

Office of the Executive Engineer
MODS Zone-7, Dhaka WASA

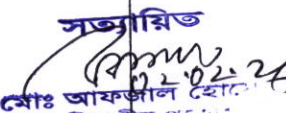
Name of the work: Interconnection of 160 mm dia water line at 1 No. road of Matuail New Town Sahar Polli under MODS Zone-7, Dhaka WASA.

Estimate

Part-A (Departmental Material Costs)						
Item No	Basis of rate	Description of Item of the Works	Unit	Quantity	Unit rate (Tk.)	Amount (Tk.)
1	2	3	4	5	6	7
1	Approved Rate	The following materials will be supplied from the departmental store if available and the same will be carried to the site by the Contractor at his own expenses. The Contractor will have to submit insurance against the departmental materials. If antPmaterials supplied by the deptl. be comes excess after exception of the work the same shall be 'eturned to WASA store as per direction of the E/C. In case of any materials is lost damaged or not returned to the stores, cost of the same will be deducted from the contractors bill at the double of the issue rate fixed by the competent authority.				
		a.160 mm dia HDEP pipe (ISO 4442-2)	P/M	310.000	1236.000	383,160.000
Part -A Taka						383,160.000
Part:B (Construction of water line)						
Item No	Basis of rate	Description of Item of the Works	Unit	Quantity	Unit rate (Tk.)	Amount (Tk.)
1	2	3	4	5	6	7
1	Approved Rate	Laying of unplasticied polyvinyl chloride (UPVC/DI) Pipe & sihings shown below in accordance with the technical specification and the standard detail drawing of any diameter and to the depth specified. The rate is include for excavation in all kinds of soil except rock to the full depth of trench requied by the specification (including allowances for the bedding materiaks); de-watering of the trench to keep the trench in a dry condition at all times, preparation of trench bottom provision & laying of sand bedding & surrounding materials including boxing if required up to a depth of 1.2. M, transport to site, laying jointing and cleaning of the water pipe lines backfilling of the trench with selected excavated earth to the original ground level or underside of the temporary road reinstatement, removal and disposal of surplus excavated materials and transporting back the surplus materials to Dhaka WASA stores supplied by Dhaka WASA (cost of excess excavated earth shall be deducted from the contractors bill as per rate mentioned in the departmental materials schedule) distance without any traffic obstacles de-watering of the trench to keep dry condition at all timesincluding all necessary shoring boxing must be protechted from any collapse of trench sides preparation of trench bottom, at deph of 1.2.M, transport (all kinds of materials, equipment, pipes and fittings) to site, laying jointing and cleaning of the water pipes disposal of surplus excavated materials and transport back surplus materials to Dhaka WASA stores (materials supplied by Dhaka WASA described in Anexure) as per specifications and direction of Engineering Incharge (cost of excess excavated earth would be deducted as per deptd, material rate)				
		a.160 mm dia HDEP pipe (ISO 4442-2)	P/M	310.000	85.762	26,586.220

সত্যায়িত
১২-০২-২৬
মোঃ আফজাল হোসেন
উপ-নির্ভরীয় প্রকৌশল
মডস জোন-৭, ঢাকা WASA

2	Approved Rate	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, standard detail drawings and direction of Engineering in charge				
		(a) 225x160x225 mm dia Upvc Tee (PN-10)	Each.	3.000	4130.378	12,391.134
		(b) 225x160x110 mm dia Upvc Tee	Each.	2.000	4130.378	8,260.756
3	Approved Rate	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, standard detail drawings and direction of Engineering in charge				
		(a) 225 mm dia Dresser-Coupling With Nut-bolts.	Each.	8.000	1535.260	12,282.080
		(b) 160 mm dia Dresser-Coupling With Nut-bolts.	Each.	12.000	1299.147	15,589.764
		(c) 110 mm dia Dresser-Coupling With Nut-bolts.	Each.	4.000	1299.147	5,196.588
4	Approved Rate	(a) Extra-over item 1 for the supply, depositing and compaction of fine sand (FM 0.8) bedding, surrounding and above 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	103.774	611.986	63,508.235
		(a) Bedding and surrounding by River Saturated Sand (F.M 0.8).				
		$310.00 \times 0.60 \times 0.60 = 111.600$				
		$(-) 310.00 \times 0.785 \times (0.16)^2 = (-) 7.826$				
		$= 103.774 \text{ cum}$				
		(b) Extra-over item 1 for the supply depositing and compaction of fine sand back filling (FM 0.8) 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	223.200	611.986	136,595.275
		$310.00 \times 0.60 \times 1.20 = 223.200 \text{ cum}$				
5	Approved Rate	Back filling by excavated granular soil including depositing and compaction at all required depth in accordance with the technical specification by excavated soil for kutchra road surface	cum	93.000	163.055	15,164.115
		$310.000 \times 0.60 \times 0.5 = 93.000 \text{ cum}$				
6	Approved Rate	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 and back fill of this by supplying, depositing and compaction in 150 mm layer of fine sand (FM 0.8) at all required depth in accordance with the technical specification and direction of Engineering in charge,	cum	326.974	350.462	114,591.962
		$(4a + 4b) = 252.574 \text{ cum}$				
7	Approved Rate	The excavation of trial holes and the completion of back fill with approved fill materials, all in accordance with the technical specification.	cum	2.660	194.819	518.219
		$1 \times 1.21 \times 1.21 \times 1.82 = 2.66 \text{ cum}$				
8	Approved Rate	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.				
		(a) 225 mm dia uPVC pipe	Each.	2.000	2735.939	5471.878
		(b) 160 mm dia uPVC pipe	Each.	1.000	2735.939	2735.939

