleting the words "to set up co-working spaces" Section 6 could be revised as Pursuant to the Implementation Agreement for the University Innovation Hub, the responsibility of the Consulting firm for the Entrepreneurship Program shall be to organize entrepreneurship awareness activities and provide incubation support to advise student, incentivize innovation through challenges and implement training programs for university staff and students.</p>



১৯/১১/১৯  
 প্রকল্পের কার্যক্রম  
 অনুমোদিত  
 সরকার (সংসদে গৃহীত)

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ANISUR RAHMAN  
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 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

5	PAD STRATEGIC CONTEXT-1 Page-2, Para-6	In the PAD has been written as "BEZA and BHTPA is a Semi Autonomous Agencies and BHTPTA is under Ministry of Information, Communication and Technology (ICT)@	Actually BHTPA is a Statutory organization, not Semi Autonomous. BHTPA is under Information and Communication Technology Division (ICTD) which is under Ministry of Posts, Telecommunications and Information Technology It should be corrected accordingly
6	PAD Page-13 Para-38 & Legal Agreement Page 17	It was discussed and Proposed from BHTPA during the Mission visit and others meeting that the Private Operator will be engaged only for Janata -2 which has been correctly reflected in page-38 as 5.2: Award operator contract for -2 (US\$8m) but in the PAD many places has beens written as Janata -1 and 2.	The Private operator would be only for Janata-2, -the PAD need to be correct accordingly
7	PAD Page -13 Para-40	It has been written as At least 40 percent of the beneficiaries will be women. In , result framework it has been reflected for training beneficiaries It would be difficult to achieve 40% women in the training program as we are going to conduct the program only for the tenant firms. If we open the HR program for women for IT/TTES sector (instead of the tenant firm) the target could be achievable.	In the PAD it could be introduced that the training Program will be for IT/TTES sector.
8	PAD Page-20 Para-52	Steering Committee will headed by Secretary, ICT Division but not Minister. of In The list of the activities stated for Startup &Scale up Facilities &Service and UHI seems very good and	So, the word Minister should be replaced by the Secretary In my view to make the program more effective and successful we could consider Startup facilities in STP and University Innovation Hub altogether



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Gov. of the People's Republic of Bangladesh

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		would be effective for creating Innovation culture in Bangladesh.	similar program will be run in those both the places. One experience operator could be more effective of similar kind of work. We could engage another firm for carry out all the scale up and HR training with the youth and Student for the Innovation Hub and Digital Economy. You could consider to rearrange the Para on Start-up and Scale-up Facilities & Services and University Innovation Hubs
10	PAD Page-32	In the Result Framework it has been stated as the private operator will be on-board from 3 <sup>rd</sup> year. But the STP building could be ready at the early of the 4 <sup>th</sup> year. So, it would be good to set the timeline accordingly.	Result Framework could be revised considering the fact that the Private Developer will be available from the 4 <sup>th</sup> year instead of year 3
11	Do	In the Result Framework it has expected that the % of beneficiary women would be 40.	To achieve 40 % of women beneficiaries could be difficult so it is suggested to keep it as 30%.
12	PAD Page-35	In Monitoring & Evaluation Plan: Intermediate Indicators section of PAD it has been stated that the contract will be signed by the BHTPA Executive Board. But it is not the fact as MD is empowered to do all sort of things.	The contract will be signed by the MD, BHTPA but not BHTPA Executive Board. So the word Executive Board could be deleted.
13	PAD Page-38	In Disbursement Linked Indicators Matrix of the PAD depicted that Timeline for launching bid for an Operator (5.1: Launch open competitive PPP tendering for an operator of 1-2 (US\$2m) is proposed as by Dec. 31 2020 which is practically not possible. As before going to launch the bid for Construction firm we	So, the timeline could be corrected accordingly, Please note that you are keeping it as DLI for disbursement of the first 2 million. Appointment of T&S and Initiative of Bidding process for Operator could be considered as DLI for the disbursement. For smooth implementation of the project need to change the time line after Dec/21. After taking due diligence if

  
 Md. Masudul Karim  
 Deputy Director  
 (for Care and Support)

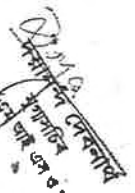
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 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh



	<p>need to prepare RFP/ Bid Document. To prepare the Bid document we have to appoint a TAS.</p> <p>For appointing TAS need at least 8 month.</p> <p>We are assuming all formalities regarding the approval and launching of the project may complete by Nov 20. After launching the project if we start the process for appointment of the TAS which could be complete by July 2021.</p> <p>After completing we have to issue EOJ first and it could take more 3 months to get ready for issuing RFP. So, we could not be able to open competitive bidding process for appointing an operator before Dec 21.</p>	<p>international operator not show interest what will happen? It would be clarified.</p>
14	<p>In case of incremental cost following cost are not considered as eligible cost: salaries, per diem, fuel, allowances, sitting allowances and honorarium of any other nature of civil servants of the GoB</p> <p>But Some govt officials are in the PIU such as PD, DPD and AD. If they do not get the fuel and travel allowances then it could hamper monitoring of the project which could affect quality implementation. The provision could be kept as applicable to Govt officials but the Govt. Officials included in the PIU could be exempted</p>	<p>Govt. Officials included in the PIU could be eligible for getting fuel, travel allowances and perdiem – these could be incorporated in the PAD.</p> <p>Perdiem for the Study and training related visist all cost could be born from the IDA money.</p> <p>The text/ definition of Incremental cost in the PAD and Operating Cost in Financing Agreement could be commensurate/ matching with each other.</p>

  
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 প্রকল্প পরিচালক  
 জি.ও. সিসি  
 (সি. এ. ও. পদে)  
 সরকার

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 ডায়রী  
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 সরকার

		from this provision.	
15	PAD Page -50	I In Table 7: Allocation of the IDA Credit by Category, it is seen that the total of part 4 is 40 million (26 +4+10). The total IDA is 30 million USD.	This table could be revisit.
17	PAD	We find only the information of BEZA in the Annex part. But information for BHTPA is absent. We need information on BHTPA to include in the DPP.	

(b) Financing Agreement

SL	Ref: Page/Para No.	Subject/ Description	Remarks
1	Financing Agreement Section-3, A Category 5(b)	Allocation for BHTPA stated as 12 Million 50% will be the IDA part. But as agreed that 10 million will be the 50% which related with GoB contribution	So, it could be corrected as 2 million USD 100% 10 million USD 50%
2	SCHEDULE 4, DLI-5.1	5.1: Launch an open competitive PPP tendering process for an internationally recognized operator of Janata 1-2	1. Janata- 1 will be deleted, The text could be revised as Launch an open competitive bidding process for appointing a Task Farm to ensure the Private Operator for Janata-2
3	APPENDIX Section-1, 30	but excluding salaries, workshop allowances, sitting allowances/per diems/honoraria for meetings, conferences, seminars, workshops and study visits, expenditures and fuel.	"but excluding salaries, workshop allowances, sitting allowances/per diems/honoraria for meetings, conferences, seminars, workshops and study visits, expenditures and fuel" will be omitted
4	APPENDIX	"University Innovation Hubs" shall mean the hubs to be established by	"for govt officials" will be added both in Financing Agreement and PAD "To inter alia provide incubation support" this part

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मुम्बई

*Rashid*

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Section-1, 47	BHTPA within select technological universities and business schools to inter alia provide incubation support, training and coaching to students, facilitate industry partnerships, have dedicated programs targeting women and design and implement train-the-trainer program for university officials.	will be omitted and "and students" will be added at the end of the sentence.
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5 APPENDIX Section-1, 48	"Voucher Program" means the training program to be established as a trainee grant program for the employees (new or existing) to support new unit investors/industrial tenants within select Economic Zones for supporting specialized industry-relevant skills, as further provided for in the BEZA Project Operations Manual.	This para will be rearranged by the following way: "Voucher Program" means the training program to be established as a trainee grant program for the employees (new or existing) to support new unit investors/industrial tenants within select Economic Zones and HTP and HTP for supporting specialized industry-relevant skills, as further provided for in the BEZA and HTPAB Project Operations Manual.
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6 APPENDIX Section-1, 49	(b) costs associated with rental of training, conference, seminar and workshop facilities; preparation and reproduction of training, conference, seminar and workshop materials; costs of academic degree studies; and other costs directly related to preparation and implementation of any training course or workshop; but excluding sitting allowances, workshop allowances and honorarium of any nature.	This para will be rearranged by the following way: (b) costs associated with rental of training, conference, seminar and workshop facilities; preparation and reproduction of training, conference, seminar and workshop materials; costs of academic degree studies; and other costs directly related to preparation and implementation of any training course or workshop home and abroad; but excluding sitting allowances, workshop allowances and honorarium for Government officials.
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*20/1/16*  
 प्रधानमन्त्री कार्यालय  
 काठमाडौं

*Shahma*  
 Anisur Rahm  
 Director

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 Govt. of the People's Republic of Nepal



*20/1/16*  
 प्रधानमन्त्री कार्यालय  
 काठमाडौं


06. Decisions

After detailed discussion, the following decisions were taken:

(i) ERD will share the proposed observation /amendments on draft documents with the World Bank for further clarification and necessary changes;


(ii) The members of the negotiation team will review the negotiation documents further to identify any issues that need to be discussed during negotiations.

The meeting concluded with vote of thanks from the chair.

  
Md. Shahabuddin Patwary  
Additional Secretary  
World Bank Wing  
Economic Relations Division

  
মহানব্বুল দেবনাথ  
মুখ্যমন্ত্রিন  
স্বরাষ্ট্রসচিব (এম কাই এন ও গবেষণা)



  
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Director  
Prime Minister's Office  
Min. of the People's Republic of Bangladesh

  
মুখ্যমন্ত্রিন  
স্বরাষ্ট্রসচিব (এম কাই এন ও গবেষণা)  
মন্ত্রিসভা ভবন, ঢাকা

উদ্ভিদ শস্যকর্তৃত্বের তালিকা

বিষয়ঃ "Private Investment and Digital Entrepreneurship (PRIDE) for BEZA Project"  
 সভার তারিখ ও দিনঃ ২৫/০৬/২০২০ খ্রিঃ পৌঃমাঘা  
 সময়ঃ সকাল ১১:৩০ ঘটিকা; সভার স্থানঃ পাবনা: বিজ্ঞানের সনাক্তন কক্ষ, রক-১০, কক্ষ-৩-৪, শেরে-বাংলা নগর, ঢাকা।  
 সভাপতিঃ জনাব এপিপি রঞ্জন চক্রবর্তী, সচিবঃ ডেবি এ, পিএর ও শক্তি বিভাগ, পাবিকল্পনা কমিশন।

ক্রমিক নং	নাম ও পদবি	মহাগণনা/বিতান/পত্রংখ	ফোন নম্বর	স্বাক্ষর
১.	ড. সাক্ষর হাফিজ ফিল্ড অফিসার I পদবিঃ I	পাঃ সাক্ষর		সাক্ষর
২.	সোঃ আব্দুল বাহার সোঃ সার্বিক কর্মকর্তা	বিএমটি কেন্দ্র	০১৫৫২-৩৪২ ৩০৬	সাক্ষর
৩.	সোঃ ছায়েদুল ক্বারাম মুখ্য-সচিব	সচিব পাবনা বিভাগ পাবনা		সাক্ষর
৪.	সোঃ আমন হুসেন সুপার-সুপার	সচিব আইসিআর (সচিবালয়)	০১৭১৫৩৭৩৩৩	সাক্ষর
৫.	সোঃ জেইদ হোসেন সুপার-সুপার (সচিবালয়)	সচিব বিএস	০৭২৫৫৫৫৫ ০৭২৫৫৫৫৫২৫	সাক্ষর
৬.	সার্বজনীন পরিদপ্তর সুপার এপিপি টি	সচিব পাবনা	০১৪১৭ ২ ৩৪৩ ৭৫	সাক্ষর
৭.	এপিপি-আমিত কুমার সচিবালয়-পাবনা	সচিব বিএস পাঃ সাক্ষর	০১৫৭৫৫৬৩ ৪৪৭	সাক্ষর
৮.	এস. এম. সার্বজনীন রক সুপার পরিদপ্তর	সচিব বিএস	০১৪১৭ ৫ ২২১৪০	সাক্ষর
৯.	সোঃ মোস্তাফিজুল আলম, সচিবালয় সচিবালয় ও সচিবালয় সচিবালয়	সচিব বিএস	০১৫১২ ৫ ৫০০৩১	সাক্ষর
১০.	সুপার (সচিবালয়) সচিবালয় (D.O)	বিএস	০১৭১৫ ৪৪৭৭২	সাক্ষর
১১.	সুপার সচিবালয় সচিবালয় সচিবালয় (সচিবালয়) সচিব	বিএস	০১৫৫০১৫১৭	সাক্ষর
১২.	Md. Harunur Rashid Executive Member	বিএস	০১৭১৩ ২৭১৭৭	সাক্ষর
১৩.	সুপার সচিবালয় সচিবালয় সচিবালয় সচিবালয়	বিএস	০১৭ ২২ ১১ ২৭১৫	সাক্ষর

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সচিবালয়

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সচিবালয়

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Prime Minister's Office  
Director  
Anisur Rahman



ক্রমিক নং	নাম ও পদবি	যত্নাভিষেক/নির্ভাঙ্গনংখা	ফোন নম্বর	স্বাক্ষর
১৪.	GEN: EMR/Gen/PRANA (১৪১) এম এম এম এম	PRANA	০১৭২৭৬৭১ ৬৪১	
১৫.	GEN: SHAKAR HUDA (১৫১) শাকার হুদা (কি.এন.)	Gen. Shaker Huda শাকার হুদা	০১৭০৩৩০১৩	
১৬.				
১৭.				
১৮.				
১৯.				
২০.	 মুহতারাম (১৯১) (কি.এন.)			
২১.				
২২.				
২৩.				
২৪.				
২৫.	 Anisur Rahman Director Prime Minister's Office Govt. of the People's Republic of Bangladesh			
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Anisur Rahman  
Director  
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Govt. of the People's Republic of Bangladesh



গণপ্রজাতন্ত্রী বাংলাদেশ সরকার  
প্রধানমন্ত্রীর কার্যালয়  
গুণাগঞ্জ সরকার ভবন, ঢাকা।

স্মারক সংখ্যা: ০৩.০৮.০০০০.০৬৮.০১৪.২০.২০. ২২৮

তারিখ: ১৪ মে ২০২০ খ্রি.  
১৯ এপ্রিল ২০২০ খ্রি.

বিষয়: 'প্রকল্প যাদাই ফান্ডিং'র সভার কার্যবিবরণী প্রেরণ।

বাংলাদেশ অর্থনৈতিক অঞ্চল কর্তৃপক্ষ (বেজা) কর্তৃক বাস্তবায়নের জন্য প্রত্যাবর্তিত 'প্রাইভেট ইনভেস্টমেন্ট এক ডিজিটাল এন্টারপ্রেনিয়ারশিপ (PRIDE) ফর বেজা প্রজেক্ট' এর ডিপ্লিমা যাদাই এর নিম্নে 'প্রকল্প যাদাই কমিটি'র পত্র ১৩/০৪/২০২০ তারিখে অনুষ্ঠিত সভার কার্যবিবরণী সদয় অবগতি ও প্রয়োজনীয় কার্যার্থে নির্দেশক্রমে এখানে প্রেরণ করা হলো।

সংযুক্তি: বর্ণনামতে।

  
(সিঃ ডিরাঞ্জল হক)  
পরিচালক-১

ফোনঃ ৫৫০২৯৪২১  
E-mail: dir@ejgpa.gov.bd

বিতরণ:

১. নির্বাহী চেয়ারম্যান, বেজা, যৌন্য বিজ্ঞান ডিবিইউ, ১১১ বীর উত্তম সি.আর দত্ত রোড, ঢাকা।
২. মহাপরিচালক-১, প্রধানমন্ত্রীর কার্যালয়, তেজগাঁও, ঢাকা।
৩. পরিচালক (প্রশাসন), প্রধানমন্ত্রীর কার্যালয়, তেজগাঁও, ঢাকা।


অনুলিপি:

১. প্রধানমন্ত্রীর মুখ্য সচিব মহোদয়ের একান্ত সচিব, প্রধানমন্ত্রীর কার্যালয়, তেজগাঁও, ঢাকা।
২. সচিব মহোদয়ের একান্ত সচিব, প্রধানমন্ত্রীর কার্যালয়, তেজগাঁও, ঢাকা।



  
নয়মানক দেবানায়  
কার্যালয়

  
নয়মানক দেবানায়  
মুখ্য সচিব  
কার্যালয় (এম ডব্লিউএন ও মহল্লা)

  
Anisur Rahman  
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Prime Minister's Office  
Gov. of the People's Republic of Bangladesh



“গাইডেট ইনভেস্টমেন্ট এন্ড ডিজিটাল এন্টারপ্রাইনিয়ারশিপ (PRIDE) ফর বেঞ্চ” শীর্ষক প্রকল্প  
পর্যালোচনা জন্য ‘প্রকল্প যাচাই কমিটি’র সভার কার্যবিবরণী।

সভাপতি: মোঃ তোফাজ্জল হোসেন সিয়া  
সচিব, প্রধানমন্ত্রীর কার্যালয়।  
তারিখ ও সময়: ১৩/০৪/২০২০ খ্রি: সকাল ১০:৩০ টা  
স্থান: সভাকক্ষ, প্রধানমন্ত্রীর কার্যালয়।  
উপস্থিতি: পরিচিষ্ট ‘ক’

সভায় উপস্থিত সকলকে স্বাগত জানিয়ে সভাপতি সভার কার্যক্রম পূর্য করেন। সভাপতির অনুমতিক্রম  
বাংলাদেশ অর্থনৈতিক অঞ্চল কর্তৃপক্ষ (বেজা) এর নির্বাহী চেয়ারম্যান কর্তৃক বিশ্ব বাংকের অর্থায়নে বাস্তবায়নের  
জন্য প্রস্তাবিত “গাইডেট ইনভেস্টমেন্ট এন্ড ডিজিটাল এন্টারপ্রাইনিয়ারশিপ (PRIDE) ফর বেঞ্চ প্রকল্প” সম্পর্কে  
সভায় আগত প্রতিনিধিগণকে অবহিত করা হয়।

১। ‘অংশদ্রু মেথ মুজিব শিল্পনগর’ কে একটি পরিবেশাঙ্কন অর্থনৈতিক অঞ্চল হিসেবে গড়ে তোলার  
অর্থনৈতিক অঞ্চলে বেসরকারী বিনিয়োগ, কর্মসংস্থান সৃষ্টি, সামাজিক ও পরিবেশগত টেকসই উন্নয়ন নিশ্চিত  
করার লক্ষ্যে বিশ্ব বাংকের অর্থায়নে আকাজা প্রকল্পটি বাস্তবায়নের প্রস্তাব করা হয়েছে। প্রকল্পটি বাস্তবায়িত হলে  
যোগকন মুনিদিষ্ট উদ্দেশ্যসূত্র অর্জন করা সম্ভব হবে তা হলো:

- মধ্যমরি প্রায় ২ (দুই) লক্ষ লোকের কর্মসংস্থান সুরোধ সৃষ্টি করা।
- বংশদ্রু মেথ মুজিব শিল্পনগরে বিভিন্ন দেশী-বিদেশী উদ্যোগ কর্তৃক প্রায় ৪.৭ বিলিয়ন মার্কিন ডলার  
বিনিয়োগ নিশ্চিত করা।
- অর্থনৈতিক অঞ্চলে নিরাগমীন ও পরিজনগামী নিঃশেষ সামাজিক ও পরিবেশাঙ্কন উন্নয়ন নিশ্চিত করা।
- বেসরকারী বিনিয়োগ এবং টেকসই উন্নয়নের জন্য একটি বিনিয়োগ বন্ধন্য পরিবেশ তৈরি করা।
- বংশদ্রু মেথ মুজিব শিল্পনগরকে পরিবেশ বান্ধব অর্থনৈতিক অঞ্চল হিসেবে গড়ে তোলা এবং এ খারনা  
অন্যান্য অর্থনৈতিক অঞ্চলে বাস্তবায়ন করা।
- বেসরকারী একটি শক্তিশালী সঞ্চয় এবং টেকসই প্রতিষ্ঠানে রূপান্তর করা।
- বিভিন্ন কার্যক্রম সরকারভাবে বাস্তবায়নে একটি বিশেষ অপারেশনাল ইউনিট স্থাপন করা।

১। অংশদ্রু মেথ মুজিব শিল্পনগর উপস্থাপন করা হয়। সভাকর অবহিত করা হয় যে, এ প্রকল্প বিষয়ে কোন  
কিছুবিবরণী সঠিক করা হয়নি। তবে বিশ্ব বাংক এর Project Appraisal Document (PAD) এর  
ক্রিডেট এর Private Sector Development Support Project (PSDSP) এর আওতায় বেজা কর্তৃক  
কর্মসংস্থানসৃষ্টি দুটি প্রকল্পের সাপোর্ট দুই কোম্পানি বিচ্ছিন্ন করে বেজা প্রকল্প এবং বাংলাদেশ অর্থনৈতিক অঞ্চল  
সংগঠন (এম পিএম) অধিকারী থেকে এ প্রকল্পটির পরিকল্পনা করা হয়েছে। প্রকল্পটি মোট ৪.০২.৫২৯.৫০ লক্ষ টাকার  
বরাদ্দ অর্থায়নের প্রস্তাব করা হয়েছে যার মধ্যে প্রকল্প মারফেয় (বিশ্ব বাংক) পরিমাণ ৩৯.৫২৯.৫০ লক্ষ টাকার  
এবং কিওবি কার্যক্রমের (১%) অর্থ মুদ্র সরকার হতে অর্থ) পরিমাণ ৩৮.৫২৯.০০ লক্ষ টাকার অর্থায়ন। ২০২১-২০২২  
ফেব্রুয়ারি ২০২০ পর্যন্ত প্রকল্পটির বাস্তবায়নকাল নির্ধারণ করা হয়েছে।

মোঃ নূর হোসেন  
মন্ত্রিসচিব  
সভাপতি (সব মন্ত্রী ও সচিব)

Ahmed  
Ahisur Rahman  
Director  
Prime Minister's Office  
Govt. of the People's Republic of Bangladesh













প্ৰধানমন্ত্ৰীৰ কাৰ্যালয়েৰ প্ৰকল্প য়াচাই কমিটিৰ সভায় কৰ্মকৰ্তাগণেৰ উপস্থিতি।

তাৰিখঃ ১৫/০৪/২০২০ খ্ৰিঃ

ক্রমিক নং	নাম ও পদবি	মজলিয়া/বিভাগ/ সংস্থা	ফোন/মোবাইল নম্বৰ ও ই-মেইল	স্বাক্ষৰ
১	Mr. Rishi. (সভাপতি) (০৭০৩৭৭৭৭)	BETA PMO	০১৭২৭০৬ ৫৫০৭	
২	Mr. Anwar Hossain Secretary	ৱেব	৫৭৭১২২৫৫০৫	
৩	Mr. Md. Faruk Hossain (সভাপতি) (৫৭০৩৭৭৭৭)	ৱেব	০১৭০৬৭১৭৭৭	
৪	Mr. Md. Faruk Hossain (সভাপতি) (৫৭০৩৭৭৭৭)	ৱেব	০১৭১৬৪৫৫০৫	



**Arifur Rahman**  
Director  
Prime Minister's Office  
Govt. of the People's Republic of Bangladesh

০১/০৪/২০  
দায়িত্ব  
অনুমতি  
০১/০৪/২০  
৫৫৫৫৫ (৫৫ ৫৫৫ ৫৫৫ ৫৫৫৫৫)

০১/০৪/২০  
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গণপ্রজাতন্ত্রী বাংলাদেশ সরকার  
বাংলাদেশ পরিকল্পনা কমিশন  
শিল্প ও শক্তি বিভাগ  
ইঞ্জিনিয়ারিং এন্ড ইলেকট্রনিক্স উইং  
www.plancomm.gov.bd

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বিষয়ঃ প্রকল্প মূল্যায়ন কমিটি (পিইসি) সভার কার্যবিবরণী।

প্রধানমন্ত্রীর কার্যালয়ের আওতাধীন বাংলাদেশ অর্থনৈতিক অঞ্চল কর্তৃপক্ষ (বেজা) কর্তৃক প্রস্তাবিত “Private Investment and Digital Entrepreneurship (PRIDE) for BEZA Project”- শীর্ষক প্রকল্পের উপর প্রকল্প মূল্যায়ন কমিটি (পিইসি)-এর সভা পরিকল্পনা কমিশনের শিল্প ও শক্তি বিভাগের সভাপতি প্রদীপ রঞ্জন চক্রবর্তী-এর সভাপতিত্বে গত ১৫-০৬-২০২০ তারিখে পরিকল্পনা কমিশনে অনুষ্ঠিত হয়। সভায় উপস্থিত কর্মকর্তাবৃন্দের তালিকা পরিশিষ্ট-ক’ তে সংযুক্ত করা হলো।

২.০১ উপস্থাপনাঃ

২.১। সভাপতি উপস্থিত সকলকে স্বাগত জানিয়ে সভার কাজ শুরুর করেন। শুরুরতই সভাপতি ডিপ্লিটের কাউন্সিল বিষয় স্পষ্টীকরণের জন্য বেজার প্রতিনিধিবৃন্দকে অনুরোধ জানান। এ প্রসংগে সভাকে জানানো হয় যে বিবেচ্য প্রকল্পটি মোট ৪০৫৬.১৯৫ কোটি টাকা ঋণ সহায়তায় (জিএবি ৩৮-৬-২৭ কোটি টাকা এবং বিধবাংক ৩৯৬৯.৯২৫ কোটি টাকা) ০২ জানুয়ারি, ২০২১ হতে ৩১ ডিসেম্বর, ২০২৫ মেয়াদে বাস্তবায়নের জন্য প্রস্তাব করা হয়েছে। বেজার পক্ষ হতে প্রকল্পটি বাস্তবায়নের মূল উদ্দেশ্য, প্রস্তাবিত ব্যয়, প্রকল্পের অর্থায়ন, প্রকল্পের অংশসমূহ এবং অংশজাতিক ব্যয় ইত্যাদি সভায় উপস্থাপন করা হয়।

২.২। বেজার উপস্থাপনা থেকে জানা যায় যে, বাংলাদেশ সরকারের সংগে বিধবাংকের স্বাক্ষরিত “Private sector Development Support Project (PSDSP)” ঋণ-মুক্তির আওতায় গত ১ জানুয়ারি, ২০১৪ হতে ৩০ জানুয়ারি, ২০২১ মেয়াদে “Bangladesh Economic Zone Development Project Phase-1” শীর্ষক প্রকল্প বাস্তবায়িত হচ্ছে। উক্ত প্রকল্পের আওতায় টটগ্রাম জেলার মিরসরাই ও সীতাকুণ্ড উপজেলায় এবং সেন্টী জেলার সোনাপাড়া উপজেলায় অবস্থিত “বঙ্গবন্ধু শেখ মুজিব শিল্প নগর” এর ২টি জোনের অর্থাৎ BSMNSN-1 ও BSMNSN-2 (BSMNSN-2A ও BSMNSN-2B) এর প্রায় ২০০০ একর জমির ৯০% মাটি ভরাট ও উন্নয়নের মাধ্যমে বিনিয়োগকারীদের জন্য শিল্প ইউনিট স্থাপনের উপযোগী করে তোলা হয়েছে। BSMNSN-2 জোনে এ যাবৎ মোট ১০৪টি শিল্প ইউনিট বরাদ্দ প্রদান করা হয়েছে।

২.৩। উক্ত প্রকল্পের ধারাবাহিকতায় বিধবাংকের ঋণ সহায়তায় “Private Investment and Digital Entrepreneurship (PRIDE) for BEZA Project”-শীর্ষক প্রকল্পটি বাস্তবায়নের প্রস্তাব করা হয়েছে। প্রস্তাবিত প্রকল্পের মাধ্যমে আরও কিছু প্রয়োজনীয় অবকাঠামো যেন, জোন অভ্যন্তরে ৩০ কি. মি. দীর্ঘ ৪-সেনে বিশিষ্ট সড়ক, পানি সরবরাহ ও পয়ঃনিষ্কাশন ব্যবস্থা, নিরাপত্তা বেটেলী, প্রশাসনিক ভবন, CETP, Desalination Plant, Steam Network, Solid Waste Management Plant, Biogas Plant, Waste Sorting and Material Recovery, Rooftop and Floating Solar ইত্যাদি জৌত অবকাঠামো স্থাপনের মাধ্যমে BSMNSN-2 কে একটি Green Economic Zone হিসেবে গড়ে তুলে বিনিয়োগকারীদের নিকট আধিকতর আকর্ষণীয় করার পরিকল্পনা গ্রহণ করা হয়েছে। উল্লিখিত জৌত কার্যক্রমের মাধ্য ৬টি কাজ Public Private Partnership (PPP) প্রক্রিয়ায় বাস্তবায়ন করা হবে। প্রকল্পটিতে বিভিন্ন ধরনের অবকাঠামো উন্নয়নের পাশাপাশি বিভিন্ন বিষয়ে সমীক্ষা/স্টাডি পরিকল্পনাসহ অর্থনৈতিক অঞ্চল উন্নয়ন সংশ্লিষ্ট অন্যান্য কিছু বিষয়ের জন্য কার্য ও ব্যক্তি পর্যায়ের পরামর্শক সেবা গ্রহণ করা হবে।

৩.০১ আলোচনাঃ

৩.১। আলোচনায় অংশ নিয়ে সভাপতি, বিভাগ প্রধান, কার্যক্রম বিভাগ, সাধারণ অর্থনীতি বিভাগ, এনইসি-একসেক ও সমন্বয় অনুবিভাগ, বেজা, পিপিপি কর্তৃপক্ষ ইত্যাদি এর প্রতিনিধি এবং সিপিটিইউ-এর মহাপরিচালক প্রস্তাবিত প্রকল্পের বিভিন্ন অংশ বিশ্লেষণপূর্বক মতামত প্রদান করেন। প্রকল্পের সঠিক শিরোনাম নির্বাচন, প্রকল্পের উদ্দেশ্য আরও সুনির্দিষ্ট, পরিমাপযোগ্য, অর্জনযোগ্য, প্রাসক্তিক ও সময়াবদ্ধকরণ; লগ্নি প্রকল্পের National Goal অর্থাৎ চলমান ৭ম পঞ্চবার্ষিকী পরিকল্পনা/এসডিজি এবং আসন্ন ৮ম পঞ্চবার্ষিকী পরিকল্পনা অনুযায়ী Goal নির্ধারণ এবং প্রস্তাবিত ডিপ্লিটের সাথে ২য় প্রেক্ষিত পরিকল্পনা (২০২১-২০২৫), ৭ম পঞ্চবার্ষিকী পরিকল্পনা (২০১৬-২০২০)/এসডিজি এবং আসন্ন ৮ম পঞ্চবার্ষিকী পরিকল্পনার (২০২১-২০২৫) লক্ষ্যমাত্রাসমূহ এ্যালাইন করার বিষয়ে একমত পোষণ করা হয়।

সভাপতি (সিপিটিইউ)  
সিপিটিইউ-এর মহাপরিচালক  
সিপিটিইউ-এর মহাপরিচালক  
সিপিটিইউ-এর মহাপরিচালক  
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সিপিটিইউ-এর মহাপরিচালক  
সিপিটিইউ-এর মহাপরিচালক  
সিপিটিইউ-এর মহাপরিচালক  
সিপিটিইউ-এর মহাপরিচালক

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Anisur Rahman  
Director  
Prime Minister's Office  
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৩.২। প্রস্তাবিত ডিপিপি-তে একই বিষয়ের পুনরাবৃত্তি, কপি-পেট এবং অপ্রাসঙ্গিক ও ত্রুটিপূর্ণ তথ্য থাকায় সেগুলো পরিহার করে ডিপিপি পুনর্গঠনের জন্য সভায় নির্দেশনা প্রদান করা হয়। বিভাগ প্রধান প্রস্তাবিত প্রকল্পের আওতায় বিভিন্ন জেড নির্মাণ কাজের পেন-আউট প্রদান ও এলিভেশন এবং জেড নির্মাণ কাজের প্রাকল্পিত ব্যয়ের সার-সংক্ষেপ পুনর্গঠিত ডিপিপি-তে সংযোজনের বিষয়ে মতামত ব্যক্ত করেন। তিনি প্রকল্পের আওতায় নির্মাণের জন্য প্রস্তাবিত রাতার ক্রস-সেকশন, ডিজাইন শাইফ, কিউমুলেটিভ ইকুইভেলেন্ট সিঙ্কোপ এক্সেল লোড (সিইএসএএল) এবং রাতার মেইনটেনেন্স সিডিউল সংক্রান্ত তথ্য পুনর্গঠিত ডিপিপি-তে সংযুক্ত করার বিষয়েও মতামত ব্যক্ত করেন। কার্যক্রম বিভাগের প্রতিনিধি আলোচনায় অংশ নিয়ে একই প্রকল্প এলাকায় বিশ্ববাংকের অর্থায়নে কাভার্যান্সীন বিনিয়োগ প্রকল্পটির আওতায় চলমান জেড কাজ ও পরামর্শক সেবার অতিরিক্ত কী কী কাজ আলোচ্য প্রকল্পের আওতায় প্রস্তাব করা হয়েছে সে বিষয়ে সুস্পষ্ট demarcation রেখা পুনর্গঠিত ডিপিপি-তে তথ্য প্রদানের জন্য মতামত প্রদান করলে সভায় ঐকমত্য হয়।

৩.৩। আলোচনায় অংশ নিয়ে ডিপিপি কর্তৃপক্ষের প্রতিনিধি জানান যে, বেসরকারি অংশীদার নির্বাচন/নিযুক্তি সংক্রান্ত সকল কার্যক্রমে ডিপিপি আইন/বিধিগাইডলাইন/পলিসি অনুসরণের বাধ্যবাধকতা রয়েছে। সভায় প্রস্তাবিত প্রকল্পের আওতায় একটি পরামর্শক ফর্ম নিয়োগের মাধ্যমে কোয়ার একটি নিজস্ব PPP Guideline প্রণয়নের বিষয়ে বিস্তারিত আলোচনা হয়। এ প্রসঙ্গে “পিপিপি আইন, ২০২৫” এর বরাতে পিপিপি কর্তৃপক্ষের প্রতিনিধি কর্তৃক জানান যে, “Procurement Guideline for PPP Projects 2018” এ প্রয়োজনীয় সকল প্রকার বিধি ও গাইডলাইন অনুমোদন করা হয়েছে। ফলে, বেজা কর্তৃক প্রস্তাবিত প্রকল্পের মাধ্যমে অন্য কোন PPP Guideline প্রণয়নের প্রয়োজন নেই। বেজার নিজস্ব PPP Guideline প্রণয়নের বিষয়ে বিস্তারিত আলোচনার পর PPP Guideline এ কিছু সংযোজনের প্রয়োজন বলে Public Private Partnership (PPP) Authority এর মতামত গ্রহণপূর্বক যথানিয়মে তা করা যেতে পারে বলে সভায় মতামত ব্যক্ত করা হয়।

৩.৪। পরামর্শক ফর্ম নিয়োগের মাধ্যমে কারিকুলাম প্রণয়নপূর্বক বেজা ফাংশনের PPP বিষয়ে প্রশিক্ষণ প্রদানের প্রস্তাবে ডিপিপি কর্তৃপক্ষের প্রতিনিধি জানান যে, পিপিপি কর্তৃপক্ষ পিপিপি বিষয়ে মন্ত্রণালয়/বিভাগ/সংস্থার প্রকল্প সংশ্লিষ্ট কর্মকর্তাদেরকে নিয়মিতভাবে প্রশিক্ষণ প্রদান করে থাকে। এছাড়া, খ্যাতনামা প্রতিষ্ঠান নিয়োগের মাধ্যমে সার্টিফিকেশন কোর্সও পরিচালনা করে থাকে। এ প্রেক্ষাপটে বেজার ফাংশন/কর্মকর্তাদের প্রশিক্ষণ প্রদানের জন্য পৃথক কোন কারিকুলাম প্রণয়নের প্রয়োজন নেই। পিপিপি কর্তৃপক্ষের প্রতিনিধি আরও জানান যে, প্রশিক্ষণ একটি চলমান প্রক্রিয়া বিষয় প্রকল্প সংশ্লিষ্ট কর্মকর্তাদের দক্ষতা উন্নয়নে প্রস্তাবিত প্রকল্পের আওতায় প্রশিক্ষণের ব্যবস্থা রাখা যেতে পারে।

৪.০। সিদ্ধান্তঃ বিস্তারিত আলোচনায়ের নিম্নলিখিত শর্তাবলির আলোকে ডিপিপি পুনর্গঠন সাপেক্ষে প্রকল্প প্রস্তাব অনুমোদনের জন্য সুপারিশ করা হয়ঃ

