

Dhaka Water Supply and Sewerage Authority
OFFICE OF THE EXECUTIVE ENGINEER
MODS ZONE-7

Estimate

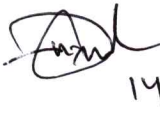
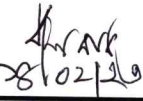
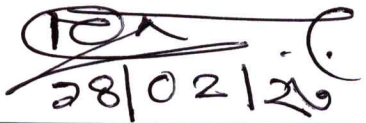
Name of Work :

Construction of 160 mm dia water line near by Baitul Nur jam e Mosjid, Jonotabag under MODS Zone-7, Dhaka WASA..

Part A : Depertmental Supply						
SL No.	Description of Item	Qty	Unit	Rate	Price	Remark
1	uPVC Pipe (PN -10) (ISO 4422-2 (1996)					
a)	110mm dia	173	m	380	65740	Departmental Supply
b)	160mm dia	259	m	810	209790	Departmental Supply
2	PVC bend 45° (PN-10) ISO 4422					
a)	160mm dia	3	each	1750	5250	Departmental Supply
3	PVC bend 90° (PN-10) ISO 4422					
a)	110mm dia	1	each	750	750	Departmental Supply
4	uPVC TEE (PN-10) ISO 4422					
a)	160X110X160mm Tee	8	each	2092	16736	Departmental Supply
b)	160X160X160mm Tee	1	each	2625	2625	Departmental Supply
c)	225X160X225mm Tee	1	each	3304	3304	Departmental Supply
5	CI F/Adopter.					
a)	150 mm dia Flange Adapter in/c nut-bolts	4	each	1450	5800	Departmental Supply
6	Gate valve (Fl. type) BS 5150 Local					
a)	150mm dia	2	each	17010	34020	Departmental Supply
				Total	344015.000	

Taka (in Words):

Tk. 3,44,015.00 (Taka Three Lac FortyFour Thousand Fifteen Only)

 14/2/23	 28/02/23	 28/02/23
Sub-Assistant Engineer	Assistant Engineer	Executive Engineer
MODS Zone-7, Dhaka WASA	MODS Zone-7,Dhaka WASA	MODS Zone-7, Dhaka WASA

Dhaka Water Supply and Sewerage Authority

OFFICE OF THE EXECUTIVE ENGINEER

MODS ZONE-7

ESTIMATE

Name of Work :

Construction of 160 mm dia water line near by Baitul Nur jam e Mosjid, Jonotabag under MODS Zone-7, Dhaka WASA..

Part-B: Maintenance Works						
Rate Basis	SL No.	Description Of Work	Qty	Unit	Rate	Price
DWASA/Water-11/1	1	Installation and laying of (uPVC) Unplasticized polyvinyl chloride/DI / PE /MS water pipelines (including supply of materials, fittings, Equipment described in schedule of requirement Annex --Section--) 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 Rd CC RCC rd surface except rock to the full depth of trench required by the specifications, precautions necessary to avoid damage of underground utility services, (any damage Contractor shall repair by his own cost) including removing the excavated earth & stacking				
DWASA/Water-11/1.1.	2	uPVC Pipe (PN -10) (ISO 4422-2 (1996)				
DWASA/Water-11/c.	a)	110mm dia	173	m	64.001	11072.173
DWASA/Water-11/d.	b)	160mm dia	259	m	71.001	18389.259
DWASA/Water-11/2/7.	3	PVC bend 45° (PN-10) ISO 4422				
DWASA/Water-11/b.	a)	160mm dia	3	each	38.001	114.003
DWASA/Water-11/2/8.	4	PVC bend 90° (PN-10) ISO 4422				
DWASA/Water-11/a.	a)	110mm dia	1	each	29.001	29.001
DWASA/Water-11/2/14.	5	uPVC TEE (PN-10) ISO 4422				
DWASA/Water-11/b.	a)	160X110X160mm Tee	8	each	47.001	376.008
DWASA/Water-11/c.	b)	160X160X160mm Tee	1	each	61.001	61.001
DWASA/Water-11/e.	c)	225X160X225mm Tee	1	each	88.001	88.001
DWASA/Water-11/2/24.	6	End Cap pn 10 ISO 4422				
DWASA/Water-11/a.	a)	PVC End Cap 110mm (PN 10)	4	each	556.001	2224.004
DWASA/Water-11/	7	Solvent Cement	6	kg	109.001	654.006
DWASA/Water-11/4/2..	8	CI Dresser Coupling				
DWASA/Water-11/a.	a)	100 mm dia Dresser Coupling in/c nut-bolts	11	each	951.001	10461.011
DWASA/Water-11/b.	b)	150 mm dia Dresser Coupling in/c nut-bolts	8	each	1411.001	11288.008
DWASA/Water-11/4/3.	9	CI F/Adopter.				
DWASA/Water-11/d.	a)	150 mm dia Flange Adapter in/c nut-bolts	4	each	77.001	308.004
DWASA/Water-11/		Gate Valve C.I		0	0	0
DWASA/Water-11/5/1.	10	Gate valve (FL. type) BS 5150 Local				
DWASA/Water-11/b.	a)	150mm dia	2	each	1066.001	2132.002
DWASA/Water-11/6	11	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.				
DWASA/Water-11/6/a.		Bedding and surrounding by River Saturated Sand (F.M 0.8).	149.45	cum	578.001	86382.249
		173 X 0.60 X 0.60 =62.28				
		173 X 3.14 X 0.0025 (-) =1.36				
		=60.92				
		259 X 0.60 X 0.60 =93.24				
		259 X 3.14 X 0.0058 (-) =4.72				
		=88.52				
		Total 149.45 cum				
DWASA/Water-11/6/b.	12	A)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. .	77.76	cum	578.001	44945.358
		(173 X 0.60 X 0.30) =31.14 cum				
		(259 X 0.60 X 0.30) =46.62 cum				
		Total 77.76 cum				
DWASA/Water-11/7		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	155.52	cum	154.001	23950.236
		(173 X 0.60 X 0.60) =62.28 cum				
		(259 X 0.60 X 0.60) =93.24 cum				
		Total 155.52 cum				

