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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**

COLOMBO MUNICIPAL COUNCIL
MUNICIPAL ENGINEER'S DEPARTMENT

PROJECT: CONSTRUCTION OF FORCE MAIN AT G.NO 133, KETAWALA MULLA ROAD, COLOMBO 10

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Bill No 01				
1.0	Preliminaries	Item			
	Note:- 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.				
2.0	Bill No.02				
2.1	TEMPORARY REINSTATEMENT				
2.1.1	Removing of concrete surface and temporary reinstate dealing with all existing utility services.	m ²	40.00		
2.1.2	Removing of pre-mixed surface and temporary reinstate dealing with all existing utility services.	m ²	3.00		
2.2	PERMANENT REINSTATEMENT				
2.2.1	Permanent reinstatement of damage concrete surface in pre-mixed road.			Provisional Sum	50,000.00
2.2.2	Permanent reinstatement of damage bitumen surface in pre-mixed road.			Provisional Sum	20,000.00
2.3	PIPE WORK				
	Item shall include excavation in trenches preparation of surfaces removal of excess earth shoring, dewatering, backfilling and compaction with suitable and imported earth by 150 mm thick compacted layers.				
2.3.1	Supply and fixing 110mm nominal bore type 1000 UPVC bends of various angles in open trenches pipes with spigot and socket push on type using rubber seal, flexible high performance joint to withstand internal pressure of 10 bars & external pressure of 3 bars in open trenches				
2.3.2	Invert depth not exceeding 0.0 - 1.0m	m	36.00		
	Provide lay and join spigot and socket grade 600 UPVC Pipes of nominal bore 160mm diameer in open trenchers.				
	Invert Depth 0 - 1.0m	Lm	2.7		

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
2.3.3	Supply quarry Dust along the 110mm diameter pipes. Item shall include preparation of surfaces removal of excess earth shoring, dewatering, backfilling and compaction with suitable and imported earth by 450 mm thick compacted layers.	m ³	7.00		
2.4	SUPPORTS AND PROTECTION, ANCILLARIES TO LAYING AND EXCAVATION Item shall include excavation in trenches preparation of surfaces removal of excess earth shoring, dewatering, backfilling and compaction with suitable and imported earth by 150 mm thick compacted layers. Item shall deemed to include Concrete, form work joints and finishes.				
2.4.1	Concrete thrust Blocks for 160mm nominal bore type 1000 UPVC pipes length 1m with 1:11/2:3 (20 mm) concrete.	m ³	0.09		
2.4.2	110mm nominal bore type 1000 UPVC bends of various angels in open trenches pipes with spigot and socket push on type using rubber seals, flexible high performance joint to withstand internal pressure of 10 bars & external pressure of 3 bars in open trenches 90 deg & 45 deg long radius bend	Nos	3.00		
2.5	VENT SHAFT FOR PRESSURE RELEASING CHAMBER. Provide 150mm diameter DI vent shaft height not less than 20 Feet over roof level at the nearest building and fixing a copper wire dome or any other suitable protection as per the engineers approval on top of the pipe including connection to M/H with same pipes.	Nos	1.00		
2.6	SUPPLY AND INSTALL SUBMERSIBLE WET WELL PUMPS FITTINGS AND ELECTRICAL PANEL.				
2.6.1	Supply and install Non self-priming, single stage Submersible pump designed for handling unscreened raw sewage as per the specification. This pump designed for intermittent and continuous operation in submerged installation. Impeller should be in single-Chanel cutter type. This pump should be 220 V, 50 Hz and Stainless steel lifting chain. This pump should have a stand. The pump should be capable of delivering waste water of a capacity of 1.0 l/s from 50mm delivery port. include stand by pump. Electrical panel should be IP 68 enclosure class.	Nos	2.00		

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
2.6.2	Supply & fixing DI 110 mm pipes & fixing with Non Return Valve	Nos	2.00		
2.6.3	Supply & fixing DI 110 mm pipes & fixing with Gate valve	Nos	2.00		
2.6.4	Supply & Fixing screening as per shown in the drawing No:ME/DR/MA/SW/181/2021/01	Nos.	1.00		
2.7	MANHOLE Item shall include excavation, removal of excess earth, preparation of surface, dewatering, backfilling and compaction with suitable available material 150mm thick compacted layers. Form work, concrete work, reinforcement, connection of pipe ends, providing and placing of D400 Type clear opening of 600mm dia. DI Cover & Frame comply with BS EN 124 & 25mm dia. solid hot dip galvanized steel steps at 300mm c/c.(comply with BS EN/ISO 1461 :2009)				
2.7.1	600X600mm internal dimensions, 75mm thick screed with 1:3:6 (25mm) cement concrete & 150mm thick base and walls with Grade 25 [1 : 1 1/2 : 3(20mm)] concrete, single reinforced rectangular manholes.Rate to include for 1:3 cement sand plaster in benching;and concrete walls should have a satisfactory smooth finish , plastering not allowed.				
2.7.1.1	Invert depth 1.5m (Proposed Manhole MH1)	Nos.	1.0		
2.8	SEPTIC TANK-BRICK Construction of 30 person septic tank excluding necessary excavation all complete as per the Drawing	Nr.	1.00		
2.9	CONNECTIONS				
2.9.1	Item shall include drop connection to existing manholes as directed by the engineer	Item			
2.10	TESTING AND COMMISSION Presure testing force main line at 50m intervals including VJ cupling and othe acessories	Item			
Total Bill No 02					

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SUMMARY	
Bill No 01	
Bill No 02	
Sub Total	
10% Contingencies	
Grand Total	
8% VAT	
Project Amount	

Bidder's Signature

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