- ৪.১। প্রকল্পের পিরোনাম প্রকল্পের কার্যক্রমের সঙ্গে সামঞ্জস্য রেখে পুনঃনির্ধারণ করতে হবে;
- ৪.২। প্রকল্পের লক্ষ্য অর্জনের জন্য বর্ণিত উদ্দেশ্য আরও সুনির্দিষ্ট, পরিমাপযোগ্য, অর্জনযোগ্য, প্রাসংগিক ও সমাধানভিত্তিক উপস্থাপন করতে হবে। একইভাবে লগ ফ্রেমও সুনির্দিষ্ট, সময়বদ্ধ ও পরিমাপযোগ্য তথ্যাদি উল্লেখ করতে হবে। লগ ফ্রেমের ইন্পুট ও আউটপুটের ক্ষেত্রে সুনির্দিষ্ট তথ্য প্রদানপূর্বক প্রকল্পের Goal হিসাবে National Goal অর্থাৎ চলমান ৭ম পঞ্চবার্ষিকী পরিকল্পনা/এসডিজি এবং আসন্ন ৮ম পঞ্চবার্ষিকী পরিকল্পনা অনুযায়ী Goal নির্ধারণ করতে হবে। এছাড়া, প্রস্তাবিত ডিপিপির সাথে ২য় শ্রেণিতে পরিকল্পনা (২০২২-২০৪১), ৭ম পঞ্চবার্ষিকী পরিকল্পনা (২০১৬-২০২০)/এসডিজি এবং আসন্ন ৮ম পঞ্চবার্ষিকী পরিকল্পনা (২০২১-২০২৫)-এর সংশ্লিষ্ট স্থাপনপূর্বক তা পুনর্গঠন করতে হবে;
- ৪.৩। ইআরডি-তে অন্তর্ভুক্ত আর্থ:মন্ত্রণালয় সভার নোটিশ ও কার্যবিবরণী এবং বিশ্ববাংকের ঢাকা কার্যালয়ে প্রকল্পের উপর অন্তর্ভুক্ত নোটিশবিশেষের সন্যত কার্যবিবরণী (Agreed Minutes) ডিপিপি-তে সংযুক্ত করতে হবে;
- ৪.৪। প্রস্তাবিত প্রকল্পটির একই প্রকল্প এলাকায় চলমান সমাজতীয় “Bangladesh Economic Zone Development Project (Phase-1)”-সীম্বক প্রকল্পের উদ্দেশ্য ও কার্যবলির সাথে প্রস্তাবিত প্রকল্পের কোন দ্বৈততা রয়েছে কি না, প্রকল্পটির জেড ও পরামর্শক সেবা সংক্রান্ত কার্যাবলি বিবরণ, প্রধান প্রধান অংশের জেড/ফিজিক্যাল অ্যাংজি সংক্রান্ত তথ্যাদি এবং দু’টি প্রকল্পের সমন্বয়ের পরিকল্পনা পুনর্গঠিত ডিপিপি-তে সংযোজন করতে হবে। একইসাথে প্রস্তাবিত প্রকল্পের Exit Plan সংক্রান্ত তথ্যাদিও পুনর্গঠিত ডিপিপি-তে সংযোজন করতে হবে;
- ৪.৫। প্রস্তাবিত ডিপিপির ২০নং অনুচ্ছেদে সমাজতীয় অন্যান্য চলমান প্রকল্পের প্রধান প্রধান আইটেমের সাথে তুলনামূলক বিবরণসহ একটি গুলন করতে হবে;

৪.৬। প্রকল্পের সম্ভাব্যতা সমীক্ষা প্রতিষ্ঠানপূর্বক প্রতিবেদনের নির্বাহী সারসংক্ষেপ ও সুপারিশ ডিপিপি-তে সংযুক্ত করতে হবে। এছাড়া, ১২% ডিসকাউন্ট রেট প্রকল্পের আর্থিক ও অর্থনৈতিক আয়-ব্যয় বিশ্লেষণ করে ফলাফল পুনর্গঠিত ডিপিপি-তে প্রদান করতে হবে।



স্বাক্ষরিত  
 ডিপিপি  
 প্রকল্পের প্রধান ও অফিসার  
 মহোদয়/মহোদয়

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 মহোদয়/মহোদয়



৪৮

- ৪.৭। জিওরি হতে ১% সুদে ৩৮৩.১৭ কোটি ঋণ গ্রহণের বিষয়ে পূর্বেই অর্থ বিভাগের সম্মতি গ্রহণ করতে হবে। একইসময়ে ঋণকাংক হতে গৃহীত ঋণ ফরাহানের লক্ষ্যে নিয়মানুযায়ী অর্থ বিভাগের সতজ্ঞা একটি Subsidiary Loan Agreement (SLA) করতে হবে। এছাড়া, ঋণকাংক হতে গৃহীত ঋণের বিপরীতে ঋণ পরিশোধ সংক্রান্ত Amortization Schedule পুনর্নির্দিষ্ট জিপিপি-তে সংযুক্ত করতে হবে;
- ৪.৮। অর্থ বিভাগের জনবল নির্ধারণ সংক্রান্ত কমিটির সভার কার্যবিবরণী সংযুক্তিকরণসহ উক্ত সভার সুপারিশের আলোকে প্রকল্পের অনুরূপ কাঠামো ও নিয়োগ পদ্ধতি নির্ধারণ করতে হবে;
- ৪.৯। বিশ্বকাংকের অর্থায়নে বেজা'র মাধ্যমে স্বাক্ষরায়নধীন "Bangladesh Economic Zone Development (Phase-1) Project (2<sup>nd</sup> Revised)" এবং "Support to Capacity Building of BEZA Project (2<sup>nd</sup> Revised)"-সীমিত প্রকল্পসমূহের জনবল উন্নয়ন প্রকল্পে জনবল নিয়োগ বিষয়ে অর্থ বিভাগ হতে জারিকৃত গীতিমালার আলোকে প্রস্তাবিত "Private Investment and Digital Entrepreneurship (PRIDE)"-সীমিত প্রকল্পের Project Implementation Unit (PIU) এর জনবল হিসাবের সরাসরি নিয়োগ/স্বান্যভারের সুযোগ নেই। এছাড়া, প্রস্তাবিত ১৫২ জন জনবলের Project Allowance হিসেবে অতিরিক্ত ২০% ভাতা প্রদানের প্রস্তাবে অর্থ বিভাগ হতে সম্মতি গ্রহণপূর্বক অর্থ বিভাগের অনুমোদনপত্র জিপিপি-তে সংযুক্ত করতে হবে;
- ৪.১০। প্রস্তাবিত প্রকল্পের আওতায় বিভিন্ন কাছ ৫৫ (পঞ্চাশ) জন ব্যক্তি পরামর্শক নিয়োগের যে প্রস্তাব করা হয়েছে তন্মধ্যে Medical Officer, Nurse/Paramedics, Lab Technician, Junior IT Consultant, Junior Audit Consultant সংক্রান্ত পদসমূহের জনবল পরামর্শক হিসেবে নিয়োগ না দিয়ে প্রকল্প জনবল হিসেবে নিয়োগ প্রদান করতে হবে;
- ৪.১১। বেজা'র নিজস্ব PPP Guideline প্রণয়ন বিষয়ে জিপিপি-তে প্রদত্ত অসঙ্গতিপূর্ণ তথ্যসমূহ বাদ দিতে হবে। বেজা'র প্রয়োজনানুসারে PPP Guideline এ কিছু সংশোধনের প্রয়োজনে Public Private Partnership (PPP) Authority এর সত্যান্ত গ্রহণপূর্বক প্রান্তে যথাযথ কর্তৃপক্ষের অনুমোদন গ্রহণ করতে হবে/PPP Guideline সংশোধনের বিবিধ প্রক্রিয়া অবলম্বন করতে হবে। এছাড়া, PPP বিষয়ে বেজা'র কাছদের প্রিন্সিপল প্রদানের ক্ষেত্রে PPP কর্তৃপক্ষের মাধ্যমে প্রিন্সিপলের আয়োজন করতে হবে;
- ৪.১২। পরামর্শক কর্ম নিয়োগের মাধ্যমে একটি National Master Plan for BEZA প্রণয়নের যে প্রস্তাব করা হয়েছে তার Scope of work সংশোধন করতে হবে। National Master Plan for BEZA প্রণয়ন বিষয়ে জিপিপি হতে অপ্রয়োজনীয় কপি-সেট অংশগুলো বাদ দিয়ে সেটি প্রণয়নের যৌক্তিকতা যথাযভাবে উল্লেখ করতে হবে;
- ৪.১৩। প্রস্তাবিত প্রকল্পের আওতায় যে ৬ ধরনের জৌত অরকাঠামোগুলো Public Private Partnership (PPP) ব্যবস্থায় নির্মাণের প্রস্তাব করা হয়েছে সে সকল অরকাঠামোর সেটি আনুমানিক ব্যয় (সেসকারি ও সেসরকারি অংশ) এবং প্রস্তাবিত প্রকল্প হতে প্রাপ্তি অংশের বিপরীতে কত টাকা ব্যয় হবে (সেসকারি অংশ) তার একটি আলিকা জিপিপি-তে সংযুক্ত করতে হবে;
- ৪.১৪। প্রস্তাবিত প্রকল্পের আওতায় অন্যান্য যে সকল অরকাঠামো যেমন, ডেবেজা সিস্টেম, পানি সরবরাহ ব্যবস্থা, Channel Lining ইত্যাদির নকশা এবং বিভিন্ন আর্থনিক ভবন যেমন, Investor's Club, Furnished OSS Centre for BSMMSN, Emergency Response Centre, Skill Development Centre, Child Care & Emergency Health Centre, Mosque ইত্যাদি প্রস্তাবিত ভবনের লে-আউট প্রান ও এলিকেশন জিপিপি-তে সংযুক্ত করতে হবে। এছাড়া, প্রস্তাবিত রাস্তার ক্রস-সেকশন, জিআইন মাস্ট্র, কিউমুলেটিভ ইন্সট্রুমেন্টেট সিস্টেম এলেক্স নেড (সিইএসএলএক্স) এবং ঋণের সেইনটমেন্টে সিস্টেম সংক্রান্ত তথ্য পুনর্নির্দিষ্ট জিপিপি-তে সংযুক্ত করতে হবে;
- ৪.১৫। বেজা'র বিনামান আইনে "BSMSN Development Company (BSDC)" কোম্পানি বা এ জাতীয় কোম্পানি গঠনের সুযোগ না থাকলে বেজা'র আইনে প্রয়োজনীয় সংশোধন এনে এরূপ কোম্পানি গঠনের পদক্ষেপ গ্রহণ করতে হবে;
- ৪.১৬। প্রকল্পের আওতায় বিভিন্ন বিষয়ে ২টি পরামর্শক ফার্ম ও অর্পার ৫৫ জন ব্যক্তি পরামর্শকের TOR যথাযথভাবে সংশোধন করে উপযুক্ত কর্তৃপক্ষের অনুমোদন গ্রহণপূর্বক জিপিপি-তে সংযুক্ত করতে হবে। এছাড়া, প্রকল্পের আওতায় প্রস্তাবিত বিভিন্ন জৌত নিয়োগ কাজসমূহের প্রাপ্তকালিত ব্যয় হালনাগাদ রেট সিস্টেম অনুযায়ী যথাযথ হয়েছে কি না তা পরীক্ষা করতে হবে; এবং
- ৪.১৭। প্রস্তাবিত জিপিপি'র বিভিন্ন অংশে অন্য প্রকল্পের বর্ণনার হতে অপ্রাসঙ্গিকভাবে কপি-সেট করে সংযুক্ত অংশগুলো চিহ্নিত করে বাদ দিতে হবে। এছাড়া, একই তথ্যের পুনরাবৃত্তিসমূহও পরিহার করতে হবে;
- ৪.১৮। অসুস্থ ৪.১-৪.১৭ এ বর্ণিত সুপারিশের আলোকে জিপিপি পুনর্গঠনপূর্বক বৃত্ত পরিকল্পনা কমিশনে প্রেরণ করতে হবে।
- ৫.০। অর্থ সেন্স জালগেটন বা ঋণায় সত্যান্তি মকলমকে ধর্মাবাদ জ্ঞানিয়ে সভা সমাধি করেন।



যাণীরত/=  
২২/০৬/২০২০  
(প্রিন্সিপাল সেক্রেটারী)  
সদস্য (সচিব)

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Director  
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সমান্বিত সেক্রেটারী  
সুপারসচিব  
কার্যক্রম (সি.সি.সি.এস.ও.সিস্টেম)



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উদ্ভিদ তৎসক জীবনের জালিকা

বিষয়ঃ "Private Investment and Equity Entrepreneurship (PRIDE) for BEZA Project"  
 সত্তর তারিখ ও দিনঃ ১৫/০৬/২০২০ খ্রিঃ বোম্বাই  
 সময়ঃ সকাল ১১:৩০ ঘটিকা সত্ৰারস্থানঃ পৌকসনে বিজয়ের সড়-ফলন কক্ষ, ব্লক-১০, কক্ষ-৩৪, শেরে-বাংলা নগর, ঢাকা।  
 সভাপতিঃ জনাব প্রদীপ রঞ্জন চক্রবর্তী, সচিব।  
 ডি. বি. ও গণিত বিভাগ, পাবনা কলেজ।

ক্রমিক নং	নাম ও পদবি	মন্ত্রণালয়/বিভাগ/সংস্থা	ফোন নম্বর	স্বাক্ষর
১.	ড. জগদীশ্বর বসুগোপাল কিংসফোর্ড। গুৱাহাটী।	শ্রী. কংগ্রেস		শ্রী
২.	ডোঃ আব্দুল বাসীর সেতুপরিচালক	বিবিবিবি কলেজ বাগাইচাঁও বিজ্ঞান প্রকল্প কামালপুর	০১১১২-৩৪২ ৩০৬	শ্রী
৩.	ডোঃ ছায়েদুল্লাহ কায়সার মুখ্য-পরিচালক	বাগাইচাঁও বিজ্ঞান প্রকল্প কামালপুর		শ্রী
৪.	ডোঃ সত্যেন্দ্র কুমার মুখ্য-সচিব	আইসিআর মন্ত্রণালয় (সেতুপরিচালক)	০১৭১৫২৭৩৩৩	শ্রী
৫.	ডোঃ উজ্জ্বল বিশ্বাস মুখ্য-পরিচালক (সেতুপরিচালক)	মন্ত্রণালয় বিজ্ঞান	<del>০২২৫৫৫৫৫</del> ০৭২৫৫৫৫৫৫৫৫৫	শ্রী
৬.	শ্রী রশ্মি শর্মা ডেপুটি প্রোগ্রামার	জিআই কামালপুর	০১৪১৭ ২ ৩৪৩ ৭৭	শ্রী
৭.	শ্রী অমিত কুমার সেতুপরিচালক-প্রধান	জিআই ও আইসি আইসিআর মন্ত্রণালয়	০১৬৭৫৫৬৩ ৪৪৭	শ্রী
৮.	শ্রী অমিত, মন্ত্রণালয় সেতুপরিচালক	সেতুপরিচালক	০১৪১৭ ৫২২১৪০	শ্রী
৯.	ডোঃ ললিতা কুমার সেতুপরিচালক-প্রধান ও সিনিয়র সেতুপরিচালক	বিবিবিবি কলেজ	০১৬১২৫৫০০৩১	শ্রী
১০.	শ্রী অমিত (মন্ত্রণালয়) সেতুপরিচালক (ডি.সি.)	বিবিবিবি কলেজ	০১৪১৭ ৪৪৭২ ০০৭২	শ্রী
১১.	ডাঃ আব্দুল আজিজ সেতুপরিচালক	বিবিবিবি কলেজ	০১৫০১৬১৭	শ্রী
১২.	শ্রী অমিত (মন্ত্রণালয়) সেতুপরিচালক	বিবিবিবি কলেজ	০১৪১৭ ৪৪৭২ ০০৭২	শ্রী
১৩.	শ্রী অমিত (মন্ত্রণালয়) সেতুপরিচালক	বিবিবিবি কলেজ	০১৭২২১১২৭১৫	শ্রী

সভাপতি, সরকার  
 মুখ্য-পরিচালক  
 সেতুপরিচালক

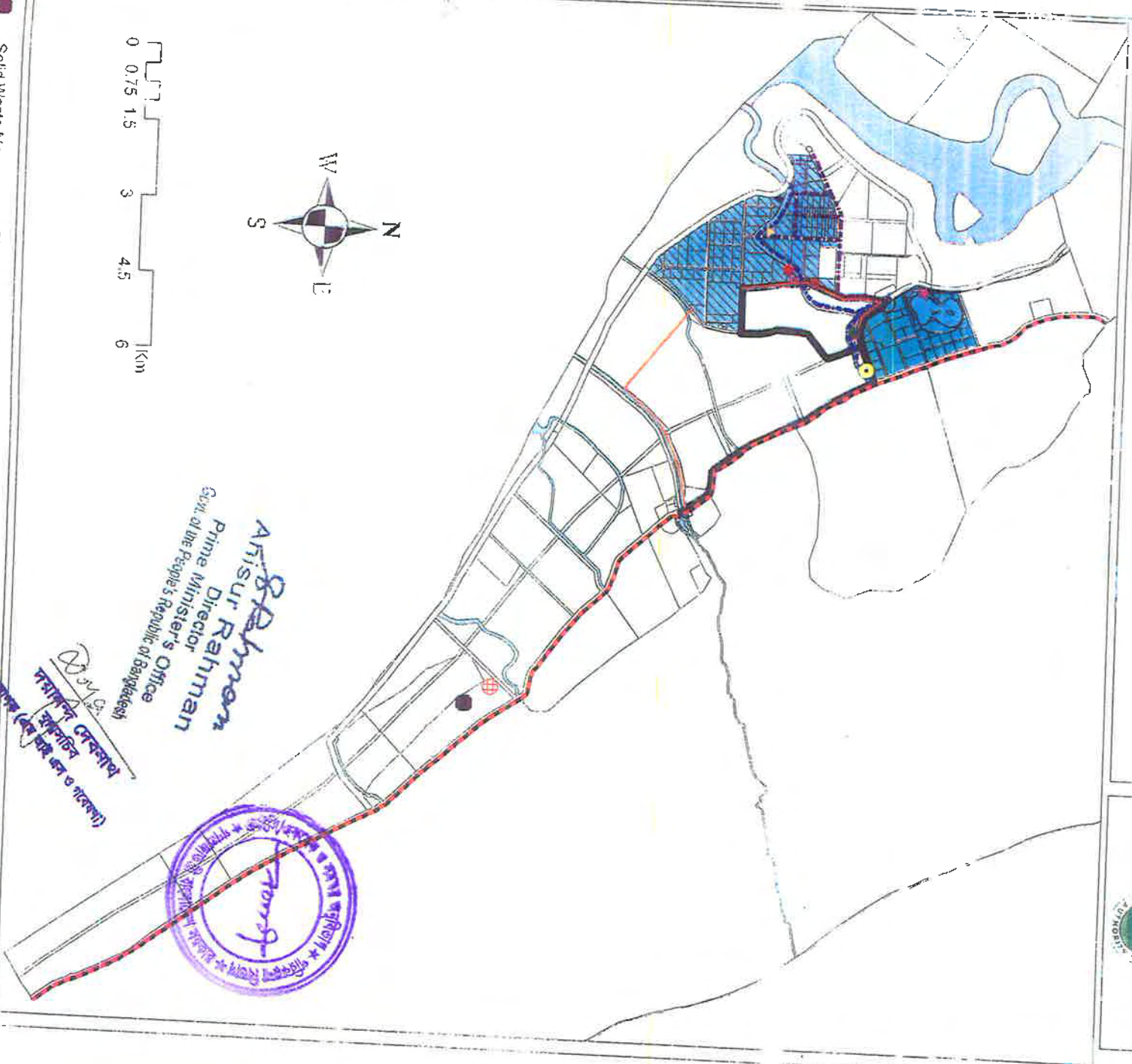
শ্রী অমিত  
 Director  
 Prime Minister's  
 Govt of the B.

558



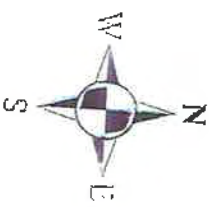
# BSMSN PRIDE Project Works

Appendix XVIII



## Legend

- Solid Waste Management Plant
  - ⊠ Bio-Gas Plant
  - CETP
  - ∠ Desalination Plant
  - ★ Emergency Response Center
  - ✳ Investor's Club
  - ⊙ Mosque
  - ⊙ Skill Development Center
  - ⊙ Child Care cum Health Center & Env Lab & Monitoring System
- 
- Gas Pipeline (Access for 2A-2B)
  - Security & Support Amenities
  - Steam Network
  - Road Network (Access for 2A & 2B)
  - Inside Road, Storm Water Drainage, Sanitation & Water Supply, Power Network, Gas Pipeline
- 
- Resilient site upgrade
  - Solar Power
  - Land Development
  - ▨ Zone 2A & 2B



*Artisur Rahman*  
 Prime Minister's Office  
 Secy. of the People's Republic of Bangladesh

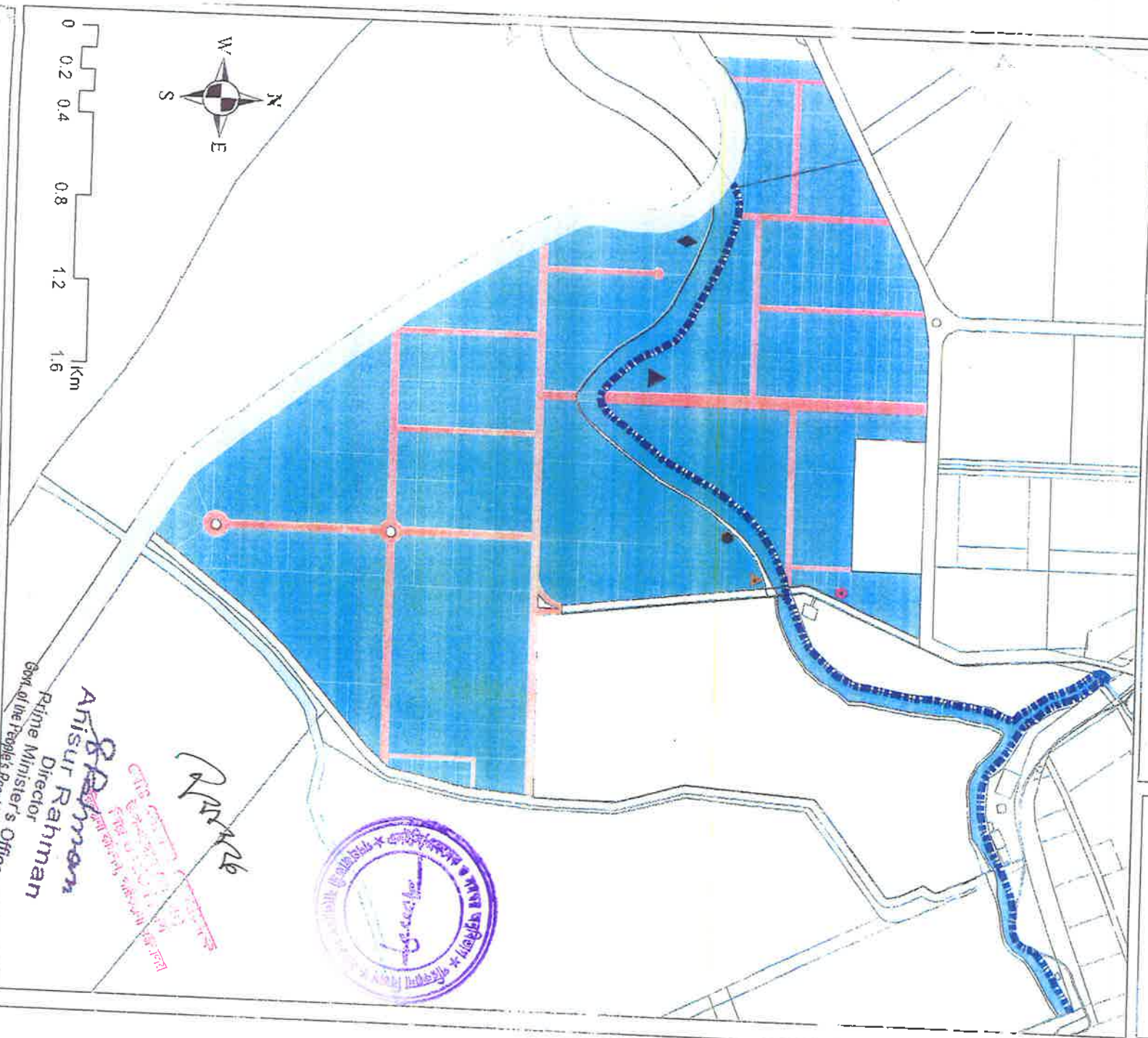


*১০/১১/১৯*  
 ডায়েরী নং ১০১৯  
 সচিবালয় (১০/১১/১৯)

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*১০/১১/১৯*  
 সচিবালয় (১০/১১/১৯)

# BSMSN PRIDE Works (Inside 2A-2B)



## Legend

- CETP
- Childcare cum Health Center & Env Lab & Monitoring
- Desalination Plant
- Emergency Response Center
- Skill Development Center
- Channel Lining
- Inside Road, Storm Water Drainage, Sanitation & Water Supply, Power Network, Gas Pipeline, Steam Network
- Solar Power

Anisur Rahman
   
 Director
   
 Genl. of the People's Republic of Bangladesh

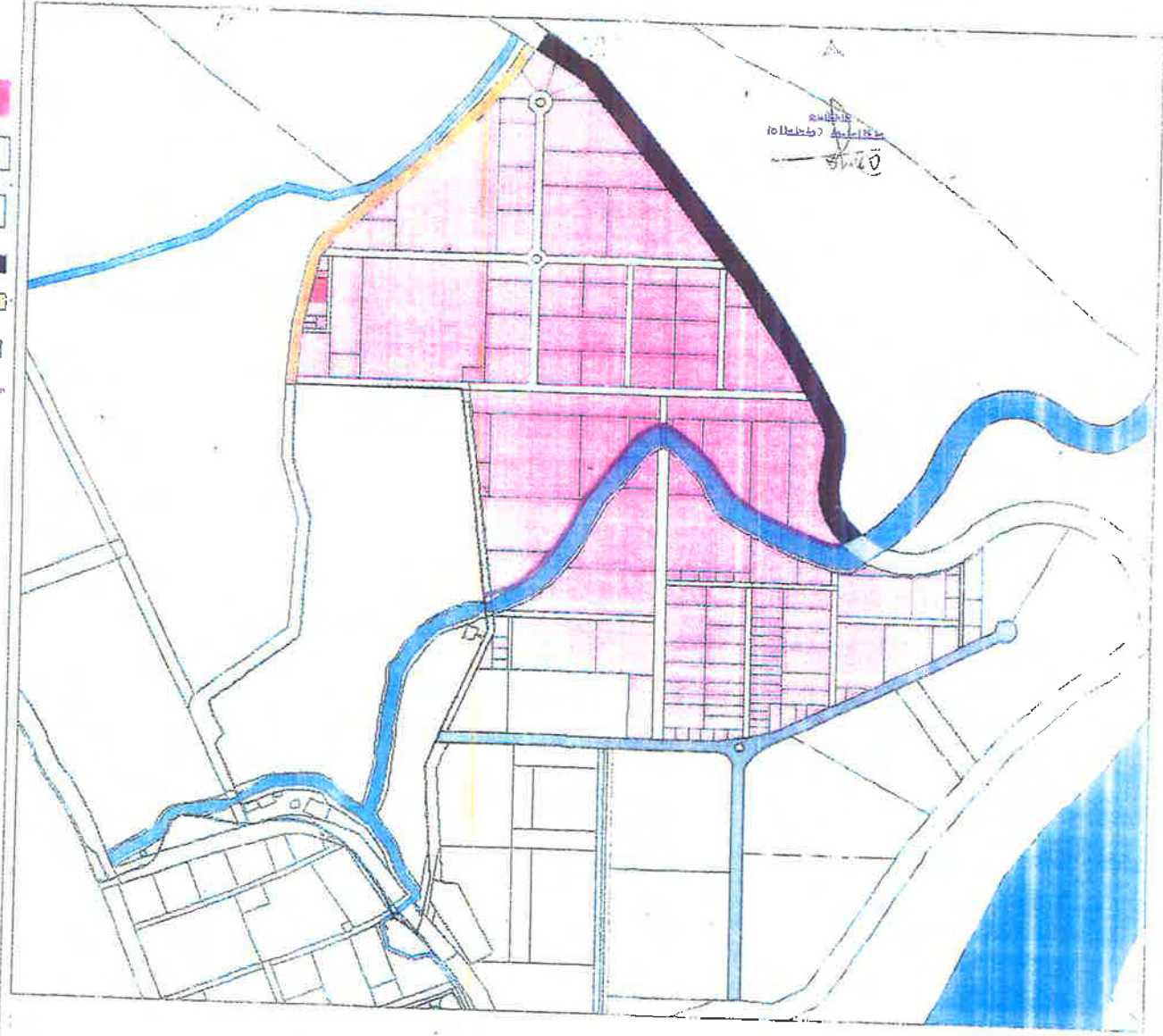


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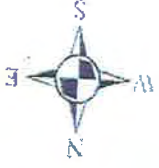
561



BMSMN Phase-01 Works (2A-2B)



- Legend**
- Electrical Substation
  - Land Development
  - Sluice Gate
  - Embankment/ Super Dyke
  - Embankment cum Road
  - Road
  - Embankment

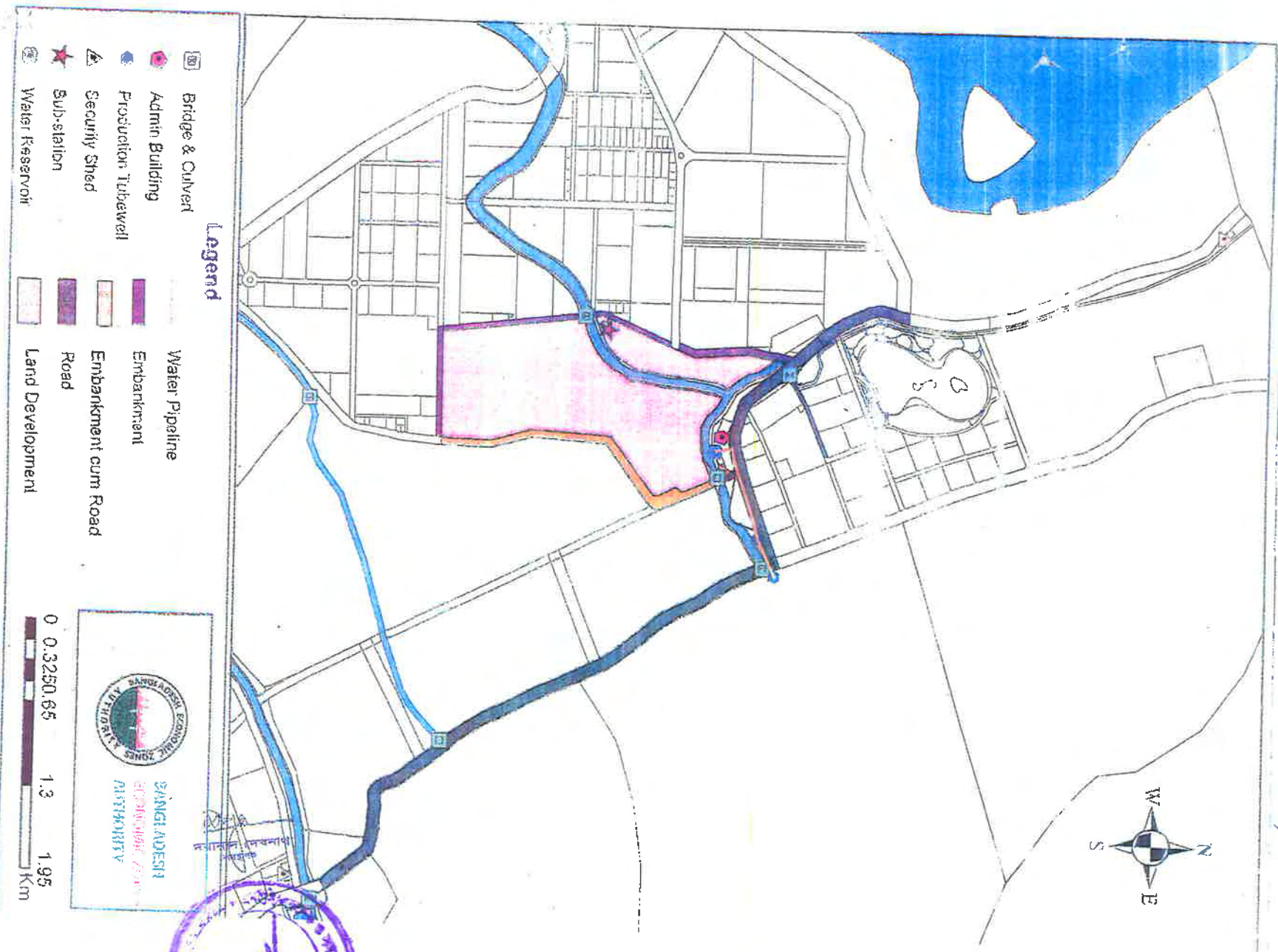


০২/১৯  
 বাংলাদেশ সরকার  
 প্রধানমন্ত্রীর কার্যালয়  
 ঢাকা-১১০০

৫৬৯  
 Anisur Rahman  
 Director  
 Prime Minister's Office  
 Govt. of the Peoples Republic of Bangladesh

বাংলাদেশ  
 জাতীয়  
 পরিকল্পনা  
 কমিশন  
 ঢাকা-১১০০

# BSMSN Phase-01 Works (Outside 2A-2B)



০০৫৭  
 মহাপ্রকল্প পরিচালক  
 জাতীয়  
 সড়ক প্রকল্প (১৯৭৫-৭৬)

৫৬৬  
 RWA

ANISUR RAHMAN  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh





২০২৩  
১৫/১১/২০২৩

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার  
প্রধানমন্ত্রীর কার্যালয়

সংখ্যা: ১৫০১/১১/২৩

১. এটি একটি আদেশ।  
২. এটি প্রযোজ্য হলেই কার্যকর হবে।  
৩. এটি কার্যকর হলেই কার্যকর হবে।  
৪. এটি কার্যকর হলেই কার্যকর হবে।

১৫/১১/২৩

প্রণয়িতঃ প্রধানমন্ত্রীর কার্যালয়

তারিখঃ ১৫/১১/২৩

১৫/১১/২৩

পত্র সংখ্যা: ০৩.০৯.০০০০.০৬৮.১৮.০৩৫.১৯-৬৫২

অফিস নং: ৪৪৭৭০  
তারিখ: ১৫/১১/২৩

২৬ কার্তিক ১৪২৬ বঃ  
তারিখ: ১৯ নভেম্বর ২০১৯ খ্রিঃ

বিষয়ঃ মাননীয় প্রধানমন্ত্রীর সভাপতিত্বে 'বঙ্গবন্ধু শেখ মুজিব শিল্পনগর' এর প্রস্তুতকৃত মাস্টার প্ল্যান উপস্থাপনের  
অন্য অনুরূপ সভার কার্যবিবরণী।

মাননীয় প্রধানমন্ত্রীর সভাপতিত্বে 'বঙ্গবন্ধু শেখ মুজিব শিল্পনগর' এর মাস্টার প্ল্যান বিষয়ক পত্র  
২০/১০/২০১৯ তারিখে অনুষ্ঠিত সভার কার্যবিবরণী সদয় অবগতি ও পরবর্তী প্রয়োজনীয় কার্যার্থে নির্দেশক্রমে  
এসমূহ প্রেরণ করা হলো।

১৫/১১/২৩

পরিচালক-১  
(প্রোগ্রামিং অফিস)  
ফোনঃ ৫৫০২৯৪২১  
E-mail: [dir1@pmo.gov.bd](mailto:dir1@pmo.gov.bd)

নির্বাহী চেয়ারম্যান  
বাংলাদেশ অঞ্চলভিত্তিক অঞ্চল কর্তৃপক্ষ  
খোনের বিজনেস ডিভিশন (কোডেল-১২)  
১১১ বীর উত্তম সি.আর.দত্ত রোড, ঢাকা।

PMM3  
১৫/১১/২৩

১৫/১১/২৩  
১৫/১১/২৩  
১৫/১১/২৩

১	২	৩	৪	৫
৬	৭	৮	৯	১০
১১	১২	১৩	১৪	১৫
১৬	১৭	১৮	১৯	২০
২১	২২	২৩	২৪	২৫
২৬	২৭	২৮	২৯	৩০
৩১	৩২	৩৩	৩৪	৩৫
৩৬	৩৭	৩৮	৩৯	৪০
৪১	৪২	৪৩	৪৪	৪৫
৪৬	৪৭	৪৮	৪৯	৫০
৫১	৫২	৫৩	৫৪	৫৫
৫৬	৫৭	৫৮	৫৯	৬০
৬১	৬২	৬৩	৬৪	৬৫
৬৬	৬৭	৬৮	৬৯	৭০
৭১	৭২	৭৩	৭৪	৭৫
৭৬	৭৭	৭৮	৭৯	৮০
৮১	৮২	৮৩	৮৪	৮৫
৮৬	৮৭	৮৮	৮৯	৯০
৯১	৯২	৯৩	৯৪	৯৫
৯৬	৯৭	৯৮	৯৯	১০০



১৫/১১/২৩  
১৫/১১/২৩  
১৫/১১/২৩

৫৬৫

ATISUR Rahman  
Director  
Prime Minister's Office  
Govt. of the People's Republic of Bangladesh

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার  
প্রধানমন্ত্রীর কার্যালয়  
তেজগাঁও, ঢাকা।

বঙ্গবন্ধু শেখ মুজিব শিল্পনগরের মাঠার প্ল্যান বিষয়ক সভার কার্যবিবরণী

সভাপতি	:	শেখ হাসিনা
	:	প্রধানমন্ত্রী
	:	গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
	:	ও
	:	সভাপতি
	:	গভর্নিং বোর্ড, বাংলাদেশ অর্থনৈতিক অঞ্চল কর্তৃপক্ষ
তারিখ	:	০৫ কার্তিক ১৪২৬/২০ অক্টোবর ২০১৯
সময়	:	দুপুর ১২:০০টা
স্থান	:	চামেলী হব, প্রধানমন্ত্রীর কার্যালয়

সভার সূচনায় সভাপতি উপস্থিত সকলকে স্বাগত জানিয়ে সভার কার্যক্রম শুরু করেন। মাননীয় প্রধানমন্ত্রীর মুখ্য সচিব জনাব মোঃ নজিবুর রহমান অবহিত করেন যে, আজকের সভায় বাংলাদেশ অর্থনৈতিক অঞ্চল কর্তৃপক্ষের উন্নয়ন কার্যক্রম এবং বঙ্গবন্ধু শেখ মুজিব শিল্পনগরের মাঠার প্ল্যান বিষয়ক দুটি উপস্থাপনা রয়েছে। তিনি আরও জানান যে, সভায় প্রধানমন্ত্রীর কার্যালয়ের কর্মকর্তাগণ, বেজার কর্মকর্তাগণ ও কনসালটেন্টগণ উপস্থিত রয়েছেন। অন্যথায় মোঃ আবুল কালাম আজাদ, মুখ্য সচিব (এসজিও) বঙ্গবন্ধু শেখ মুজিব শিল্পনগরের গুরুত্ব ও বেজার উন্নয়ন কার্যক্রমের অগ্রগতি বিষয়ে সংক্ষিপ্ত আলোকপাত করে এই সম্পর্কিত প্রতিবেদন দুটি উপস্থাপনের আস্থান জানান। বেজার নির্বাহী চেয়ারম্যান জনাব পবন চৌধুরী 'বাংলাদেশ অর্থনৈতিক অঞ্চল কর্তৃপক্ষের উন্নয়ন কার্যক্রম' এবং পরামর্শক মিস দেবোয়ার্থ পোরতে 'বঙ্গবন্ধু শেখ মুজিব শিল্পনগরের মাঠার প্ল্যান' সভায় উপস্থাপন করেন। সভাপতি উপস্থাপনার জন্য সংশ্লিষ্টদের ধন্যবাদ জানিয়ে বঙ্গবন্ধু শেখ মুজিব শিল্পনগরের মাঠার প্ল্যান বিষয়ে এবং বাংলাদেশ অর্থনৈতিক অঞ্চলের উন্নয়ন কার্যক্রমকে অধিকতর কার্যকর করার দৃষ্টিতে অনুশাসনসমূহ প্রদান করেন:

