

1273

**ORIGINAL**

**Section - 6**

**SPECIFICATIONS**

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

ORIGINAL

• 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**

Issued under  
Draft

127

**ORIGINAL**

**COLOMBO MUNICIPAL COUNCIL**  
**MUNICIPAL ENGINEER'S DEPARTMENT**

**PROJECT : REPAIRING OF DAMAGED SEWER LINE ACROSS THE CANAL AT  
VELUWANA ROAD, DEMATAGODA**

ITEM	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
	<b>Bill No 01</b>				
1.0	<b>Preliminaries</b>				
1.1	Provisional sum for providing Performance security.		Provisional sum		10,000.00
1.2	Provisional sum for providing an Advance Payment security.		Provisional sum		30,000.00
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		15,000.00
1.4	Provisional sum for insurance of against accident and injury to contractor's personnel as per th contract..		Provisional sum		20,000.00
	<b>Contractor's Facilities</b>				
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 roomand 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 costructed in accordance with the drawing prepared by thē Contractor and concurred by the Engineer.The lump sum shall also include for altering, modifyng or dismantling and re-erecting within the site all temporary buildings/stuctures if required.	Item			

ITEM	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
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 d) Accomadation 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.	Item			
1.8	Allow lump sum for providing Accomadation including sanitary facilities and transport Contractor's staff and workment 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			
1.11	Allow lump sum for contractor's transport facilities at site.	Item			
	<b>SETTING OUT</b>				
1.12	Allow lump sum for employing a licensed land surveyor to define the bulding 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			

ITEM	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
1.13	Allow lump sum for setting out of works in accordance with drawing and other written information given by the Engineer.	Item			
	<b><u>QUALITY, STANDARDS &amp; PROGRESS</u></b>				
1.14	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			
1.15	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			
1.16	Allow lump sum for provision of shop drawings, bar schedules etc.for Engineer's approval.	Item			
1.17	Allow lump sum for provision of 2 sets of (hard copies and soft copies) as-built drawings of all services, for Engineer's approval.	Item			
	<b><u>Health, Safety &amp; Environment</u></b>				
1.18	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			
1.19	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			

**ORIGINAL**

124

ITEM	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
1.20	Allow Lump sum for making adequate provision against air and noise pollution of surrounding areas. Hoarding and dust screens shall be provided to control dust escaping to surrounding areas.	Item			
1.21	Allow Lump sum for maintaining the site in a clean and orderly manner at all times and during the entire contract period.	Item			
1.22	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			
1.23	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			
1.24	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			
1.25	Allow lump sum for protection of public and private services at site. The contractor shall take due care to protect, water supply and drainage systems, telephone and overhead/buried electrical cables etc. whose location are identified and made available to the bidder at the time of bidding, unless earmarked for demolition, during the execution of the works. the contractor is to make good any cause within his control at his own expense or pay any cost and charges in connection therewith.	Item			
1.26	Allow lump sum for supply of water for the works and paying all charges and other expenses in connection with the supply from water mains or any other alternative method of water supply, storage and reticulation.	Item			
1.27	Allow lump sum for supplying temporary electricity for the works including connection, distribution system for the works, internal arrangements and all payments to the authorities for consumption.	Item			

ITEM	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
1.28	Allow lump sum for providing hoisting equipment and other plant for the use of the works on site(drv hire).	Item			
1.29	Allow lump sum for providing small machinery and equipment for the use of the works at site.	Item			
1.30	Allow lump sum for erecting and maintaining scaffolding and/or self climbing platforms. Such scaffolding etc. shall be removed on completion and all works disturbed shall be made good.				
1.31	Allow lump sum for stamp duty in accordance with the prevailing regulations of the Government.	Item			
1.32	Allow lump sum for providing and maintaining a name board to the specifications and/or directed by the Engineer.	Item			
1.33	Allow lump sum for excavation for trial pits/trial treches as specified or as directed by th engineer as for location services etc. and reinstating the ground and making good disturbed work to the satisfaction of the Engineer.	Item			
<b>Total Preliminaries carried over to summary</b>					

