

**OFFICE OF THE EXECUTIVE ENGINEER
MODS ZONE-10, DHAKA WASA**

Estimate

Name of The work : Regarding extension of 75 mm diameter water line to 160 mm in Baishteki, Mirpur-13 East Imannagar Road of DMA-1007 under Mods Zone-10, Dhaka WASA.

Construction of water line

Sl No	Base of Rate	Description of the item	Quantity	Unit	Rate (Tk.)	Amount (Tk.)
1		Earth work in excavation in all kinds of soil for foundation trenches including layout, providing center lines, local bench-mark pillars, levelling, ramming and preparing the base, fixing bamboo spikes and marking layout with chalk powder, providing necessary tools and plants, protecting and maintaining the trench dry etc., stacking, cleaning the excavated earth at a safe distance out of the area enclosed by the layout etc. all complete and accepted by the Engineer-in-charge, subject to submit method statement of carrying out excavation work to the Engineer-in-charge for approval. However, engineer's approval shall not relieve the contractor of his responsibilities and obligations under the contract.				
	Pre -Approve Rate	Earthwork in excavation in foundation trenches up to 1.5 m depth and maximum 10 m lead	70.30	P / M ³	660.001	46398.070
2	PWD	Supplying, laying, fitting and fixing of best quality HDPE soil, waste and ventilation pipe having PE-100 (Hydrostatic Strength for PE-100 is 5.0 MPa & 12.4 Mpa at 80°C & 20°C respectively according to ISO 4427:2007(E)), PN-6 (nominal pressure for PN-10 & SDR 26 for soil, waste and ventilation pressure pipe having density 0.940 – 0.970 gm/cm ³ and other physical, chemical, thermal, fire resistivity properties etc. as per BSTI approved manufacturer standards or ASTM/BS/ISO/IS standards, fitted and fixed in position with necessary joints and fittings with all accessories complete approved and accepted by the Engineer-in-charge.				
a.	26.41.2.2	160 mm dia HDPE Pipe	50	M	3276.001	163800.050
a.	26.41.1.6	315 mm dia HDPE Pipe	1.5	M	9672.001	14508.002
3	WASA-2	Extra-over item 1 for supply (fittings described in schedule of requirement Annex -) and lay of HDPE/uPVC/ DI/ MS fittings as per specifications and direction of Engineering in charge. (HDPE fittings mentioned in the deptt materials chart Annex --- will be supplied by the DWASA.				
a.	MR/Analy.	315x160x315 mm dia EF HDPE Tee	1	Nos	16500.001	16500.001
b.	MR/Analy.	160x75x160 mm dia EF HDPE Tee	1	Nos	6900.001	6900.001
c.	MR/Analy.	160x75 mm dia EF HDPE Reducer	1	Nos	3200.001	3200.001
d.	MR/Analy.	160 mm dia EF HDPE Stub End	2	Nos	2600.001	5200.002
e.	4/3/d	160 mm dia Flange Adapter in/c nut-bolts	2	Nos	1527.001	3054.002
f.	Pre Appr.	160 mm dia Special Rubber	6	Nos	200.001	1200.006
g.	Pre Appr.	160 mm dia EF HDPE Sleeve	10	Nos	4108.001	41080.010

	Pre Appr.	75 mm dia EF HDPE Sleeve	6	Nos	1293.001	7758.006
4		Extra-over item 1 for the supply (Supply, lay, fitting and fixing of DI/CI/MS/GI fittings for PVC/HDPE pipes in accordance) 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				
a.	WASA-5/1/b	160mm dia F/T Gate valve	1.00	P / No.	18076.001	18076.001
5	PWD 02.10.1	Sand filling in foundation trenches and plinth with sand having minimum F.M. 0.5 in 150 mm layers including leveling, watering and compaction to achieve minimum dry density of 95% with optimum moisture content (Modified proctor test) by ramming each layer up to finished level as per design supplied by the design office only, all complete and accepted by the Engineer-in-charge.	31.77	P / M ³	1088.001	34565.792
6	PWD 02.13	B) 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. Earth filling in foundation trenches and plinth in 150 mm layer with earth available within 90 m of the building site to achieve minimum dry density of 95% with optimum moisture content (Modified proctor test) including carrying watering, leveling, dressing and compacting to a specified percentage each layer up to finished level etc. all complete and accepted by Engineer-in-charge.	23.43	P / M ³	206.910	4847.901
7	PWD 02.14	Cleaning and disposing of excavated earth from the construction site by truck or by any other means to a place within 30 km radius of the city or town area including loading & unloading at both ends, leveling and dressing the carried earth etc. complete and accepted by the Engineer-in-charge.	31.77	P / M ³	756.001	24018.152
8	PWD 02.5	Palisading work by supplying of bitumen drum sheet walling tied with 20 BWG G.I. wire fixing the same with already driven borra bamboo posts with half split borra bamboo runners @ 450mm c/c horizontally with iron nails, G.I wire etc. all complete and accepted by the Engineer-in-charge. (Rate is excluding the cost of bamboo post).	45.00	P / M ²	612.840	27577.800
9	WASA-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	315 mm dia to 1160 mm dia	1.00	P/ Nos	2247.001	✓	2247.001
14/1	160 mm dia to 75 mm dia	1.00	P/ Nos	2247.001	✓	2247.001
10	WASA-20 Hire Charge of de-watering pump. Bailing out of all 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 complete as per direction of the E/C.	5	P / Day	1862.001	✓	9310.005
11	Pre-Ap. Hire Charge of Generator	5	P / Day	1500.001	✓	7500.005
12	Pre-Ap. Hire Charge of Electro Fusion Machine	5	P / Day	2000.001	✓	10000.005
13	Pre-Ap. Reconstruction & repairing of service	3	Each	1500.001	✓	4500.003
14	Pre-Ap. Skilled technician in electrofusion joint work	16	Each	1200.001	✓	19200.016
	NA Road Safety measures and tools and Site Cleaning as per direction of Engineer in Charge	1	LS	25000.001		25000.001
Total Tk =						498,687.834

(In word) Tk. = Four Lac Ninty Eight Thousand Six Hundred Eighty Seven Point Eight Three Four Only.


০৫/০১/২৫
মোস্তাফিস বিল্লাহ আমলগীর
উপ-সহকারী প্রকৌশলী
মডুস জোন-১০, ঢাকা ওয়াসা।


০৫/০১/২৫
Md. Hasibul Hasan
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০৫/০১/২৫
সুজন চন্দ্র বর্মণ
নির্বাহী প্রকৌশলী
মডুস জোন-১০, ঢাকা ওয়াসা।