- ১.০. বঙ্গবন্ধু শেখ মুজিব শিল্পনগরের মাঠার প্ল্যান বিষয়ে নির্দেশনাসমূহ:
- ১.১. বঙ্গবন্ধু শেখ মুজিব শিল্পনগরের মাসিকদের জন্য সবচেয়ে যত্নসহকারিতামোগ্য স্থানে পর্যাপ্ত সংখ্যক মানসম্মত আবাসিক এলাকার ব্যবস্থা রাখতে হবে। বিনিয়োগকারীগণও যেন শ্রমিকদের মানসম্মত আবাসিক সুবিধা নিশ্চিত করেন আর ব্যবস্থা করতে হবে।
- ১.২. মাঠার প্লানে সলিড ওয়েস্ট, লিকুইড ওয়েস্ট ও ই-ওয়েস্টসহ সকল প্রকার বর্জ্য ব্যবস্থাপনা অন্তর্ভুক্ত করতে হবে। এই শিল্পনগরকে পরিষ্কৃত, পরিচ্ছন্ন ও পরিবেশ-বান্ধব হিসেবে গড়ে তুলতে হবে।
- ১.৩. শিল্পনগর এলাকায় শিক্ষা প্রতিষ্ঠান, হাসপাতাল, ফায়ার সার্ভিস, বাণিজ্যিক কেন্দ্র, শপিং মল, বিনোদন কেন্দ্রসহ সকল প্রকার আধুনিক ইউটিলিটি নিরূপণ করতে হবে। আভ্যন্তরীণ যোগাযোগ ব্যবস্থা আধুনিক ও মানসম্মত করতে হবে।
- ১.৪. বঙ্গবন্ধু শেখ মুজিব শিল্পনগরের বৃষ্টির পানি সংরক্ষণ, জলাধার, টেডিয়াস, খেলার মাঠ, উষ্ণক এলাকা ইত্যাদি রাখাসহ পর্যাপ্ত বৃক্ষরোপণের ব্যবস্থা গ্রহণ করতে হবে।
- ১.৫. মাঠার প্ল্যান-এ বজ্ঞাপসার জিরবর্তী ঘূর্ণিকাত, জলোচ্ছ্বাস, জলাবদ্ধতা ও বন্যা প্রতিরোধের কার্যকর ব্যবস্থা নিশ্চিত করতে হবে।
- ১.৬. বঙ্গবন্ধু শেখ মুজিব শিল্পনগরে নির্মাণাধীন সুপার উইকের পাশে বনাময়ন সৃষ্টি করতে হবে। সাগরের তীরে পর্যাপ্ত বৃক্ষরোপণের মাধ্যমে নতুন ভূমি গঠনের প্রয়াস গ্রহণ করতে হবে। শিল্পনগরের নিকটবর্তী সার্বিসহ অন্যান্য ষ্ট্রিপসমূহ পর্যায়ক্রমে শিল্পনগরের সঙ্গে পরিকল্পিতভাবে সংযুক্ত করার উদ্যোগ গ্রহণ করতে হবে।
- ১.৭. বঙ্গবন্ধু শেখ মুজিব শিল্পনগরের পার্শ্ববর্তী এলাকায় যাতে অপরিকল্পিত শিল্পায়ন বা আবাসিক এলাকা গড়ে না ওঠে সে লক্ষ্যে গুরামন ও গণপূর্ত সংক্রাময় কর্তৃক এ শিল্পনগরের পার্শ্ববর্তী এলাকা নিয়ে একটি সামগ্রিক পারিকল্পনা গ্রহণ করতে হবে।



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সম্মানসূচী লেখনামা  
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১৮. বেজা বিনিয়োগকারীদের জন্য বর্জ্য ব্যবস্থাপনা, গাণির ব্যবহার, শ্রমিক কল্যাণ, পরিবেশ সংরক্ষণ ইত্যাদি বিষয়ে গাইডলাইন প্রণয়ন করবে এবং সে অনুযায়ী বিনিয়োগকারীগণ অবকাঠামো নির্মাণ ও শিল্প স্থাপনসহ অন্যান্য উন্নয়ন কার্যক্রম পরিচালনা করবে; বেজা তা নিয়মিত মনিটরিং করবে।
১৯. শিল্পগণের হতে চট্টগ্রাম হয়ে কক্সবাজার পর্যন্ত একটি আধুনিক যোগাযোগ ব্যবস্থা তৈরি করে কক্সবাজার সেরিন ড্রাইভের সাথে সংযোগ স্থাপনের বিষয়ে সড়ক ও জনপথ বিভাগ প্রয়োজনীয় উদ্যোগ গ্রহণ করবে।
২০. বঙ্গবন্ধু শেখ মুজিব শিল্পগারের মাষ্টার প্লানে প্রস্তাবিত সমুদ্র বন্দর নির্মাণের কাজ অব্যাহত করতে হবে।
২১. বঙ্গবন্ধু শেখ মুজিব শিল্পগারের উপস্থাপিত মাষ্টার প্ল্যানটি উল্লিখিত নির্দেশনা অনুযায়ী প্রয়োজনীয় সংশোধন করতে হবে।

২০. বাংলাদেশ অর্থনৈতিক অঞ্চলের উন্নয়ন কার্যক্রম সম্পর্কিত নির্দেশনাসমূহ:

২১. কক্সবাজার জেলাধীন মতেশখালী উপজেলার সোনাদিয়ায় শুমারাইকো-টুরিজম পার্ক ভিত্তিক কার্যক্রম গ্রহণ করতে হবে। সোনাদিয়া দ্বীপ ও দ্বীপ সংলগ্ন লাঙ্গ কাঁকড়া ও কছপসহ জীববৈচিত্র্য সংরক্ষণ করতে হবে। এখানে মাছের ঘের কিংবা কোনো শিল্প কারখানা স্থাপন করা যাবে না।
২২. সোনাদিয়া দ্বীপে বেজা কর্তৃক বাস্তবায়মান বনায়ন কার্যক্রম অব্যাহত রাখতে হবে।
২৩. সোনাদিয়া ইকো-টুরিজম পার্ক উন্নয়নের ফলে যে সকল পরিবার ক্ষতিগ্রস্ত হচ্ছে তাদের পুনর্বাসন কার্যক্রম বাস্তবায়নে বন্যা ও সাইক্লোন বিবেচনায় নিতে হবে।
২৪. বেসরকারি অর্থনৈতিক অঞ্চলের শিল্প প্রতিষ্ঠানসমূহ রাজস্ব ফাঁকি দিচ্ছে কিনা তা দেখার জন্য বেজা প্রয়োজনীয় ব্যবস্থা গ্রহণ করবে। সরকারের রাজস্ব আহরণে কোনো নেতিবাচক প্রভাব যেন না পড়ে সে বিষয়ে সকলকে সচেতন থাকতে হবে। বেসরকারি খাতে যে সকল স্থানে বেসরকারি অর্থনৈতিক অঞ্চল গড়ে তোলা হয়েছে সে সকল স্থানে পূর্বে প্রতিষ্ঠিত শিল্প কল-কারখানা পূর্বের ন্যায় কর পরিশোধ করবে। অর্থনৈতিক অঞ্চলের কর সুবিধা কার্যকর হবে না।
২৫. দেশের মানুষের খাদ্য চাহিদা ও নিরাপত্তা বিবেচনায় কৃষি অধি সংরক্ষণ করতে হবে।
২৬. অর্থনৈতিক অঞ্চল ছাড়া যেখানে সেখানে অপরিরুদ্ধিতভাবে শিল্প স্থাপন নিরুৎসাহিত করার লক্ষ্যে বিদ্যুৎ ও গ্যাসসহ অন্যান্য পরিষেবা প্রদান প্রক্রিয়া পর্যায়ক্রমে বন্ধ করতে হবে। শিল্প উদ্যোক্তাগণকে অর্থনৈতিক অঞ্চলে শিল্প স্থাপনসহ বিনিয়োগের পরামর্শ প্রদান করতে হবে। এ বিষয়ে এখন থেকেই কাজ শুরু করতে হবে এবং সকলকে অবহিত করতে হবে।
২৭. শিল্পের জন্য বরাদ্দকৃত জমি ফেলে রাখা যাবে না। অর্থনৈতিক অঞ্চলে যে সকল বিনিয়োগকারী জমি বরাদ্দ নিয়েছেন তা টিকমত শিল্পে ব্যবহার হচ্ছে কিনা বিষয়টি মনিটরিং এর জন্য প্রধানমন্ত্রীর কার্যালয়ের প্রতিনিধিসহ একটি কমিটি গঠন করতে হবে। এই কমিটি অর্থনৈতিক অঞ্চলসমূহের জমির যথাযথ ব্যবহার নিশ্চিত করতে নিয়মিত মনিটরিং করে প্রতিবেদন দাখিল করবে।

অতঃপর সকলকে ধন্যবাদ জানিয়ে সভাপতি কর্তৃক সভার সমাপ্তি ঘোষণা করা হয়।

স্বাক্ষরিত/-

৬/১২/২০১৯

( শেখ হাসিনা )

প্রধানমন্ত্রী

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

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সভাপতি

গভর্নিং বোর্ড, বাংলাদেশ অর্থনৈতিক অঞ্চল কর্তৃপক্ষ

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Director

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*[Signature]*

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গভর্নিং বোর্ড  
বাংলাদেশ অর্থনৈতিক অঞ্চল কর্তৃপক্ষ  
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BANGLADESH  
ECONOMIC ZONES  
AUTHORITY



THE WORLD BANK  
1818 H Street, N.W.  
Washington, D.C. 20561

Government of the People's Republic of Bangladesh  
Prime Ministers' Office

## BANGLADESH ECONOMIC ZONES AUTHORITY (BEZA)

Monem Business District (Level-12),  
111, Bir Uttam C.R. Datta Road, Dhaka-1205, Bangladesh

Project Name: Support to Capacity Building of  
Bangladesh Economic Zones Authority Project  
(under Private Sector Development Support Project)

IUA Credit No. 5769-BD (Additional Finance)

# PART IV DRAFT REPORT

Bangabandhu Sheikh Mujib Shilpa Nagar  
Master Plan

45 June, 2020

Submitted by:

**S R SHELTECH**  
P L CONSULTANTS (PVT) LTD.

Sheltech Consultants (Pvt.) Ltd.

In Joint Venture (JV) with



STUP Consultants Pvt. Ltd.  
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## Executive Summary

The Fourth Report of BSMSN Master Plan Project is all about planning and is the last draft report of the project. The plan is based on the studies and exercises conducted during the project as incorporated in the preceding reports. The report aims to attain the following objectives:

- Set out a land use plan for the project site.
- Work out zoning regulations.
- Phase out plan implementation.
- Prepare a set of Urban Design guidelines.
- Prepare on and Offsite infrastructure.
- Make recommendations for a Sustainable Industrial City.

The BSMSN site is located 200 kilometers (km) from Dhaka, 60 km from Chattogram, 70 km from Chattogram Port and the Shah Amanat International Airport and 330 km from Sylhet. It is situated in the following districts, upazilas, and unions and is comprised of 26 mouzas.

BSMSN has a total land area of 30,173.6 acres or 122.11 square kilometers (km<sup>2</sup>) (mostly reclaimed land) with a 25 km coastline along the Sandeep Channel in the Bay of Bengal. (Figure 1.2) The land elevation on the site varies from the site's lowest point at -3.33meters (m) MSL to the highest point at +8.71m MSL.

Before development of the BSMSN, the site was comprised of: i) 27.6% idle/barren lands, ii) 31.65% mangroves/forest/vegetation, iii) 8.71% water bodies/canals and iv) 6.53% under development. The site location is a moderate to high monsoon climatic area with an average annual rainfall of 500mm. The average temperature on the site varies between 15-25 degrees Celsius annually.

The BSMSN Planning Regime is a policy framework, which directs and manages the planning, design, and implementation of the BSMSN zone in the short, medium and long-term. This Planning Regime sets out: i) a vision, ii) value proposition and iii) structure plan for the BSMSN region as well as for the specific BSMSN site. It also provides: i) planning principles; ii) guiding policies; iii) a master plan with accompanying land use/zoning/precinct and transport maps; and iv) development guidelines to help shape the urban/industrial economic, environmental, social, and natural environment of the economic zone. Lastly, the Regime outlines the appropriate green technology and environmental and resilience measures, which need to be introduced into the BSMSN Master Plan to make the zone sustainable from natural disasters and climate change.

Beyond being a statement of intent and direction, the BSMSN Planning Regime and Master Plan is a legal document, defined under the Bangladesh Economic Zone Act 2010 and its implementing regulations. This report lays out the basis for the planning and design of BSMSN and the necessary development requirements for the approval of future development applications; lastly, planning stage covers such plans as: structure plan, land use plan, infrastructure and utility services plan.

For planning and development of BSMSN "Eco-efficient and Sustainable Urban Infrastructure approach- An Initiative for Green Economic Growth" concept has been adopted which will help Bangladesh to achieve the United Nations' Agenda 2030, with its Sustainable Development Goals (SDGs).

The precinct plan is a broad scale policy level land use plan that divides the BSMSN area into eleven suitable precincts (A to K). Each precinct will have specific or restricted land use. The development of the BSMSN will follow the policy guideline of these precincts.

১৯ শে মার্চ, ২০১৬

নাসরুল হক  
মন্ত্রিপরিষদ  
সচিব (সহ-সচিব)

১৯ শে মার্চ, ২০১৬  
নাসরুল হক  
মন্ত্রিপরিষদ  
সচিব (সহ-সচিব)

Prime Minister's  
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১৯ শে মার্চ, ২০১৬  
নাসরুল হক  
মন্ত্রিপরিষদ  
সচিব (সহ-সচিব)

Table: Distribution of the Area for the Precinct Plan of BSMSN

Precinct	Name	Size (in Acres)	%
A	Residential, Retail, Institutional	5266.15	16%
B	City Center	1779.84	5%
C	University, Health Center	814.30	2%
D	Residential Area	2020.39	6%
E	Administrative, Institutional	874.08	3%
F	Light, Medium Industrial Area	10092.72	30%
G	Port, Logistic Area	1798.28	5%
H	Conservation/Transitional Area	1760.45	5%
I	Heavy Industrial Area	3956.35	12%
J	Green Area/Open Space	5052.38	15%
K	Leisure /Entertainment	350.89	1%

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Land use designations for BSMSN are used to: i) guide short, medium and long-term development; ii) strengthen the vision and value proposition for the zone; iii) organize the activities within the site; iv) ensure/promote compatibility between land uses and sectors; v) limit adjacency and environmental issues/conflicts; vi) protect land values; and vii) promote economic growth.

The land-use plan is designed to guide the future actions of any area. It presents a vision for the future, with long-range goals and objectives for all activities that affect the local area development. Analyzing existing land use conditions, the consultant has listed 10 categories of land uses in the project area. Some of the land use areas are very small in area. At present total 8326.78 acres (27.6%) of land have been found lying idle. Mangrove vegetation (31.65 %) covers a large part. This manmade mangrove vegetation was created in western side of the old embankment to protect the area from tidal surge. There is no well-defined residential area within the site. Water body covers 2627.85 acres (8.71% of total area). Development in Project area has been initiated in collaboration with different government agencies. At present 1968.84 acres of land (6.53%) is under development in the Bangabandhu Sheikh Mujib Shilpanagar area. Proposed land use of BSMSN area is described below:

Residential land use of Precinct A includes the R1 and RS1 parcels. Here, R1 parcels denotes eco-friendly residential neighborhoods; incorporating lush landscaping and natural water features. To support the residents of the neighborhoods, health clinics, primary and secondary schools, shopping, convenient retail, and entertainment/leisure areas will be strategically located in the precinct to support daily living. RS1 is a resettlement zone for the Sonagazi portion, is located in the north east corner of precinct A.

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Land use of the Precinct B is Commercial/Retail/Services act as the central business district of BSMSN. This city center covers 5.3% of the total area of the BSMSN. It incorporates CCI parcels, is the city centre of BSMSN.

Land use of the precinct C is health and education and it contains the EH1 parcels. The main health and educational facilities of BSMSN will be established here. And it is expected, these facilities should maintain world class standards. It covers 2.4% of total land of BSMSN.

Land use of the precinct D is mixed use. It incorporates the parcels R2. It is mainly a residential area comprised of modern international level apartment buildings with at grade retail/restaurants. It covers 5.4% of the total land use of the BSMSN.

Precinct E is the institutional/administrative area of the BSMSN area. It is located adjacent to the main entryway to the city centre of BSMSN. It will contain government and BEZA office buildings; as well as the support and service facilities for this industrial city. It covers 2.6% of the total land of BSMSN and will have contains the A1 parcels only.

Land use of the precinct F is light/ medium industrial enterprises. It is the largest land use zone of the BSMSN covering about 29.9% of the total area of BSMSN. The parcels LM1, LM2A, LM2B, LM3, LM4, LM5, LM6, LM7, LM8, LM9, LM10, LM11, LM12, LM13, LM14, LM15, LM16, LM17, LM18, LM20, LM21 and CH1 are included in this land use category. A large portion of the area is already allotted to different investors.

Land use of the precinct G is the port and logistics for the BSMSN area. It will be treated as multimodal transport platform for supporting the BSMSN and connect the city with different cities of the country. It covers 5.3% of total area of BSMSN. The parcels PL1, PL2/LM22 and PL1 are included in this land use category area.

Precinct H, is currently a forest conservation area; where no development is permitted in accordance with the forest department requirements. If permitted/ in future, this area could be designated for port/logistics or heavy industries activities depending upon demand.

Land use of the precinct I is the Heavy industry. It has land coverage of 11.7% of the total land of BSMSN. Parcels H1, H2, H3, H4, H5, H6, H7, H8, H9, H10 and H11 will be applied in this land use category. The heavy industries incorporate the industries which trend to create higher pollution, consume greater amounts of energy and require greater utility systems to mitigate their waste and water.

Land use of the Precinct J is open space/leisure/entertainment. The precinct is the area between super dyke and the Sandwip Channel, which has been reserved for forest, mangroves and a variety of open spaces for investors, residents and visitors to BSMSN to enjoy. Along with the mangrove forest area it includes the CFI parcels. Open space covers 17.2% of the total land of the BSMSN.

Land use of the Precinct K is leisure and entertainment. Parcel LE1 is located in this land use category and it covers 1% of the total land use of BSMSN area.

Total 3075 acres have been delineated as waterbody. It includes all the existing river, canals, Sheikh Hasina Sarobar and other water body located within the BSMSN area. Considering the drainage system, the existing canal will be realigned, widened, lined planted and also develop some water features which will act as water/rain water reservoir, support for the solar panel and increased the aesthetic value which will ultimately increase the land value of BSMSN.

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Because all the land within BSMSN has not yet been acquired and some lands have been allocated to investors, it is more complicated to accurately phase the site according to best practices

Considering the above facts, the Master Plan Area has been divided in three phases. The entire is expected to be developed in 17 years starting from 2018. The consultant divides the execution period in three phases as follows:

- Phase I 7 Years: 2019-2025
- Phase II 5 Years: 2026- 2030
- Phase III 5 Years: 2031- 2040.

It is expected that the entire would be completed in 2035. Phase I development will be completed by 2025 (7 years) and subsequent phases will take five years each to reach full shape of BSMSN. However, care has been taken to include some basic infrastructure facilities in Phase I itself.

Most of the urban design guidelines have been incorporated in the Bangladesh Economic Zones (Construction of Building) Rules, 2017, prepared under Section 38 of the Bangladesh Economic Zones Act, 2010. However, consultant has added some additional recommendations that are felt necessary for proper development and functioning of the industrial city.

Guidelines which have been incorporated from Bangladesh Economic Zones (Construction of Building) Rules, 2017, are: zoning, open space, other amenities, green space, plot size, building orientation, access to the site, road network, firefighting, fire appliances access requirements, floor area ratio (far), site coverage, setback, community open space for industrial plots, loading and service area, external service and storage area, fencing, car parking and traffic management, planning of roadway and parking, street furniture, landscaping, energy management, rain water harvesting, applicability of Bangladesh National Building Code (BNBC). Additional guidelines recommended by the consultant are: iconic tower and landmark water conservation, waterfront treatment, legibility, streetscape, building façade, sidewalk/footpath, utility lines, signage.

For proper implementation of the master plan, the pre-requisite is- BSMSN master plan is a high-level detail which needs to be periodically updated progressively at least once a year by relevant professionals along with the phase wise development of all the on-site/off-site infrastructures of BSMSN and it also needs to be incorporated in the regional master plan of the country in order to keep the regional integrity of the development as well as to ensure that it is followed in the future.

The consultant made a comprehensive review and recommendations about all transport infrastructure including road, railway and waterway after methodical analysis of the existing conditions. They also recommended about power, gas and water supply required by the BSMSN for its industries and the establishments including the inhabitants of the area, and drainage and sewerage infrastructure to handle the storm water and the waste water generated by the industrial city.

The off-site road network of BSMSN comprises of three regional roads and a few access roads connected to the regional roads. The access roads connecting BSMSN will play a vital role for smooth movement of passenger and goods traffic into and out of BSMSN.

The major roads of RIID around BSMSN are,

- Dhaka - Chittogram Highway (N11).
- Feni - Sonagazi Road and;
- Sonagazi - Uliamabazar - (connecting Moshah and eastern parts);



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TRAFFIC ASSIGNMENT

The traffic assignment is done considering the impact on radial roads (Dhaka-Chattoogram Road and Feni Sonagazi Road). It may be noted that the total employment (direct and indirect) after full development of the study area would be to the tune of around 1.4 million which may take 20 years for implementation. It is expected that by 2025, 11% development (Based on employment estimation) will be made. Considering the aggressive case scenario (nearly 10% more than base case) and 15% reduction of traffic with better connectivity by new links, rail and IWT, in 2025 nearly 2,800 PCU is to be catered by Dhaka-Chattoogram Road in one direction and 600 PCU by Feni-Sonagazi Road in one direction. By 2040 the figures will be around 9,000 PCU and 3,200 PCU respectively.

On access roads the traffic load during worker peak hours would be much higher than the freight peak hour. With aggressive case, the amount of traffic on access roads connecting Dhaka-Chattoogram Highway during worker peak hour would be 1,964 PCU, 6,632 PCU, 11,843 PCU and 16,041 PCU in 2025, 2030, 2035 and 2040 respectively. Towards northern side connecting Feni-Sonagazi Road, the figures will be 993 PCU, 3,358 PCU, 6,248 PCU and 8,462 PCU respectively for the above-mentioned years.

Freight traffic generation (production and attraction) would be 8 truck trips per hectare area of firm. Considering industrial land use as 54% (nearly 6,520 hectares) the freight traffic generation and attraction would be to the tune of 53,000 truck trips / day by 2040. Considering 50% for articulated trucks, 40% for rigid two/three axle trucks and 10% for delivery vans, and also adding additional 15% trips for other land uses, the PCU figure works out to be 108,105 PCU/day by 2040 (12,248 PCU in 2025 + 42,553 PCU in 2030 + 79,816 PCU in 2035). It may be noted that 15% is loaded for other land uses like commercial, warehousing, services etc. Considering the above and 6% peak hour traffic, the one-way freight traffic works out to be 735 PCU / hour in 2025, 2,553 PCU / hour in 2030, 4,789 PCU in 2035 and 6,486 PCU / hour in 2040.

Considering the traffic, the four-lane Dhaka-Chattoogram Highway touches the maximum capacity even in 2020 (keeping in mind the technological developments) when the level of service will be very low and there will be requirement for capacity augmentation. The capacity of access roads (East West) connecting Dhaka-Chattoogram Road is to be augmented to cater to the traffic load in future. For Feni-Sonagazi Road, two-lane road is not adequate even till 2030 which require to be widened to 4-lane by 2030 along with additional new links to share the traffic load. To cater to the traffic the access roads connecting Dhaka-Chattoogram Highway will be quite inadequate even in 2025. Freight traffic will mainly move along Sheikh Hasina Sarani, but to avoid congestion on this road, Beri Bundh Road is required to be extended and connected to Port Link Road. On the northern side, traffic will be mainly catered by Sheikh Hasina North Road (Bhangsi Road), Sonagazi Bypass and other roads which will have adequate capacity till 2040. Except Sonagazi Bypass these roads will meet Sonagazi- Muburi Project Road, where capacity is to be augmented. The existing railway line which is running almost parallel to Dhaka Chattoogram Road will not provide a direct connectivity to BSMISN. For economic and efficient movement of goods and passenger, it is required to be extended to the project area.

Field surveys have identified 90.23 km roads within the BSMISN area and about 86.5% of the total road network is earthen. The eastern side of BSMISN area is more or less bounded by existing Beri Bundh Road (Sheikh Hasina Avenue -North and South). At the western end already a Super Dyke is under construction. Roads within BSMISN have been classified in accordance with their functions in the urban transport network, which is based on the hierarchy of roads. For the current planning purpose, the roads are classified as:



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**Arterial Roads (100m-60m ROW)** – For through traffic on a continuous route/Used to maintain traffic flows. Incorporates carriageways, landscaped traffic medians and lighting, dedicated public transit lanes, light rail, cycle lanes, wide, tree-lined sidewalks and utility corridors. These are the central spines of BSMSN Sub Arterial Roads (40m-30m ROW) – For collection and distribution of traffic connecting to the arterial road network. Incorporates carriageways, landscaped traffic medians and lighting, cycle lanes, tree-lined sidewalks and utility corridors.

**Local Streets (20m ROW)** – For direct access to investment projects or within Precincts A-F and K. Incorporates carriageways, cycle lanes, tree-lined sidewalks and utility corridors.

**A Bridge** – A bridge will be required to connect Precincts A with Precinct B and the remainder of BSMSN. It will be constructed over the Feni River.

**Emergency Roads (80m ROW)** – For emergency situations only in order to move traffic quickly through or out of BSMSN. Incorporates carriageways, landscaped road edges and utility corridors.

**Light/Mass Transit Routes** - In the long-term, a road or mass transit option should be constructed along the waterfront from BSMSN to Chattogram to support the city, its port and airport. The ROW has been planned within the BSMSN Master Plan and must be respected. In the interim, this route may act as open space for BSMSN and its population.

**Access Roads into BSMSN (varying ROWs)** – A number of off-site roads have been planned in the BSMSN Master Plan in order to access the zone from a number of locations. This is strategically done to: i) optimize the modal split ii) minimize congestion and iii) permit access to various Precincts within BSMSN. Each off-site road is to be constructed in parallel with the development of the Precinct, the road supports. The following are the proposed off-site roads leading into BSMSN: i) Feni Sonagazi Road, ii) Sonagazi- Muhuri Road, iii) Muhuri Road, iv) Bamonsundar Road, v) Sheikh Hasina Saroni, and vi) Barodarogharat to Mohanagar Roa

\$867.11 million has been estimated to establish the proposed transportation network.

Transport system from outside will be comprised of rail, standard bus, mini bus, auto rickshaws. These modes will use the hubs east of Beri Bandh Road in close proximity to the railway stations. A part of these standard buses will enter the industrial city and use different internal hubs.

With the port proposed in the southern portion of BSMSN and new access road connecting port from Dhaka-Chattogram Highway (nearly 3 Km south of Sheikh Hasina Saroni), the best option would be that the railway line runs parallel to the new port link road. Before entering port, northwards and southwards extensions will connect logistic hub and the BSMSN city core towards north and heavy industry area. The proposed port in BSMSN and the Bay Container Terminal coming up near Chattogram will definitely reduce the pressure on the Chattogram port and the associated infrastructure facilities. The proposed port in BSMSN with limited navigability (draft of 6.5m) is to be made effective and efficient (interaction between ports, rail and road links) by raising draft to 9.5 m to allow at least sea going ships of 30,000 t capacity.

A major threat to BSMSN site is the tidal surge from the Bay of Bengal and the tropical cyclone. An 18-40 km and 9m high (above MSL) super dike is under construction along the sea side of the project area to protect the project site from possible tidal surge. There will be seven sluice gates to control water into the project area canals. BWDG is constructing the dike in association with Bangladesh Navy.

The cross-section design of various road types in BSMSN is based on Geometric Design Standards of RHD, guidelines of Indian Roads Congress, international practices, functional characteristics of the area and space requirements for various services. It is expected that the traffic within BSMSN can be easily controlled by at-grade intersections. However, for any future need of grade separation at major intersections, adequate ROW has been reserved. The intersections types will be 3-arm / 4-arm / rotary.

The most crucial intersections will be on Dhaka Chattogram Road where a very significant amount of turning movement will occur. Dhaka Chattogram Road is already experiencing heavy traffic movement with high share of heavy commercial vehicles, that are likely to increase continuously with development of BSMSN and its influence area. In that case at-grade intersections will not be efficient. The major roads connecting Dhaka Chattogram Road, where significant goods traffic movement will occur are Sheikh Hasina



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বিভাগ (১৯৬-শাহে জাং ও হাটিকা)

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Executive Summary

Serani, Port Link Road. Both these intersections are three arm intersections and for grade separation, trumpet interchange has been proposed at these locations

Proposed Water Supply Schemes

Preliminary unit rate of water demand for BSMSN, in absence of its detailed land use plan, has been assessed based on yearly water consumption pattern of eight EPZs of BEPZA. Unit rate of water demand of 162 m<sup>3</sup>/day/ha (0.066 MLD/acre) of operating industrial land is considered based on the reviews of BEPZA data.

The unit water demand for various categories of residential and non-residential usages proposed to be adopted to arrive at the net water demand are summarized below:

- Residential: 150 litres / capita / day
- Non-domestic usage in different industries: 45 litres / head / day
- Water demand for other miscellaneous usage: 5% of non-domestic demand

The estimated phase-wise net and gross water requirement to meet the water demand for BSMSN area is 1050 MLD in 2040 and it is 1450 MLD in 2040 which includes zone of influence area.

Major components of the water supply system for the BSMSN area shall essentially include: raw water drawl arrangement, off-channel reservoir for storage of water (raw water storage basin) (optional), raw water pumping station, raw water transmission main, water treatment plant treated water storage reservoir, treated water pumping station including intermediate booster pumping stations (if required), treated water transmission main, elevated storage reservoir, distribution network from elevated storage reservoir upto consumer end, production well, pumping arrangement from production wells.

The water treatment technology to be used is proposed to be consisting of the unit processes viz. coagulation, flocculation, clarification, filtration and desalination followed by disinfection.

To have a more or less even distribution of flow as per requirement at requisite pressure, the entire area of BSMSN has been divided into 29 nos. of independent water supply zones, each being served with individual distribution system pumping station (DSPS). Altogether 6 nos. of WTPs have been conceived at this stage to meet the water demand within BSMSN area. In addition, provision of construction of another water treatment plant is suggested exclusively to meet the water demand of the zone of influence area.

To encourage ground water recharging and to attenuate the flow rate through the drainage channels, a number of water bodies have been proposed to be established for the entire BSMSN area. This, in addition, will have the advantage of storage of water to meet the demand, in case of exigency. All the existing natural drainage channels passing through BSMSN area and carrying storm runoff generated from area outside BSMSN area shall be retained. Storm water drainage network has to be introduced, in general along either side of the proposed road network of the area to collect the storm runoff generated from the catchment and get it discharged to the drainage channel for ultimate disposal to the sea.

Considering tidal influence to the drainage outlets, controlling arrangements might need to be introduced into the system at or near storm water drainage outlets to prevent backflow of water during high tide or high stage of water in the receiving drainage channels during tidal lockage period. Sluice gate, weir gate and flap gates are the possible controlling device to prevent the backflow.

The area ear-marked for BSMSN, is a naturally reclaimed land from sea, sloping from north-east to south-west. Storm runoff generated from the entire area in between the hill located north-east of the project area and the sea gets drained to the sea through a number of natural drainage channels passing through the BSMSN area viz. Ichhakhali Khal, Gammansundar Khal, Shaher Khali Khal etc.

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The entire quantum of liquid waste (biological waste and/ or industrial waste, as the case may be) likely to be generated from BSMSN area shall be catered to two sewage treatment plants (STPs) and two common effluent treatment plants (CETPs) aided by intermediate pumping stations. The prime purpose of providing the intermediate pumping stations is to restrict the depth of the sewers and also to facilitate crossing of the different natural drainage channels passing through BSMSN area. Strategically the pumping stations shall be located in proximity to natural drainage channels to minimize the lengths of pumping mains. It is proposed to cross the different drainage channels over pipe supporting structures. In addition, terminal pumping stations need to be provided at location of all the treatment plants (STPs/ CETPs).

As per the proposed landuse planning, Precincts A, B, C, D, E & K are likely to produce predominantly biological liquid waste i.e. content of hazardous liquid wastes is insignificant. Precincts F and I are earmarked for industrial use (light, medium & heavy). Precinct G is earmarked for port and logistics. Such areas are likely to produce industrial liquid wastes, with varied degree of toxicity. In addition, such areas are likely to produce biological liquid waste also (generated from residential population accommodated within the zone). The pipe material suggested to be used (uPVC/ GRP) are resistant to corrosion and same pipeline may be used to cater the all types of flow generated from the industrial areas. The design period for sewerage schemes are planned to meet the requirements upto project horizon of 2040. The proposed development works for sewerage system shall be in conformity to phased development planning. The different components of the systems shall be sized and designed considering the following life cycles:

To establish the proposed water supply system \$3168.22 million has been estimated which will be implemented within the phasing of implementation 2019 to 2040.

\$2788.82 million has been estimated to implement proposed sewerage system in the BSMSN which will also be implemented throughout the phasing of implementation from 2019 to 2040.

Another \$1526.56 million has been estimated to implement the proposed Storm Water Drainage System.

584.9 MMSCFD gas has been demanded for around 1200 customers of several gas service line based on their requirement to operate the industry with a costing of around \$185.14 million.

For planning and development of BSMSN "Eco-efficient and Sustainable Urban Infrastructure approach- An Initiative for Green Economic Growth" concept has been adopted which will help Bangladesh to achieve the United Nations' Agenda 2030, with its Sustainable Development Goals (SDGs).

Two types of Waste will be generated from both industrial as well as non-industrial area - Solid waste and Liquid waste. Municipal solid waste (MSW) will be generated from household activities, commercial activities, institutions and from health care units. Industrial solid waste (ISW) will be generated from industries.

Waste Management Plan for the industrial city has been prepared based on the relevant acts, laws, rules, circular, guidelines and document related to Bangladesh and international practices.

Municipal solid waste (MSW) is comprised of a number of solid waste streams: residential solid waste, commercial solid waste, bio-medical wastes, bio-solids, construction and demolition, debris etc. It has also been estimated that Area required for only MSW land fill will be 165 Acres and total land requirement considering other facilities like composting plant, different infrastructure, area for biomedical waste and separate area for hazardous waste storage and management will be about 274 acres. If the industrial city authorities (BSZA) adopt 3R / 4R / 5R strategy and global trend in developed countries as reported by EPA the land demand for Land fill will be reduced to 52% i.e 142.5 Acres.



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Government of Bangladesh has developed very useful guidelines, laws, acts, regulations considering different situations and problems. Sometime these have been implemented and some are not and need further amendments and modifications considering present situation. 'We dump – They collect' is the general attitude that had been cultivated among the residents, institutions as well as industries by this approach Industrial city authority (BEZA) will prepare an Integrated Solid Waste Management Plan (ISWM) for the proposed industrial city based on existing Laws, acts, regulations circular and guidelines

A two-tier approach should be thought of for waste management, e.g. (a) prevention & (b) control of environmental pollution. Prevention aims at minimization of industrial wastes at source, while the latter stresses on treatment and disposal of wastes

As stated in Bangladesh, Management of Industrial Solid Waste (ISW) is not the responsibility of local bodies (Corporation / Municipalities / Union parishad). Industries generating solid waste have to manage such waste by themselves and are required to seek approval from Department of Environment (DOE) under relevant rules and if it is within an Economic zone then from DOE as well as from Industrial authority.

Policies to be adopted in BSMSN regarding waste management are Define Waste as a Resource, Adoption of National 3R Policy, Integrated Waste Management Plan, Compliance of International treaties have reduced hazardous waste (Basel Convention), Source Separation of Waste, Selection of Appropriate and Affordable Technology, Adoption of CDM technology, Promote Cleaner Production, Adopt industrial metabolism concept, Industrial Symbiosis and By-Product Exchange, Promote Green Purchasing, Compliance with Global issues.

Sustainable industrial estates help mitigate climate change by reducing urban expansion pressures and by integrating low-impact infrastructure standards that can reduce long-run costs of infrastructure provision.

Based on Guidelines for Sustainable Industrial Areas (SIA) Version 1.0 & clear development concept of GIZ (2015), master planning needs to comprise the following features: integration of industrial area in surrounding infrastructure, efficient land use, infrastructure provision and transport system, energy generation and distribution, water and wastewater management, waste management, disaster risk management, social infrastructure, promotion of biodiversity.

Existing land use of the project area (BSMSN) indicate the fact that about 9550 acres of plantation existing within the premises of the said industrial city which will be impacted (lost) due to development of the city. It was suggested that BEZA can take initiative for plantation along the roads and reclaimed lands of the islands which are government land Already in master plan, 6818 acres of land has been earmarked as green area (Precinct) &H)

Considering average daily demand as 550 MLD for year 2040, total volume of water to be stored in the off-channel reservoir to meet 5 months water demand works out to about 82.5 million cum. The land area requirement to store this much quantum of water seems to be abnormally high and prohibitive to implement. Consultants have come out with a possible solution to overcome this problem with introduction of coastal reservoir for the purpose of storage of fresh water catered by Feni River which is getting discharged to the sea. Altogether 7 nos. off-channel reservoirs have been planned for Ichakhali khal system to draw water from Feni River and 2 nos. for Bamon Sundar khal to draw water from Mahamya Dam.

It has been estimated in master plan that potential areas for artificial Rain water harvesting is about 18,756 acres. Amount of rain water to be harvested annually is estimated as 67,278 million liters which is equivalent about 184 MLD which can be stored. Out of total amount 40% will be collected from residential and industrial roof tops and 60% of rain fall from May to October can be collected. In addition to above 150 acres artificial lake (Sheikh Hasina Sarobar) has been proposed which will act as a rain water harvesting structure. Most the canals which will act as drainage channel has been modified which will also store water and will act as rain water harvesting structures.