ORIGINAL

122

REPAIRING OF DAMAGED SEWER LINE ACROSS THE CANAL AT VELUWANA ROAD, DEMATAGODA

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<b>BILL NO 02</b> <b>Note:-</b> 1. All the items below rate included for supplying of materials. 2. Prior to do pricing the contractor is advised to do a detail inspection of the site. <b>Note :-</b> 1. Road Cutting Permit should be taken by the contractor from the Central Road Maintenance Unit (CRMU) of CMC 2. The contractor should be obtained approval from SLLRDC for construction activities near the canal bank				
<b>2.1</b>	<b>DEMOLITIONS</b>				
<b>2.1.1</b>	Demolitions of existing damaged sewer line	Item	Allow	Sum	
<b>2.1.2</b>	Demolishing a part of Gabion wall and retaining wall with removing the debris as directed by the CMC	Item	Allow	Sum	
<b>2.2</b>	<b>TEMPORARY DIVERSION OF SEWER LINE</b>				
	Existing sewer diversion during the construction period	Provisional Sum			80,000.00
<b>2.3</b>	<b>COFFER DAM</b>				
	Temporary build a coffer dam with sand filled gunny bags along/across the canal to block/divert existing flow and removing after the construction as site condition.	Item	Allow	Sum	
<b>4</b>	<b>SHORING</b>				
	Supply and install a suitable earth support system using steel light duty sheet piles during the construction period.(Rate to include working space of the manhole				
<b>2.4.1</b>	Depth not exceding 5.5m	m <sup>2</sup>	33.0		
<b>2.5</b>	<b>PIPE WORK</b>				
	Item shall include excavation in trenches, removal of excess eart,preparation surfaces, backfilling and compaction with suitable imported available material by 150mm thick compacted layers.Provide grade 600 UPVC pipes of nominal bore 225mm diameter in open trenches.				



**ORIGINAL**

121

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
2.5.1	Invert Depth not exceeding 5.50m	Lm	34.5		
2.6	<b>CONCRETE</b> 100mm thick 525mm width 1:2:4(20mm) cement concrete bed and haunching including form work throughout the 225mm diameter pipes as per detailed drawing No.ME/DR/AB/SW/16/2021/DR-03	m <sup>3</sup>	5.2		
2.7	<b>MANHOLES</b> Item shall include shoring , excavation, removal of excess earth, preparation of surface ,backfilling and compaction with suitable available material 150mm thick compacted layers. Form work, concrete work reinforcement, connection of pipe ends, providing and fixing of D 400 Type clear opening of 600 mm diameter DI cover and Frame comply with BS.EN .124 , as per the detail drawing & 25mm hot dip galvanized steps at 300mm c/c. Comply with( BS.EN. ISO 1461 : 2009). Shoring measured seperately for depth more than 2.0m .				
2.7.1	<b>1200 x 900 mm Size</b> 1200 X 900 mm internal dimensions, 75mm thick screed with 1:3:6 (25mm) cement concrete & 200mm thick base and walls with 1:11/2:3(20mm) concrete, <u>double reinforced</u> rectangular man holes. (As per detail drawing No.(ME/DR/AB/SW/16/2021/DR-04)Concrete walls should have a satisfactory smooth finish.				
2.7.1.1	Invert depth not exceeding 5.50 m(MH 01, MH-02 )	Nos.	2.0		
2.8	<b>TEMPORARY REINSTATEMENT.</b> Removing of Tar paved road and temporary reinstate according to CMC specification dealing with all existing utility service.	m <sup>2</sup>	3.00		
2.9	<b>PERMANENT REINSTATEMENT</b> Permanent reinstatement of damaged tar paved road				
				Provisional Sum	55,000.00
2.10	<b>DEWATERING</b> Dewatering using 4" dia water pump including necessary Power Supply,Delivery Hoses as directed by Engineers				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
2.10.1	Average depth of water not exceeding 5.5m	Hr	200.0		
<b>2.11</b>	<b>CONSTRUCTION &amp; RECONSTRUCTION OF GABION WALL</b>				
2.11.1	Reconstruction of PVC coated Gabion boxes in position including filling with 4"x6" rubble & tightening etc as per the detailed drawings and specifications.(80% of removed rocks can be reuse)	m <sup>3</sup>	10.8		
2.11.2	Suppling and Laying PVC coated Gabion boxes in position including filling with 4"x6" rubble & tightening etc as per the detailed drawings and specifications.(80% of removed rocks can be reuse)	m <sup>3</sup>	2.7		
<b>2.12</b>	<b>GEOTEXTILE LAYER</b>				
	Supply and Laying of non woven geotextile filter layer behind the gabion wall as per the detailed drawings and specification.	m <sup>2</sup>	19.0		
<b>2.13</b>	<b>BACKFILLING</b>				
	Approved earth supplying, spreading, levelling watering and manual compaction, using standard cast iron stamper or equivalent and filling in 150mm thick layers in restricted areas.	m <sup>3</sup>	6.0		
<b>2.14</b>	<b>CONNECTION</b>				
	Item shall include connection of replaced pipe line to CMC sewer Manhole	Item	Allow	Sum	
<b>2.15</b>	<b>PROTECTION OF OTHER SERVICES.</b>				
	Protection of other services. (Rate shall include for precautions to these service lines or diverting them and repairs to structures if it is damaged due to construction processes.)				
Provisional Sum					100,000.00
<b>TOTAL OF BILL NO.02</b>					

**SUMMARY**

Bill No 01 Preliminaries	
Bill No 2.0	
Sub Total	
10% Contingencies	
5% Price Fluctuation	
Grand Total	
08% VAT	
<b>Project Amount</b>	

Bidder's Signature : .....