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Section - 6

SPECIFICATIONS

**(General specifications have been mentioned in drawings
and Bills of Quantities)**

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• Section - 7

• **BILLS OF QUANTITIES**

- 1. Include Preliminary Bill items as Bill No. 1**
- 2. VAT Component shall be filled in Bills of Quantities and it shall not be carried to Form of Bid.**
- 3. Any discount offered will not be considered for Provisional Sum Items**

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PROPOSED STORM WATER CULVERT FOR HAIG ROAD

ITEM	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
	Bill No 01				
1.0	Preliminaries				
1.1	Provisional sum for providing Performance security.		Provisional sum		29,000.00
1.2	Provisional sum for providing an Advance Payment security.		Provisional sum		111,600.00
1.3	Provisional sum for insurance of the works, Machinery & equipment, Plant, Materials, third party persons & property and Employer's personnel & property at site as per contract.		Provisional sum		105,000.00
1.4	Provisional sum for insurance of against accident and injury to contractor's personnel as per th contract..		Provisional sum		100,000.00
	Contractor's Facilities				
1.5	Allow lump sum for constructing, maintaining, dismantling and removal on completion of the works, a temporary site office of adequate size including staff rest room and toilets and other facilities for the contractor's site management staff in accordance with the plans prepared by the Contractor and concurred by the Engineer.	Item			
1.6	Allow lump sum for constructing, maintaining, dismantling and removal on completion of the works, building to be used as workshops and stores for perishable materials. Buildings shall be constructed in accordance with the drawing prepared by the Contractor and concurred by the Engineer. The lump sum shall also include for altering, modifying or dismantling and re-erecting within the site all temporary buildings/stuctures if required.	Item			
1.7	Allow lump sum for constructing, maintaining, dismantling and removal on completion of the works, temporary building to in accordance with the plans prepared by the Contractor and concurred by the Engineer to accommodate by the following: a) Workers' rest room, canteen facilities, kitchen b) Toilet & wash areas. c) Sick/First - Aid room	Item			

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ITEM	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
	d) Accommodation for Contractor's staff and workmen including sanitary facilities on site of applicable. Facilities to workmen shall conform to the latest public health and industrial regulation.				
1.8	Allow lump sum for providing Accommodation including sanitary facilities and transport Contractor's staff and workmen off site.	Item			
1.9	Allow lump sum for providing telephone and facsimile facilities, electricity and water services for the contractor's site office for their use in connection with the works.	Item			
1.10	Allow lump sum for maintenance, rental, consumption charges etc. for telephone and facsimile facilities, electricity and water services for the contractor's site office for their use in connection with the works.	Item			
	<u>SETTING OUT</u>				
1.11	Allow lump sum for employing a licensed land surveyor to define the building site work etc., check levels and carry out such other surveys as may be necessary to establish accurately the placing of forms and pouring of concrete and all other setting out in both vertical and horizontal plane.	Item			
1.12	Allow lump sum for setting out of works in accordance with drawing and other written information given by the Engineer.	Item			
	<u>QUALITY, STANDARDS & PROGRESS</u>				
1.13	Allow Lump sum for provision of progress report photographic record and other schedules including in the ICTAD publication-Guideline for Effective Construction Management. (ICTAD/CM/01), relevant to contract administration as directed by the Engineer.	Item			
1.14	Allow lump sum for all cost in connection with preparing samples for testing, making arrangement for testing of materials, goods etc, as stipulated in the specification, obtaining test reports and submitting the same to the Engineer.	Item			
1.15	Allow lump sum for provision of shop drawings, bar schedules etc. for Engineer's approval.	Item			

ITEM	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
	<u>Health, Safety & Environment</u>				
1.16	Allow lump sum for following services throughout the period of construction for Engineer's office, contractor's site office and worker's rest room and other facilities; a) Employing Workmen to clean and maintain all areas to be in good hygienic conditions including toilets, wash areas, kitchen etc. rest room, canteen facilities, kitchen b) Supplying adequate drinking water, water for washing purposes, soap, detergent, etc. throughout the period of construction.	Item			
1.17	Allow Lump sum for providing all necessary safety measures to workmen at site conforming to the latest industrial safety regulation and as directed by the Engineer.	Item			
1.18	Allow Lump sum for demobilization, removal of all rubbish & debris and clearing up site on completion, leaving all in good order and handing over.	Item			
1.19	Allow Lump sum for employing an adequate number of security personnel and security system on full time basis throughout the period of construction, and provide for necessary security lighting and a warning system.	Item			
1.20	Allow lump sum for providing and maintaining necessary fencing, hoarding, and gates for safeguarding the works, materials and plant as directed by the Engineer.	Item			
1.21	Allow lump sum for stamp duty in accordance with the prevailing regulations of the Government.	Item			
1.22	Allow lump sum for providing and maintaining a name board to the specifications and/or directed by the Engineer.	Item			
	Total carried over to summary				