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Environmental Policy

It has been estimated that total amount of Industrial Solid Waste to be generated from the proposed industrial city in the year 2040 will be 288925 tons out which 250751 tons will be non-hazardous Industrial Waste and 38174 tons will be of Hazardous in nature. It indicates the fact that 86.78% of the waste will be of non-hazardous in nature and 13.22 % of the waste will be of Hazardous in nature of which 68% of the waste is of recyclable and 32% is non-recyclable in nature.

- A 150 MW solar power plant has been proposed in Master Plan
- Solar lighting (renewable source of energy) should be made mandatory for street lighting / solar boundary lighting of the housing complexes and Educational institutes within the precincts.
- For energy conservation use of energy efficient lights / high efficiency light systems (e.g. T5-Tri phosphor Fluorescent, LED) should be mandatory within the BSMSN premises
- Green building code should be applied for large educational buildings and hotels

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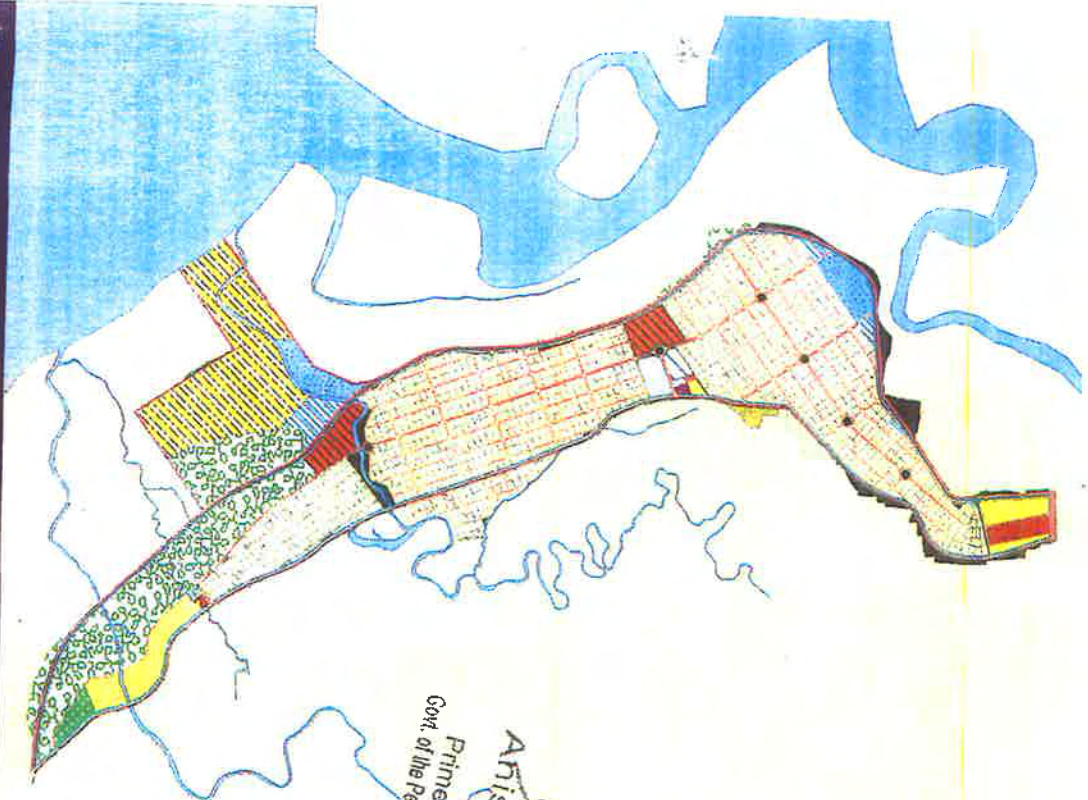
Government of the People's Republic of Bangladesh  
Prime Minister's Office  
Bangladesh Economic Zones Authority (BEZA)

Appendix XX



# Feasibility Study for MIRERSHORAI ECONOMIC ZONE

JULY, 2014



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FEASIBILITY STUDIES FOR ECONOMIC ZONES  
SUPPORT TO CAPACITY BUILDING OF  
BANGLADESH ECONOMIC ZONES AUTHORITY PROJECT  
UNDER PRIVATE SECTOR DEVELOPMENT SUPPORT PROJECT

Supported By the World Bank  
Implemented By Bangladesh Economic Zones Authority (BEZA)  
Under Office of Prime Minister, GOB.

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Consultants



MAXWELL  
STAMP LTD.



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### Executive Summary

1. The proposed Miressthorai Economic Zone (EZ) will be the first multi-sector EZ in the country, with an existing area of 6,615.12 acres (2,678.19 hectare)s, and it is also proposed that an additional area of 580.18 acres (233.64 hectare)s of land to be reclaimed from the sea. The total Project area thus would stand at 7,195.30 acres (2,911.83 hectare)s. The proposed Miressthorai EZ has the potential to fulfill the conditions which are necessary to become a successful economic zone in the country. Formal establishment of the EZ is expected to immediately address the huge demand for industrial plots among both the local and foreign investment communities.

#### Site Justification

2. Field investigations reveal that, the proposed Miressthorai EZ area is one of the most suitable large tracts in the country, owing to its strategic location, being the gateway to the Bay of Bengal, its strategic location, it has the potential to contribute to the economic development of the country by attracting Foreign Direct Investment (FDI) and Domestic Investment (DI).

#### Location and Present Conditions

3. The proposed Miressthorai EZ site is located at the end of the eastern side of the Bay of Bengal, surrounded by the coast and Miressthorai Town. It is only 10 Km west of the national Highway (Dhaka-Chittagong Highway) and 11.5 Km west of the nearby Railway Station, with Chittagong City 60 Km south of this location. The Shah Amanat International Airport at Chittagong is located south of the site at a distance of 79 Km, and, the seaport is 67 Km south of the site. Azampur Bazar, the nearest market, is only 2 Km north from the site.

4. Present on-site land use consists of fish ponds or open fields without much economic activity. The current on-site infrastructure conditions are:

- i) No power line
- ii) Only mobile telephone and no fixed lines
- iii) No gas supply
- iv) Two narrow access roads to extreme corners of the site
- v) No piped water comes to the site, and, the surface water in the adjacent Feni River is saline.

#### Study Findings

5. The results from competitive evaluation have been sourced from aggregating seventeen (out of more than fifty) largely quantitative indicators on which information have been collected. Aggregated variables include price, capacity, and zone size variables, which have been appropriately standardized.

6. The proposed Miressthorai EZ gets the highest billing according to the evaluation exercise. Second, third and fourth billing go to the Vietnam – Singapore Industrial Park (VSIP), Amata City Bien Hoa Industrial park, Vietnam and Phnom Penh Special Economic Zone (PPSEZ) in that order. The ranking was found to be robust to alternative specifications of the aggregation scheme.

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**Potential Industries for Mirsitorai EZ**

7. Selection of industries of the proposed Mirsitorai EZ has been made on the basis of the demand of industries for fully serviced industrial plots, position of sectors in their life cycle, and intent for expansion for greater market share.

Particulars	2017-2019		2021-2023		2024-2026	
	Expansion of Existing Industries	01. Garments & Garment Supporting Industries 02. Integrated Textiles 03. Motorbike Assembly 04. Food & Beverage 05. Paint & Chemical 06. Paper & Products 07. Plastics	To continue	To continue	To continue from the previous period plus: 1. Automobile Assembly	
Establishment of New Industries	01. Automobile Parts 02. Other Parts & Machinery	To continue				
Supporting Facilities	01. Coal-fired Power Plant 600MW 02. Coal Handling Jetty with stockyard					

8. A demand survey was conducted on 107 industries. In that survey 39 industries indicated interest in investing in the zone. The total demand is found to be 445 hectares. The study team's demand survey cannot be expected to cover the total supply of land of a large size EZ like Mirsitorai. The survey was carried out as a sample of the total demand of the industries at that point in time. Development works are to be based on the demand for land which is expected to grow gradually with the passage of time. Survey results indicate that the various types of industries starting from garment manufacturing to motor cycle assembly showed interest in investing in Mirsitorai EZ.

9. The following table shows a summary of the proposed industry mix for Mirsitorai EZ.

Sector	Area per investment (ha)	Number of investors	2016-2030	
			Total areas for investment (ha)	
Coal-fired power plant/Jetty	290	1		290
Garment	1	100		100
Garment accessories	1	42		42
Integrated textile	4	25		100
Motorcycle assembly	10	2		20
Automobile assembly	150	1		150
Automotive parts	2	252		504
Other parts and machinery	2	115		230
Chemical & Other Products	2	28		56
Food & Beverage	4	14		56
Rental Factory Zone				10
Commercial Area				20
Residential				68
Warehouse				18
Others (Medical College, Training Center, etc.)				41
<b>Total</b>		<b>580</b>		<b>1,705</b>

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**Employment Estimate for Mireshorai Economic Zone**

10. It is expected that 101,000 jobs will be created by garments and supporting industries using 142 hectares (351 acres) of land. It is also expected that the integrated textile sector will employ about 40,000 workers with 100 hectares (247 acres) of land, while automobile and motorbike assembly, auto parts and other parts, and machinery, food & beverage, paint & chemical, paper products and plastic product industries are expected to employ 308,896 workers using total area of 1,017 hectares (2,511 acres). Apart from these, employment in the rental factories, service sector, coal-fired power plant, residential and commercial area is expected to be about 26,782. As such, 476,678 new jobs are expected to be directly created by this EZ. Additional 238,339 indirect employments (normally 50% of the direct employment) are likely to be created by the EZ. The total employment of direct and indirect employments may reach 715,017 workers after 7-10 years. Probably the Mireshorai area will be a new industrial city of over 1.0 million including the existing population when the EZ will be fully occupied and the industrial city became matured after 20-30 years later.


**Master Plan and Phasing**

11. Of the total 6,615.12 acres (2,678.19 hectares) existing land area, 2,944.06 acres (1,191.93 hectares) is privately owned and hence needs to be acquired before the initiation of any development works on the EZ. The land is of lower elevation and protected by a small forest along the coast. Due to the less agricultural productivity and absence of proper flood control and embankment facility, this large area is almost barren. Some fishing ponds are found in the area which should be properly compensated. Mechanism is addressed in the report for swift acquisition of land and redressing grievance of the affected people. Detail of it can be found in Chapter 4. The remaining land of 3,671.06 acres (1,486.26 hectares) in the plan is owned by the government and can be used without engaging in any acquisition process.

12. Distribution of this land under different uses has been estimated to be as follows:

Land Use	Land Area in Acres			Existing	Total Area*		%
	Phase 1	Phase 2	Phase 3		Acres	Hectares	
Leasable Land	2,293.41	1,335.52	559.90	0.00	4,188.83	1,695.16	58.22
Rental Factory Land	25.85	0.00	0.00	0.00	25.85	10.46	0.36
Land for Administration	19.49	0.33	0.09	0.00	19.91	8.06	0.28
Land for Infrastructure	719.23	395.89	182.62	0.00	1,297.73	525.17	18.04
Green Zone and Others	403.56	73.88	60.87	1,063.58	1,601.88	648.26	22.26
Resettlement Zone	61.09	0.00	0.00	0.00	61.09	24.72	0.85
<b>Total</b>	<b>3,522.63</b>	<b>1,805.61</b>	<b>803.47</b>	<b>1,063.58</b>	<b>7,195.30</b>	<b>2,911.83</b>	<b>100.0</b>

\* Land area includes the reclaimed land of 580.18 acre (233.64 hectare).

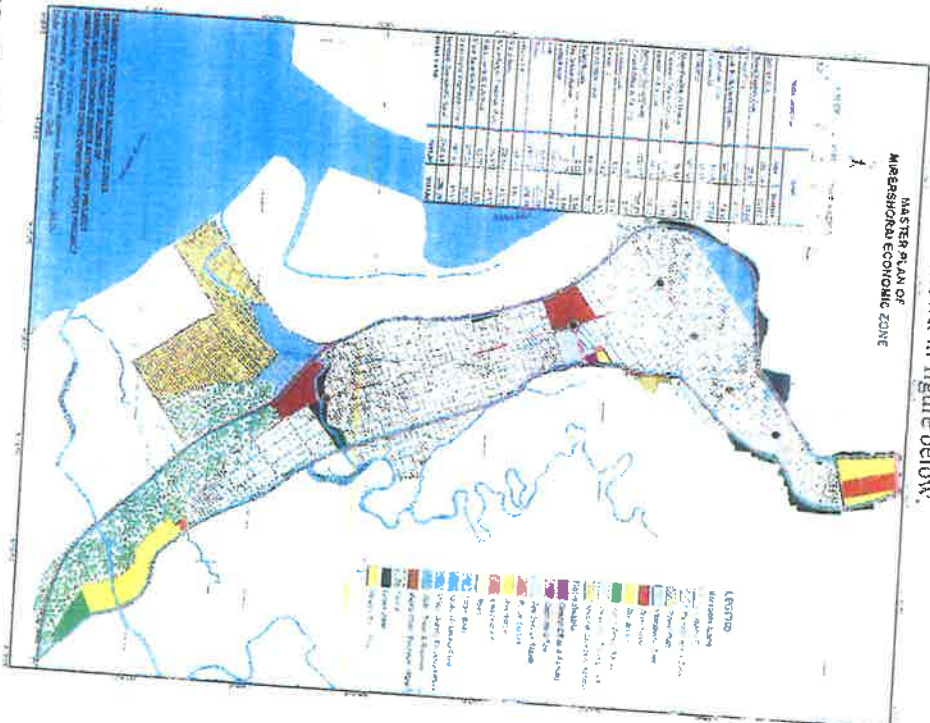
  
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স্বাক্ষরক (স্বাক্ষর) এর ও মাধ্যমে

  
সচিব, প্রধানমন্ত্রীর কার্যালয়  
গণপ্রজাতন্ত্রী বাংলাদেশ  
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The Master Plan is shown in figure below.



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13. The Mireshorai EZ will have a safe dike (9 metres above sea level) and modern infrastructure such as an efficient drainage system, a reliable and clean-coal power supply plant (600MW), a water supply treatment plant replenished by river water (collecting fresh water from the Feni River, 16 Km upstream from the site) and rainwater; a waste water treatment plant and communication system equipped to international standards, as well as access roads (two 4-lane access roads, 7 and 10 Km in length) from the existing Dhaka-Chittagong Highway. These strategically designed infrastructure elements are suitable for advanced foreign industries and will hopefully provoke new industrial chains in Bangladesh. "A New Gateway to Bangladesh" is the development concept recommended for the Master Plan of the site. The industrial area will be divided into 1 hectare (2.47 acres) plots for this EZ.

14. The feasibility study will be carried out until the end of July, 2014. The approval of the zone, land acquisition, tender and design will be completed within the year 2016. The project is divided into three phases - first phase including design review (2017 to 2021), second phase (2022 to 2025) and third phase (2026 to 2028).

15. The construction cost estimates are prepared with three phasing plans. The phase 1 (2017 - 2021) of the Mireshorai Economic Zone requires BDT 26,854,852,386 (US\$335,685,655) for the onsite infrastructure and BDT 28,623,842,836 (US\$357,798,035) for the offsite and IPP-based infrastructure. Total 2,319.27 acres (938.57 hectares) of land will become saleable by 2019. The phase 2 (2022 - 2025) of the EZ requires BDT 14,039,450,316 (US\$175,493,129) for the onsite infrastructure and BDT 24,000,000,000 (US\$300,000,000) for IPP based infrastructure. At the middle of this phase additional 1,336.52 acres (540.47 hectare) of land will become saleable by 2024. The



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phase 3 (2026 – 2028) requires EDR 6,604,492,004 (US\$82,556,150) for the onsite infrastructure. The remaining 559,90 acres (226.58 hectares) of land will become saleable by 2027.

16. Utility demand per hectare per day has been ascertained from the demand survey of 107 industries. Using this number the utility demand for the zone has been estimated. It was found that the total power demand in 2021 will be 579,36,344 and water demand 276,042,67 m<sup>3</sup>/day. These numbers has been used to finalize the capacity of the electric supply system. Water supply treatment plant and waste water treatment plant in the Master Plan. A 600MW coal-fired power plant has been proposed to be established at the site. The capacity of the water treatment plant will be 280,000 m<sup>3</sup>/day, and the waste water treatment plant will be 224,000 m<sup>3</sup>/day.

17. Building guidelines are prepared for the site and they include Architectural Plans; Compulsory Open Space Requirements; Compulsory Exterior Requirements, Utility Connections, and Approval of the Government. The guidelines are prepared for determining the floor area ratio standard of the economic zones.

#### Possible Environmental Impact

18. The Initial Environmental Examination (IEE) covers existing environmental conditions and a qualitative assessment of the environmental impact of land filling activities and associated project components and includes recommended mitigation measures and environmental monitoring. The physical environment focuses on climate, topography and soil, geology, water resources, water quality, flooding and drainage and the diversity of flora and fauna. The Environmental Management Plan (EMMP), which will deal with mitigation measures, implementation responsibilities, and monitoring plans, will result in minimal adverse impacts. As such, the Project will have an overall beneficial impact.

19. However, preliminary negative impacts of the proposed Project have been identified as follows:

- Erosion and accretion process posing a possible threat to EZ site
- Loss of paddy land and marshy areas due to proposed economic zone location
- Minor risk of degradation of aquatic habitat due to chemical pollution from the proposed garment, textile, automobile and parts, and machinery, and other industries.
- Contamination of surface and groundwater
- Leaching and disposal
- Effects on the natural environment

20. In order to determine the impacts in a precise way, a detailed Environmental Impact Assessment (EIA) is recommended, which will include monitoring and mitigation of a wide range of important environmental components for project sustainability, covering aspects such as (a) further exploration and assessment of the physical behaviour of the Feni River and the dynamic morphological process along the estuary to justify the suitability of the site for the Project; (b) identification, quantification, and valuation of impacts to ensure appropriate monitoring of parameters; (c) finding out suitable land reclamation and bank protection methods; (d) generating reliable data and further analysing the same to serve as a supplement to results and data from other sources; and (e) assessing implications of other existing and proposed projects and studies, including the impacts of the coal-fired power plant.

#### Social Assessment

21. The social analysis was done considering the World Bank's policies on involuntary resettlement, gender and tribal issues, physical, and cultural resources, and, considering the Land Acquisition and Requisition of Immovable Property Ordinance, 1982. Potential social impacts on people living on site and affected by the proposed offsite infrastructure of the EZ is also assessed in the study. During the field survey, it was found that a total 897 households will be affected by the establishment of the EZ



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and will need to be resettled. For the widening and upgrading of the two access roads, 150 households will need to be resettled off-site. Thus the total resettlement requirement would be 1047 households. The project plans to resettle these households adjacent to the EZ area with modern amenities. However, the population who will benefit from the positive impact of the job creation by industrialization would be much higher, and will go beyond the Upazila, as the Mireshorai EZ will provide employment opportunities for about half a million workers.

### Institutional Structure and PPP scheme

22. The institutional structure and the Public Private Partnership (PPP) scheme must be tailored to accommodate the existing conditions and achieve project development objectives. Considering all aspects the "concession PPP model" is recommended. The detail of this model is discussed in all report. In order to implement the EZ programme successfully BEZA should follow a workable legal framework and implementation process. Though the legal framework is present, the Authority is yet to formulate detailed guidelines and regulations in all major areas and this is to be completed prior to operation of the EZ.

23. Capacity building for BEZA officials is essential for the successful supervision and operation of the scheme. It may be mentioned that the present land regulation of 30 years lease may act as a barrier to attracting private developers/investors. The government has to increase the lease period up to 99 years or at least 50 years and give permission to transfer the leasehold properties. Details of this are given in the body of the report. One Stop Service (OSS) is to be practised properly while a Steering Committee is recommended for efficient and successful operation of the EZ.

### Financial and Economic Analysis of the Project

24. The total project cost of the Mireshorai EZ is estimated to be US\$735.39 million excluding the off-site costs of US\$28.67 million. Revenue will mainly be generated from the long term lease of the land assembled for the project. The total amount of revenue generated from the lease of industrial and commercial land is estimated to be US\$1,103.35 million. Revenue will also be generated from leasing standard factory building space, premium charges for supplying water and waste water effluent treatment, and service charges for EZ management paid by each lessee on an annual basis.

25. Based on the estimated costs and revenues, the project Internal Rates of Returns (IRRs) in the base case and alternative scenario-2 stand at 21.24% and 28.43% respectively. The above IRRs could be achieved by funding all capital expenditures through cash instead of debt. With the debt/equity ratio utilized by the Special Purpose Vehicle (SPV) Company, investors could potentially secure a targeted/benchmark equity IRR of 34.14% in the base case and 59.31% in scenario-2) higher than indicates that the Mireshorai EZ is a financially feasible project for a developer &/or operator. The conclusion made for the Mireshorai EZ project is robust as the equity IRR in the base case remains above 25 percent even after considering either an increase of all costs by 10%, or a reduction of lease price and EZ service fee by 10%, or a combination of both.

26. BEZA should provide support in terms of (1) acquisition of land and (2) soft long term commercial loans guaranteed by the GoB and should finance the off-site infrastructure by public funding. The study considers a 'lease on sale' rather than a 'lease on rent' having lease period of 30 years and transferability conditions for the purpose of an SPV Company as the optimal transactional model for use in managing financial vehicles on the project.

27. With the inclusion of the cost of a coal-fired power plant, the project IRR comes down to 19.45% and 23.07% in the base case and scenario-2 respectively. It is needed to be mentioned that the financial analysis of EZ for 30 years operation includes the impact of first- and second cost of coal power plants respectively for 15 years and 11 years of its operation only as electricity generated by



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coal-fired power plants is presumed to be sold respectively in the beginning year of 2021 and 2025, and forward thereafter up to the end of 2035.

28. The Economic Internal Rate of Return (EIRR) of the Mirshorai economic zone in the base-case scenario is found to be 28.41% with, and, 30.66% without the cost of the coal-fired power plant respectively. The project is economically viable, provided that the requisite quantity of electricity would be supplied to the enterprises on the zone using the IPP implementation platform. This conclusion is found to be robust throughout the 'what-if' scenarios of (i) a 10% increase in all costs; (ii) a 10% rollback in all benefits; and (iii) a combination occurrence of (i) and (ii).

### Conclusion and Recommendations

29. Although this study was carried out over a short period of time, with limited man/month expert resources as a preliminary Feasibility Study & Master Plan, taking all the information collected and evidence into consideration. The conclusion may be drawn that the proposed site is likely to be viable for the establishment of an Economic Zone and recommend BEZA/Bangladesh Government move to the next steps: (1) Land acquisition process, (2) Discussion with local residents who require relocation of their houses, (3) Off site infrastructure provision, and, (4) Identifying a potential developer. Once the potential developer is identified, they will conduct a further detailed market survey, soil testing, and hydrological survey and review the feasibility study according to the detailed survey results. Considering the severe shortage of well-equipped economic zones in Bangladesh and potential high demands for serviced industrial land, the benefits of the Project will greatly depend on how quickly and efficiently the proposed EZ moves forward towards eventual implementation.

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# Pre-feasibility Report

## Mirsarai 2

### Economic

### Zone



Submitted to  
Bangladesh Economic Zones Authority



30 November 2016

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## Executive Summary

*One of the most attractive destinations for business and investment.* Bangladesh is now considered as one of the most attractive destinations for business and investment opportunities due to presence of abundant and low-cost labour, investor-friendly environment, diversified natural resources and strong macro-economic fundamentals. In 2013-14, GDP growth registered at a staggering 7.19 percent – driven by the boost in the private sector investment, influx of remittance and strong expansion in export.

*A new dimension to Bangladesh's economic outlook.* The private sector is leading by the world's top two credit rating agencies, Standard & Poor's (S&P) and Moody's brought a new dimension to Bangladesh's economic outlook. S&P assigned BB and Moody's Investors Service assigned Ba3 rating to Bangladesh and termed the country's macroeconomic outlook stable, putting Bangladesh at par with the Philippines, Vietnam and Turkey. Going forward, Government's objective is to develop a growth trajectory that will support GDP growth over 7 percent per annum and create poverty free and inclusive growth for all people of country. Creating productive employment will largely depend on creating an environment conducive to private sector investment, particularly for labour-intensive manufacturing and services.

*New economic zone regime.* The Government has, therefore, launched an effort to develop a new economic zone (EZ) paradigm for Bangladesh, drawing from successful examples from around the world as well as Bangladesh's own positive experience of EPZ model. The new economic zone regime provides for a new approach in both management and investment. The Economic Zones Act was passed in the Bangladesh Parliament in August 2010, providing the overall framework for establishing economic zones throughout Bangladesh. Under this Act, the Bangladesh Economic Zone Authority (BEZA) was established under the Prime Minister's Office (PMO).

*Industry's Strong Contribution.* Industry had a decisive influence on the pace of economic growth due to its increasing share to GDP. In financial year (FY) 2014-15, share of agriculture, industry and service sectors stood at 15.96, 30.42 and 53.62 percent respectively. The corresponding shares of these sectors in the previous FY (2013-14) were 16.50 t, 29.55 and 53.95 percent respectively (Bangladesh Economic Review, 2015). Data shows that the share of service sector slightly slowed in 2014-15 and its contribution to GDP declined from 54.61 percent to 53.62 percent in 2014-15<sup>2</sup>.

*Sustainable growth of Foreign Trade.* Foreign trade of Bangladesh has registered sustainable growth since 2008-09 due to initiation of economic reforms and adoption of an export-biased liberal foreign trade policy. Bangladesh economy has benefited from its growing share of the global RMG market. Government has been pursuing an export led economic development strategy to stimulate export earnings and create employments. Promotional campaign and industry assistance (incentives) are given under export diversification programme. Recently, a new law has been enacted creating special economic zones to give further impetus to export growth. In 2005-06, export accounted for only 14 percent of GDP whereas its share steadily increased to 17 percent<sup>3</sup> of country's GDP by 2015. On the other hand, the contribution of import to GDP is higher than export, revealing that the country had prolong trade deficits. Export has been experiencing a shift from the agricultural products to manufactured goods. The main export items are RMG, leather and leather products, paper, furnace oil, urea, ceramic products, raw jute and jute products. Manufacturing dominated over 92 percent of total export of the country since 2003-04 (against 65.2% in 1983-84) to till date<sup>4</sup>. Bangladesh economy depends on the import of both consumer items and industrial raw materials.



Bangladesh Economic Review, 2015

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*Also requires certain critical enablers.* While Bangladesh has done well in some sectors and acquired global recognition in RMG sector, attracting industries for accelerating domestic growth also requires certain critical enablers including access to market, presence of supporting infrastructure (power, water supply, connectivity etc.) and supportive policies and enabling environment. Bangladesh today ranks 174<sup>th</sup> in the Doing Business 2016 Report of the World Bank Group, which brings about a comparison of business environment in 189 economies of the world. The private sector plays driving role in the development process. In 1983-84, private sector investment constituted only 11.4 percent of GDP, and reached to 22.10 percent in 2014-15. According to the World Investment Report 2015, private investment in Bangladesh will increase substantially due to corridors linking South Asia and East and South-East Asia are being established: Bangladesh-China-India-Myanmar Economic Corridor and China-Pakistan Economic Corridor. World Bank has recently proposed that the government would facilitate the development of 40,000 acres<sup>5</sup> of land for creation of new industrial zones across the country to attract both foreign and local investment.

**Mirsarai economic zone.** Mirsarai economic zone consists of a total project area of 1,300 acres (Mirsarai 2A 882 and Mirsarai 2B 428 acres) of land. It is situated in Mirsarai upazilla, about 13 km to the west from upazilla headquarter and about 66 Km from Chittagong District Headquarters. BWD8 embankment is aligned almost parallel to the Dhaka-Chittagong National highway - running about 10 km to the east of the project site. There exist two access roads: one is from Dhaka-Chittagong old highway with intersection at Borotakia bazar (about 9.30 km away) and another is from Zorarganj intersection to Muburi project embankment (about 7 km away). The existing Dhaka-Chittagong railway line is about 3 km from the Zorarganj intersection. Thus the project site is strategically located closer to the key transportation nodes of Chittagong for export and import. The primary source of water will be the Feni river through Ichhakhali canal. However, ground water will also be used.

**Strong potential for success of economic zone program.** Success of an economic zone is mainly driven by investment climate, domestic market and attractiveness of the region, feasibility of individual projects, regulatory /policy setup and incentives. Bangladesh Economic Zone program is expected to be successful for a variety of reasons: BEPZA's amazing success to attract investments of \$3,021 million from 37 countries by 2014 since inception, 93 percent utilization of plots in all 8 EPZs, establishment of BEZA under the PMO, and conducive policy environment including enactment of Economic Zones Act of 2010, provision of legal coverage for attracting/leveraging private investment, provision of tailored infrastructure services on PPP basis, flexibility of export and local sales with fiscal incentives, one stop shop services and readily available infrastructure are expected to help attract investments in economic zones.

**RMG and its suitability for Mirsarai.** The RMG industry is the Bangladesh's biggest export earner with value of over \$24.49 billion of exports in 2013-14, contributing more than four-fifth of total export earning of the country. Chittagong city has a moderate level of presence of RMG industries - around 0.24 million RMG workers working and 70 percent of whom consists of female workers<sup>6</sup>. In terms of suitability in Mirsarai economic zone, RMG ranks highest compared to other industries, because of the easy availability of low cost workers, least space requirement compared to value addition, proximity to Dhaka- Chittagong highway and Chittagong port makes it even more attractive for the industry as textile and apparel.

**Other potential industries suitable for Mirsarai.** The next potential industry at Mirsarai would be pharmaceuticals, contributing 1 percent<sup>7</sup> of the GDP. With 194 operating companies in the country, the pharmaceutical industry caters 97 percent of the total medicinal needs of the local market. The industry also exports medicines to global markets, including Europe and USA. Nearly 80 percent cumulative growth in the last three years means that the Bangladesh pharmaceutical market has doubled<sup>8</sup>. The domestic retail market

<http://www.ezfinance.com/2014/10/12/636305>  
<http://database.ilo.gov.id/records/number-of-rmg-workers-by-district>  
Growth of Pharmaceuticals Sector in Bangladesh: www.daglamsh.com/private-world/Elogspot.com  
801, 2015



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is growing at 25 percent per year<sup>9</sup>. Bangladesh is also going to establish an API park where 40 API industries are expected to operate<sup>10</sup>. In 2014-15, Bangladesh exported medicines of \$72.64 million, which was 4.9 percent higher, compared to \$69.24 million in 2013-14<sup>11</sup>. Approximately 80 percent<sup>12</sup> of the APIs are imported and 75-80 percent<sup>13</sup> of the imported APIs are generic. At present, there are 15 companies in Bangladesh manufacturing 40 APIs<sup>14</sup>. The proximity to sea and airport is a significant factor, for consideration of setting up pharmaceutical industries in Dairghachh. Mirsarai economic zone is ideal for that.

Leather and leather products sector is one of the growing industries of Bangladesh. Government has identified it as a thrust sector. It is a high value added export industry. The leather footwear sector has been growing over the last 5 years with exports increasing by 25 percent<sup>15</sup> in 2013 followed by 27 percent growth in 2015. Leather of Bangladesh are marketed abroad, mostly in the form of crushed leather, finished leather, leather garments, and footwear.

According to the Association of Ship Building Industries of Bangladesh, Bangladesh has the potential to earn \$2.0 billion by exporting ships and vessels in the next five years<sup>16</sup>. Ship building industry of Bangladesh has developed the capacity and technical expertise to manufacture inland and coastal ships in Bangladeshi shipyards. According to a 2013 report, more than 250,000 skilled and semi-skilled workers are employed in the ship building industry and the average growth of the industry is 8 percent<sup>18</sup>. Being adjacent to sea, Mirsarai is a technically suitable place for establishing shipbuilding and ship repairing facility.

Growth and import substitution prospect is high in the light engineering industry. This sector contributes to growth in various related sectors and generates a wide range of economic activities. Most of the industries are located around old Dhaka with heavily concentrated inadequate facilities. Chittagong also houses significant number of light engineering industries, especially due to availability of steel from ship breaking and also to cater the spare parts needs of local industries and automobiles.

Most of Bangladesh's cement requirements are met through imports of clinker and related raw materials such as slag, fly ash, gypsum etc. Currently, around 93 percent of the import in this category is handled at Chittagong Port leaving only 7 percent for Mongla. The key reason for this is that most of the cement manufacturing firms are in Dhaka and Chittagong and demand from Central and South Western Bangladesh is much higher as compared to South Eastern and Northern Bangladesh.

*Mirsarai can be one of the top sites compared to other economic zones in the region..* It is evident that Mirsarai 2A and 2B are one of the top sites among the compared economic zones. The closest competitor is Myanmar's Thilawa Special Economic Zone. Business enterprises currently operating in Chittagong are under pressure to relocate away from the congested old city. Land in Chittagong is scarce, and small workshops are scattered throughout residential areas without proper planning. Consolidation could save time and technical pressures, and lower the average cost of doing business as well as the per-unit cost of business enterprise products.

*A Data and Counselling Centre for each economic zone project is strongly recommended.* We strongly recommend setting up a Data and Counselling Centre for each economic zone project. This centre is required to promote investment for information gathering and dissemination, inter-government communication and create and update database of the target marketing industries. During the initial period of seeking zone developers, BEZA should offer investment counselling services from the Data and Counselling Centre through providing information on (a) securing raw materials; (b) market access (national or regional); (c) seeking

<sup>9</sup> Ibid

<sup>10</sup> Ibid

<sup>11</sup> Capital Promotion Bureau

<sup>12</sup> The World Bank, 2012

<sup>13</sup> Ibid

<sup>14</sup> <http://www.pharmajournal.com/au-innopen-market-technology-manufacturers/>

<sup>15</sup> Export Promotion Bureau

<sup>16</sup> Ibid

<sup>17</sup> Association of Export Oriented Ship Building Industries of Bangladesh, 2013

<sup>18</sup> Same as above



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efficiency; and (d) gaining strategic elements for investors. The investor services should start at the BEZA headquarters from Data and Counselling Centre. This would provide a single window of information provision and facilitation to the investors on each economic zone. An economic zone is typically an inter-government responsibility at least during implementation stage, as it involves several connectivity with outside utilities like road, power, water supply, optic fiber etc. BEZA's role to resolve inter-government problems effectively, in communication with other government agencies, is therefore extremely important.

**A high profile economic zone with excellent business environment.** The planning for the proposed economic zone has been based on the broad objective of establishing an excellent business environment targeted essentially at high growth manufacturing and processing industrial and related infrastructure sectors. Presence of state of the art infrastructure and other services in the zone is planned to be developed to attract investors, both local and foreign. Each zone within the BEZA shall be dedicated to specific sub-sectors and would be self-sufficient units in terms of facilities, ability to attract investors and revenue generation. From planning point of view, the economic zone is a package of number of land uses. The processing activities are prime activities and the efficiency of production is enhanced by a number of other activity zones. These include post-harvest activities, linking infrastructures, marketing infrastructure, R & D services, community facilities and green spaces.

**Master Planning Considerations.** The master plan was developed to accommodate both the industries area requirements and requirements of the various infrastructure facilities. The broad objective was an excellent business environment targeted essentially at high growth manufacturing and processing industrial & related infrastructure sectors.

The zone shall be dedicated to specific sub-sectors and would be self-sufficient units in terms of facilities, ability to attract investors and revenue generation. From the planning point of view, the economic zone is a package of number of land uses. The processing activities are prime activities and the efficiency of production is enhanced by a number of other activity zones. These include linking infrastructures, marketing infrastructure, R & D services, community facilities and green spaces.

**Land use pattern.** The land use pattern of the zone is determined considering the land requirement for various processing units, logistics requirements, research, capacity development, skill development, residential facilities, schools and various social amenities etc. A concrete surface road is suggested for the internal road in the economic zone in terms of resistance against heavy rain and heavy truckload that is very common in economic zones. The main road is planned from the entrance crossing through factory plots in the industrial zone. Water distribution network inside the zone will deliver water to each factory along the roads, coming through the tower and tank at several places built inside the zone. A gravity feed system will be used to supply water to the water supply pipeline located along the footpath of the road inside the project.

**Institutional Arrangement.** Based on the available institutional options and consultations with the officials of BEZA, Mirsarai economic zone will be developed in following manner. Mirsarai Economic Zones Management Committee (MEZMC) will be responsible for the overall operation, management and maintenance of the economic zones in that region. It will also run the One Stop Service Centre. Economic zone management will also be responsible for monitoring and evaluating legal, environmental, social compliances along with investment promotion and investment appraisals.

**Enormous economic opportunities.** Development of Mirsarai 2 economic zone would lead enormous economic opportunities in the region. These include:

- New livelihood opportunities will be available to the people during the construction and commissioning phases of the Mirsarai 2 economic zone.



BEZA

Mirsarai

ANISUR RAHMAN

Director

Prime Minister's Office

Govt. of the People's Republic of Bangladesh



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- Direct employment opportunities for the local people (especially construction workers and unskilled labours) are expected to increase;
- Local inhabitants expect that the development of Mirsarai 2 economic zone would provide various indirect employment opportunities (such as small shops, restaurants etc. around the Mirsarai 2 economic zone area);
- The residents want that opportunities be given to the local workforce in the Mirsarai 2 economic zone during the construction and commissioning phases;
- Local inhabitants expect that the development of Mirsarai 2 economic zone would lead the area to become more secure in terms of criminal activities such as theft, loot etc.;
- Women empowerment through employment generation since gender inequality is deep rooted in the area;
- Stable employment opportunities throughout the year for communities dependent on seasonal income opportunities.
- The upcoming Mirsarai 2 economic zone will help in the economic upliftment of the local people, Ichhakhali union, and
- The majority of the workforce is unskilled; therefore, in order to provide employment opportunities in the skilled sector, there is a need to establish a "Vocational Training Institute" for the skill enhancement of the local people, especially the youth and women in the area. This may be done in coordination with the UNO office, as they are the nodal agency for the implementation of government programmes on social welfare and livelihood for the people in that area.