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 মোঃ আফজাল হোসেন
 উপ-নির্ভরীয় প্রকৌশলী
 মডেল জোন-৭, ঢাকা

9	Approved Rate	Shifting and connection of existing Service Lines to improved systems for all depths, diameters, length up to meter chambers at consumers premises. The rate to include all necessary uPVC BS E-class pipes/ PE Pipe , excavation, PVC clamp saddles or CI clamps, quality fittings, valves, appropriate drilling system for making holes in pipes, backfilling with sand (FM 0.8), plugging, de-watering, cleaning, unplugging, fitting fixing of float valve / check valve at the end of service line(in the reservoirs), shifting or change of service meter. The contractor will responsible for work up to the meter chamber and contractor will keep record of service line shifting works. The contractor will arrange to make the meter chamber with cost of consumer if there is no chamber or poor quality chamber. The rate includes all pipes, fittings, materials (domestic meter shall be provided by DWASA), installation arrangement, for necessary diversion and provide water to consumer for disturbing period, pressure test of each connection . After completion of work, contractor will submit the list of shifting work. All works shall be done in accordance with Technical				
		(a) DN 20 to DN 25mm dia	Each.	20.000	1398.000	27,960.000
		(b) 32mm to 50 mm dia	Each.	8.000	2313.000	18,504.000
10	Approved Rate	Supply and Installation of MS casing pipe to water distribution pipe lines lying on the alignment of the sewer main at all depths, for the diameter of water pipeline given below. The rate to include excavation of the water pipeline; necessary cleaning; cutting of the water pipeline and re-jointing to the approval of the Engineer; supply and fit of the required casing pipe, and backfill of all excess excavation in accordance with the Technical Specification. in accordance with Technical Specification and direction of Engineering in charge.				
		M.S Pipe Casing				
		b) DN 200 mm for 150/160 mm dia	P/M	1.000	3735.446	3,735.446
11	Approved Rate	Extra-over item I for the provision of temporary shoring and boxing to the sides of the excavation to maintain a safe working environment for any depths. The rate to include for the supply of all materials of approved quality ; preparation and fixing of the sheeting and removal after the completion of construction ; all in accordance with the technical specification. Planks and runners shall be minimum 50mm thick and struts shall be minimum 100mm diameter.	Sqm	12.000	1327.735	15,932.820
		(20×2×1.5)/5 =12.000 Sqm				

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উপ-নির্ভরীয় প্রকৌশলী
সড়ক জোন-৭, ঢাকা ওয়াশা।

12	Approved Rate	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	4.000	2117.600	8,470.400
13	Approved Rate	Site cleaning work for the removal all unusable materials from the site with contractor own arrangement all complete as per direction of the E/C	L/S	0.000	2000.000	2,000.000
Part -B Total TK =						495494.831
Say Part -B Total TK=						495,494.831

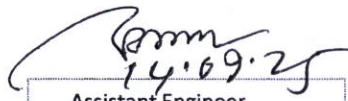
In word: Four Lac Ninety five Thousand four Hundred ninety four Point Eight Three oneTaka only.

Summary:

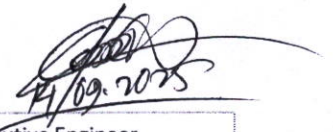
Part -A Total Taka	383,160.000
Part -B Total Taka	495,494.831
Total Taka {Part (A+B)}	878,654.831
After Deduction of Part -ATaka	383,160.000
Contractor Payable Part-B Total Taka	495,494.831


14.09.25

Sub-Assistant Engineer
MODS Zone- 7
Dhaka wasa.


14.09.25

Assistant Engineer
MODS Zone- 7
Dhaka wasa.


14/09.2025

Executive Engineer
MODS Zone-7
Dhaka wasa.

সত্যায়িত
22.02.26
মোঃ আফজাল হোসেন
উপ-নির্ভাগীয় প্রকৌশলী
মডস জোন-৭, ঢাকা ওয়াশা।