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PROPOSED STORM WATER CULVERT FOR HAIG ROAD

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT(Rs.)
	Note : All the items below, rate included for supplying of materials.				
2.0	Bill No 02				
	Note :- Road Cutting Permit should be taken by the contractor from the Central Road Maintenance Unit (CRMU) of CMC which is belongs to CMC and road cutting permit should be taken by RDA if road belongs to RDA.				
2.1	TEMPORARY REINSTATEMENT				
	Removing of Interlock block paved road pavement and temporary reinstate dealing with all existing utility services.	m ²	6.00		
	Note: Permanent reinstatement should be done by CRMU of CMC and reinstatement cost has to be paid to CRMU separately by the contractor which is belongs to CMC and road cutting permit should be taken by RDA if road belongs to RDA.				
2.2	PERMANENT REINSTATEMENT				
	Permanent reinstatement of damage Interlock paved pavement.			Provisional sum	40,000.00
2.3	<u>DEMOLISHING WORK</u>				
2.3.1	Demolishing existing Rcc culvert and Rail way track and debries cleared as directed.	Item	Allow	Sum	
2.4	<u>EARTHWORKS</u> <u>Refer drawing</u>				
2.4.1	Excavation for box drains & Culvert material other than top soil, rock or artificial hard material.				
2.4.1.1	Maximum depth 2'- 3 m.	m ³	292.00		
2.5	<u>SHORING</u>				
2.5.1	Earthwork supporting system comprising H-iron vertical supports to required centers and timber planks between H-iron.				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT(Rs.)
2.6	<p>Maximum depth exceeding 3.0m and not exceeding 4.0m, distance between opposing faces exceeding 4.0m and not exceeding 5.0m.</p> <p><u>BED PREPARATION</u></p> <p>Preparation of excavated surfaces, with ABC layer, in bases of box drain & culvert</p>	m ²	127.00		
2.7	<p><u>DISPOSAL OF EXCAVATED MATERIAL</u></p> <p>Disposal of excavated material away from the site.</p>	m ²	35.50		
2.8	<p><u>FILLING</u></p> <p>Filling to structures with Boulders at sea side.</p>	m ³	45.00		
2.9	<p><u>DEWATERING SYSTEM</u></p> <p>Lowering the water table; Lowering the ground water level below the proposed invert level upto final excavated surface of the drain.</p>			Provisional sum	2,000,000.00
2.9.1	Average depth of water not exceeding 2.00 m.	m	20.00		
2.10	<u>INSITU CONCRETE</u>				
2.10.1	Grade 20 mass concrete (20mm aggregate)				
2.10.2	<p>Benching in box drains, thickness not exceeding 150mm.</p> <p>Grade 30 reinforced concrete (20mm aggregate)</p>	m ³	1.00		
2.10.2.1	Top slabs in box drains, thickness: 250mm.	m ³	17.50		
2.10.2.2	Culvert walls & base	m ³	22.00		
2.1	<p><u>FORMWORK</u></p> <p>Fair finish, plywood shuttering for soffit of top slabs in box drains, plane horizontal, including dismantling as approved by engineer.</p>	m ²	10.50		

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT(Rs.)
2.12	REINFORCEMENT				
	Characteristic strength of high yield Tor steel bars: 460 N/mm ² .				
2.12.1	Nominal size 16mm in bases, top slabs and walls in box drains.	kg	1890.00		
2.12	PRECAST CONCRETE				
	Supplying and placing precast concrete units for culverts, concrete grade 30 (20mm aggregate) ready mix, 1.20m x 1.20 m internally x 1.00m long units consisting of 300mm thickness base, side walls. and 300mm top slab.reinforcement and lifting hooks, mass 6.00 tonne per meter.concrete units shall manufactured of SEC, ICC or SD & CC or approved equivalent complete to working order. Refer drawing No: ME/DR/AB/ST/10/2021/DR-04	m	12.00		
2.13	MASONARY WORK				
	Construction of 2000x400x1000mm size random rubble side wall for the culvert	m ²	2.00		
2.14	RAILWAY REFIXING				
	Necessary payments to ceylon Government Railway on removing and refixing to railings and signal arrangements during the construction.				
				Provision Sum	7,000,000.00
2.15	PREPARATION OF RAILWAY				
	Providing and placing not exceeding 1m thick railway cushion	m ³	42.00		
2.16	DEWATERING				
	Lowering the water table; Lowering the ground water level below the proposed invert level upto final excavated surface of the pipe line.				
2.16.1	Average depth of water not exceeding 2.0m	Lm	20.00		
2.17	SEA SIDE BARRIER				
	Provide and placing 450mm thick random rubble wall with out cement motar for preventing waves during the construction period.				
				Provision Sum	150,000.00

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ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT(Rs.)
2.18	AS BUILT DRAWING Submission of as built drawing indicating the ground level,invert level and lacion of the manholes and alingment of the drain with respect to the national coordinates.The reference line of the road edge ,curb edge and other features as directed by the engineer to be produced in 1: 1000 scale in A1 size.				
Item Allow Sum					
TOTAL BILL NO 2.0					

SUMMARY	
Bill No 01 Preliminaries	
Bill No 02	
Sub Total	
10% Contingencies	
5% Price fluccuation	
Grand Total	
8% VAT	
Project Amount	

Bidder's Signature :

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Section -8
DRAWINGS