**An economically and financially viable economic zone.**

Mirsarai 2A		Mirsarai 2B	
EIRR	38%	EIRR	34%
Benefit-Cost Ratio	1.82	Benefit Cost Ratio	3.89
Total Employment	130,000	Total Employment	92,000
Equity IRR	27%	Equity IRR (after tax)	34%
Project IRR	27%	Project IRR (after tax)	22%

As a whole, the Mirsarai 2 economic zone will have modern infrastructure such as an efficient drainage system, a reliable power supply plant, a water supply treatment plant replenished by river water and rainwater as source, a CETP and communication systems equipped to international standards. These strategically designed infrastructure elements are ready for receiving foreign investment and will hopefully provoke new industrial chains in Bangladesh. "A New Gateway to Bangladesh" is the development concept recommended for recognition as a future industrial development for Bangladesh. Mirsarai has the potential of becoming the largest Economic Zone of Bangladesh.

*Ahmed Rahman*  
**Ahmed Rahman**

Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

*21/10/20*  
 মহানগর কর্মসূচির  
 পরিচালক (সহ সচিব ও প্রোগ্রামার)

*21/10/20*  
 মহানগর কর্মসূচির  
 পরিচালক (সহ সচিব ও প্রোগ্রামার)



## Financial and Economic Analysis

### Executive Summary

The BEZA DPP Preparation Team was authorized to evaluate the proposed Private Investment and Digital Entrepreneurship Project's (PRIDE) Financial Analysis (FA) during the PSC Decision Recorded Meeting held on April 13, 2020. The FA appraisal was conducted in accordance with the guidance and decisions documented in the mandatory 'meeting decision' serial number 9 of Meeting Minutes of PSC dated 13th April 2020 of Prime Minister's Office, Tejgaon, Dhaka of PRIDE for BEZA Project. They discussed and confirmed the design of the project, including the objectives, the results framework, disbursement-linked indicators (DLIs), components, activities and cost estimates, project duration, implementation arrangements, fiduciary and procurement plans, safeguard requirements, and other project readiness conditions, with the two implementing agencies the BEZA and the BHTPA.

The project development objective is to promote private investment, job creation, and environmental sustainability in participating economic zones and software technology parks in Bangladesh. The DPP Preparation Team was confirmed that the lending instrument will be Investment Project Financing with DLIs. The Government informed the World Bank that counterpart financing for BEZA's activities under Components 1-3 would be US\$50 million whereas counterpart financing under Components 1-3 would be US\$50 million US\$10 million, bringing the total project cost to US\$560 million (IDA US\$500 million and GoB counterpart financing to US\$60 million). The ERD also shared a proposal for their monitoring, fiduciary and verification function worth US\$2.9 million. The project duration will be 67 months with the project closing on December 31, 2025.

**This Report** is prepared as part of PRIDE for BEZA Project. It is funded and administered by the World Bank. The objectives will be measured by four outcome indicators of which the economic zones cover all four and the software technology parks cover two: (1) Direct private investment in economic zones (of which by BSMSN unit investors, of which in PEZs outside BSMSN, of which from PPPs); (2) Number of direct (full-time equivalent) new jobs facilitated by the Project (of which in BSMSN of which in PEZs outside BSMSN of which in STPs of which women). (3) Number of companies using green and resilient services and facilities (of which in BSMSN, of which in PEZs outside BSMSN of which in Greenhouse gas emissions avoided. In this regards, Value for money to measure whether in the pursuit of predetermined goals/objectives, it has achieved economy (which is doing well), efficiency (which is doing things right) and effectiveness (which is doing the right things) in the utilization of its resources i.e. the total project life-cycle benefits, net of related costs, adjusted for risk and (in the case of financial value) for the time vale of money.

***"Is the project cost-effective, financially acceptable, technically sound & economically viable in line with the main objective of the project and matters of impact due to GOVTD-19***



It is a partial fulfillment of the PRIDE for BEZA Project, Human-made-intelligence-based outcome by Md. Abdul Hamid, CS, I.A., ERD Number 16319

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**Ahsur Rahman**  
Director

59<sup>th</sup> Floor, At the People's Republic of Bangladesh  
Prime Minister's Office

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PRIDE Project

**Pandemic are related to the 7th Five Year Plan, MTBF, National Priority, Principles of Development, Planning and Resources of Government for future course of action? "**

The EFA is the facts (know-what-why-how) i.e knowledge and information base underpinning a technical conceptual mechanism for a transformation process in maximizing converts into acceptable monetary terms) or the specific management process in maximizing positive effect and minimizing negative impact. An Economic and Financial Viability analysis is conducted for the PRIDE for BEZA Project based on the Cost-Benefits Approach (It is a technique for determining the service of greatest benefit for the least cost), as it is a common approach for government to evaluate the desirability of a given intervention, and the benefits are measurable in monetary terms.

The Objective of the analysis was to: (i) Meet the mandatory requirement of the 'meeting decision' serial number nine (9) of Meeting Minutes of PSC dated 13<sup>th</sup> April 2020 of Prime Minister's Office, Tejgaon, Dhaka of PRIDE for BEZA Project; (ii) Evaluate the Project benefits that are measurable in acceptable monetary terms; and (iii) Recommend by basic considerations that will be sufficient to illustrate this Project's investment viability testing.

EFA Matrix is the application of scientific knowledge for practical purposes and used to achieve goals. During the EFA stage, covering all the relevant issues for EFA is as per the EFA Objectives and Scope of EFA. Though different experts/analysts use different formats of EFA Matrixes for planning their EFA, there is an overall uniformity in the Economic and Financial information captured in the EFA Matrix. A suggested format for an EFA Matrix, also utilized in this EFA, is as below:

**Assumption, Benchmarks Comparison and Viability Testing Standards/Rules**

Sl. No	Particulars	Economic and Financial analysis Matrix Full Terminology
1	Area of Analysis	Private Investment & digital Entrepreneurship (PRIDE) for BEZA Project.
2	Analysis Objective	To evaluate the desirability of a given intervention and the benefits of this PRIDE for BEZA Project are measurable in acceptable monetary terms.
3	Analysis Issue	To measure the maximizing positive effect and minimizing negative impacts.
4	Appraisal Criteria	Discounting Criteria. The discount rate at which a stream of cost and benefit has a net present value of zero, net present value being the sum of the present values of all benefits less the sum of the present values of all costs.
5	Analysis Method(s)	Cost-Benefits Approach: (a) Net Present Value (NPV), (b) Benefit-Cost Ratio (BCR), (C) Internal Rate of Return (IRR) & (d) Rate on Return (RR)
6	Finding- Viability	Accept: (a) NPV>0, (b) BCR >1, (c) IRR > Cost of Capital & (d)

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Gov. of the People's Republic of Bangladesh



It is a partial fulfillment of the requirement for the award of the degree of Bachelor of Business Administration (BBA) in the field of Management. I hereby certify that the student has completed the project on the topic "Pandemic are related to the 7th Five Year Plan, MTBF, National Priority, Principles of Development, Planning and Resources of Government for future course of action? "

শ্রী আনিসুর রহমান  
প্রকল্প পরিচালক  
১৩ এপ্রিল ২০২০

১৩ এপ্রিল ২০২০

**PRIDE Project**

Rules (Analysis Standards)	RR > Target Rate Reject: (a) NPV<0, (b) BCR <1, (c) IRR < Cost of Capital & (d) RR < Target Rate or if not or Reality is otherwise.
7 Recommendation	The above basic considerations will be sufficient to illustrate this Project's viability Testing.

**Major Finding of the EFA** i.e. a holistic and end-to-end approach to analysis with targeted Term/models applied for producing the following measurable maximum monetary effect that demonstrates higher than the acceptable standards, highly cost-effective and vastly viable.

DPP Sl. 17.0	Financial Analysis	Financial	Economic
17.1	NPV: (million USD)	324.08	9929.00
17.2	BCR	2.43	3.00
17.3	IRR	25.71%	32.00%
17.4	RR	62.93%	-

**Recommendations:** This EFA is relatively minuscule in contrast to the benchmarks, assumptions, standards and viability testing described above (in this report) and suggests that the Project will be highly Cost-effective as well as financially acceptable, technically sound and economically viable and completely match with the matter of impact due to COVID -19 Pandemic are related to the 7th Five Year Plan, MTBF, National Priority, Principles of Development, Planning and Resources of Government for future course of action.

**Conclusion:** This Report, an independent financial analysis to evaluate the desirability of a given intervention, and the benefits of this project is measurable in acceptable monetary terms, is initiated upon the request of Project preparation Team and intended to provide objective of the FEA and make concrete, technically, financially and economically practical recommendations for investment.

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 Director  
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 Govt. of the People's Republic of Bangladesh

  
 Md. Abidul Hamid  
 C.S. CR4, CRP, JS number: 00119

  
 মন্ত্রণালয় সচিবনাথ  
 মন্ত্রণালয়  
 শ্রাবণ (১১) কার্তিক ১৪৩৩ বঙ্গাব্দ



Time Bound Action Plan (Gantt Chart)

Name of Agency/Division/Ministry:

Bangladesh Economic Zones Authority, Prime Minister's Office

Sl. No.	Task Name	Start Date	End Date	Duration (Years)	Time Frame						
					Y1 January to June 2021	Y2 July 2021 to June 2022	Y3 July 2022 to June 2023	Y4 July 2023 to June 2024	Y5 July 2024 to June 2025	Y6 July to December 2025	
<b>A. Consultancy Services:</b>											
A-1	Appointment of consultant	January 2021	June 2021	0.5							
A-2	Individual consultancy	July 2021	December 2025	4.5							
A-3	TAS firm (consultancy by firm)	July 2021	December 2025	4.5							
<b>B. Construction Work:</b>											
B-1	Land Development	July 2021	June 2025	4.0							
B-2	Construction of Investors Club	July 2021	June 2025	4.0							
B-3	Furnished OSS Centre for BSM&A	July 2021	June 2024	3.0							
B-4	Construction of Stalls Development Center	July 2022	December 2025	3.5							
B-5	Road network	July 2021	December 2025	4.5							
B-6	Storm water and Water Supply	July 2021	December 2025	4.5							
B-7	Power/Gas network	July 2021	December 2025	4.5							
B-8	Telecommunication System	July 2022	December 2025	3.5							
D-9	CETP, Deslination Plant and Solid Waste Management Plant	July 2021	December 2025	4.5							
B-10	Chanel lining	July 2021	June 2023	2.0							
B-11	Rooftop and floating solar	July 2023	June 2025	2.0							

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 Director  
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 Govt. of the People's Republic of Bangladesh



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 মন্ত্রণালয় সচিবালয়  
 সরকারবাড়ি (সেক্টর-৯, ওয়াশিংটন সড়ক, ঢাকা)

*Rashed*  
 বাংলাদেশ সরকার  
 মন্ত্রণালয় সচিবালয়  
 সরকারবাড়ি, সেক্টর-৯, ওয়াশিংটন সড়ক, ঢাকা

### Amortization Schedule

Project: P1 74688-Private Investment & Jobs Project	Region: SOUTH ASIA	Country: Bangladesh
T11, Michael Olayirngnan	Lending Instrument: IPF	
Loan: IDA 66,760,401	Financial Product: IDA - NCL Fixed Spread	Status: Negotiated
Amr In C&C: EUR 459,800,000.00	Loan Description: BD PRIVATE INVEST. & IGITAL ENTERPR. PROJ	

Borr City: BD-Bangladesh	Income Category:	Avg Repay Maturity (Years): 0.00
<b>Amortization Schedule Parameters</b>		
Maturity Profile: CUSTOM	COMMITMENT LINKED	Maturity Type: LEVFL
Repayment Term: 048		Repay Freq (in months): 006
Grace Periods (in months): 048		Final Maturity (in months): 408
First Maturity Dt: 01Nov2024		Last Maturity Dt: 01May2034
Ext Last Dish Dt:		Dish Grouping (in months): 000
Payment Day / Month: 01/11		Annunty Rate (%): 0.00

Version Number: 001

Repay No	Repay Dt	Repay Amt (EUR)	Repay Amt (USD)	Repay Fct
001	01Nov2024	7,678,660.00	8,350,000.00	1.67000
002	01May2025	7,678,660.00	8,350,000.00	1.67000
003	01Nov2025	7,678,660.00	8,350,000.00	1.67000
004	01May2026	7,678,660.00	8,350,000.00	1.67000
005	01Nov2026	7,678,660.00	8,350,000.00	1.67000
006	01May2027	7,678,660.00	8,350,000.00	1.67000
007	01Nov2027	7,678,660.00	8,350,000.00	1.67000
008	01May2028	7,678,660.00	8,350,000.00	1.67000
009	01Nov2028	7,678,660.00	8,350,000.00	1.67000
010	01May2029	7,678,660.00	8,350,000.00	1.67000
011	01Nov2029	7,678,660.00	8,350,000.00	1.67000
012	01May2030	7,678,660.00	8,350,000.00	1.67000
013	01Nov2030	7,678,660.00	8,350,000.00	1.67000
014	01May2031	7,678,660.00	8,350,000.00	1.67000
015	01Nov2031	7,678,660.00	8,350,000.00	1.67000
016	01May2032	7,678,660.00	8,350,000.00	1.67000
017	01Nov2032	7,678,660.00	8,350,000.00	1.67000
018	01May2033	7,678,660.00	8,350,000.00	1.67000
019	01Nov2033	7,678,660.00	8,350,000.00	1.67000
020	01May2034	7,678,660.00	8,350,000.00	1.67000
021	01Nov2034	7,678,660.00	8,350,000.00	1.67000
022	01May2035	7,678,660.00	8,350,000.00	1.67000
023	01Nov2035	7,678,660.00	8,350,000.00	1.67000
024	01May2036	7,678,660.00	8,350,000.00	1.67000
025	01Nov2036	7,678,660.00	8,350,000.00	1.67000
026	01May2037	7,678,660.00	8,350,000.00	1.67000
027	01Nov2037	7,678,660.00	8,350,000.00	1.67000
028	01May2038	7,678,660.00	8,350,000.00	1.67000
029	01Nov2038	7,678,660.00	8,350,000.00	1.67000
030	01May2039	7,678,660.00	8,350,000.00	1.67000
031	01Nov2039	7,678,660.00	8,350,000.00	1.67000
032	01May2040	7,678,660.00	8,350,000.00	1.67000
033	01Nov2040	7,678,660.00	8,350,000.00	1.67000
034	01May2041	7,678,660.00	8,350,000.00	1.67000
035	01Nov2041	7,678,660.00	8,350,000.00	1.67000
036	01May2042	7,678,660.00	8,350,000.00	1.67000
037	01Nov2042	7,678,660.00	8,350,000.00	1.67000
038	01May2044	7,678,660.00	8,350,000.00	1.67000



**স্বাক্ষরিত**  
 বাংলাদেশ সরকার (স্বাক্ষরিত)  
 বাংলাদেশ সরকার (স্বাক্ষরিত)

**598**  
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 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

Repay No	Repay Dt	Repay Amt (EUR)	Repay Amt (USD)	Repay Fg
039	01Nov2043	7,678,660.00	8,330,900.00	1,67000
040	01May2044	7,678,660.00	8,330,000.00	1,67000
041	01Nov2044	7,678,660.00	8,330,000.00	1,67000
042	01May2045	7,678,660.00	8,330,000.00	1,67000
043	01Nov2045	7,678,660.00	8,330,000.00	1,67000
044	01May2046	7,678,660.00	8,330,000.00	1,67000
045	01Nov2046	7,678,660.00	8,330,000.00	1,67000
046	01May2047	7,678,660.00	8,330,000.00	1,67000
047	01Nov2047	7,678,660.00	8,330,000.00	1,67000
048	01May2048	7,678,660.00	8,330,000.00	1,67000
049	01Nov2048	7,678,660.00	8,330,000.00	1,67000
050	01May2049	7,678,660.00	8,330,000.00	1,67000
051	01Nov2049	7,678,660.00	8,330,000.00	1,67000
052	01May2050	7,678,660.00	8,330,000.00	1,67000
053	01Nov2050	7,678,660.00	8,330,000.00	1,67000
054	01May2051	7,678,660.00	8,330,000.00	1,67000
055	01Nov2051	7,678,660.00	8,330,000.00	1,67000
056	01May2052	7,678,660.00	8,330,000.00	1,67000
057	01Nov2052	7,678,660.00	8,330,000.00	1,67000
058	01May2053	7,678,660.00	8,330,000.00	1,67000
059	01Nov2053	7,678,660.00	8,330,000.00	1,67000
060	01May2054	6,759,040.00	7,359,080.00	1,47800
Total		439,800,000.00	500,000,000.00	100,000000

Sub Loan Average Repayment Maturity (A RM) 19.09  
 ARM Saving 0.91

*Amirul*  
 মহানগরী সেকেন্ডারী  
 সুরক্ষিত  
 বার্ষিক (০৫.৯৯৯) বা ৬ মাসের)

*ANISUR RAHMAN*  
 Director  
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## EXECUTIVE SUMMARY

### Introduction

The PRIDE project aims to promote private investment and job creation in economic zones and digital entrepreneurship in hi-tech parks. The project will spearhead the adoption and mainstreaming of green industrial park concepts in the implementation and development of economic zones in Bangladesh. The project will have four components:

**Component 1: Creating an enabling environment for private investment, sustainability & jobs:** The first component will finance technical assistance, goods and training to inform and implement institutional, regulatory and administrative reforms. It will strengthen BEZA's core competence in technical functions that would allow it to be a more effective partner to leading private investors; and embed resilience and sustainability concepts into its development of infrastructure and associated services.

**Component 2: Developing a greener and resilient BSMSN:** This component will support phased development of the BSMSN Green Industrial City based on the recently approved Master Plan for BSMSN. It will finance works, goods and technical assistance for three areas—BSMSN-2A (380 ha), BSMSN-2B (192 ha) and BSMSN-IMD (100-200 ha)—to help catalyze the development of state-of-the-art green economic zones and set an example for sustainable, resilient and environmentally sound industrial development in Bangladesh.

**Component 3: Creating a dynamic private market for serviced industrial land:** The third component will seek to catalyze the creation of a dynamic private market for serviced industrial land. This component will support strengthening of institutional capacity and compliance mechanisms and capital grant funding to crowd in private investment.

**Component 4: Strengthening The Digital Entrepreneurship and Innovation Ecosystem:** The fourth component will be implemented by BHTPA. It aims to strengthen the foundation of the digital entrepreneurship and innovation ecosystem in Bangladesh. It will create the country's largest agglomeration of IT and ITes companies and promote digital entrepreneurship more broadly among young professionals and women.

Out of the four components, the first three components will be implemented by Bangladesh Economic Zone Authority (BEZA) and the fourth one will be implemented by Bangladesh High-Tech Park Authority (BHTPA).

### Objectives of the ESA

The objectives of this study are to prepare an ESA report by updating the existing EIA and SIA of zone 2A and 2B (which were prepared during PSDSP following WB old safeguard policies) in line with the World Bank's Environmental and Social Framework (ESF) by updating the baseline information and taking into consideration the planned activities under PRIDE project. The ESA also includes an assessment of Institutional Capacity of BEZA to manage Environmental and social issues and provide key recommendations and inputs to the Environmental and Social Commitment Plan (ESCP)

This ESA covers all the activities and sub-projects to be implemented by BEZA for which the location and adequate information about the size and scale of the activities are known (some of the activities within 2A and 2B). However, it is important to mention that the detailed design of some of the large infrastructure such as CETP, sanitary landfill, construction of a biogas plant, waste sorting and material recovery facility (that have been included in this ESA) are not finalized yet. Once detailed designs of these sub-projects are available, the sub-project specific ESAs will be prepared. BEZA would hire independent consulting firms to prepare these sub-project specific ESAs based on detailed infrastructure designs.

### Regulatory Framework, Standards and Guidelines

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Ahmedur Rahman

Director, *Primary Report*

Govt. of the People's Republic of Bangladesh  
Prime Minister's Office

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ন্যাশনাল ইনস্টিটিউট অফ গার্মেন্টস অ্যান্ড টেক্সটাইল ইন্ডাস্ট্রি  
গার্মেন্টস বিভাগ (সহ সচিব)  
সি.বি.ই.সি. (সি.বি.ই.সি. অফিস)  
সি.বি.ই.সি. (সি.বি.ই.সি. অফিস)  
সি.বি.ই.সি. (সি.বি.ই.সি. অফিস)

The proposed PRIDE Project will be implemented in compliance with applicable environmental and social laws and regulations of the Government of Bangladesh (GoB). Relevant environmental and social regulations of GoB and policies, framework and standards of the World Bank have been reviewed and compared which was the basis of risk categorization of the project and assessment and management of environmental and social risks. The project consists of a number of infrastructures which fall under **Red Category**<sup>1</sup> as per GoB rules. Given the project's nature and scale, potential environmental and social risk and impacts, the capacity of the implementing agency to manage, implement and monitor the ESMP and the project context, the project has been categorized as "**High Risk**". Detailed screening of environmental and social risks and impacts were conducted following the similar screening process recommended in the BEZA ESMF.

### Project Description

**Project Location:** The Zone 2A & 2B is located at Mirsharai and Sonagazi Upazilas of Chattogram district. The existing BWDB embankment runs through the East side of the proposed location. The area is 12 Km west to Dhaka-Chattogram National Highway and 60km North to Chattogram City.

**Influence Area of Zone 2A & 2B:** Although the project area for this ESA study is confined in zone 2A & 2B, a 10 km buffer zone area around the proposed site has been considered as the project influence area. Some of the impacts such as social issues might cover even bigger geographical area. These issues will be identified in the RESEA. The overall socio-economic benefits will reach out to other parts of the country as labourers will be coming to EZs from across the country.

**Interventions considered for this ESA under PRIDE:** Among the four main components of the PRIDE project, the World Bank will support BEZA in the execution of the several sub-projects which have been described briefly in **section 3.5** and **Table 3-2** of ESA main report. This ESA has been prepared for the following activities for in 2A and 2B:

- Sub-project A.1: Construction of arterial and non-arterial roads, footpath and plot entry culvert.
- Sub-project A.2: Construction of integrated stormwater management network
- Sub-project A.3: Water supply network
- Sub-project A.4: Site upgradation
- Sub-project A.5: Construction of telecommunication network
- Sub-project A.6: Construction of some key public buildings and facilities
- Sub-project A.7: Construction of Internal Power Distribution Network
- Sub-project B.1: Construction of a Common effluent treatment plant (CETP)
- Sub-project B.5: Development of a landfill site for solid waste generated
- Sub-project B.6: Construction of a biogas plant

### Environmental and Social Baseline

#### Environmental Baseline

Mirsharai Upazila in Chattogram District where the project site is located falls in the exposed coastal zone. The project area lies in the South-Eastern climate zone of the country and shows three main seasons. The Southwest Monsoon lasts from May to October with a 90% of the annual rainfall and high humidity. The annual average rainfall is 3419mm. The Northeast Monsoon lasts from November to March. The hottest season extends from late March to May. The average maximum and minimum temperature is 36°C and 7.5°C, respectively. Overall air quality of the area is good with most of the parameters within the Bangladesh Standard though the SPM<sub>10</sub> and PM<sub>2.5</sub> values in the 2A and 2B were found above the standard values mostly due to some ongoing works. Major water bodies in and around the study area are Feni River, Ichakhali khal, Daborkhali khal and Bamon Sundar khal.



<sup>1</sup> As per schedule-1 of ECR-97

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স্বরাষ্ট্র মন্ত্রণালয় (সি.এ.বি.সি.)

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স্বরাষ্ট্র মন্ত্রণালয় (সি.এ.বি.সি.)  
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Ichakhali khal passes through the proposed location. Most of the water quality parameters of these waterbodies exceed standard value. Shallow aquifer exists at a depth of about 50m and water is mostly saline with some sweet water pocket. Depth of the main aquifer is not precisely known. From ground water quality analysis, it is evident that water of deep aquifer (confined) is of good quality. The project area is free from tidal flooding due to the recent site development work. Moreover, the area will be protected by a super dyke from storm surges, part of which is being constructed under the current PSDS project for site 2A and 2B. Within the project site, there is natural drainage system channel is finally drained into the sea. Pollution prevention measures would be in place to prevent water pollution during the construction phase. Main pollution concern would be during the operation phase for which the ESIA proposes that each industry owner would prepare ESIA to be reviewed by BEZA. BEZA would also need to prepare guidelines for operation of these industries. From the measured noise level, it was found that most of measured ambient noise levels were below 60 dBA. Zone 2A and 2B completely comprise of developed land. The soil of Zone 2A and 2B is non-saline, slightly alkaline and organic content is very low (0.2%). Among heavy metals, Cadmium is absent whereas Nickel and Chromium content are 9.507 ppm and 8.1631 ppm respectively in the soil of Zone 2A and 2B. The proposed area falls under seismic Zone-II on the earthquake map which means that earthquake load should be taken care into consideration in designing the infrastructure. There is no ecologically sensitive area or biological hotspot in or around the proposed location. Major land use in the study area comprises of low depth ponds used for aquaculture and agriculture. There are no ecosystem services in 2A & 2B area except some water bodies which is used by the local people for occasional fishing purposes.

#### Social Baseline

Administratively, Zone 2A and Zone 2B is mostly located within the Mirsharai upazila. Project adjacent unions of Mirsharai Upazila are Ichakhali, Mogadia & Saherkhali. According to the Census 2011 report, the total population in Ichakhali Union is, Moghadia Union, Saherkhali Union and Mirsharai upazila are 27,980, 23405, 16912 and 3,98,716 respectively. The religion of almost 85 percent of the population is Islam. According to "Population and Housing census 2011, Community report: Chittagong, BBS", main occupation in area is agriculture.

There is no historical, cultural and archaeological site within 2A & 2B Zones. As both 2A and 2B are being developed now under PSDSP, PRIDE project will not have negative social impacts as sites are encumbrance free. However, influx of labour and construction activities may pose risks for community health and safety due to noise and dust pollution and security of women and girls. Moreover, potential conflicts may arise between local communities and migrant workers.

#### Environmental and Social Impacts

PRIDE would support some basic infrastructure in zone 2A and 2B. It would also support some common and shared facilities such as central effluent treatment plant (CTEP), sanitary landfill for solid waste management, construction of bio gas plant, etc. to dispose and treat the liquid and solid waste during the operation phase. However, these infrastructures would have various impacts during the construction and operation phase which also should be taken into consideration. The potential environmental and social impacts from the project activities during construction and operation phase has been summarized below:

#### ES&S risks and impacts on Disadvantaged and Vulnerable persons: ESS 1

The project site is mostly reclaimed area and there is no human settlement within 2A & 2B area. This is low lying land next to the Bay of Bengal which is either inundated or threatened by water on a seasonal basis. The land has been filled gradually over the years because of the natural detritic sedimentation process. This area is not a natural wetland habitat. No vulnerable or disadvantaged group were identified whom might be adversely affected by the project activities.



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**ES&S risks on labour and working conditions: ESS 2**

BEZA shall contract agencies to undertake civil works, agencies/firms to support core-functions; may need primary suppliers of material/equipment and other implementation support partners. Project workers would include Direct workers, Contracted workers (including Migrant Workers) and may also include Primary supplier workers (those providing goods and materials outsourced by the contractor). Risks include: employment of child labour; non-payment of wages by employer; Non-payment of benefits (compensation, bonus, maternity benefits, etc.) by employer; discrimination in employment (e.g. abrupt termination of the employment, working conditions, wages or benefits etc.); possibility of gender-based violence; Health risks of labour relating to HIV/AIDS and other sexually transmitted diseases. The development of the Zone 2A and 2B will involve a range of activities that might possibly be unsafe to workers and the local community if measures or precautions are not taken. Considering the intensity of work, project location and types of activities that will be done for the proposed facilities, it seems without mitigation measures this project may carry high risk on the OHS. Taking into account the potential impact on GBV without mitigation measures, substantial risk is expected. The influx of workers to the community may cause impacts to community health and safety, especially an increase in prevalence of diseases and social conflict.

There would be issues related to labour during operation phase of the project. Operation of certain infrastructure such as CETP and sanitary landfill will likely have an impact on occupational health and safety for the personnel exposed during longer time periods to such activities.

**ES&S risks and impacts related to Resource Efficiency and Pollution Prevention: ESS 3**

Air quality will be affected at the Zone 2A and 2B project site and its approach road due to various construction activities and movement of vehicles carrying construction materials and machineries. The fuel of vehicles and construction machineries will also contribute to air pollution releasing hazardous air emissions such as: NOx, SO<sub>2</sub>, CO<sub>2</sub>, CO, PM<sub>2.5</sub>, PM<sub>10</sub> and SPM. Surface water quality might be contaminated due to the accidental spills/leaks at the storage areas of construction site. Construction activities in the vicinity of the canal bed (piling of building, excavation, concreting work), accidental spillage of hazardous chemicals like fuel oil and lubricant from the construction vehicles, improper storage and disposal of construction waste (debris and cement), solid and liquid waste from the worker's facilities may mix with rainfall water and it can accumulate on the adjacent river & canal bed through runoff. However, the extent of pollution would not be very high during construction phase. This is more important during operation phase. Recommended measures have been included in the ESMIP to cover both the phases.

Due to treatment of wastewater during operation phase, a substantial amount of sludge will be produced at drying bed of CETP. The soil might get contaminated due to mixing of leachate from sludge drying bed and also due to failure or leakage of effluent collection pipeline of CETP. Landfill leachates contain dissolved ingredients resulting from the degradation of the disposed waste. It also can contain some suspended solids, including pathogens. If collection and treatment are not done properly (without impermeable layer at bottom), leachate can spread from the landfill and contaminate surface water and ground water.

**ES&S risks and impacts related to Community Health and Safety: ESS 4**

The local community near Zone 2A and 2B site will not to be impacted by the proposed onsite construction activities since there is no residence adjacent to the project site. However, offsite infrastructure such as accesses road i.e. Sheikh Hasina avenue (from Dhaka-Chattogram Highway to project site) is permitting movement of construction vehicles for the transportation of construction materials at the project site. Considering the project nature and extent of work, significance of impact or risk on the community health and safety can be assessed to be moderate. Potential impact



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of significance is considered to be moderate for utilities and traffic. The project activities will generate both solid non-hazardous and hazardous wastes throughout the construction and Operational phase.

**E&S risks and impacts on Land & Assets: ESS 5**

No Resettlement and rehabilitation or land acquisition is needed for Zone 2A and 2B development as per current study. As the land has already been secured under PSDSP, no physical and economic displacement is anticipated.

**E&S risks and impacts related to Bio-diversity & Living Natural Resources: ESS 6**

There are no critical ecological zones or any bio-diversity hotspot in and around the project area including the marine area near the coast which might be negatively impacted by the project activities. However, construction activities may have negative impact on aquatic ecosystems by increasing sediment loading of streams and changes in turbidity. There is no major provisioning ecosystem service available in 2A & 2B area except some water bodies which are used by the local people for occasional fishing purposes.

**E&S risks and impacts related to Indigenous People/Small Ethnic Minorities: ESS7**

There is no ethnic minority adjacent to the Zone 2A and 2B project site. Also, as mentioned earlier, the land is mainly recently silted reclaimed area, there is no group with collective attachment to the land.

**E&S risks and impacts related to Cultural Heritage: ESS8**

Based on the field survey and discussion with local people and review of related literatures, its recorded that there are no physical cultural resources.

**Environmental and Social Management Plan (ESMP)**

An ESMP has been prepared to mitigate Project's environmental and social risks and impacts. It includes mitigation measures, monitoring plan, capacity building, responsibilities and reporting system and budget. The activity wise anticipated environmental and social impacts and corresponding mitigation measures have been outlined in Table 8-1 of the ESA Main report.

Compliance monitoring will be conducted in accordance with the environmental and social mitigation measures and monitoring plan provided in Chapter 8 of ESA main report. Several physical, biological and social components which are of particular significance to the proposed project are listed as monitoring indicators. These indicators will be evaluated periodically based on the monitoring results, baseline conditions, predicted impacts and mitigation measures.

In addition, a Labour Management Procedure has been developed in conformity with the requirements of the International practice provided in the ESF to deal with labour influx and to ensure safe and healthy working conditions, and a comfortable environment for migrant labourers.

**Institutional Capacity Assessment and Implementation Arrangement**

BEZA is currently implementing the World Bank financed PSDS project and is familiar with the World Bank's old safeguard policies. However, World Bank's ESF is new to them. An assessment of institutional capacity identified lack of adequate human resources, lack of operational manual and policy/ procedure and adequate financial resources to comply with the requirements of ESF. For proper assessment and management of the E&S risks, BEZA would be required to appoint Environmental, Social Development and Gender Specialists in the PMU to facilitate undertaking ESIMs/ESAs of various sub-projects as per ESMP and monitor implementation of ESMP. BEZA also needs to ensure adequate Environmental and Social development specialists in the Project



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Monitoring Consultant (PMC). Moreover, long term sustainable solution to manage environmental and social risks and impacts of projects, capacity building activities need to be included in the project design. A permanent E&S unit should be set up in BEZA with adequate number of specialists to oversee implementation of ESM&P and ESCP during the project period and co-ordinate all the E&S activities during operation phase.

Necessary operational manual, ES policies and procedures also have to be prepared and implemented by BEZA for long term sustainability of their ES capacity such as trainings on: ESSs, occupational health and safety, labour and working conditions, grievance redress mechanism, construction waste management and gender based violence risks.

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শাহ আলী হোসেন  
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বিদ্যুৎ সঞ্চালনা কর্তৃপক্ষ

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Director  
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Govt. of the People's Republic of Bangladesh



Government of the People's Republic of Bangladesh  
**Department of Environment**  
 Head Office, Paribesh Bhaban  
 E-16 Agargaon, Dhaka-1207  
[www.doe.gov.bd](http://www.doe.gov.bd)

Memo No : DoE/Clearance/5577/2016/ 501

Date: 03/11/2016

**Subject: Approval of Environmental Impact Assessment (EIA) Report for Proposed Mirsarai-2 Economic Zone Project at Mirsarai Upazila under Chittagong district.**

**Ref:** Your Application dated 19/09/2016 and 27/10/2016.

With reference to the above, the Department of Environment (DOE) is pleased to approve Environmental Impact Assessment (EIA) Report for Mirsarai-2 Economic Zone Project at Mirsarai Upazila under Chittagong district. This approval authorizes and regulates the following activities:

1. This Environmental Impact Assessment (EIA) report is approved only for construction of Mirsarai-2 Economic Zone Project. Any expansion or extension of this project will require obtaining further EIA approval with additional EIA Study.
2. The detail design and layout plan should be maintained as per EIA report. In case of any changes in design the proponent must obtain consent from DoE.
3. Project Proponent may undertake activities for land development and infrastructural development of the project.
4. Project Proponent may open L/C (Letter of Credit) for importing machineries for the project which shall also include machineries relating to waste treatment plant and other pollution control devices.
5. The activity under construction of Mirsarai-2 Economic Zone Project shall not release any pollutant that affect human health or will have damaging impact on the environment or natural resources or ecosystem.
6. Proper and adequate mitigation measures shall be ensured throughout preparation and construction period of the proposed Mirsarai-2 Economic Zone Project activities.
7. Any heritage sight, ecologically critical area, wetlands and other environmentally, religious and archeologically sensitive places shall be kept protected.
8. Environment friendly construction and development practices shall be followed that minimize loss of habitats and fish breeding, feeding & nursery sites.
9. Construction works shall be restricted to day time hours so as to avoid/mitigate the disturbance of local lives as well as implementation schedules of the works shall be notified in advance to nearby residents.
10. Proper and adequate sanitation facilities shall be ensured in labor camps throughout the proposed project period.
11. In order to control noise pollution, vehicles & equipment shall undergo regular maintenance; working during sensitive hours and locating machinery close to sensitive receptor shall be avoided.



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 (স্বাক্ষর ও সীলন)

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 Director  
 Prime Minister's Office  
 Secy. of the People's Republic of Bangladesh

12. No solid waste can be burnt in the project area. An environment friendly solid waste management system should be in place during the whole period of the project in the field.
13. Proper and adequate on-site precautionary measures and safety measures shall be ensured so that no habitat of any flora and fauna would be endangered or destructed.
14. All the required mitigation measures suggested in the EIA report along with the emergency response plan are to be strictly implemented and kept operative/functioning on a continuous basis.
15. To control dust, spraying of water over the earthen materials should be carried out from time to time.
16. Storage area for soils and other construction materials shall be carefully selected to avoid disturbance of the natural drainage.
17. Adequate considerations should be given to facilitate drainage system for run off water from rainfall/surge.
18. Adequate facilities should be ensured for silt trap to avoid clogging of drain/canal/water bodies.
19. There should be adequate and properly designed Central Effluent Treatment Plant (CETP) and Sewage Treatment Plant (STP).
20. Resettlement plan should be properly implemented and people should be adequately compensated.
21. Construction material should be properly disposed off after the construction work is over.
22. As described in the EIA report, environmental monitoring should be strictly followed and monitoring report should be shared with DOE to ensure the environmental management properly.
23. All activities (pre-construction, construction and post-construction stage) should be implemented according to EMP clearly listed in the EIA report.
24. A third party/independent monitoring bodies excluding project authority should be engaged immediately for monitoring of all the activities during pre-construction, construction and post construction phases as per monitoring plan of EIA report and monitoring report must be submitted to Chittagong District Office, Chittagong Divisional Office and Headquarters of the Department of Environment simultaneously.
25. Regular monitoring of the susceptible places of surroundings for protecting ecosystem, biodiversity and forest coverage should be made using latest high resolution image for keeping ambient environment protected.
26. Air, water, soil, biological and social data should be monitored regularly with a network monitoring system with a view to assess the natural quality of the surroundings and other fragile ecosystem and report of monitoring results should be submitted to Chittagong District Office, Chittagong Divisional Office and Headquarters of the Department of Environment simultaneously.
27. There should be regularly disclosure of the report through workshops and websites and responses should be taken care accordingly.
28. Online air and water quality monitoring system should be made functional throughout the life of the project.
29. Management Information System (MIS) are to be developed for this project. The scope of MIS services will obviously include representing the real time monitored data especially environmental parameters displaying at Chittagong District Office, Chittagong Divisional Office and Headquarters of the Department of Environment, project office and other agencies/Ministries concerned. The MIS should be web based for accessing every individual to show the real time monitored records.

Director  
Prime Minister's Office  
Govt. of the People's Republic of Bangladesh

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02/04/20  
সচিব (প্রোগ্রামিং ও পরিচালনা)  
প্রকল্প পরিচালনা (সি. এ. এ.)  
গণপ্রজাতন্ত্রী বাংলাদেশ  
শ্রমিক মন্ত্রণালয়  
বন, পরিবেশ ও কৃষি মন্ত্রণালয়  
চট্টগ্রাম বিভাগীয় কার্যালয়



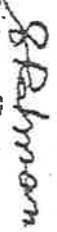
46. A full-fledged institutional setup for Environment, Health & Safety (EHS) and Corporate Social Responsibility (CSR) must be put in place before operation of the project.
47. The project authority shall extend active cooperation to DOE officials to facilitate their visit to the site as and when necessary.
48. Violation of any of the above conditions shall render this approval void.
49. Any injunction on this project from the Honourable High Court Division or Appellate Division of the Supreme Court shall render this approval void.
50. Without installation of Central Effluent Treatment Plant (CETP), Sewage Treatment Plant (STP), online air and water quality monitoring system and other pollution control equipment and obtaining Environmental Clearance Certificate the proponent shall not start operation of the project.
51. This EIA approval has been issued with the approval of the appropriate authority.

