

Dhaka Water Supply & Sewerage Authority
Office of the Executive Engineer
MODS Zone-1, Dhaka WASA

Name of Work: Repairing and Maintenance of Delivery main and Wash out line at Bangabhaban DTW under MODS Zone-1, Dhaka WASA.

SL No.	Item No.	Description of Items of Works (specifications preferably built-In)	Unit	Quantity	Unit rates (In figures) (BDT)	Amount (In figures) (BDT)
Division - 02: PIPELINE INSTALLATION WORK (Based on Analysis)						
1	1.1	Installation and laying of High Density Polyethylene (HDPE) water pipelines by Open Cut method in accordance with the technical specification and the standard detailed drawings, of any diameter specified below. The rate includes for excavation in all kinds of soil, BFS/HBB/Bituminous road/Cement Concrete/Reinforced Cement Concrete road surface except rock to the full depth of trench required by the specifications, precautions necessary to avoid damage of underground utility services, (if any damage occurs, Contractor shall repair by his own cost) including removing the excavated earth & stacking the same to safe distance without any traffic obstacles, de-watering of the trench to keep dry condition at all times, including all necessary shoring, boxing, must be protected from any collapse of trench sides, transportation of pipes to site, cleaning, jointing and laying of the water pipes; as per specifications and direction of Engineering in charge.				
	d)	225 mm dia	P/m	12.00	2794.001	33528.012
2	2	Extra-over item 1 for supplying and installing of HDPE (PN16, PE 100, SDR 11) fittings in accordance with the technical specification and the standard detailed drawings, of any diameter specified below. The rate includes for transportation of fittings to site, cleaning, jointing and laying of the fittings as per specifications and direction of Engineering in charge.				
	2.2.4	TEE - EF				
	a)	225x225x225 mm	P/Nr	2.00	6749.001	13498.002
3	2.4.2	Sleeve/Coupler - EF				
	a)	225 mm dia	P/Nr	8.00	6142.001	49136.008
4	4.0	Extra-over item 1 for the supply, depositing and compaction of fine sand (FM 0.8) for bedding and surrounding the pipes up to required depth with proper ramming of 150mm layer as per specifications and direction of Engineering in charge and standard detail drawings for all pipelines.	Cum	4.20	708.001	2973.604

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W. H. Hossain

SL No.	Item No.	Description of Items of Works (specifications preferably built-In)	Unit	Quantity	Unit rates (In figures) (BDT)	Amount (In figures) (BDT)
5	5.0	Extra-over item 1 for the supply, depositing and compaction of fine sand(FM 0.8) for backfilling up to required depth in accordance with the technical specification and direction of Engineering in charge, and standard detail drawings for all water pipe line diameters.	Cum	18.48	708.001	13083.858
6	6.0	Extra-over item 1 for backfilling by excavated soil including depositing and compaction at all required depth in accordance with the technical specification and direction of Engineering in charge, and standard detail drawings for all water pipe line diameters.	Cum	4.54	347.001	1573.997
7	7.0	Extra-over item 1 for the excavation and removal of soft soil (on written permission of E/C) from the trench bottom beyond allowable depth in accordance with the technical specification and direction of Engineering in charge	Cum	22.68	745.001	16896.623
8	8.0	Extra over item 1 for completing temporary reinstatement of rigid and flexible paved road by one layer brick soling with full burned 1st class bricks of appropriate size (excavated bricks of proper sizes and quality is allowed to use) of the existing surfaced road in accordance with the technical specification and direction of Engineering in charge, and standard detail drawing for all water pipeline of any diameters for the type of road Surface given below				
	8.1	One layer Herringbone bond (HBB)	Sqm	8.40	689.001	5787.608
	8.2	Brick on end edging	P/m	24.00	110.001	2640.024
9	9.0	Extra-over item 1 for the completing hydrostatic pressure test of main pipeline at 5 bar pressure for 6 hours with allowable limit of maximum 10% total water loss mentioned in specification in accordance with Technical Specification and direction of Engineering in charge. Contractor will use potable water for the pressure test. The rate includes for the supply of all necessary testing equipment, fittings, arrangement, water, any repair and improvement for successful of test.				
	9.2	250 mm - 315 mm	P/m	12.00	76.001	912.012
10	10.0	Extra-over item 1 for the disinfection testing of the water Pipelines in accordance with Technical Specification and direction of Engineering in charge. The rate includes all necessary arrangement, equipment, chemicals, materials and Water.	P/m	12.00	37.001	444.012