Rate Basis	SL No.	Description Of Work	Qty	Unit	Rate	Price
DWASA/Water-11/8	13	Extra over item 1 for completing temporary reinstatement of rigid and flexible paved road by compacted sand (FM 1.2) of 75 mm thick and one layer brick soling by 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				
DWASA/Water-11/8/b.	a)	Kacha road/BFS/HBB Rd.	104.400	Sqm	37.001	3862.904
		(174 X 0.60) =104.40 sqm				
DWASA/Water-11/9	14	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,	233.28	cum	331.001	77215.913
		14.(a)+(b) 77.76 + 155.52 =233.28 cum				
		Total 233.28 cum				
DWASA/Water-11/13	15	The excavation of trial holes and the completion of back fill with approved fill materials, all in accordance with the technical specification.	47.964	cum	184.001	8825.424
		18 X (1.21 X 1.21 X 1.82) =47.964 cum				
DWASA/Water-11/14	16	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.				
DWASA/Water-11/14/1.	a)	100/110 mm dia to 150 /160 mm dia PVC	2	Each	2584.001	5168.002
DWASA/Water-11/14/2.	b)	150/160 mm dia PVC	2	Each	2584.001	5168.002
DWASA/Water-11/16	17	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 Specification, direction of Engineering in charge and approved drawings.				
DWASA/Water-11/16/1	a)	DN 20 to DN 25mm dia	34	Each	1398.001	47532.034
DWASA/Water-11/16/2	b)	DN 32mm to DN 50mm dia	20	Each	2324.001	46480.02
DWASA/Water-11/17/1.	18	M.S Pipe Casing				
DWASA/Water-11/b.	a)	DN 200 mm for 150 /160 mm dia	10	M	3528.001	35280.01
DWASA/Water-11/18	19	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 PVC fittings encased in concrete with two layers of heavy duty polythene sheeting.	4.8	Cum	5628.001	27014.405
		24 X 0.2 cum =4.80 cum				
DWASA/Water-11/19	20	Hiring charge for supply and installation of MS sheets (1800x900x18mm) over the trench / road surface for a smooth traffic movement during the execution of works in accordance with Technical Specification and direction of Engineering in charge.	18.00	sqm	445.001	8010.018
		6 X 3.00 sqm =18.00				
DWASA/Water-11/20	21	Hire charge of de-watering Pump :				
DWASA/Water-11/20	a)	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.	30	day	2141.001	64230.03
		2 nos X 15 day =30.00				
PWD/Civil-18/2.7.1	22	Shore protection work during excavation in foundation trenches up to 1.5 m depth, to protect loss due to damage of property by Palisading accepted by the Engineer-in- charge..[the rate is including cost of vertical post]	54	sqm.	609.001	32886.054
		(6.00 X 1.50) X 2 Side X 3 nos =54.00 sqm				

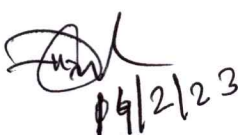
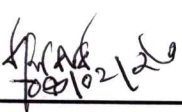
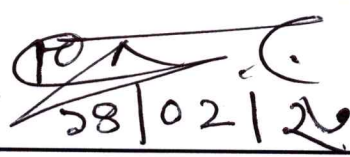




Rate Basis	SL No.	Description Of Work	Qty	Unit	Rate	Price
APP	23	Construction of Sluice Valve Chamber:				
APP	a)	Construction Sluice valve chamber on water pipe line chamber including Earth excavation, single layer Polythene, Reinforced Cement concrete (1:2:4) for the top slab, Brickwork (1:4) for the walls 125mm thickness, 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.	2	each	17250.001	34500.002
APP	24	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.	1	LS	18000.001	18000.001
					Total	626647.143
					Part-A Total Tk	344015.000
					Total Tk (Part-A+B)	970662.143
					Deducted Part-A Total Tk	344015.000
					Total Tk	626647.143
					Payable Tk	626647.143

Taka (in Words):

Tk. 6,26,647.143 (Taka Six Lac Twenty Six Thousand Six Hundred Forty Seven Point One Four Three Only.)

 09/02/23	 08/02/23	 08/02/23
Sub-Assistant Engineer	Assistant Engineer	Executive Engineer
MODS Zone-7, Dhaka WASA	MODS Zone-7, Dhaka WASA	MODS Zone-7, Dhaka WASA