  
 09.11.2016  
 Director (Environmental Clearance, c/c)  
 Phone # 02-8181673

**Project Director**  
 Mirsari-2 Economic Zone  
 Support to Capacity Building of Bangladesh  
 Economic Zones Authority Project  
 Bangladesh Economic Zones Authority (BEZA)  
 BDHL Bhaban, Level # 15  
 12, Kawran Bazar, Dhaka-1215.

**Copy Forwarded to :**

- 1) PS to Secretary, Ministry of Environment and Forests, Bangladesh Secretariat, Dhaka.
- 2) Director, Department of Environment, Chittagong Divisional Office, Chittagong.
- 3) Deputy Director/Office in-charge, Department of Environment, Chittagong District Office, Chittagong.
- 4) Assistant Director, Office of the Director General, Department of Environment, Head Office, Dhaka.

  
 Anisur Rahman  
 Director  
 Prime Ministers Office  
 Govt. of the People's Republic of Bangladesh

  
 মন্ত্রণালয় সেক্রেটারী  
 মুকেশ্বর  
 শাহবাগ (১২ নং ওয়ার্ড) ঢাকা

  
 সচিব, পরিবেশ, বন ও জলবায়ু  
 সচিবালয় (১২ নং ওয়ার্ড)  
 শাহবাগ, ঢাকা



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Government of the People's Republic of Bangladesh  
 Department of Environment  
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 E-16 Agargaon, Dhaka-1207

DPD/ES/FMS  
 2/11/15

Memo No : DoE/Clearance/5341/2014/ 565

Date: 26/11/2015

**Subject: Approval of Environmental Impact Assessment (EIA) Report for Proposed Mirershorai Economic Zone Project at Mirershorai Upazila under Chittagong district.**

**Ref: Your Application dated 25/08/2015 and 15/11/2015.**

With reference to the above, the Department of Environment (DOE) is pleased to approve Environmental Impact Assessment (EIA) Report for Mirershorai Economic Zone Project at Mirershorai Upazila under Chittagong district. This approval authorizes and regulates the following activities:

1. This Environmental Impact Assessment (EIA) report is approved only for construction of Mirershorai Economic Zone Project. Any expansion or extension of this project will require obtaining further EIA approval with additional EIA Study.
2. The detail design and layout plan should be maintained as per EIA report. In case of any changes in design the proponent must obtain consent from DoE.
3. Project Proponent may undertake activities for land development and infrastructural development of the project.
4. Project Proponent may open L/C (Letter of Credit) for importing machineries for the project which shall also include machineries relating to waste treatment plant and other pollution control devices.
5. The activity under construction of Mirershorai Economic Zone Project shall not release any pollutant that affect human health or will have damaging impact on the environment or natural resources or ecosystem.
6. Proper and adequate mitigation measures shall be ensured throughout preparation and construction period of the proposed Mirershorai Economic Zone Project activities.
7. Any heritage sight, ecologically critical area, and other environmentally, religious and archeologically sensitive places shall be kept protected during project construction phase.
8. Environment friendly construction and development practices shall be followed that minimize loss of habitats and fish breeding, feeding & nursery sites.
9. Construction works shall be restricted to day time hours so as to avoid/mitigate the disturbance of local lives as well as implementation schedules of the works shall be notified in advance to nearby residents.
10. Proper and adequate sanitation facilities shall be ensured in labor camps throughout the proposed project period.
11. In order to control noise pollution, vehicles & equipment shall undergo regular maintenance; working during sensitive hours and locating machinery close to sensitive receptor shall be avoided.



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 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh  
 Director AHISUR Rahman

12. No solid waste can be burnt in the project area. An environment friendly solid waste management system should be in place during the whole period of the project in the field.
13. Proper and adequate on-site precautionary measures and safety measures shall be ensured so that no habitat of any flora and fauna would be endangered or destructed.
14. All the required mitigation measures suggested in the EIA report along with the emergency response plan are to be strictly implemented and kept operative/functioning on a continuous basis.
15. To control dust, spraying of water over the earthen materials should be carried out from time to time.
16. Storage area for soils and other construction materials shall be carefully selected to avoid disturbance of the natural drainage.
17. Adequate considerations should be given to facilitate drainage system for run off water from rain/tidal surge.
18. Adequate facilities should be ensured for silt trap to avoid clogging of drain/canal/water bodies.
19. There should be adequate and properly designed Central Effluent Treatment Plant (CETP) and Sewage Treatment Plant (STP).
20. Resettlement plan should be properly implemented and people should be adequately compensated.
21. Construction material should be properly disposed off after the construction work is over.
22. As described in the EIA report, environmental monitoring should be strictly followed and monitoring report should be shared with DOE to ensure the environmental management properly.
23. All activities (pre-construction, construction and post-construction stage) should be implemented according to EMP clearly listed in the EIA report.
24. A third party/independent monitoring bodies excluding project authority should be engaged immediately for monitoring of all the activities during pre construction, construction and post construction phases as per monitoring plan of EIA report and monitoring report must be submitted to Chittagong District Office, Chittagong Divisional Office and Headquarters of the Department of Environment simultaneously.
25. Regular monitoring of the susceptible places of surroundings for protecting ecosystem, biodiversity and forest coverage should be made using latest high resolution image for keeping ambient environment protected.
26. Air, water, soil, biological and social data should be monitored regularly with a network monitoring system with a view to assess the natural quality of the surroundings and other fragile ecosystem and report of monitoring results should be submitted to Chittagong District Office, Chittagong Divisional Office and Headquarters of the Department of Environment simultaneously.
27. There should be regularly disclosure of the report through workshops and websites and responses should be taken care accordingly.
28. Online air and water quality monitoring system should be made functional throughout the life of the project.
29. Management Information System (MIS) are to be developed for this project. The scope of MIS services will obviously include representing the real time monitored data especially environmental parameters displaying at Chittagong District Office, Chittagong Divisional Office and Headquarters of the Department of Environment, project office and other agencies/Ministries concerned. The MIS should be web based for accessing every individual to show the real time monitored records.



স্বাক্ষরিত  
 পরিচালক  
 পরিবেশ (সি. ডি. এ. অফিস)

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 Prime Minister's Office  
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 পরিবেশ (সি. ডি. এ. অফিস)  
 প্রকল্প পরিচালনা, চিত্রাগঞ্জ

30. The project authority should provide all sort of logistics support to DOE and other relevant agencies for monitoring environment related items/events
31. Conduct stakeholder meetings on regular basis for better performance the project as a whole
32. Additional environmental baseline data to be collected as suggested in the EIA report and conveyed to DOE and other authorities concerned.
33. The Environmental Management Plan under the EIA study shall strictly be implemented and kept functioning on a continuous basis.
34. The project authority shall submit a detail work plan with time schedule of development activities at least 7 (seven) days ahead of the work commences in the field to the Chittagong District Office, Chittagong Divisional Office and Headquarters of the Department of Environment simultaneously.
35. Environmental Monitoring Reports according to specific format specified in the EIA Report shall be made available simultaneously to DOE Chittagong District Office, Chittagong Divisional Office and Headquarters on a quarterly basis during the construction period of the project.
36. The following records must be kept in respect of any samples required to be collected for the purposes of environmental monitoring activities :
  - (a) the date(s) on which the sample was taken;
  - (b) the time(s) at which the sample was collected;
  - (c) the point at which the sample was taken; and
  - (d) the name of the person who collected the sample.
37. The results of any monitoring required to be conducted under this EIA report must be recorded.
38. In case of any emergency, the following information shall immediately be reported to Chittagong District Office, Chittagong Divisional office and Headquarters of the Department of Environment (DOE) simultaneously
  - a) Nature of incident (fire, accident, collision, land slide etc.)
  - b) Personnel affected (injured, missing, fatalities, etc.)
  - c) Emergency support available and its location (standby transport, medical facilities, etc.)
  - d) Weather conditions
  - e) Current operations (abandoning the site, fire fighting, etc.)
39. The project authority or its employees must notify the Department of Environment of incidents causing or threatening material harm to the environment as soon as practicable after the person becomes aware of the incident.
40. All pollution incidents shall be reported immediately and simultaneously to the Chittagong District Office, Chittagong Divisional Office and Headquarters of the Department of Environment (DOE) in Dhaka.
41. Appropriate permission would require to be obtained from the Forest Department in favor of cutting/felling of any plant/tree/sapling forested by any individual or government before doing such type of activity.
42. No activity of cutting/razing/ dressing of hill or hilly land is endorsed under this approval without due permission/clearance of the concerned authority of the Government of Bangladesh.
43. Re-vegetation and replantation under green belt activities shall be undertaken in consultation with the Forest Department according to those mentioned in the EIA report.
44. Climate Change impacts and maximum storm surge height (if necessary) shall have to be considered at the design and construction phase.
45. A separate hydrological study shall have to be conducted for ground water extraction to develop sound environmental management plan.



3/4

*[Handwritten signature]*  
 প্রকল্প পরিচালক (প্রকল্প পরিচালনা কার্যালয়, চট্টগ্রাম)  
 স্বরাষ্ট্র মন্ত্রণালয়, বাংলাদেশ

*[Handwritten signature]*  
 ANISUR RAHMAN  
 Director,  
 Govt. of the People's Republic of Bangladesh

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46. A full-fledged institutional setup for Environment, Health & Safety (EHS) and Corporate Social Responsibility (CSR) must be put in place before operation of the project.
47. The project authority shall extend active cooperation to DOE officials to facilitate their visit to the site as and when necessary.
48. Violation of any of the above conditions shall render this approval void.
49. Any injunction on this project from the Honourable High Court Division or Appellate Division of the Supreme Court shall render this approval void.
50. Without installation of Central Effluent Treatment Plant (CETP), Sewage Treatment Plant (STP), online air and water quality monitoring system and other pollution control equipment and obtaining Environmental Clearance Certificate the proponent shall not start operation of the project.
51. This EIA approval has been issued with the approval of the appropriate authority.

*[Signature]*  
26.11.2015

(Syed Nazmul Ahsan)  
Director (Environmental Clearance, c.c)  
Phone # 02-8181778

**Project Director**  
Miershorai Economic Zone  
Support to Capacity Building of Bangladesh  
Economic Zones Authority Project  
Bangladesh Economic Zones Authority (BEZA)  
BD/1. Bhaban, Level # 15  
12, Kawran Bazar, Dhaka-1215.

**Copy Forwarded to :**

- 1) PS to Secretary, Ministry of Environment and Forests, Bangladesh Secretariat, Dhaka.
- 2) Director, Department of Environment, Chittagong Divisional Office, Chittagong.
- 3) Deputy Director/Office in-charge, Department of Environment, Chittagong District Office, Chittagong.
- 4) Assistant Director, Office of the Director General, Department of Environment, Head Office, Dhaka.

*[Signature]*  
মহাপরিচালক (স্বাস্থ্য)  
কুমিল্লা  
২৬.১১.১৫



*[Signature]*  
Atisur Rahman  
Director  
Prime Minister's Office  
Gov. of the People's Republic of Bangladesh

*[Signature]*  
স্বাস্থ্য বিভাগ  
কুমিল্লা  
২৬.১১.১৫

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অয়েরী নংঃ **১৪০৮**  
তারিখঃ **২৪/০৫/২০২০**

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার  
ঐক্যমন্ত্রীর কার্যালয়  
পুরাতন সংসদ ভবন, ঢাকা।



শেখ মুজিব  
১৯২০-২০২০

পত্র সংখ্যা: ০১.০২.০০০০.০৬৮.০১৪.০৮.২০. **৫০৪**

**৫০৪**

১৪/০৫/২০২০	তারিখ
	১২ সেপ্টেম্বর, ২০২০ খ্রি.

৭ আশ্বিন, ১৪২৭ ব.  
১২ সেপ্টেম্বর, ২০২০ খ্রি.

বিষয় : "Private Investment and Digital Entrepreneurship (PRIDE) for BEZA Project" শীর্ষক প্রকল্পের প্রাক্কলিত অর্থের (জিওবি অর্থ) উপর প্রস্তাবিত বার্ষিক ১% হার সুদে ঋণ মঞ্জুরের বিষয়ে অর্থ বিভাগের অনাপত্তি/সম্মতি প্রদান।

সূত্র : অর্থ বিভাগের ১৪/০৫/২০২০ তারিখের ০৭.২০৫.০৩.০১.০৩.২০২০-১১১ নং স্মারক

উপযুক্ত বিষয়ে মূল্যে পত্রের পরিপ্রেক্ষিতে বাংলাদেশ অর্থনৈতিক অঞ্চল কর্তৃপক্ষ (বেজা) কর্তৃক বাস্তবায়নের জন্য "Private Investment and Digital Entrepreneurship (PRIDE) for BEZA Project" শীর্ষক প্রকল্পের প্রাক্কলিত অর্থের জিওবি অংশে ৩৮৬২৭.০০ লক্ষ (তিনশত ছিয়ান্নিশি কোটি সাতাশ লক্ষ) টাকার উপর প্রস্তাবিত বার্ষিক ১% হার সুদে ঋণ মঞ্জুরের বিষয়ে অর্থ বিভাগের অনাপত্তি/সম্মতি পত্রের জায়গাখিঁচি নির্দেশক্রমে এশাখে প্রেরণ করা হলো।

সংযুক্তিঃ বর্ণনামতে।

ফোনঃ ৫৫০২৯৪২১  
E-mail: [dir1@pmo.gov.bd](mailto:dir1@pmo.gov.bd)

**১৪/০৫/২০২০**  
(আনিপুর রহমান)  
পরিচালক-১

নিরাবহী চেয়ারম্যান  
বাংলাদেশ অর্থনৈতিক অঞ্চল কর্তৃপক্ষ  
মোমেন বিজনেস ডিক্লিউর, লেজেল-১২  
১১১, বীর উত্তম, সি.আর.দত্ত রোড  
ঢাকা-১২০৫।



**১২/৫**  
নসামুদ্দীন বেবলাখ  
মুদ্রাভিগ্ন  
কার্যালয় (কোর্টর ওর ও ফেলো)

**Anisur Rahman**  
Director  
Prime Minister's Office  
Govt. of the People's Republic of Bangladesh



নং ০৭.১০৫.০৩২.০৩.০৩.২০২০-১১১

তারিখ: ৩০ আদ্ব ১৪২৭ ব.  
১৪ সেপ্টেম্বর ২০২০ খ্রি.

বিষয়: "Private Investment and Digital Entrepreneurship (PRIDE) for BEZA Project" শীর্ষক প্রকল্পের প্রাক্কলিত অর্থের (জিওবি অর্থ) উপর প্রত্যাভিত বার্ষিক ১% হার সুদে ঋণ মঞ্জুরের বিষয়ে অর্থ বিভাগের অনাপত্তি/সম্মতি প্রদান।

সূত্র: প্রধানমন্ত্রীর কার্যালয়ের পত্র নম্বর ০৩.০০১.০০০০.০৬৮.০১৪.১০.২০-৩৪৬ তারিখ: ০৫/০৭/২০২০ খ্রি.

উপর্যুক্ত বিষয় ও সূত্রস্থ সারকের প্রেক্ষিতে প্রধানমন্ত্রীর কার্যালয়ের অধীন বাংলাদেশ অর্থনৈতিক অঞ্চল কর্তৃপক্ষ কর্তৃক বাস্তবায়নের জন্য "Private Investment and Digital Entrepreneurship (PRIDE) for BEZA" শীর্ষক প্রকল্পের প্রাক্কলিত অর্থের জিওবি অংশে ৩৬৬২৭.০০ লক্ষ (তিনপাত ছিয়াশি কোটি সাতাশ লক্ষ) টাকার উপর প্রত্যাভিত বার্ষিক ১% হার সুদে ঋণ মঞ্জুরের বিষয়ে নিম্নে বর্ণিত শর্তে নির্দেশক্রমে অনাপত্তি/সম্মতি জ্ঞাপন করা হলো:

- ব্যয়দ্রুত অর্থ বাংলাদেশ অর্থনৈতিক অঞ্চল কর্তৃপক্ষ এর অনুকূলে সুদযুক্ত সরকারি ঋণ হিসেবে গণ্য হবে এবং এ ঋণের সুদের হার হবে ১ (এক) শতাংশ;
- এ ঋণ প্রদানের পূর্বে অর্থ বিভাগের সাথে ঋণ পরিশোধসূচি ও ঋণ পরিশোধের তথ্যবিলের বিবরণসহ একটি ঋণবৃত্তি স্বাক্ষর করতে হবে;
- ঋণবৃত্তি স্বাক্ষরের পর ০৫ (পাঁচ) বছরের গ্রেন্ড পিরিয়ডসহ ২০ বছরের বাৎসরিক সমান কিস্তিতে ঋণের অর্থ পরিশোধযোগ্য হবে;
- গ্রেন্ড পিরিয়ডকালীন সময়ে মূলধন বা সুদ পরিশোধ করতে হবে না; তবে, এ সময়ে মূলধনের উপর নির্দিষ্টকৃত হারের সুদ জমতে থাকবে (Accrue) এবং পরিশোধসূচি নির্ধারণে তা বিবেচনায় নিতে হবে;
- অনুমোদিত ঋণ বার্ষিক উন্নয়ন কর্মসূচির আওতায় বর্ণিত প্রকল্পের বিপরীতে বিতরণ করা হবে;
- বছরপ্রতি এজিপিভে বর্ণিত প্রকল্পের বিপরীতে অর্থ বিভাগ ও পরিকল্পনা কমিশনের সুপারিশকৃত/অনুমোদিত ব্যয়াদ্দের পরিমাণ অনুমোদিত মোট ঋণের বিতরণতর্য অংশ/কিস্তি হিসেবে বিবেচিত হবে এবং ডিপিপি/আয়ডিপিপি তে বর্ণিত বাস্তবায়ন সময় বিবেচনায় বিতরণের কিস্তি সংখ্যা নির্ধারিত হবে;
- বেজা'র বার্ষিক আর্থিক বিবরণীতে দায় হিসেবে গৃহীত ঋণের পরিমাণ প্রদর্শন করতে হবে এবং বিবরণীর কপি অর্থবছরের শুরুর্তে অর্থ বিভাগে প্রেরণ করতে হবে।

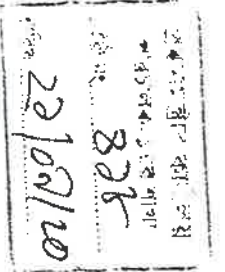
০৫/০৭/২০২০



Anisur Rahman  
Director  
Prime Minister's Office  
Govt. of the People's Republic of Bangladesh

(মোঃ তাজুল ইসলাম)  
সিনিয়র সফটওয়্যার সচিব  
ফোন: ০২-৯৫৭৪০ ১৬

প্রধানমন্ত্রীর মুখা সচিব  
প্রধানমন্ত্রীর কার্যালয়  
তেজগাঁও, ঢাকা  
(দৃষ্টি আকর্ষণ: পরিচালক-১)  
অনুলিপি:  
(১) নির্বাহী চেয়ারম্যান, বেজা, আপুল মোমেদ বিজনেস ডিভিশন, ১১১ বীর উত্তম সি.আর দত্ত রোড, ঢাকা।  
(২) সদস্য, শিল্প ও শক্তি বিভাগ, পরিকল্পনা কমিশন, শেরেবাংলা নগর, ঢাকা।



৬১১

নয়াদিগন্ত সেবাসভা  
নয়াদিগন্ত  
নয়াদিগন্ত (সি.আর.এস.ও. মহলা)  
১১১ বীর উত্তম সি.আর.দত্ত রোড, ঢাকা

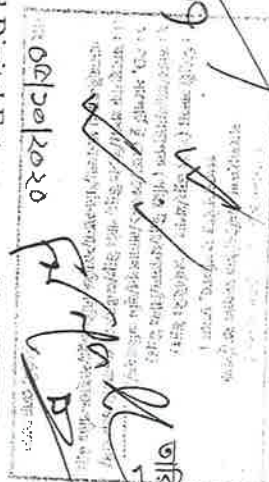
২১/০৭/২০

১১১ বীর উত্তম সি.আর.দত্ত রোড, ঢাকা



গণপ্রজাতন্ত্রী বাংলাদেশ সরকার  
প্রধানমন্ত্রীর কার্যালয়  
প্ৰাৰ্থন সংবাদ অবনতিচক।

তারিখ ১৩ অগস্টন ১৪২৭ নং  
১৮৮ মেসেজের ২০২০ খ্রিঃ



০৫/০৮/২০২০

০৫/০৮/২০২০

বিষয়ঃ "Private Investment and Digital Entrepreneurship (PRIDE) for BEZA Project" শীর্ষক  
প্রকল্পের পুনর্গঠিত ডিপিপি সংক্রান্ত।  
সূত্রঃ পরিকল্পনা কমিশনের ১৫/০৯/২০২০ তারিখের ২০.০৫.০০০০.৫৫২.১৪.০৩১.২০২০.১৩৫ নং স্মারক।

উপর্যুক্ত বিষয় ও সূত্র বর্ণিত পত্রের হায়ালিপি এসাথে প্রেরণপূর্বক পরিকল্পনা কমিশনের পর্যবেক্ষণের  
আলোকে ডিপিপি পুনর্গঠনপূর্বক জরুরী ভিত্তিতে প্রেরণের জন্য নির্দেশক্রমে অনুরোধ করা হলো।

৪৪/১৪/০৩/২০২০  
(আনিসুর রহমান)  
পরিচালক-১

ফোনঃ ৫৫০২৯৪২১

E-mail: [dir1@pmo.gov.bd](mailto:dir1@pmo.gov.bd)

নির্বাহী চেয়ারম্যান

বেজা

মোনেম বিজনেস ডিজিষ্ট্রি (লেভেল-১২)  
১১১ বীর উত্তম সি.আর দত্ত রোড, ঢাকা।



১১/১১/১৯  
মুহাম্মদ বেলাল  
মুহাম্মদ  
১১/১১/১৯  
১১/১১/১৯

Anisur Rahman  
Director  
Prime Minister's Office  
Gov. of the People's Republic of Bangladesh

616

১৫৪৮-৬৯৬  
 সিনিয়র সহকারী  
 প্রকল্প পরিচালক  
 প্রকল্প পরিচালক  
 প্রকল্প পরিচালক  
 প্রকল্প পরিচালক

৩১ জুলাই ২০২৭ বঙ্গাব্দ  
 ১৫ সেপ্টেম্বর, ২০২৩ খ্রিষ্টাব্দ  
 তারিখ:

বিষয়ঃ "Private Investment and Digital Entrepreneurship (PRIDE)"-শীর্ষক প্রকল্পের পুনর্শক্তিভিত্তিক জিপিপি সংক্রমণ।  
 প্রধানমন্ত্রীর কার্যালয়ের পত্র সংখ্যা: ০৩.০৯.০০০০.০৬৮.০১৪.১০.২০.৪৮০;তারিখ: ১০ সেপ্টেম্বর ২০২৩ খ্রিঃ

উপর্যুক্ত বিষয়ে সূত্রয় যারাকের মাধ্যমে "Private Investment and Digital Entrepreneurship (PRIDE)" শীর্ষক প্রকল্পের উপর গত ১৫/০৬/২০২০ তারিখে অনুষ্ঠিত পিইসি সভার আকিতে পুনর্শক্তিভিত্তিক জিপিপি পরবর্তী প্রয়োজনীয় ব্যবস্থা গ্রহণের জন্য প্রেরণ করা হয়েছে। গ্রাণ্ড জিপিপি পরীক্ষার পিইসি সভার সিদ্ধান্ত যথাযথভাবে প্রতিপালনের বিষয়ে পরিকল্পনা কমিশনের পর্যবেক্ষণ নিয়মণ:

পিইসি সভার সিদ্ধান্ত নং	পরিচয় সভার সিদ্ধান্ত	পরিচয় সভার সিদ্ধান্ত	পরিকল্পনা কমিশনের মতামত
৪২	<p>প্রকল্পের অক্ষয় অর্জনের জন্য বর্ণিত উদ্দেশ্যে আরও সুনির্দিষ্ট, পরিমাপযোগ্য, অর্জনযোগ্য, প্রাসংগিক ও সমাধানমূলকভাবে উপস্থাপন করতে হবে। একইভাবে মপ প্রকল্পেও সুনির্দিষ্ট, সমাধানমূলক ও পরিমাপযোগ্য উদ্যোগ উন্নয়ন করতে হবে। মপ প্রকল্পের ইনপুট ও আউটপুটের ক্ষেত্রে সুনির্দিষ্ট তথ্য প্রদানপূর্বক প্রকল্পের Goal হিসাবের National Goal অর্থাৎ চলমান ৭ম পঞ্চবার্ষিকী পরিকল্পনা/এসজিডি এবং আগের ৮-য় পঞ্চবার্ষিকী পরিকল্পনা অনুযায়ী Goal নির্ধারণ করতে হবে। এছাড়া, প্রস্তাবিত জিপিপির সাথে ২য় স্ট্রাটিক পেরিকল্পনা (২০২১-২০২৩), ৭ম পঞ্চবার্ষিকী পরিকল্পনা (২০২৬-২০২০)/এসজিডি এবং আগের ৮-য় পঞ্চবার্ষিকী পরিকল্পনা (২০২১-২০২৫)-এর সংশ্লিষ্টতা স্থাপনপূর্বক তা পুনর্গঠন করতে হবে;</p>	<p>Director  <b>Rahman</b>          Director's Office          Ministry of Planning          Bangladesh</p>	<p>পিইসি সভার সিদ্ধান্তটি যথাযথভাবে প্রতিফলিত হয়নি। জিপিপি পরীক্ষার ক্ষেত্রে দেখা যায় যে,          (ক) প্রকল্পের Main Objective বর্ণনায় Promoting Private Investment বিষয়টি উল্লেখ করতে হবে;          (খ) প্রকল্পের Main Objective এ Job Creation থাকলেও Specific Objective-এ তা উল্লেখ নেই। এটি জিপিপিতে উল্লেখ করতে হবে (স্মৃ: 3.0);          (গ) প্রকল্পে Outsourced Employee এর জন্য Compensation রাখার সুযোগ নেই, কারণ টেন্ডার নির্ধারিত উক্ত স্ট্রাটিক আর্টিকেলটি প্রকল্প থেকে বাদ দেয়া যেতে পারে (স্মৃ: 9.0);          (ঘ) 3231301 (iii) কোডে Voucher Program এর মাধ্যমে বিভিন্ন ধরনের কারিগরি প্রশিক্ষণ সম্পন্ন করার কথা হলেও কোন কোন Module এ কি কি প্রশিক্ষণ কোর্স, কতজন প্রশিক্ষণার্থী এবং কোন কোন প্রতিষ্ঠান/বিনিয়োগকারীর মাধ্যমে প্রশিক্ষণ প্রদান করা হবে তার Indicative Outline প্রদান করতে হবে। প্রশিক্ষণের গুণগতমান নিশ্চিত করার খর্চ কারিগরি প্রশিক্ষণ প্রদানকারী প্রতিষ্ঠান নির্বাচনের ক্ষেত্রে প্রতিষ্ঠিত সরকারি, অধা-সরকারি, স্বায়ত্বশাসিত প্রতিষ্ঠানসমূহকে অগ্রাধিকার প্রদানের বিষয়টি জিপিপিতে উল্লেখ করতে হবে (Appendix-VII);          (ঙ) Grant Program (ট: ১৭০ কোটি), Customs Duty (ট: ৮০ কোটি) এবং VAT (ট: ২০ কোটি)-সম্পর্কিত ৩টি Repair and Maintenance এর অন্তর্ভুক্ত নয় বিধায় এগুলোকে আলাদা করে দেখাতে হবে;          (চ) জিপিপি পৃষ্ঠা ২২৪ এ উল্লিখিত Land Development Work এর ক্ষেত্রে Supporting Landscape এর আলাদাক প্রকল্প এলাকার মাটি ভরাটের ক্ষেত্রে মাটির পরিমাণ নির্ধারণের যৌক্তিকতা জিপিপিতে উল্লেখ করতে হবে।</p>

**Anisur Rahman**  
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পিইসি সভার সিদ্ধান্ত নং	পিইসি সভার সিদ্ধান্ত	পরিদর্শন কার্যসূচীর মতামত
8.8	<p>প্রস্তাবিত প্রকল্পটির একই প্রকল্প এলাকায় চলমান সমঝাউয় “Bangladesh Economic Zone Development Project (Phase-1)”.-ঐর্ষক প্রকল্পের উদ্দেশ্য ও কার্যাবলির সাথে প্রস্তাবিত প্রকল্পের কোন ঝেঁষততা রয়েছে কি না, প্রকল্পটির ভৌত ও পরামর্শক সেবা সংক্রান্ত কার্যাবলির বিবরণ, প্রধান প্রধান অংশের ভৌত/ঐর্ষিক/ক্যাপাল অগ্রগতি সংক্রান্ত তথ্যাদি এবং দুটি প্রকল্পের সমঝামের পরিদর্শন পুনর্গঠিত ডিপিপি’তে সংযোজন করতে হবে। একইসাথে পঞ্জাবিত প্রকল্পের Exit Plan সংক্রান্ত তথ্যাদিও পুনর্গঠিত ডিপিপি’তে সংযোজন করতে হবে;</p>	<p>শ্রু অনুচ্ছেদ ১৫.৪ এর Activity III ও VIII পরশর পরিদর্শক বিষয় তাদেরকে একসাথে দেখাতে হবে এবং Activity তালিকায় Job Creation বিষয়ে Activities উল্লেখ করতে হবে।</p> <p>পিইসি সভার সিদ্ধান্ত ৪.৪ এ চলমান ও প্রস্তাবিত ২টি প্রকল্পের মধ্যে সম্পাদিত কার্যক্রমের সমঝয় ও Exit Link সুসংহতভাবে উল্লেখ করতে হবে;</p>
8.৫	<p>প্রস্তাবিত ডিপিপি’র ২০ নং অনুচ্ছেদে সমঝাউয় অন্যান্য চলমান প্রকল্পের প্রধান প্রধান আইটেমের সাথে তুলনামূলক বিবরণসহ একটি পূরণ করতে হবে;</p>	<p>ডিপিপি পৃ: ২২ অনুচ্ছেদ ২০ এ প্রদত্ত সমঝাউয় প্রকল্পের সাথে প্রস্তাবিত প্রকল্পের প্রধান আইটেমের ব্যয় প্রাঙ্কশনের যে একক প্রদান করা হয়েছে সেখানে প্রদত্ত রাতা নির্মাণ ব্যয় এবং এ নির্মাণ ব্যয়ের বিস্তারিত বিভাজন (ডিপিপি পৃষ্ঠা ৫৭-৫৯) ও ক্রম সেকশন (ডিপিপি পৃষ্ঠা ৮৮-৮৯) পরীক্ষা করে দেখা যায় যে, অনেক আইটেমের (যেমন- স্যাট খনন) জন্য অভিরিক্ত ব্যয় প্রাঙ্কশন করা হয়েছে। আশ্রুত, ২৬ কি:মি (২ সেনা) এবং ৪ কি:মি (৪ সেনা) উভয় সড়ক নির্মাণে জন্য দ্রাফট সাইন ও দ্রাফট পোর্টের সংখ্যা যথাক্রমে ৮৪টি করে উল্লেখ করা হয়েছে। আভাবিক ভারবই ৪ কি:মি (৪ সেনা) এবং ২৬ কি:মি: (২ সেনা) সড়কের ক্ষেত্রে দ্রাফট সাইন এবং পোর্টের সংখ্যা একই হওয়ার সুযোগ নেই।</p>
8.৭	<p>ক্রিওবি হতে ১% সুদে ৩৮৬.২৭ কোটি ষণ শ্রহণের বিষয়ে গুর্নই অর্ধ বিভাগের সম্মতি গ্রহণ করতে হবে। একইসাথে বিধাৎক হতে গৃহীত ষণ ব্যবহারের সেক্ষে নিয়মানুযায়ী অর্ধ বিভাগের সাথে একটি Subsidiary Loan Agreement (SLA) করতে হবে। এছাড়া, বিধাৎক হতে গৃহীত ষণের বিপরীতে ষণ পরিশোধ সংক্রান্ত Amortization Schedule পুনর্গঠিত সংযুক্ত করতে হবে;</p>	<p>প্রকল্পের ক্রিওবি অংশের অধায়ালে অর্ধ বিভাগ হতে ১% হার সুদ ষণ শ্রহণের ক্ষেত্রে অর্ধ বিভাগের সম্মতি ডিপিপি’তে সন্নিবেশ করা য়ানি। এটি সন্নিবেশ করে সে অনুযায়ী ষণ পরিশোধ সংক্রান্ত সিডউলটি নির্ধারণ করতে হবে। আশ্রুত, ক্রিওবি ষণ পরিশোধের ষেদে পরিশোধের সময়কাল ৫ বছর উল্লেখ করতে হবে।</p>
8.৯	<p>বিধবাংকের অধায়ালে বেজার মাধ্যমে বাতরানায়ী “Bangladesh Economic Zone Development (Phase-1) Project (2nd Revised)” এবং “Support 10 Capacity Building of BEZA Project (2nd Revised)”-ঐর্ষক প্রকল্পসমূহের জনরল উন্নয়ন প্রকল্পে জনরল নিয়োগ বিষয়ে অর্ধ বিভাগ</p>	<p>পিইসি সভার সিদ্ধান্ত অনুযায়ী Project Allowance হিসেবে অভিরিক্ত ২০% ভাতা প্রদানের বিষয়ে অর্ধ বিভাগের সম্মতি গ্রহণপূর্ক তা ডিপিপি’তে সংযুক্ত করা য়ানি। এ বিষয়ে অর্ধ বিভাগের সম্মতি গ্রহণপূর্ক তা ডিপিপি’তে সংযুক্ত করতে হবে এবং সে অনুযায়ী ডিপিপি’তে অর্ধের সংস্থান রাখতে হবে।</p>



Govt of the People's Republic of Bangladesh  
Prime Minister's Office  
Director  
Anisur Rahman

উপ-সচিব  
সিদ্ধান্ত ও কার্যক্রম  
পরিদর্শন কার্যসূচী  
১৩/০৬/২০১৭

সিদ্ধান্ত  
১৩/০৬/২০১৭

সচিব  
১৩/০৬/২০১৭



পরিচিতি সত্তার সিদ্ধান্ত নং	পরিচিতি সত্তার সিদ্ধান্ত	পরিচয়না কামিশনের মতামত
৪.১৬	প্রকল্পের আওতায় বিভিন্ন বিষয়ে ২৭টি পরামর্শক কার্য ও অপর ৫৫ জন ব্যক্তি পরামর্শকের TOR মধ্যস্বত্বভাৱে সংশোধন করে উপযুক্ত কর্তৃপক্ষের অনুমোদন গ্রহণপূর্বক তিস্তিগঞ্জ-৫তে সংযুক্ত করতে হবে। এছাড়া, প্রকল্পের আওতায় প্রত্যাশিত বিভিন্ন জৌত নিয়োগ কাজসমূহের প্রাথমিক ব্যয় হিসাবসাময় রেন্ট সিডিউল অনুযায়ী খরচ হয়েছে কি না তা পরীক্ষা করতে হবে; এরং	(ক) PMC-17 তে যোগ্যতা ও অভিজ্ঞতাসমূহ Training Need Assessment (TNA) এর জন্য পরামর্শক নিয়োগের TOR আরো সুনির্দিষ্ট ও বিস্তারিতভাবে উল্লেখ করা আবশ্যিক। এতে প্রাসঙ্গিক যোগ্যতাও সুনির্দিষ্ট করতে হবে (Appendix-VI); (খ) Consulting Firm নিয়োগ TOR বর্ণনায় International Competitive Bidding (ICB) এর বিধিমাটি (প্রযোজ্য ক্ষেত্রে) যথাসমুত্তভাবে উল্লেখ করতে হবে (Appendix-VI); (গ) International Competitive Bidding এর ক্ষেত্রে TOR এ International Consultant নিয়োগের বিধিমাটি উল্লেখ করতে হবে;

০২। পরিকল্পনা কামিশনের উপযুক্ত মতামতের আলোকে তিস্তিগঞ্জ পুনর্গঠন করে স্বত্বস্বীকৃতিতে প্রেরণ করার জন্য নির্দেশক্রমে অনুরোধ জানানো যাবে।

*Rashed*  
১৫/১০/২০২০  
মোঃ গোলাম মোহাম্মদ  
উপ-প্রধান (চ:মাঃ)  
ফোন: ৯১৮০৬২৭

সুখা সচিব  
প্রধানমন্ত্রীর কার্যালয়  
পূরাতল সংসদ ভবন, ঢাকা।  
(দৃ:খা: জ্ঞানার আদিত্যুর রতমান, পরিচালক-১, প্রধানমন্ত্রীর কার্যালয়)

- অনুলিপি:
১. নির্বাহী চেয়ারম্যান, বেঙ্গা, মোলোয় বিভাগে ডিস্ট্রিক্ট, ১১১ বীর উত্তম সি.আর মন্ড রোড, ঢাকা।
  ২. সদস্য (সচিব) যাহাঙ্গোরের একাড সচিব, সিঙ্গ ও শক্তি বিভাগ, পরিকল্পনা কামিশন, ঢাকা।
  ৩. অফিস কপি।



*Anisur Rahman*  
Anisur Rahman  
Director  
Prime Minister's Office  
Govt. of the People's Republic of Bangladesh

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*Rashed*  
১৫/১০/২০২০  
মোঃ গোলাম মোহাম্মদ  
উপ-প্রধান (চ:মাঃ)  
ফোন: ৯১৮০৬২৭

*Rashed*  
মোঃ গোলাম মোহাম্মদ  
উপ-প্রধান (চ:মাঃ)  
ফোন: ৯১৮০৬২৭



Detailed Estimation of Vehicle Rent

Taka in Lakh

Vehicles Type	Number of Vehicles	Period (Months)	Monthly Costs				Total Estimate
			Rents	Fuel Cost	Drivers Salary	Drivers Overtime	
Prado Jeep	4	60	3.00	1.00	0.19	0.08	4.27
Microbus	3	60	1.50	1.00	0.19	0.08	2.77
Pickup	1	60	1.80	1.00	0.19	0.08	3.07
<b>Total Amount</b>	<b>8</b>						<b>1707.60</b>

Detailed Estimation of Fuel Consumption (Speed Boat & Motorcycle)

Taka in Lakh

Fuel Expenses	Number	Period (Months)	Monthly Rate	Total Estimate
Octen for Speed Boat	1	60	1.00	60.00
Mobil for Speed Boat	1	60	0.25	15.00
Octen for Motorcycle	27	60	0.25	405.00
Mobil for Motorcycle	27	60	0.01	16.20
<b>Total</b>				<b>496.20</b>

*Anisur Rahman*  
Anisur Rahman  
Director  
Prime Minister's Office  
Govt. of the People's Republic of Bangladesh

*D. M. A.*  
দায়ালী দেবনাথ  
মুগদিক  
ব্যবস্থাপক (এম.আই.এস ও গবেষণা)



*M. S. L.*  
18.11.2016  
Md. Shahid Hossain  
Principal Officer  
Bangladesh Economic Zones Authority (BEZA)  
Bangladesh Economic Zones Authority  
General Building, Dhaka.

