Section - 6

SPECIFICATIONS

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



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



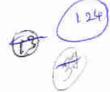
MUNICIPAL ENGINEERS' DEPARTMENT COLOMBO MUNICIPAL COUNCIL

DUPLICATE

CONSTRUCTION OF LATERAL SEWER LINES AT KATHIRESHAN STREET, COLOMBO.13.

ITEM	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
	Biil No 01				
1.0	Preliminaries				
1.1	Provisional sum for providing Performance security.		Provisiona	l sum	60,000.00
1.2	Provisional sum for providing an Advance Payment security.	!	Provisiona	l sum	100,000.00
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.	22	Provisiona	l sum	22,000.00
1.4	Provisional sum for insurance of against accident and injury to contractor's personnel as per th contract.	1	Provisiona	l sum	20,000.00
	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 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 the 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		e2	
1.7	Allow lump sum for providing Accomadation including sanitary facilities and transport Contractor's staff and workment off site.	ltem			
1.8	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			
1.9	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			





ITEM	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
	QUALITY, STANDARDS & PROGRESS				
1.10	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		2	
1.11	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.	ltem			
1.12	Allow lump sum for provision of shop drawings, bar schedules etc.for Engineer's approval.	Item			
	Health, Safety & Environment				
1.13	Allow lump sum for following services throughout the period of	Item			
	 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. throuhtout the period of costruction. 				
1.14	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			
1.15	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			
1.16	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		G.	
1.17	Allow lump sum for provding and maintaining necessary fencing, hoarding, and gates for safeguarding the works, materials and plant as directed by the Engineer.	ltem			
1.18	Allow lump sum for stamp duty in accordance with the prevailing regulations of the Government.	Item			
	Total carried over to summary			-	





ITEM	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
	SECTION - 1				
	Note: All the items below, rate included for supplying of ma	terials.			
2.0	Bill No 02			De l	
	NOTE: Road cutting Permit should be taken by the contractor from the Central Road Maintenance Unit ((CRMU) of CMC).				
2.1	TEMPORARY REINSTATEMENT				
	Removing of Asphalt surface and teamporary reinstate dealing with all existing utility service.	m2	120.00		
	NOTE: Permanent reinstatement should be done by CRMU of CMC and reinstatement cost has to be paid to CRMU separetaly by the contractor.				
2.2	PERMANENT REINSTATEMENT	, d			
	Permanent reinstatement of damage bitumen surface in pre-mixed road.		Provincial	Sum	1,335,000.0
2.3	PIPE WORK	81			
	Item shall include excavation in trenches, removal of excess earth, shoring, dewatering, preparation surfaces, backfilling and compaction with suitable imported material by 150mm thick compacted layers. Rate to include for 300mm thick Quarry Dust layer on top of the pipe line.				
2.3.1	Provide lay and join spigot and socket grade 600 UPVC pipes of nominal bore 160mm diameter in open trenches.				
	Invert depth 2.0m	Lm	70.00		
2.3.2	Provide lay and join spigot and socket grade 600 UPVC pipes of nominal bore 225mm diameter in open trenches.		,		
	Invert depth 2.0m	Lm	10.00		
2.4	CONCRETE				
	100mm thick 1:2:4(20mm) cement concrete in bed and haunching along the UPVC pipes. Rate shall include for Form work .Refer Drawing No. ME/DR/AB/SW/13/2021/DR-01	m³	7.00		