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Adhuni

SL No.	Item No.	Description of Items of Works (specifications preferably built-In)	Unit	Quantity	Unit rates (In figures) (BDT)	Amount (In figures) (BDT)
11	12.0	Placing of Mass concrete 1:3:6 for the anchor blocks at all bends, tees, end caps and reducers, including the supply of all materials in accordance with technical specification and direction of Engineering in charge and standard drawings. The rate to include for necessary additional excavation; supply of all materials and for the wrapping of all HDPE fittings encased in concrete with two layers of heavy duty polythene sheeting.	Cum	2.40	7149.001	17157.602
12	4	Extra-over item 1 for the supply (including supply of fittings described in schedule of requirement Annex-----) and installation following adopters for jointing components of pipelines, diameter given below, as per specifications and direction of Engineering in charge and the standard detail drawings.				
	4/3.	CI F/Adopter.				
	f)	225 mm dia Flange Adapter in/c nut-bolts	P/Nr	4.00	2750.001	11000.004
13	5	Extra-over item 1 for the supply (including supply of fittings described in schedule of requirement Annex----) and lay of Ductile/cast iron gate valves and fittings within chamber as per specifications and direction of Engineering in charge and the standard detail drawings within chamber as per specifications and direction of Engineering in charge and the standard detail drawings within chamber as per specifications and direction of Engineering in charge and the standard detail drawings				
		Gate Valve C.I				
	5/1.	Gate valve (FI.. type) BS 5150 Local				
	c.	200mm dia	P/Nr.	2.00	31557.150	63114.30
		Construction of Sluice Valve Chamber: Schedule-2				
14	1	Earth work in excavation up to the required depth for pipeline chamber all kinds of soil, precautions necessary to avoid damage of under ground utility services, including removing the excavated earth & stacking the same to safe distance. de-watering machine will be install for maintain the excavation site to dry condition at all time and disposal of surplus excavated materials etc. all complete as per Drawing, Specification & Direction of the E/C	Cum	8.19	171.350	1403.70
15	2	Supply and laying of single layer Polythene Sheet weighing one Kg per 6.5 Sqm in floor or any where below cement concrete in all respect and in accordance with Technical Specification and direction of Engineering in charge.	sqm	5.12	313.950	1607.42
16	3	Placing of Mass concrete (1:3:6) for the base slab of water pipe line chamber including the supply of all materials all in accordance with Technical Specification and direction of Engineering in charge, and standard drawings.	cum	0.38	5628.100	2161.19

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SL No.	Item No.	Description of Items of Works (specifications preferably built-In)	Unit	Quantity	Unit rates (In figures) (BDT)	Amount (In figures) (BDT)
17	4	Placing of Reinforced Cement concrete (1:2:4) for the top slab with stone chips 3/4" size and down graded of water pipe line chamber including the supply of all materials, in accordance with Technical Specification and direction of Engineering in charge, and Standard Details Drawings.	sqm	0.77	6474.500	4972.42
18	5	Form work/shuttering prot and necessary support etc (wooden).	sqm	5.12	347.300	1778.18
19	6	Extra over item 4 for fixing of Mild steel reinforcing rods in top slab of chamber all in accordance with the technical specification and standard details drawings. The rate to include for supply transportation cleaning of loose rust and binding cutting and fixing with G. I. Binding wire.	Kg	50.00	74.750	3737.50
20	7	Erection of Brickwork (1:4) for the walls 125mm th. Of chamber at any req. depth, all in accordance with Technical Specification and direction of Engineering in charge and standard details drawings. The rate to include for the supply of first class bricks, the preparation of. Sand cement mortar including the supply of all materials and flush pointing to the face of the brickwork wall.	cum	3.38	5541.850	18703.74
21	8	Extra over item 7 for the provision of sand cement plaster (1:4) to the faces of chamber flush pointing finish, all in accordance with Technical Specification and direction of Engineering in charge, and standard Details. The rate to include for the supply of all materials	sqm	13.50	205.850	2778.98
22	10	Provision of Bituminous coating to the external faces of chamber and service pits at all depths, in accordance with the Technical Specification. To include for the supply of all materials.	sqm	13.50	120.750	1630.13
23	11	Water tightness testing of completed Gate valve and washout chambers in accordance with the technical specification. The rate to including for the supply of all necessary materials and testing water.	Each	2.00	508.300	1016.60
24	14	Interconnection of water pipelines to any existing water supply networks, the rate includes for excavation, cutting, necessary plugging, de-watering, cleaning and unplugging, protection and repair of any existing structures. All works shall be done in accordance with Technical Specification and direction of Engineering in charge and Standard detail Drawings for the diameter of the existing water pipelines given below.				
	14/3.	200 /225 mm dia PVC	Each	2.00	2809.001	5618.002

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Signature

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SL No.	Item No.	Description of Items of Works (specifications preferably built-In)	Unit	Quantity	Unit rates (In figures) (BDT)	Amount (In figures) (BDT)
25	20	Hire charge of de-watering Pump : Bailing out of all water from pipe line trench with supply of de-watering pump required size including supplying of fuel lubricants and all other required accessories & manpower to keep the trench in a dry condition at all times etc. all completed as per direction of the E/C.	P/day	4.00	2327.501	9310.004
26		Site Cleaning and providing safety measures etc. all complete as per direction of E/C.	LS	1.00	10000.001	10000.001
Total Tk=						296463.523

In word: Taka Two Lac Ninty Six Thousand Four Hundred Sixty Three point Five Two Three Only.


19/09/2023
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19.09.23
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