## Detailed Estimation of Investment Promotion Program (Foreign)

### For the Country Group-1:

Sl. No.	Description	Unit Cost (Lakh) (Per-training)	Number of Program	Total Cost (Lakh)	Comments
1.	Travel Allowances (For 5 delegates @ 7 days in each program)	9.00	10	307.50	1. Unit cost is estimated based on 50 delegates for each IP Program. 2. Travel Allowance & Air Tariff is estimated for the 5 government officials/ participants for 7 days (including travel time) to arrange the program in abroad.
2.	Air Tariff (Calculation for 5 government officials/ delegates )	12.50			
3.	Event Management (Backdrop/Banner, Promotional Item, Leaflet/ Brochure, Invitation Card, Stand Banner, Pen, Pad, Folder , etc.	2.50			
4.	Accommodation/Event Tariff	2.50			
5.	Entertainment Expenses for 50 delegates.	4.25			
Sub-total		30.75		307.50	

### For the Country Group-2:

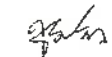
Sl. No.	Description	Unit Cost (Lakh) (Per-training)	Number of Program	Total Cost (Lakh)	Comments
1.	Travel Allowances (For 5 delegates @ 7 days in each program)	7.30	11	283.25	1. Unit cost is estimated based on 50 delegates for each IP Program. 2. Travel Allowance & Air Tariff is estimated for the 5 government officials/ participants for 7 days (including travel time) to arrange the program in abroad.
2.	Air Tariff (Calculation for 5 government officials/ delegates )	11.00			
3.	Event Management (Backdrop/Banner, Promotional Item, Leaflet/ Brochure, Invitation Card, Stand Banner, Pen, Pad, Folder , etc.	2.00			
4.	Accommodation/Event Tariff	2.00			
5.	Entertainment Expenses for 50 delegates.	3.45			
Sub-total		25.75		283.25	

### For the Country Group-3:

Sl. No.	Description	Unit Cost (Lakh) (Per-training)	Number of Program	Total Cost (Lakh)	Comments
1.	Travel Allowances (Estimation is based on 5 person for 5 days in each program)	4.75	1	99.75	1. Unit cost is estimated based on 50 delegates for each IP Program. 2. Travel Allowance & Air Tariff is estimated for the 5 government officials/ participants for 7 days (including travel time) to arrange the program in abroad.
2.	Air Tariff (Calculation for 5 government officials/ delegates )	9.00			
3.	Event Management (Backdrop/Banner, Promotional Item, Leaflet/ Brochure, Invitation Card, Stand Banner, Pen, Pad, Folder , etc.	7.50			
4.	Accommodation/Event Tariff	1.50			
5.	Entertainment Expenses for 50 delegates.	3.45			
Sub-total		19.95		99.75	
<b>Grand Total = (Country Group-1) + (Country Group-2) + (Country Group-3) = (307.50 + 283.25 + 99.75) Lakh = 690.50 Lakh</b>					

  
**Afisur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

৬২২  
 দয়ানন্দ দেবনাথ  
 যুগ্মসচিব  
 স্ববহাণক (এম আই এস ও গবেষণা)

  
 17.11.2020  
 জনাব খান আমিন বিন হোসাইন  
 বাংলাদেশ প্রকাশন  
 গুলশান ২ টি আপারসিটি বিল্ডিং অব বেঙ্গল প্রক্ট  
 ঢাকা-১২১২  
 প্রধানমন্ত্রীর কার্যালয়



### Detailed Estimation for Local Training Program

Estimation of Unit Cost for Local Training Program (Lakh)				
Sl. No.	Description	Unit Cost (Lakh) (Per-training)	Number of Participant	Comments
1.	Event Management [Banner, Flower Bucket, Training Materials (Training Bag, Pen, Pad, Folder, CD/Pen drive, Course Materials) ]	1.50	30	1. Training duration is estimated for 3 days.
2.	Refreshment & Lunch	1.25		
3.	Honorarium for the Trainer (Each day 4 sessions and total number of session is 12 for 3 days)	0.50		
4.	Honorarium for the Trainees (Estimation is for 30 trainees @ BDT 1000.00 for each day training program)	0.90		
5.	Course Director (1 person), Coordinator (1 person) and Support Staff (3 persons)	0.10		
6.	Accommodation/Event Tariff	0.75		
<b>Grand Total</b>		<b>5.00</b>		

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### Estimation for Local Training Program

Sl. No.	Training Program in Broad Head	No. of Training	Unit Cost (Lakh) (Per-training)	Total Training Cost (Lakh)	Comments
1.	Citizen Charter, E-Nothing, Tally Software, OSS & ICT	6	5.00	30	1. Training duration is calculated for 3 days. 2. Estimation is calculated for 30 trainees for each training program.
2.	HR Management, Capacity Development, Skill Development, Project Management & Monitoring, Procurement & Contract Management, Land Acquisition & Management	8	5.00	40.00	
3.	Fund Management, Audit & Accounts	3	5.00	15.00	
4.	Resettlement Issues for EZs development	3	5.00	15.00	
5.	Environmental Safeguard Issues	3	5.00	15.00	
6.	Social Safeguard Issues	3	5.00	15.00	
7.	Health Hazard (Fire fitting, Earth Quack, COVID-19, etc.)	3	5.00	15.00	
8.	Zone Development Issues, PPP Model Concept, Building Code	3	5.00	15.00	
9.	Green and Climate Resilient on EZs	3	5.00	15.00	
10.	Workers Welfare,	3	5.00	15.00	
11.	Promotion of Child Care Facilities, Gender Issues	2	5.00	10.00	
<b>Grand Total</b>		<b>40</b>		<b>200.00</b>	

Govt. of the People's Republic of Bangladesh  
Prime Minister's Office  
Director's Office  
Anisur Rahman

Anisur Rahman

17-11-2020  
মোঃ বনি আমিন বিন হান্নিম  
ব্যবস্থাপক প্রশাসন  
মাগেট টু কাগজটি বিক্রি অর বেঙ্গল এক্স  
বাংলাদেশ অর্থনৈতিক অঞ্চল কর্তৃপক্ষ  
প্রধানমন্ত্রীর কার্যালয়

সম্মানিত দেবনাথ  
স্বাক্ষরিত  
সংস্ক (সে-জি/এস ও গবেষণা)



## Detailed Estimation of Foreign Training/Study Tour Program

### A. Estimation of Foreign Study Tour Program

#### A.1 : For the Country of Group-1

Sl. No.	Description	Unit Cost (Lakh) (Per-program)	Number of Program	Total Cost (Lakh)	Comments
1.	Travel Allowances (Estimation is for 5 delegates @ 7 days in each program)	9.00	7	154.00	Estimated for the 5 government officials/delegates and duration is 7 days including travel time.
2.	Air Tariff (Estimation is for 5 government officials/ delegates)	13.00			
Sub-total		22.00		154.00	

#### A.2 : For the Country of Group-2


Sl. No.	Description	Unit Cost (Lakh) (Per-program)	Number of Program	Total Cost (Lakh)	Comments
1.	Travel Allowances (Including Local Transport Cost) (Estimation is for 5 delegates @ 7 days in each program)	8.00	6	114.00	Estimated for the 5 government officials/delegates and duration is 7 days including travel time.
2.	Air Tariff (Estimation is for 5 government officials/ delegates)	11.00			
Sub-total		19.00		114.00	

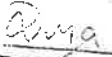
#### A.3 : For the Country Group-3

Sl. No.	Description	Unit Cost (Lakh) (Per-program)	Number of Program	Total Cost (Lakh)	Comments
1.	Travel Allowances (Including Local Transport Cost) (Estimation is for 5 delegates @ 7 days in each program)	7.00	5	80.00	Estimated for the 5 government officials/delegates and duration is 7 days including travel time.
2.	Air Tariff (Estimation is for 5 government officials/ delegates)	9.00			
Sub-total		16.00		80.00	

**Grand Total of Study Tour = (Country Group-1) + (Country Group-2) + (Country Group-3) = (154.00 + 114.00 + 80) Lakh = 348.00 Lakh**



  
**Anisur Rahman**  
 Director  
 Prime Minister's Office  
 Government of Bangladesh  
 6274

  
 দায়িত্ব দেবনাথ  
 ইগজিকিউ  
 ব্যবস্থাপক (এম.আই.এস ও গবেষণা)

৩২৯৯  
 ১৭-১১-২০২০  
 মোঃ হারুন আমিন বিন হানিম  
 ব্যবস্থাপক প্রশাসন  
 ন্যাশনাল ট্রাফিক ইন্সটিটিউট অফ বাংলাদেশ  
 বাংলাদেশ অর্থনৈতিক অঞ্চল কর্তৃপক্ষ  
 প্রধান কার্যালয়

## B. Estimation of Foreign Training Program

### B.1 : For the Country Group-1 :

Sl. No.	Description	Unit Cost (Lakh) (Per-program)	Number of Program	Total Cost (Lakh)	Comments
1.	Travel Allowances (Estimation is for 5 delegates @ 7 days in each program)	9.00	6	162.00	Estimated for the 5 government officials/delegates and duration is 7 days including travel time.
2.	Air Tariff (Estimation is for 5 government officials/ delegates)	12.50			
3.	Training Fees/Course Fees	5.50			
Grand Total		27.00		162.00	

### B.2 : For the Country Group-2 & 3 :

Sl. No.	Description	Unit Cost (Lakh) (Per-program)	Number of Program	Total Cost (Lakh)	Comments
1.	Travel Allowances (Estimation is for 8 delegates @ 7 days in each program)	8.00	3	90.00	Estimated for the 5 government officials/delegates and duration is 7 days including travel time.
2.	Air Tariff (Estimation is for 8 government officials/ delegates)	17.00			
3.	Training Fees/Course Fees	5.00			
		30.00		90.00	

Sub-total of Foreign Training = (Country Group-1) + (Country Group-2) = (162.00+ 90.00 ) Lakh = 252.00 Lakh

Grand Total = Sub-total of Study Tour + Sub-total of Foreign Training = (348.00 + 252.00) Lakh = 600 Lakh

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Director  
Anisur Rahman  
Prime Minister's Office  
Govt. of the People's Republic of Bangladesh

৭ নভেম্বর  
১৭.১১.২০২০  
শ্রী বার্নি আমিন বিন হাসিম  
স্বয়ংস্বপ্নক এশাসন  
স্বয়ংস্বপ্নক এশাসন  
স্বয়ংস্বপ্নক এশাসন  
স্বয়ংস্বপ্নক এশাসন  
স্বয়ংস্বপ্নক এশাসন

০১৫৭  
দয়ানন্দ দেবনাথ  
মুগাচারি  
ব্যবস্থাপক (এম/এই/এম ও গবেষণা)







## Detailed Estimation of Venue Rental

Sl	Particulars	No of Occurrence	Rate (Per Day)	Total
1	Venue Rental (Dhaka-large Hall room)	15	400000	6000000
2	Venue Rental (Dhaka-Medium/small hall room)	30	165000	4950000
3	Venue Rental (Chattogram-Big Hall room)	7	250000	1750000
4	Venue Rental (Sylhet)	7	100000	700000
5	Venue Rental (Rajshahi & Bogura)	7	100000	700000
6	Others			6000000
Total (BDT.)				20100000

**Note:** Venue rental category has been added to the DPP to rationalize cost estimation linked to investment campaigning including stakeholder meeting, seminar, workshop, MoU & land lease agreement, training etc. at national and international level.

  
**Md. Abdul Quader Khan**  
 Social Specialist  
 Support to Capacity Building of BEZA Project  
 Bangladesh Economic Zones Authority  
 Prime Minister's Office

  
 প্রোগ্রাম স্পেশালিস্ট  
 বাংলাদেশ  
 বাংলাদেশ (এস.জি.এ. প্রকল্প)  
 প্রধান মন্ত্রীর কার্যালয়



  
**Anisur Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

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বিনিয়োগ অগ্রাধিকার

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

প্রাধানমন্ত্রীর কার্যালয়

বাংলাদেশ অর্থনৈতিক অঞ্চল কর্তৃপক্ষ (বেজা)

বাংলাদেশ অর্থনৈতিক অঞ্চল উন্নয়ন প্রকল্প-১ম পর্যায়

সোনাম বিজনেস ডিভিশন (জেনেভা-২১) ১১১ বীর উত্তম সি. আর. দত্ত রোড ঢাকা-১২০৫



পত্র সংখ্যা: ০৩.০৭.০০০০.০০৭.০১৪.১১৭.২০২০-১৯৫৭

তারিখ: ২৭ কার্তিক ১৪২৭ বঙ্গাব্দ  
১২ নভেম্বর ২০২০ খ্রিষ্টাব্দ

বিষয়: বঙ্গবন্ধু শেখ মুজিব শিল্পনগরের ২এ এবং ২বি অর্থনৈতিক অঞ্চলে বিদ্যুৎ সংযোগ স্থাপনের জন্য উইং, ডিজাইন ও প্রাক্কলন  
প্রদান।

উপর্যুক্ত বিষয়ের পরিস্ফুটনে জানানো যাচ্ছে যে, বাংলাদেশ অর্থনৈতিক অঞ্চল কর্তৃপক্ষ কর্তৃক বাস্তবায়নাধীন বঙ্গবন্ধু শেখ মুজিব শিল্পনগরে ২এ এবং ২বি অর্থনৈতিক অঞ্চলে অফ-সাইট অবকাঠামো এবং শিল্প কারখানা নির্মাণের কাজ দ্রুত এগিয়ে চলবে। এজন্য প্রস্তাবিত বঙ্গবন্ধু শেখ মুজিব শিল্পনগর উন্নয়ন প্রকল্পের আওতায় ২এ এবং ২বি অর্থনৈতিক অঞ্চলে বিদ্যুৎ সংযোগের কার্যক্রম অগ্রদূক্ত করা হয়েছে।

এহতাবস্থায়, উক্ত ২এ এবং ২বি অর্থনৈতিক অঞ্চলে বিদ্যুৎ সংযোগ স্থাপনের জন্য উইং, ডিজাইন ও প্রাক্কলন প্রেরণের জন্য অনুরোধ করা হল।

সংযুক্তি: ২এ এবং ২বি অর্থনৈতিক অঞ্চলের মাপ।

ই-মেইল: heza@project1@gmail.com

চেয়ারম্যান  
বাংলাদেশ পল্লী বিদ্যুতায়ন বোর্ড  
হেড অফিস, নিরুপ-২  
খিলক্ষেত, ঢাকা-১২২৯।

বিতরণ-সদয় আত্মর্থ (জ্যেষ্ঠতার ক্রমানুসারে নয়):  
০১) নির্বাহী চেয়ারম্যান (সচিব), বাংলাদেশ অর্থনৈতিক অঞ্চল কর্তৃপক্ষ (বেজা)।  
০২) নির্বাহী সচিব (পারিকল্পনা ও উন্নয়ন), বাংলাদেশ অর্থনৈতিক অঞ্চল কর্তৃপক্ষ (বেজা)।

  
আনিসুর রহমান  
মুদ্রিত  
১৯৯৩ (এম এম এ ও সিসি)

630

  
Anisur Rahman  
Prime Minister's Office  
Govt. of the People's Republic of Bangladesh



  
আনিসুর আল মাহবুব খান  
প্রকল্প পরিচালক  
ফোন: ৯৬৩২৪৬২

1:3,400

# BANGABANDHU SHEIKH MUIB SHI PANAGAR (ZONE 2B Layout Plan)

Note—  
 Zone: 2B  
 Total Area: 508,287 acre  
 Total Plot: 119  
 Precinct: F (Heavy/Medium Industrial Area)

Rural Power Company Ltd.

৬৩১  
 দমানন্দ দেবনাথ  
 মুগলচাঁদ  
 ব্যবস্থাপক (এম আই এম ও গবেষণা)

## Power Grid Company Bangladesh

Emergency Responder Center

Child Care Home Health Center and Environmental Lab

Skill Development Center

Desalination Plant

Reserved Area

CETP

CETP

CETP

PTW01

PTW02

PTW03

PTW04

PTW05



৬৩১

Inset Map



Legend		Precinct	
■ Tubewell	■ Precinct A	■ Precinct A	■ Precinct A
⊙ Electrical Responder Center	■ Precinct B	■ Precinct B	■ Precinct B
⊙ Skill Development Center	■ Precinct C	■ Precinct C	■ Precinct C
⊙ Child Care Health Center and Environmental Lab	■ Precinct D	■ Precinct D	■ Precinct D
⊙ Skill Development Center	■ Precinct E	■ Precinct E	■ Precinct E
⊙ Desalination Plant	■ Precinct F	■ Precinct F	■ Precinct F
⊙ Reserved Area	■ Precinct G	■ Precinct G	■ Precinct G
⊙ Utility Hub	■ Precinct H	■ Precinct H	■ Precinct H
⊙ Water Body	■ Precinct I	■ Precinct I	■ Precinct I
⊙ High Voltage Line	■ Precinct J	■ Precinct J	■ Precinct J
⊙ Road	■ Precinct K	■ Precinct K	■ Precinct K
⊙ Plot Boundary	■ Precinct L	■ Precinct L	■ Precinct L
⊙ Plot	■ Precinct M	■ Precinct M	■ Precinct M
⊙ Reserved Area	■ Precinct N	■ Precinct N	■ Precinct N

Designation		Signature	
Jr. Planner (Consultant)	20.02.2020	General Manager (Planning and Development)	20.02.2020
Deputy Manager (Planning and Development)	20.02.2020	Member (Planning and Development)	20.02.2020
Manager (Planning and Development)	20.02.2020	Executive Chairman	20.02.2020

Anisur Rahman  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh



BANGLADESH ECONOMIC ZONES AUTHORITY

০২/০২/২০২০ তারিখে অনুষ্ঠিত বসেতে সিদ্ধি করা হয় যে এম আই এম ও গবেষণা বিভাগের মাধ্যমে এলাকাটির ল্যান্ডস্কেপ ডিজাইন করা হবে।  
 ১০/০২/২০২০

1:4,400

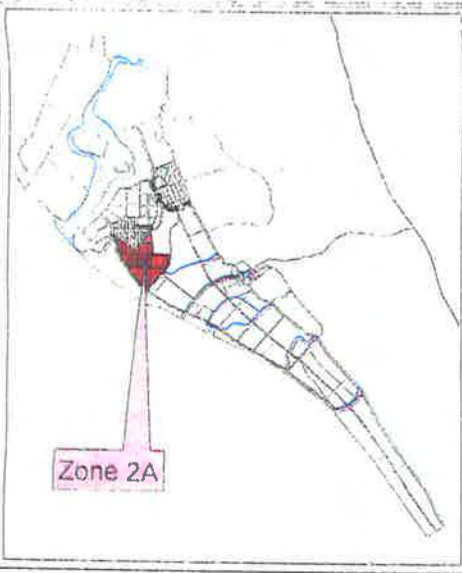
# BANGABANDHU SHEIKH MUJIB SHILPANAGAR (ZONE 2A Layout Plan)



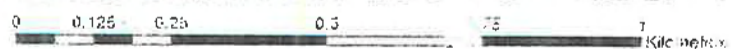
Plot No	Area (acre)	Description
1, 15, 16, 17	12.00	Plot
2, 20, 31, 32, 33	12.00	Plot
21, 22, 23	12.00	Plot
24, 25, 26	12.00	Plot
27, 28	12.00	Plot
3	12.24	Plot
4	15.12	Plot
5	12.22	Plot
6	50.00	Plot
7	12.24	CETP
8	32.20	STP
9	12.22	Plot
10, 11	25.00	Plot
12	5.00	Reserved Area
13	17.65	Desalination Plant
14	15.44	Plot
17/A	7.87	33/11 KV Sub Station
18, 25, 26, 33, 34	5.00	Reserved Area
35/A	2.54	Reserved Area
7/5	9.96	Plot
40	4.91	Plot
41	9.73	Reserved Area
42/A	0.93	Mosque
42/B	0.49	Water Reservoir
42/C	0.56	Reserved Area
42/D	1.00	Plot
42/E	2.50	33/11 KV Sub Station
42/F	0.69	BTCL
42/G	0.59	Admin Zone
55	14.49	Plot
46	1.67	Fire Station
49	7.52	Plot
50	4.77	Service Area (230/33 KV Sub Station and other Services)
51	8.92	Plot
52	5.00	Plot
53, 54	25.00	Plot
56	40.00	Plot
45	70.00	Plot
38	100.00	Plot

\*\*\*Note---  
 Zone: 2A  
 Total Area: 943.75 acre  
 Total Plot: 56  
 Precinct: F (Heavy/Medium Industrial Area)

Base Map



Bangabandhu Sheikh Mujib Shilpanagar



**Legend**

- Water Canal
- Mosque
- Skill Development Center
- Child Care Health Center Environmental Lab
- Sluice Gate
- Desalination Plant
- Plot Boundary
- Zone Boundary
- CETP
- Service Area
- Electric Sub Station
- Water Reservoir
- Proposed Road
- Existing Road
- Green Space
- Super Dyke
- Water Body
- Utility Hub
- Reserved Area
- STP

**Precinct**

- Precinct A
- Precinct B
- Precinct C
- Precinct D
- Precinct E
- Precinct F
- Precinct G
- Precinct H
- Precinct I
- Precinct J
- Precinct K

**Data Source:**  
 Preparation: System Universal Transverse Mercator (UTM)  
 Spheroid: WGS 1984  
 Datum: WGS 1984  
 UTM: 48QUG  
 Projection: UTM  
 False Northing: 6000000.0  
 False Easting: 500000.0  
 Central Meridian: 91.000000 (Longitude)  
 Scale Factor: 0.999600  
 Latitude of Projection Origin: 23.000000 (Latitude)

*Signature*  
 20/02/2020  
 Jr. Urban Planner (Consultant)

*Signature*  
 20.02.2020  
 General Manager (Planning and Development)

*Signature*  
 20/02/2020  
 Deputy Manager (Planning and Development)

*Signature*  
 20/02/2020  
 Member (Planning and Development)

*Signature*  
 20/02/2020  
 Executive Chairman

**BANGLADESH ECONOMIC ZONES AUTHORITY**

০২/০৬/২০২০ তারিখে অনুষ্ঠিত ১১তম জিএম বোর্ডিং সভার সভাপতিত্ব প্রদর্শিত। সভার কার্যক্রম - ০২/০৬/২০২০ ০০০০-০০৫-০৬/০০২৩

স্বাধীনতা কোম্পানী  
 উপ-প্রধান (সি.সি.)  
 নিরুত্তর ও শান্তি বিভাগ  
 সীতাবদিলা, পাবনা জেলা, ময়মনসিংহ

### Management of Environmental Lab & Monitoring System

With a view to properly assess the level of environmental pollution and discharge status of various industries inside BSMSN, a full-fledged environmental lab equipped with wastewater, drinking water, air, noise, soil quality monitoring system for proper environmental management of the EZ has been proposed in two procurement packages under PRIDE project. The monitoring and testing service shall focus on broad spectrum analysis of wastewater and drinking water quality parameters such as Bio-chemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Total Suspended Solids (TSS), Coli form, Total Nitrogen, Total Phosphorous and some heavy metals (Cr, Pb, Ar, etc), oil & grease, ambient air quality monitoring (toxic gas, particulate matter), noise quality, characterization of industrial EIP sludge/soil in the proposed lab under the procurement package of goods and works. The proposed monitoring and testing services have also been mandated as environmental regulatory requirements (such as Environment Conservation Rules 1997, Factory Rule 79, Labor Law 06) for ensuring smooth operation, staffing and maintenance of the proposed laboratory as well as to generate and report high quality testing data, 02 (two) lab technicians have been proposed to be recruited from revenue under project management setup. Besides, 01 (one) environmental consultant and 05 (five) environmental counselors under the Environment and Social Management Unit of BEZA are also proposed to be as individual consultant who will assist and coordinate the overall lab functioning systems. A process flow diagram of the proposed environmental lab functioning system with responsibilities has been given below. Initially, the operation, staffing and maintenance cost of the environment lab will be born under PRIDE project. Following the completion of the project duration, BEZA will go for full-scale commercial operation of the lab by providing value added environmental monitoring services to the investors. In such cases BEZA may also procure advance lab analysis and consultation services from BUEFMIST for the investors under technical collaborations. This is to be mentioned here that the estimated cost of the above mentioned packages have been taken from the cost analysis of the existing market rates. Establishment of the proposed environmental laboratory will not only help BEZA to enforce environmental quality guidelines but also to improve the efficiency of widely varying industrial processes in BSMSN which will setup a remarkable milestone in establishing green and resilient EZs in the near future.

*AMA*  
**Dr. Tanveer Ahmed**  
 Environment Specialist (National)  
 Govt. of Capacity Building of BEZA Project

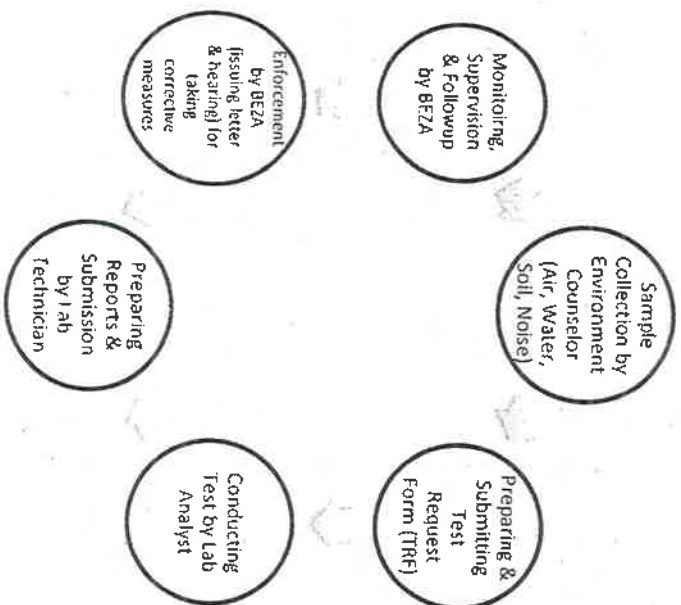
*ASMA*  
 Director  
 Govt. of Capacity Building of BEZA Project

प्रमाणित करता हूँ  
 मुद्रित  
 मंत्रालय (का. वि. एवं स. वि. वि.)

633

*Asim Rahman*  
**Asim Rahman**  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh





Process Flow Diagram of BEZA Environmental Laboratory Functioning System

*MVA*  
**Dr. Tanveer Ahmed**  
 Environment Specialist (National)  
 Support to Capacity Building of BEZA Project

*MVA*  
 বাংলাদেশ সরকার  
 পরিবেশ  
 বাংলাদেশ (সহ পরিবেশ ও স্বাস্থ্য)



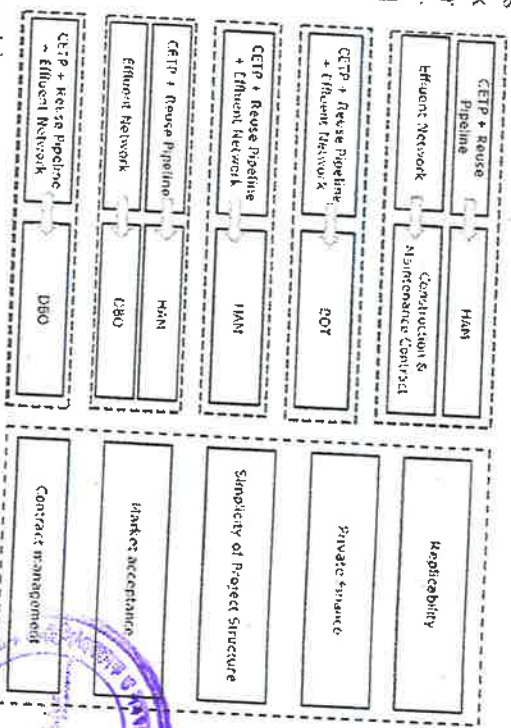
*MVA*  
 বাংলাদেশ সরকার  
 পরিবেশ  
 বাংলাদেশ (সহ পরিবেশ ও স্বাস্থ্য)

*MVA*  
**Anisur Rahman**  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh

**Implementation Strategy of Public Private Partnership (PPP) Components**  
**Bangabandhu Sheikh Mujib Shilpa Nagar (BSMSN) Development Project**

1. For promoting private investment & job creation in economic zones of BSMSN and mainstream the environmental sustainability in development of economic zones in Bangladesh, the World Bank will be financing to the implementation Bangabandhu Sheikh Mujib Shilpa Nagar (BSMSN) Development of project. Private investment along with Foreign Direct Investment (FDI) increased at BSMSN. Environment compliances maintained and resilience capacity strengthened in operation of Economic Zones (EZs) at BSMSN. The said project envisages for developing a green, climate resilient and smart industrial city. The proposed PPP components will serve the benchmark infrastructural requirements of EZs, while promoting private investment and access in modern technology, management and skills for such green field development projects in Bangladesh. With the infrastructural development of BSMSN Development Project 6 nos. PPP components will be implemented at BSMSN. Central Effluent Treatment Plant (CE:TP) component is the one of them. BIZVA appointed a Consultancy Firm (Deloitte-BFTS Pvt. Ltd) for the Transaction Advisory Services (TAS) and technical support on establishment of CE:TP component. With the kind injunction of the Honorable Prime Minister (letter from PMO-attached herewith) and the recommendations for the characteristics of PPP component the consulting Firm estimated the cost of CE:TP establishment. According to the Feasibility Study (Business Case Report) submitted by Deloitte the Hybrid Annuity Model (HAM) is to be considered for the PPP process of CE:TP component.

2. A comprehensive risk assessment was undertaken to present the key risk associated with the project, their description, and its consequence. After multiple discussions with the potential bidders and other stakeholders, parties best suited to handle the risk was identified and an appropriate mitigation mechanisms has been considered. Based on this assessment various PPP options for engaging private operator for this project were undertaken. Five (5) PPP options were considered - Build Operate Transfer (BOT), Hybrid Annuity Model (HAM), Design Build Operate (DBO), a combination of HAM with a separate construction and maintenance contract and combination of HAM and DBO models.



3. The pros and cons of these 5 PPP options were evaluated in details across various five (5) parameters, namely replicability, private finance, simplicity of project structure, market acceptance and contract management. Based on the assessment, Hybrid Annuity Model (HAM) was agreed as most suitable for development of the CE:TP project because of the reasons:

- a) **Demand risk cannot be passed on to the operator:** BSMSN Economic Zone is a greenfield project and the mobilisation of industries especially given the current pandemic situation is uncertain. Hence, the potential of effluent generation is also uncertain in short to medium term scenario. Therefore, the demand for effluent treatment is unclear and demand for offtake of reuse (treated) water is expected to stabilise over a long term period. Therefore, it is only appropriate that the demand risk is not passed onto the private operator.
- b) **Sensitive issue of tariff setting:** The tariff setting for treatment of industrial effluent and reuse of treated water for industries is highly sensitive issue which is better dealt with directly by the

*[Signature]*  
 Md. Nazrul Islam  
 PMMS, STCB  
 6315

*[Signature]*  
 AHISUR RAHMAN  
 Director  
 Prime Minister's Office  
 Govt. of the People's Republic of Bangladesh



government authority. Any CETP operator would be very sceptical of assuming the tariff risk which directly affects its revenue.

- c) **Financing risk due to liquidity issues:** Leverage private finance is one of the objectives from BEZA's standpoint. However, based on our consultations with potential bidders, it has been understood that there is lesser preference to take on financing risk especially long term exposure on a project. Hence hybrid annuity structure offers a middle ground, wherein there is a part financing from both BEZA and the private sector.

4. The Qualitative Comparison of the Project Structuring Options is given below:

	Option-1	Option-2	Option-3	Option-4	Option-5
<b>Structuring Options</b>	CETP + Reuse Pipeline on HAM & Effluent Network Under Separate Construction & Maintenance Contract	All Components on BOJ	All Components on HAM	CETP + Reuse Pipeline on HAM And Effluent Network on DBO	All Components on DBO
<b>Private Finance</b>	Private finance of BDT 819 million (44% of the cost)	Maximum private finance of BDT 1850 million (100% of project cost)	Private finance of BDT 110 million (60% of project cost)	Private finance of BDT 819 million (around 44% of the cost)	No scope for private finance
<b>Market Acceptance</b>	Potential delay risk and finance risk	Demand risk and finance risk	CETP players are more comfortable with CETP on HAM vis-a-vis network	CETP players are more comfortable with CETP on HAM vis-a-vis network	Acceptable in the market
<b>Simplicity of Project Structure</b>	Simple due to separate contracts	More complex than DBO	Relatively more complex than DBO	Complex tender structure	Simple project structure
<b>Contract Management</b>	Difficult contract management but easier coordination	Uniformity in contract structure facilitates better management	Uniformity in contract structure facilitates better management	Relatively difficult contract management	Uniformity in contract structure facilitates better management
<b>Replicability</b>	Multiple contracts but straightforward	Single contract	Single contract, but no prior precedence	Single but two stitched contracts	Straightforward Contract

5. Hence, under HAM, while the BEZA assumes all regulatory risks, compensation risks and commercial risks of the CETP establishment, HAM as the preferred Project Structuring Option is to be considered for the PPP process of CETP component

6. With HAM model of PPP process total implementing period including construction (2 to 3 years) is 15 years. Accordingly considering the HAM model of PPP process the construction cost and the part of operational expenditure (during implementation of PRIDE project) is estimated amounting Tk. 204,00.00 Lac for the establishment of CETP component. This estimated cost as reimbursable project aid (RPA) will be financed by the World Bank. This cost is actually conceptual expenditure which is determined during procurement through PPP process for the selection of private investor/ contractor of CETP component. Noted that the cost will be more or less than this estimated cost and also the ratio of public and private partner's contribution will be more or less.

7. Likewise, the cost and ratio of Public and Private Partner's contribution for 05 (five) other PPP components are also calculated following the procedure, modality and assumptions of the CETP component under BSMSN Development Project financed by World Bank.

Md. Nazrul Islam  
PMMS, STCB

স্বাক্ষরিত  
স্বাক্ষরিত  
স্বাক্ষরিত (স্বাক্ষরিত ও সীলিত)

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Ahmed Rahman  
Director's Office  
Prime Minister's Republic of Bangladesh  
Govt. of the People's Republic of Bangladesh





স্বাক্ষরিত  
 সচিব, সচিবালয়  
 বাংলাদেশ সরকার  
 ঢাকা

শ্রী. এ. এ. এম. এ. এ.