ITEM	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
2.5	MANHOLE				
	Item shall include excavation, removal of excess earth, shoring, preparation of surface, dewatering, backfilling and compaction with suitable imported material 150mm thick compacted layers. Form work, concrete work reinforcement, connection of pipe ends, providing and fixing of D 400 Type clear opening of 600mm Diameter D.I.Cover & Frame, comply with (BS. EN.124) & 25mm diameter hot dip galvanized steps at 300mm c/c. Comply with (BS.EN. ISO 1461: 2009).				
2.5.1	750 X 750mm internal dimensions, 75mm thick screed with 1:3:6 (25mm) cement concrete & 200mm thick base and walls with 1:11/2:3(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.ME/DR/AB/SW/13/2021/DR-02	-			
	Invert depth not exceeding 1.0m (P1 to P6)	Nos	6.00		
2.6	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.)		Provisiona	l sum	100,000.0
2.7	Temporary diversion of existing flow of sewer line during the construction period.	Item	Allow	Sum	
2.8	Back Drop Connection of new pipe line to the existing Road Manhole and repair manholes walls properly without any leakage.(02 Nos)	Item	Allow	Sum	
	TOTAL CARRIED TO GRAND SUMMARY				
	SECTION - 2				
	Note : All the items below, rate included for supplying of ma	tariale			
	Bill No 03	teriais,			
	NOTE: Road cutting Permit should be taken by the contractor from the Central Road Maintenance Unit ((CRMU) of CMC).	ē	9		
3.1	TEMPORARY REINSTATEMENT				
	Removing of Asphalt surface and teamporary reinstate	m2	102.00		





UNIT AMOUNT RATE QTY. DESCRIPTION TEM NOTE: Permanent reinstatement should be done by CRMU of CMC and reinstatement cost has to be paid to CRMU separetaly by the contractor. PERMANENT REINSTATEMENT 3.2 1,135,000.00 Permanent reinstatement of damage bitumen surface in Provincial Sum pre-mixed road. PIPE WORK 3.3 Item shall include excavation in trenches, removal of excess earth, shoring, dewatering, preparation surfaces, backfilling and compaction with suitable imported material by 150mm thick compacted layers.Rate to include for 300mm thick Quarry Dust layer on top of the pipe line. Provide lay and join spigot and socket grade 600 UPVC pipes 3.3.1 of nominal bore 160mm diameter in open trenches. 58.00 Lm Invert depth 2.0m Provide lay and join spigot and socket grade 600 UPVC pipes 3.3.2 of nominal bore 225mm diameter in open trenches. 10.00 Lm Invert depth 2.0m CONCRETE 3.4 6.00 100mm thick 1:2:4(20mm) cement concrete in bed and haunching along the UPVC pipes. Rate shall include for Form work .ME/DR/AB/SW/13/2021/DR-01 MANHOLE 3.5 Item shall include excavation, removal of excess earth, shoring, preparation of surface, dewatering, backfilling and compaction with suitable imported material 150mm thick compacted layers. Form work, concrete work reinforcement, connection of pipe ends, providing and fixing of D 400 Type clear opening of 600mm Diameter D.I.Cover & Frame, comply with (BS. EN.124) & 25mm diameter hot dip galvanized steps at 300mm c/c. Comply with (BS.EN. ISO

not

plastering

1461 - 2000)

satisfactory

3.5.1

750 X 750mm internal dimensions, 75mm thick screed with

1:3:6 (25mm) cement concrete & 200mm thick base and walls with 1:11/2:3(20mm) concrete, single reinforced rectangular manholes.Rate to include for 1:3 cement sand plaster in benching and concrete walls should have a

finish

smooth allowed.ME/DR/AB/SW/13/2021/DR-02





ITEM	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
	Invert depth not exceeding 1.0m-1.5m (P7 to P11)	Nos	5.00		
3.6	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.)	1	Provisiona 1	Isum	100,000.00
3.7	Temporary diversion of existing flow of sewer line during the construction period.	ltem	Allow	Sum	
3.8	Back Drop Connection of new pipe line to the existing Road Manhole and repair manholes walls properly without any leakage.(02 Nos)	ltem	Allow	Sum	
	TOTAL CARRIED TO GRAND SUMMARY				
-	SECTION - 3				
	Bill No 04				
	Note : All the items below, rate included for supplying of ma	aterials.			
	NOTE: Road cutting Permit should be taken by the contractor from the Central Road Maintenance Unit ((CRMU) of CMC).				
4.1	TEMPORARY REINSTATEMENT				
4.1.1	Removing of pre-mixed surface and teamporary reinstate dealing with all existing utility service.	m2	46.50		
	NOTE: Permanent reinstatement should be done by CRMU of CMC and reinstatement cost has to be paid to CRMU separetaly by the contractor.			>e	
4.2	PERMANENT REINSTATEMENT		1	•	
4.2.1	Permanent reinstatement of damage Asphalt paved surface	i	. Provincia	l Sum	848,000.00
4.3	DEMOLISHING				
	Demolishing & removing existing pipe line, manhole and removing them away from the site.	Item	Allow	Sum	