*Masbuni Special*

তারিখ: ০২.০৯.২০২০

০২.০৯.২০২০

সংস্করণ: ০২.০৯.২০২০

স্বাক্ষরিত এবং প্রিন্ট করা হয়েছে।  
 স্বাক্ষর: *[Signature]*  
 প্রিন্ট: *[Signature]*

স্বাক্ষরিত এবং প্রিন্ট করা হয়েছে।

স্বাক্ষরিত এবং প্রিন্ট করা হয়েছে।

তারিখ: ০২.০৯.২০২০  
 স্বাক্ষর: *[Signature]*  
 প্রিন্ট: *[Signature]*

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 Director  
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স্বাক্ষরিত এবং প্রিন্ট করা হয়েছে।  
 স্বাক্ষর: *[Signature]*  
 প্রিন্ট: *[Signature]*

স্বাক্ষরিত এবং প্রিন্ট করা হয়েছে।

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার  
বাংলাদেশ পরিকল্পনা কমিশন  
শিল্প ও শক্তি বিভাগ  
হজিনিয়ারিং এন্ড ইলেকট্রনিক্স উইং  
www.plancomm.gov.bd

আয়েসী নং: ৪০৪৪  
তারিখ: ২৭/১১/২০২০

০২/১১/২০২০

স্মারক নং- ২০.০৫.০০০০.৫৫০২.১৪.০৩১.২০২০-১৫৪

তারিখঃ ০২ অক্টোবর, ১৪২৭ বঙ্গাব্দ  
১৬ নভেম্বর, ২০২০ খ্রি:

বিষয়ঃ প্রধানমন্ত্রীর কার্যালয় কর্তৃক প্রস্তাবিত 'Bangabandhu Sheikh Mujib Shilpa Nagar (BSMNSN) Development Project' শীর্ষক প্রকল্পের উপর অনুষ্ঠিত প্রকল্প মূল্যায়ন কমিটি (২য় পিইসি) সভার কার্যবিবরণী প্রেরণ সংক্রান্ত।

প্রধানমন্ত্রীর কার্যালয়ের আওতাধীন বাংলাদেশ অর্থনৈতিক অঞ্চল কর্তৃপক্ষ (বেজা) কর্তৃক বাস্তবায়নের জন্য প্রস্তাবিত 'Bangabandhu Sheikh Mujib Shilpa Nagar (BSMNSN) Development Project' শীর্ষক প্রকল্পের উপর প্রকল্প মূল্যায়ন কমিটি (২য় পিইসি) এর সভা পরিকল্পনা কার্যালয়ের শিল্প ও শক্তি বিভাগের সদস্য (সচিব) মোবারক নারিনা বেগম -এর সভাপতিত্বে ১২/১১/২০২০ তারিখে পরিকল্পনা কমিশনে অনুষ্ঠিত হয়।

০১। উক্ত সভার কার্যবিবরণী অবগতি ও প্রয়োজনীয় কার্যার্থে নিম্নলিখিতক্রমে এতদসঙ্গে প্রেরণ করা হলো।  
সংযুক্তঃ কর্না মোতা বেক।

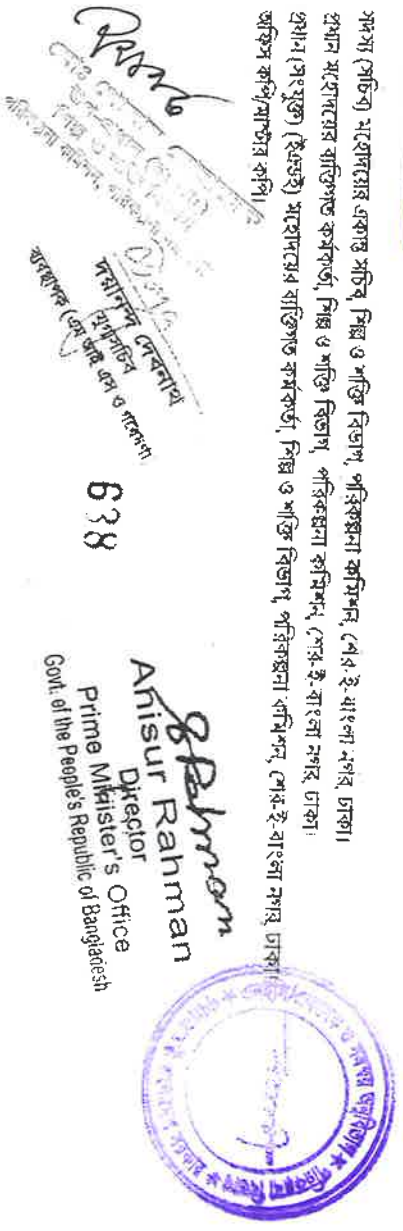
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১১/১১/২০২০

বিভগন (জ্যেষ্ঠতার ক্রমানুসারে নয়):

- ১। মুখ্য সচিব, প্রধানমন্ত্রীর কার্যালয়, তেজগাঁও, ঢাকা (স্: আ:-পরিচালক-১)।
- ২। বিনিয়োগ সচিব, অর্থ বিভাগ, অর্থ মন্ত্রণালয়, বাংলাদেশ সচিবালয়, ঢাকা।
- ৩। সচিব, জনপ্রশাসন মন্ত্রণালয়, বাংলাদেশ সচিবালয়, ঢাকা।
- ৪। সচিব, অর্থনৈতিক সম্পর্ক বিভাগ, অর্থ মন্ত্রণালয়, সের-ই-বাংলা নগর, ঢাকা।
- ৫। সচিব, বাস্তবায়ন পরিকল্পনা ও মূল্যায়ন বিভাগ, সের-ই-বাংলা নগর, ঢাকা।
- ৬। সচিব, পরিবেশ, বন ও জলবায়ু পরিবর্তন মন্ত্রণালয়, বাংলাদেশ সচিবালয়, ঢাকা।
- ৭। সচিব, মহিলা ও শিশু বিষয়ক মন্ত্রণালয়, বাংলাদেশ সচিবালয়, ঢাকা।
- ৮। নিকটস্থ চেয়ারম্যান, বাংলাদেশ অর্থনৈতিক অঞ্চল কর্তৃপক্ষ (বেজা), আব্দুল মোমেন বিজনেস ডিক্লিয়ারেড জেডেপ-১১, ১১১ সীর উত্তম সি. আর সড় রোড, ঢাকা-১২০৫।
- ৯। প্রধান নির্বাহী কর্মকর্তা (সচিব), পাবলিক আইডেন্ট অর্ডনারকীপ অথরিটি, প্রধানমন্ত্রীর কার্যালয়, ১ম-তলা, এনজিও অ্যাডম্যান্স কুত্রো ভবন, স্টেট ই ১৩বি, অপারাগাঁও, সের-ই-বাংলা নগর, ঢাকা-১২০৭।
- ১০। প্রধান, সাধারণ অর্থনীতি বিভাগ, পরিকল্পনা কমিশন, সের-ই-বাংলা নগর, ঢাকা।
- ১১। প্রধান, কার্যক্রম বিভাগ, পরিকল্পনা কমিশন, সের-ই-বাংলা নগর, ঢাকা।
- ১২। প্রধান, এনইসি-একলেক ও সমন্বয় অনুবিভাগ, পরিকল্পনা বিভাগ, সের-ই-বাংলা নগর, ঢাকা।

সদস্য অবগতির জন্য অনুলিপিঃ

- ১। সদস্য (সচিব) মহোদয়ের একান্ত সচিব, শিল্প ও শক্তি বিভাগ, পরিকল্পনা কমিশন, সের-ই-বাংলা নগর, ঢাকা।
- ২। প্রধান মহোদয়ের ব্যক্তিগত কর্মকর্তা, শিল্প ও শক্তি বিভাগ, পরিকল্পনা কমিশন, সের-ই-বাংলা নগর, ঢাকা।
- ৩। প্রধান (সংযুক্ত) (ইংরেজি) মহোদয়ের ব্যক্তিগত কর্মকর্তা, শিল্প ও শক্তি বিভাগ, পরিকল্পনা কমিশন, সের-ই-বাংলা নগর, ঢাকা।
- ৪। অফিস কপি/স্মারক কপি।



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বিষয়ঃ প্রকল্প মূল্যায়ন কমিটি (২য় পিইসি) সভার কার্যবিবরণী।

প্রধানমন্ত্রীর কার্যালয়ের আওতাধীন বাংলাদেশ অর্থনৈতিক অঞ্চল কর্তৃপক্ষ (বেজ) কর্তৃক প্রত্যাহিত 'Bangubandhu Sheikh Mujib Shilpa Nagar (BSMSN) Development Project' শীর্ষক প্রকল্পের উপর ২য় প্রকল্প মূল্যায়ন কমিটি (পিইসি)-এর সভা পরিচালনা কার্যক্রমের শিল্প ও শক্তি বিভাগের সক্ষম প্রৌঢ়ি বোমাসম্ব নাসিমা বেগম এর সভাপতিত্বে গত ১২/১১/২০২০ তারিখের পরিকল্পনা কমিশনে অনুষ্ঠিত হয়। সভায় উপস্থিত কর্মকর্তাদের তালিকা পরিশিষ্ট 'ক' তে সংযুক্ত করা হলো।

২.০১ উপস্থাপনাঃ

২.২। সভাপতি উপস্থিত সকলকে যাপিত জানিয়ে সভার কাজ শুরু করেন। শুরুরেই সভাপতি আগেচা প্রকল্পের উপর সংশ্লিষ্ট উপস্থাপনার জন্য এ বিভাগের প্রধান (সংযুক্ত) কে আহ্বান জানান। প্রধান (সংযুক্ত) বলেন যে, বিবেচ্য প্রকল্পটি মোট ৪৩৬৭.০৪১ কোটি ডিক্রিবি ক্ষম ৩৯৭.১১৬ কোটি এবং বিধবাংক হতে প্রকল্প সাহায্য ৩৯৬৯.৯২৫ কোটি টাকা প্রাকল্পিত ব্যয়ে জানুয়ারি ২০২১ হতে ডিসেম্বর ২০২৫ মেয়াদে বাস্তবায়নের জন্য প্রস্তাবিত। প্রকল্পটির উপর ইতোপূর্বে ১৪/০৬/২০২০ তারিখে ১ম পিইসি সভা অনুষ্ঠিত হয়। তৎপ্রেক্ষিতে গ্রাণ্ড পুনর্গঠিত ডিক্রিপিতে পিইসি সভার সিদ্ধান্ত যথাযথভাবে প্রতিপালন না হওয়ায় এবং ফুটি-কিছুটি থাকায় ডিক্রিপটি যথাযথভাবে পুনর্গঠনের জন্য উদ্যোগী কার্যালয়ে ফেরৎ পাঠানো হয়। উদ্যোগী কার্যালয় কর্তৃক ডিক্রিপটি পুনর্গঠনপূর্বক পুনরায় পরিকল্পনা কমিশনে প্রেরণ করা হয়। পরবর্তীতে পুনর্গঠিত ডিক্রিপি পরীক্ষাভায়ে পুনরায় কিছু পর্যবেক্ষণের উপর ব্যবস্থা গ্রহণ করা প্রয়োজন প্রতীয়মান হওয়ায় প্রকল্পটির উপর ২য় পিইসি সভা আহ্বান করা হয়।

২.২। সভাপতি প্রকল্পটির উপর অনুষ্ঠিত ১ম পিইসি সভার সিদ্ধান্ত ও পরিকল্পনা কমিশনের পর্যবেক্ষণসমূহের বিষয়ে গভীত ব্যবস্থা সম্পর্কে উপস্থাপনের জন্য প্রকল্পের বাস্তবায়নকারী সংস্থা বেজার প্রতিনিধিত্বে আহ্বান জানান। বেজার প্রতিনিধি জানান যে, শিল্পায়নের মাধ্যমে দেশের অর্থনৈতিক উন্নয়নের লক্ষ্যে বাংলাদেশ অর্থনৈতিক অঞ্চল কর্তৃপক্ষ মেম্বারশীপ ১০০টি অর্থনৈতিক অঞ্চল গঠনে কাজ করেছে। এ লক্ষ্যে চট্টগ্রামের মিরনগাই ও সীতাকুণ্ড উপজেলায় এবং হেন্দী জেলার মোনাগাজী উপজেলায় প্রায় ৩০ (ত্রিশ) হাজার একর জমিতে দেশের সবচেয়ে অর্থনৈতিক অঞ্চল স্থাপনের কাজ চলমান রয়েছে। ইতোপূর্বে মিরনগাই ও মোনাগাজী উপজেলায় অবস্থিত 'বঙ্গবন্ধু শেখ মুজিব শিল্পপার' এর ৬টি জোন (BSMSN-1, BSMSN-2, BSMSN-2A এবং BSMSN-2B)) এর প্রায় ২০০০ একর জুমি উন্নয়নপূর্বক ইউটিলিটি সেবা সৃষ্টির মাধ্যমে শিল্প ইউনিট স্থাপনের উপযোগী করে তোলা হয়েছে। ইতোমধ্যে BSMSN-2 জোনে যোগাযোগ ব্যবস্থাসহ অবকাঠামোপত্ত উন্নয়ন করা হয়েছে এবং শিল্প ইউনিটের বরাদ্দ প্রদান করা হয়েছে। বর্তমানে BSMSN-2 এর আওতায় আরো কিছু প্রয়োজনীয় অবকাঠামো যেমন-৩০ কি.মি. ৪-লেন সড়ক, পানি সরবরাহ ও পায়:নিষ্কাশন ব্যবস্থা, নিরাপত্তা বেটশী, প্রশাসনিক ভবন, CETP, Desalination Plant, Steam network, Solid Waste Plant, Biogas Plant, Solar Panel ইত্যাদি স্থাপনের মাধ্যমে উক্ত জোনকে একটি Green Economic Zone হিসাবে গড়ে তোলার পরিকল্পনা নেয়া হয়েছে। এসব কার্যক্রমের মধ্যে ৬টি কাজ Public Private Partnership (PPP) প্রক্রিয়ায় বাস্তবায়ন করা হবে। পশাশাশি বিভিন্ন বিষয়ে খয়ীক্ষা/স্টাডি ও পরামর্শক সেবা গ্রহণ করা হবে।

৩.০১ জাশোচনাঃ

৩.১। পরিকল্পনা কমিশনের প্রতিনিধি জানান যে, প্রকল্পের আওতায় ১ম পিইসি সভায় উপস্থাপিত ডিক্রিপিতে Transport Hiring খাতে মোট ১৬টি যানবাহনের জন্য ৭.২০ কোটি টাকা (আরপিএ) এবং যানবাহন ক্রয়খাতে ১২টি যানবাহনের জন্য ৫.২৯ কোটি টাকা ও ২৭টি মোটরসাইকেলের জন্য ৩৮.০০ লক্ষ টাকা বরাদ্দ প্রস্তাব ছিল। বর্তমানে এ খাতে ২৪টি যানবাহনের জন্য ডিক্রিবি এবং আরপিএসয় মোট ২৭.৬৪৮ কোটি টাকা প্রস্তাব করা হয়েছে। এ সংক্রান্ত অর্থ বিভাগের জনবহু নির্ধারণ কমিটি কর্তৃক আইভার পণ্ডে আউটসোর্সিং প্রক্রিয়ায় মোট ০৮ একক পরিবহন সেবা ক্রয়ের অনুমোদন রয়েছে, তাই কেবল মোটরসাইকেল খাতেই জন্য আনুপাতিক হারে প্রয়োজনীয় জালানির সংস্থান রাখা যেতে পারে মর্মে অর্থ বিভাগের প্রতিনিধি জনগাইন Luoni এ সংশ্লিষ্টদের মাধ্যমে সভাকে অবহিত করেন। এ বিষয়ে সভার বিস্তারিত আলোচনা হয় এবং প্রকল্পের আওতায় ক্রয়ের পরিবর্তে শুমু ০৮টি যানবাহন ভাড়া এবং প্রয়োজনীয় ফ্র্যান্সাইসয় ২৭টি মোটরসাইকেল ক্রয়ের সংস্থান রাখার বিষয়ে সভায় ঐকমত্য প্রকাশ করা হয়।

Training & Study tour খাতে ৬.০০ কোটি টাকা ও Local Training খাতে ২.০০ কোটি টাকা বরাদ্দ প্রস্তাব করা হলেও উক্ত

খাতসমূহের সন্তায্য কার্যক্রম/বিষয় দেশ/অঞ্চল এবং অংশগ্রহণকারী প্রতিষ্ঠান/সংস্থির সংখ্যা ও বিবরণ প্রদান করা হয়নি। এ বিষয়ে

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চলমান পৃষ্ঠা# ২

পেশাসি সেবাসাঃ  
মুদ্রিত  
ক (তারিখঃ ১১/১১/২০২০)



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আয়োজনাতে উক্ত খাতসমূহের নিবরণের বিধারিত বিজ্ঞপ্তি ডিপিপিতে প্রদান করতে হবে মর্মে সচিব কর্তৃক প্রদান করা হয়।

৩.৩। সেবা (Service) খাতের Office building Rental, Machinery and Equipment Rental, Venue Rental, Voucher Program এবং Grant Program অর্ডেটমস্বরূপ পণ্য (Goods) খাতের বেশকিছু অর্ডেটমস্বরূপ পদ্ধতিসমূহ বিত্তারিত প্রকৌশলমন্ডল প্রাণে অন্তর্ভুক্ত করা হইলি। বরং ফুন্টনেটে প্রয়োজন অনুযায়ী ক্রয়পদ্ধতি ব্যবহার করে পরবর্তীতে ক্রয় কার্যক্রম সম্পন্ন করা হবে মর্মে উল্লেখ রয়েছে। সত্যক উল্লেখ করা হয় যে, Public Procurement Rules, 2008 অনুযায়ী ক্রয়যোগ্য সকল অশা ক্রয় পরিকল্পনাভুক্ত থাকে আবেদনকারী। এ পরিপ্রেক্ষিতে ক্রয় সংক্রান্ত বিধি-বিধান যথাযথভাবে উল্লেখপূর্বক ক্রয় পরিকল্পনা প্রণয়ন করতে হবে মর্মে সভায় একমত প্রকাশ করা হয়।

৩.৪। আউটসোর্সিং প্রক্রিয়ায় বিভিন্ন ক্যাটাগরিতে ৯২ একক সেবা ক্রয়ের জন্য অর্থ বিভাগ কর্তৃক অনুমোদন প্রদান করা হয়েছে। কিন্তু উক্ত হিসাবের বিত্তারিত বিজ্ঞপ্তি প্রদান না করায় এর সঠিকতা যাচাই করা সম্ভব নয়। এ খাতের বিত্তারিত বিজ্ঞপ্তি প্রদান করতে হবে মর্মে সভায় আলোচনা হয়। এছাড়া Venue Rental খাতে PEC পূর্ব ডিপিপিগে ৫০.০০ লক্ষ টাকা বরাদ্দ ছিল। এক্ষেত্রে উক্ত খাতে ৩.৬৪ কোটি টাকা বৃদ্ধি করে মোট ৪.২৪ কোটি টাকা প্রস্তাব করা হয়েছে, যা যথাযথ হইলি। এ বিষয়ে সংস্থার প্রতিনিধি জানান, পূর্বের প্রকল্পনাটি বাস্তবতার নিমিত্তে নির্ধারিত না হওয়ায় বর্তমানে বাজার দর মতাইপূর্বক এ খাতের প্রকল্পনাটি প্রস্তাব করা হয়েছে। এ খাতের বরাদ্দ বৃদ্ধির প্রেক্ষাপটে ডিপিপিগে স্পষ্টভাবে উল্লেখ করতে হবে মর্মে সভাপতি সত ব্যক্ত করেন। বিত্তারিত আবেদনাদিতে এ খাতের প্রস্তাবিত ব্যয় মাপ করে যৌক্তিক পরামে নির্ধারণের বিষয়ে সভায় আলোচনা ও একমত হয়।

৩.৫। ডিপিপিগে উল্লিখিত Voucher Program এবং Grant Program বাস্তবায়নের ক্ষেত্রে প্রশিক্ষণ প্রতিষ্ঠান/সিদ্ধি প্রতিষ্ঠান নির্বাচনের প্রক্রিয়া সম্পর্কে জানতে চাওয়া হলে সংস্থার পক্ষ থেকে জানানো হয় যে, Voucher Program বাস্তবায়নে ডিপিপিগে সম্ভাব্য প্রশিক্ষণ প্রতিষ্ঠানের নাম উল্লেখ করা হয়েছে মাত্র। পরামর্শক প্রতিষ্ঠান নিয়োগের মাধ্যমে উক্ত বিষয়ে বিত্তারিত সঙ্গীক্ষা সম্পাদনপূর্বক প্রশিক্ষণের বিষয়, মডিউল, প্রতিষ্ঠান এবং প্রশিক্ষণার্থী নির্বাচন করে Voucher Program বাস্তবায়ন করা হবে। অপরদিকে, Grant Program বাস্তবায়নের বিষয়ে সংস্থা জ্ঞানায় যে, Green Economic Zone হিসেবে শিল্প প্রতিষ্ঠানকে Sustainable করার ক্ষেত্রে Neced Basis নির্ধারণপূর্বক কার্যক্রমটি বাস্তবায়নের বিষয়ে ব্যাখ্যাসহ সুস্পষ্ট কর্মসূচীশাল ডিপিপিগে সংযুক্ত করা হবে। বিত্তারিত আবেদনাদিতে এসব বিষয় ডিপিপিগে যথাযথভাবে প্রতিফলনের বিষয়ে সভায় একমত প্রকাশ করা হয়।

৩.৬। প্রকল্প ডিপিপি পঞ্জিগে ৬ ধরনের অবকাঠামো নির্মাণের লক্ষ্য সরকারি অংশে ২৪৪৫.০০ কোটি টাকা এবং বেসরকারি অংশে ২১৬১.৫০ কোটি টাকা প্রাকল্পন করা হয়েছে। সরকারি অংশের ব্যয় প্রস্তাবিত প্রকল্পের আওতায় বিশ্বব্যাংকের প্রকল্প ঋণ থেকে নির্ভর করা হবে। পর্যবেক্ষণে দেখা যাচ্ছে যে, ডিপিপি'র ব্যয় বিভাজন ছকে উক্ত ৬টি অবকাঠামো নির্মাণে শুল্ক সরকারি অংশের প্রাকল্পন উল্লেখ করা হইলেও বেসরকারি অংশের প্রাকল্পন উল্লেখ করা হইলি। এ অংশের প্রাকল্পন ডিপিপি'র Annexure-IV এ উল্লেখ করা হয়েছে। এতে প্রকল্পের প্রাকল্পনটি অসম্পূর্ণ বলে প্রতীয়মান হচ্ছে। আবেদনাকালে উল্লেখ করা হয় যে, অর্থনৈতিক উন্নয়নে বেসরকারি বিনিয়োগকে উৎসাহিতকরণের লক্ষ্যে সরকারি ডিপিপি পঞ্জিগে প্রকল্প বাস্তবায়নে গুরুত্ব প্রদান করেছে। কাজেই প্রস্তাবিত ডিপিপিগে সরকারি এবং বেসরকারি সংস্থান সুস্পষ্টভাবে উল্লেখ করতে হবে। এ প্রসঙ্গে আলোচনা শেষে ডিপিপি অংশের ব্যয় ডিপিপির ৯.০ নম্বর অনুচ্ছেদের ফুন্টনেটে উল্লেখ করা য়েতে পারবে মর্মে সভায় একমত হয়। এ পর্যায়ে প্রধান (শিল্প ও শক্তি) উল্লেখ করেন যে, ডিপিপি পঞ্জিগে বাস্তবায়নের জন্য যে কয়টি অশা প্রস্তাব করা হয়েছে, সেগুলো পরবর্তীতে বিলম্ব হলে প্রকল্পটির বাস্তবায়নও বিলম্বিত হওয়ার আশঙ্কা রয়েছে। বেজার প্রতিনিধি বলেন যে, ডিপিপি অবকাঠামোসমূহ নির্মাণসহ প্রকল্পের ঋণ প্রাপ্তির বিষয়ে বিশ্বব্যাংকের সাথে ধারাবাহিক যোগাযোগ/সভায় মাধ্যমে নির্ধারণ করা হয়েছে। বিত্তারিত আবেদনাদিতে ডিপিপি অবকাঠামোসমূহ বাস্তবায়নকালে প্রস্তাবিত সরকারি-বেসরকারি সংস্থানের ব্যয় সামঞ্জস্যতা (synchronization) রক্ষায় রাখতে হবে মর্মে সভায় একমত পোষণ করা হয়।

৩.৭। পরিকল্পনা কমিশনের প্রতিনিধি বলেন যে, ১য় পিছদে সভায় উপস্থাপিত ডিপিপিগে মসজিদ নির্মাণ খাতে ৬.০০ কোটি টাকার সংস্থান থাকলেও বর্তমানে এ খাতে ২০.০০ কোটি টাকা প্রস্তাব করা হয়েছে, যা অজযিক। বেজার প্রতিনিধি বলেন যে, এটি তৃতীয় বৃহত্তম ফিল্ডনগরী হবে, যেখানে প্রায় ২৪ লক্ষ লোকের কর্মসংস্থান হবে। সে মোতাবেক রঞ্জিত ডিআইএনের ডিভিগে মসজিদ নির্মাণ খাতে ব্যয় বৃদ্ধি করা হয়েছে। এ প্রসঙ্গে প্রধান (শিল্প ও শক্তি) বলেন যে, মসজিদটিতে কত লোকের সমাগম হবে, তার সম্ভাব্য ধারণক্ষমতা বিবেচনায় ধারণপূর্ত অধিদপ্তরের রেন্ট সিউইল অনুযায়ী মসজিদ নির্মাণের ব্যয় প্রাকল্পন করতে হবে। উপস্থিত সদস্যগণ এ বিষয়ে একমত প্রকাশ করেন।

৩.৮। সভায় অন্যান্য: ২য় মে, গান, বিদ্যুৎ এবং টেলিকমিউনিকেশন সংযোগের বিষয়ে সংশ্লিষ্ট প্রতিষ্ঠান থেকে প্রত্যয়নসহ প্রাকল্পন সংযুক্ত করা প্রয়োজন। সংস্থার পক্ষ থেকে প্রয়োজনীয় প্রাকল্পন ও প্রত্যয়ন সংগ্রহের ব্যয়খা গ্রহণের বিষয়ে সভাকে আশ্বস্ত করা হয়।

সভাপতি সেফায়া  
সুপ্রসিদ্ধি  
সংসদ (সে. অফ. এন্ড এ. মাসেন)

Anisur Rahman  
Director  
Prime Minister's Office  
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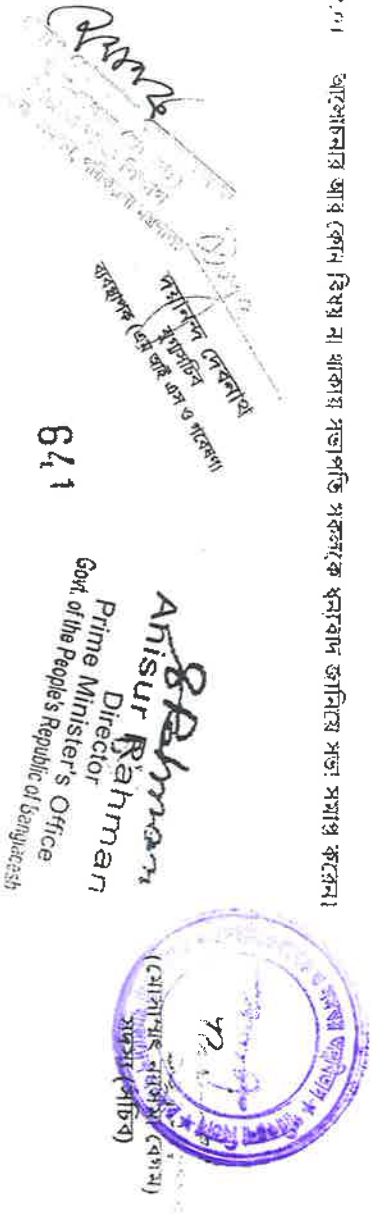
একইসাথে Environment lab and Monitoring System নির্মাণের জন্য প্রাকল্পিত বায়ের বিজ্ঞপ্তিত বিবরণীসহ প্রয়োজনীয় বাস্তবায়ন গাইডলাইন, জনবল ও পঞ্জিকালন পঞ্জি সম্পর্কে ডিপ্লিমেণ্টে উল্লেখ করা হবে এবং সঠিক সতর্ক অবহিত করেন।

৩.৯। পরিবেশ, বন ও জলবায়ু পরিবর্তন মন্ত্রণালয়ের প্রতিনিধি কর্তৃক প্রকল্পের আওতায় প্রণীতব্য মাস্টারপ্লানে দেশব্যাপী পরিবেশ উপযোগী অধুনৈতিক অঞ্চলের স্থান চিহ্নিত করে এর আওতায় সাময়িক কার্যক্রম বাস্তবায়নের সংস্থানের বিষয়ে জানতে চাওয়া হলে কোয়ার প্রতিনিধি জানান যে, প্রণীতব্য মাস্টারপ্লানে পরিবেশ সম্পর্কে একটি সাময়িক চিত্র পাওয়া যাবে, যা চিত্রিতে এ প্রকল্পের সংশ্লিষ্ট অংশের কার্যক্রম বাস্তবায়ন করা হবে। এছাড়া অধুনৈতিক সম্পর্ক বিভাগের প্রতিনিধি অবহিত করেন যে, বিষয়্যাংকের 'Private Sector Development Support Project (PDSSTP)' শীর্ষক ঋণসুতির আওতায় পৃথিব্য অন্যান্য প্রকল্পগুলো দ্রুত প্রক্রিয়া করা হচ্ছে। কাজেই আগোচ্য খুণ্ডপূর্ণ প্রকল্পটি দ্রুত প্রক্রিয়াকরণ করা আবশ্যিক মর্মে তিনি মত প্রকাশ করেন। আইএমইউ'র প্রতিনিধি বলেন যে, ডিপ্লিপি'র সংশ্লেষের OVI, MOV, IA, input, output ও Local সটিকভারে নির্ধারন করতে হবে এবং সুনির্দিষ্ট, সময়াবদ্ধ ও পরিমাপযোগ্য তথ্যাদির জিভিতে লগস্ট্রেম প্রণয়ন করতে হবে। কার্যক্রম বিভাগের প্রতিনিধি বলেন যে, প্রকল্পের অংশসমূহ সটিক অধুনৈতিক কোডে প্রণীত হওয়া প্রয়োজন।

৪.০। সিদ্ধান্তঃ বিজ্ঞপ্তিত আপোচনার পর নিম্নলিখিত সিদ্ধান্ত প্রতিলিপন সাগেজে প্রস্তাবিত প্রকল্পটি অনুমোদনের অন্য সর্বসম্মতিক্রমে সুপারিশ করা হয়ঃ

- ৪.১। প্রকল্পের আওতায় ৮ (আট)টি যানবাহন অর্জায় সংগ্রহ এবং প্রয়োজনীয় জ্বালানীবহ ২৭টি মোটরসাইকেল ক্রয়ের সংস্থান রেন্টে ডিপ্লিপি পুনর্গঠন করতে হবে;
- ৪.২। Investment Promotion (Foreign) এবং Foreign Training & Study Tour ও Local Training খাতসমূহের সম্ভাব্য বিষয়/কার্যক্রম, দেশ/অঞ্চল এবং অংশগ্রহণকারী প্রতিষ্ঠান/ব্যক্তির সংখ্যা ও বিবরণসহ বিজ্ঞপ্তিত বিভাজন ডিপ্লিপিতে প্রদান করতে হবে;
- ৪.৩। ক্রম সংক্রান্ত বিধি-বিধান অনুসরণপূর্বক ক্রয় পরিকল্পনা যথাযথভাবে প্রণয়ন করতে হবে;
- ৪.৪। অর্থ বিভাগ কর্তৃক অনুমোদিত কাটাগারিজিভিক আর্টসোসাইটিং সেবাগ্রহণ খাতের বিজ্ঞপ্তিত বিভাজন প্রদান করতে হবে। Venue Rental খাতের ব্যয় স্থান করে মৌলিক পর্যায় নির্ধারণ করতে হবে এবং এর ডেফালাটে ডিপ্লিপিতে উল্লেখ করতে হবে;
- ৪.৫। Voucher Program এর আওতায় প্রশিক্ষণের বিষয়, যতিউল, প্রতিষ্ঠান এবং প্রশিক্ষণার্থী নির্বাচন প্রক্রিয়া সম্পর্কে ডিপ্লিপিতে উল্লেখ করতে হবে। শিষ্য প্রতিষ্ঠানসমূহকে sustainable করার লক্ষে neede basis নির্ধারণপূর্বক Granti Program কার্যক্রমটি বাস্তবায়নের বিষয়ে বিবরণসহ সুস্পষ্ট কর্মকৌশল ডিপ্লিপিতে সংযুক্ত করতে হবে;
- ৪.৬। পিপ্লিপি পঞ্জিতে বাস্তবায়নের জন্য প্রস্তাবিত অবকাঠামোসমূহের বেসরকারি অংশের কয় প্রাকল্পন ডিপ্লিপি'র ৯.০ নম্বর অনুসূচদের ফুটনোটে উল্লেখ করতে হবে। পিপ্লিপি অবকাঠামোসমূহ বাস্তবায়নে প্রস্তাবিত সরকারি-বেসরকারি সংস্থানের ঝরে সামঞ্জস্যতা (synchronization) বজায় রাখতে হবে;
- ৪.৭। প্রকল্পে প্রস্তাবিত মসজিদে কত লোকের সমাগম হবে, তার সম্ভাব্য সংখ্যা ও মসজিদের ধারণক্ষমতা বিবচনায় গণপূর্ত অধিদপ্তরের রেট সিভিলজ অনুযায়ী উক্ত মসজিদের নির্মাণ ব্যয় প্রাকল্পন করতে হবে;
- ৪.৮। গ্যান, বিদ্যুৎ এবং টেলিকমিউনিকেশন সংযোগের বিষয়ে সংশ্লিষ্ট প্রতিষ্ঠান থেকে প্রত্যানসহ প্রাকল্পন সংগ্রহের ব্যবস্থা গ্রহণ করতে হবে। Environment lab and Monitoring System নির্মাণের জন্য প্রাকল্পিত বায়ের বিজ্ঞপ্তিত বিবরণীসহ প্রয়োজনীয় বাস্তবায়ন গাইডলাইন, জনবল ও পঞ্জিকালন পঞ্জি সম্পর্কে ডিপ্লিপিতে উল্লেখ করতে হবে;
- ৪.৯। ডিপ্লিপি'র সকল অংশ সটিক অধুনৈতিক কোডে প্রণয়ন করতে হবে। প্রকল্পের আওতায় প্রণীতব্য মাস্টারপ্লান অনুযায়ী প্রকল্পসুত্র পরিবেশ সংক্রান্ত কার্যক্রম বাস্তবায়নে প্রয়োজনীয় অর্ধের সংস্থান রাখতে হবে; এবং
- ৪.১০। ডিপ্লিপি'র লগস্ট্রেমের OVI, MOV, IA, input, output ও Local সটিকভারে নির্ধারণ করতে হবে এবং সুনির্দিষ্ট, সময়াবদ্ধ ও পরিমাপযোগ্য তথ্যাদির জিভিতে লগস্ট্রেম প্রণয়ন করতে হবে।

৫.০। আন্তঃমন্ত্রন আর কোন বিষয় না থাকায় সভাপতি সরকারে ধন্যবাদ জানিয়ে সভা সমাপ্ত করেন।



উপস্থিত কর্মকর্তাদের তালিকা

বিষয়ঃ "Bangabandhu Sheikh Mujib Shilpa Nagar (BSMISN) Development Project"

সভার তারিখ ও দিনঃ ২২/১১/২০২০ খ্রি: বৃহস্পতিবার।

সময়ঃ সকাল ১০:৩০ ঘটিকা, সভার স্থানঃ পাবককন্যা বিভাগের সম্মেলন কক্ষ, রক-১০, কক্ষ-৩, গেজেট বাংলা নগর, ঢাকা।

সভাপতিঃ মোশারফ নাসিমা কোমর, সদস্য (সচিব), শিল্প ও শক্তি বিভাগ, পাবককন্যা কারিসন।

ক্রমিক নং	নাম ও পদবি	স্বাক্ষরণ/বিভাগ/সংস্থা	ফোন নম্বর	স্বাক্ষর
১.	ড. আনিসুর হাশিম ফিরোজ গুপ্ত (সচিব, সচিব)			
২.	ইংল্যান্ড-আর্দেহ নিবাসী স্যার মৃ-	CEEA	০১৭৭৭৫৫ ৫১২	
৩.	কাজির আলম প্রকল্প (স্বয়ংস্বিক) (সচিব:সচিব)	ফার্ম ৬ অফিস ২ বিয়েট স্ট্রিট কমলা হাট শ/৫		
৪.	MUSTA NEZAM স্বয়ংস্বিক (গ্রেড:সচিব)	(সচিব)	০১৭৭৬ - ৪৪৭৭৭	
৫.	ডাঃ. সায়মা সায়মা স্বয়ংস্বিক	সফটওয়্যার ডেভেলপমেন্ট (স্বয়ংস্বিক)	০১৭১৫৭৭৩৩৩	
৬.	ডঃ. রাফিকুল আমিন স্বয়ংস্বিক	IMED	০১৭১১৭০৩০৪	
৭.	ডাঃ. মঞ্জিল আনিসুর হাশিম (সচিব:সচিব)	(সচিব)	০১৫৫০১৫১৭১	
১০.	ডঃ. মোস্তাফিজুর রহমান স্বয়ংস্বিক	সফটওয়্যার অফিস স্বয়ংস্বিক	০১০১৭১১৩৩১৭৪১	
১১.	Hasad Alimuddin স্বয়ংস্বিক	CEEA	০১৭১৬৫৭১২১	
১২.	ডাঃ. মোস্তাফিজুর হাশিম স্বয়ংস্বিক	সফটওয়্যার স্বয়ংস্বিক		

১৩.

স্বাক্ষরিত  
মুহুরিত  
১৩/১১/২০২০

৬১




**Musur Rahman**  
Director  
Prime Minister's Office  
Govt. of the People's Republic of Bangladesh

Component -2: Statement (As per DPP)

Work Components	Quantity	Estimated Cost (in Lac)
1 Resilient Site upgrade and Building Development	1,22,830 cum Earth preparation, 1,27,400 sqm Plantation Tree Guard Placement	5,000.00
2 Construction of Investors Club	600 sqm well decorated building, swimming pool, landscaping etc.	3,000.00
3 Furnished OSS Centre for BSMSSN	Building facilities	1,000.00
4 Mosque	1380 sqm (Well decorated Building)	2,000.00
5 Emergency Response Centre	3000 sqm	2,500.00
6 Construction of Skills Development Center	1025 sqm X 3	1,500.00
7 Construction of Child Care & Emergency Health Care Center	1025 sqm X 3	1,500.00
8 Road Network	30 km	40,600.00
9 Drainage structures (Storm Water)	31 km	21,200.00
10 Sanitation & Water Supply (Sewer Network & Water Supply Network)	10 km	18,700.00
11 Excavation (Channel Lining)	10 km	5,085.00
12 Telecommunication systems	25 km	1,700.00
13 Power Network	33 KVA Electric line 20 km, 11 KVA Line 13.50 km and 4 nos. 20/28 MVA Transformer	16,150.00
14 Gas pipeline network	28 km	17,000.00
15 Security and Support Amenities	40 km security boundary with surveillance camera	12,750.00
16 Central Effluent Treatment Plant (PPP)	48 mld	20,400.00
17 Desalination plant (PPP)	30 mld	38,250.00
18 Sewer network (PPP)	12.14 km	6,800.00
19 Solid Waste Management (PPP)	100 acre	12,750.00
20 Biogas plant, waste sorting and material recovery facility (PPP)	40 acre	6,800.00
21 Rooftop and floating solar (PPP)	(10-60) MW	59,500.00
22 Environmental Lab & Monitoring System	280 sqm	790.00
23 Land Development	100 Lac cum	25,500.00
<b>Total Works</b>		<b>320,475.00</b>


Note : The Works shown in this table are described in Section-9 of recent DPP where some components were shown as Lump-Sum. It is noted that all the components described above will be quantified after Consultant's assessment which could be possible only after commencement of the project. However, some components which were initially indicated as Lump-Sum, are quantified in the table mentioned above.


  
Md. Rafiqul Islam  
Estimator


  
Subrata Sarkar  
Office Engineer

  
Dr. VG. Hiremath  
Team Leader  
BETS JV  
TAS FOR D&S of Infrastructure Works at Mirsarai EZ  
Bangladesh Economic Zone Authority



  
স্বাক্ষর: মোঃ রাফিকুল ইসলাম  
মিঃ রাফিকুল ইসলাম  
মিঃ রাফিকুল ইসলাম  
মিঃ রাফিকুল ইসলাম  
মিঃ রাফিকুল ইসলাম

  
স্বাক্ষর: সুব্রতা সর্কার  
মিঃ সুব্রতা সর্কার  
মিঃ সুব্রতা সর্কার  
মিঃ সুব্রতা সর্কার  
মিঃ সুব্রতা সর্কার

  
স্বাক্ষর: ডঃ বিজয় হিরেমাথ  
মিঃ বিজয় হিরেমাথ  
মিঃ বিজয় হিরেমাথ  
মিঃ বিজয় হিরেমাথ  
মিঃ বিজয় হিরেমাথ