ITEM	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
4.4	PIPE WORK				
	Item shall include excavation in trenches, removal of excess earth, shoring, dewatering, preparation surfaces, backfilling and compaction with suitable imported material by 150mm thick compacted layers. Rate to include for 300mm thk Quarry Dust layer on top of the pipe line.				
4.4.1	Provide lay and join spigot and socket grade 600 UPVC pipes of nominal bore 160mm diameter in open trenches.				
	Invert depth 2.0m	Lm	21.00		
4.4.2	Provide lay and join spigot and socket grade 600 UPVC pipes of nominal bore 225mm diameter in open trenches.				
	Invert depth 2.0m	Lm	10.00		
4.5	CONCRETE				
	100mm thick 1:2:4(20mm) cement concrete in bed and haunching along the UPVC pipes. Rate shall include for Form work .ME/DR/AB/SW/13/2021/DR-01	m³	3.00		
4.6	MANHOLE				
	Item shall include excavation, removal of excess earth, shoring, preparation of surface, dewatering, backfilling and compaction with suitable imported material 150mm thick compacted layers. Form work, concrete work reinforcement, connection of pipe ends, providing and fixing of D 400 Type clear opening of 600mm Diameter D.I.Cover & Frame, comply with (BS. EN.124) & 25mm diameter hot dip galvanized steps at 300mm c/c. Comply with (BS.EN. ISO 1461: 2009).				
1.6.1	750 X 750mm internal dimensions, 75mm thick screed with 1:3:6 (25mm) cement concrete & 200mm thick base and walls with 1:11/2:3(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.(P12,P13 & P14)ME/DR/AB/SW/13/2021/DR-02 Invert depth not exceeding 1.0m - 1.5m	Nos	3.00		
1.6.2	1200 X 900mm internal dimensions, 75mm thick screed with 1:3:6 (25mm) cement concrete & 200mm thick base and walls with 1:11/2:3(20mm) concrete, double 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. (Proposed MH1)ME/DR/AB/SW/13/2021/DR-03				





TEM	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
	Invert depth not exceeding 3.5m	Nos	1.00		
4.7	SHORING				
	For Manhole				
	Supply and install a suitable earth support system using steel, timber or timber and steel together during the construction period.			^	
	Invert depth exceeding 2.0m.	m2	44.00		
4.8	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.)		Provisiona	al sum	100,000.00
4.9	Temporary diversion of existing flow of sewer line during the construction period.	Item	Allow	Sum	
4.10	Back Drop Connection of new pipe line to the existing Road Manhole and repair manholes walls properly without any leakage.(01 Nos)	Item	Allow	Sum	
4.11	AS BUILT DRAWING				
	Submission of as built drawing indicating the ground level, invert level & location of manholes & alignment of the drain with respet to the national coordinates & mean sea level. The reference line of the road edge, curb edge & other features as directed by the engineer to be produced in 1: 1000 scale in A1 size.		Provisiona	I Sum	25,000.00
	TOTAL CARRIED TO GRAND SUMMARY			-	





CONSTRUCTION OF LATERAL SEWER LINES AT KATHIRESHAN STREET, COLOMBO.13.

Bill No 01 Preliminaries	
Bill No 02 (Section 1)	
Bill 140 02 (Section 1)	
Bill No 03 (Section 2)	
Bill No 04 (Section 3)	
Sub Total	
10% Contingencies	
Grand Total	
8% VAT	
Project Amount	

Bidder's	Signature

Section -8

DRAWINGS