

Office of the Executive Engineer
MODS Zone-7, DWASA
107/1/A/1/A, North Jatrabari
Near Ideal School & College, Dhaka.

Section: 6 (Bill of Quantities with technical specification)

Name of the work : Repair & maintenance of different dia water line leakage, removing contamination water, delivery line leakage repair, finding sluice valve , repair sluice valve, valve chamber and related ancillary works under MODS Zone-7, Dhaka WASA.

Part-B: Contractors labour & Materials Supply (Tender Amount)							
Item No	Group	Basis of Rate	Description of Item of the Works	Unit	Qty	Unit rate (Tk.)	Amount (Tk.)
1	Civil	Approved rate	Repairing of water line leakage 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	113.840	331.001	37681.154
2	Civil	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 kutcha road surface	Cum	88.000	154.001	13552.088
3	Civil	Approved rate	B) Removal of excavated earth/debris etc	Cum	33.840	288.001	9745.954
4	Civil	Approved rate	Repairing of water line leakage 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	25.840	578.001	14935.546
5	Civil	Approved rate	50 mm down graded picked jhama khoa consolidation in foundation trenches by mixing in mixer machine in foundation with best quality local sand (F.M. 1.2) and cement in (1:6:12) (cement : sand : khoa) proportion to achieve minimum dry density of 90% with optimum moisture content (Modified proctor test) including breaking and screening chips etc. all complete and accepted by the Eng	Cum	3.800	2580.001	9804.004
6	Civil	Approved rate	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.	Cum	36.000	74.001	2664.036

Item No	Group	Basis of Rate	Description of Item of the Works	Unit	Qty	Unit rate (Tk.)	Amount (Tk.)
7	Civil	Approved rate	Dismantle of R.C.C. Road and Removal of debris to a safe distance	Cum	3.600	2790.001	10044.004
8	Civil	Approved rate	Shore protection work during excavation in foundation trenches to protect loss due to damage of property by Palisading beyond 1.5 m depth accepted by the Engineer [the rate is including cost of vertical post]	Sqm	18.000	814.001	14652.018
9	Civil	Approved rate	Extra-Over item I for the supply lay of Ductile/cast iron /M.S./GI fittings for PVC pipes in accordance with the technical specification.MS. "S" bend (Normal) 200mm dia (5'-6" long)	each	3.000	9251.750	27755.250
10	Civil	Approved rate	MS Pipe (Seamless) 200 mm dia	Rm	4.000	4471.200	17884.800
11	Civil	Approved rate	Extra-over item 1 for supply (fittings described in schedule of requirement Annex -) and lay of uPVC/ DI/ MS fittings as per specifications and direction of Engineering in charge. (uPVC fittings mentioned in the deptt materials chart Annex --- will be supplied by the DWASA. PVC bend 90 (PN-10) ISO 4422-225mm dia	each	1.000	4887.500	4887.500
12	Civil	Approved rate	Extra-over item 1 for supply (fittings described in schedule of requirement Annex -) and lay of uPVC/ DI/ MS fittings as per specifications and direction of Engineering in charge. (uPVC fittings mentioned in the deptt materials chart Annex --- will be supplied by the DWASA. PVC bend 900 'C' class-150 mm dia	each	2.000	1299.500	2599.000
13	Civil	Approved rate	Extra-over item 1 for supply (fittings described in schedule of requirement Annex -) and lay of uPVC/ DI/ MS fittings as per specifications and direction of Engineering in charge. (uPVC fittings mentioned in the deptt materials chart Annex --- will be supplied by the DWASA. uPVC TEE (PN-10) ISO 4422 - 225X225X225mm Tee	each	2.000	5690.200	11380.400
14	Civil	Approved rate	Extra-Over item I for the supply lay of Ductile/cast iron /M.S./GI fittings for PVC pipes in accordance with the technical specification.MS. TEE-200X160X200mm Tee	each	1.000	4238.900	4238.900
15	Civil	Approved rate	Extra-Over item I for the supply lay of Ductile/cast iron /M.S./GI fittings for PVC pipes in accordance with the technical specification.MS. TEE-225X200X225mm Tee	each	2.000	5319.900	10639.800
16	Civil	Approved rate	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. MS dresser coupling 225mm dia	each	8.000	2185.000	17480.000
17	Civil	Approved rate	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. CI dresser coupling 150 mm dia Dresser Coupling in/c nut-bolts	each	10.000	1411.050	14110.500

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Item No	Group	Basis of Rate	Description of Item of the Works	Unit	Qty	Unit rate (Tk.)	Amount (Tk.)
18	Civil	Approved rate	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. CI dresser coupling 225 mm dia Dresser Coupling in/c nut-bolts	each	16.000	1667.500	26680.000
19	Civil	Approved rate	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. CI dresser coupling 300 mm dia Dresser Coupling in/c nut-bolts	each	2.000	3018.750	6037.500
20	Civil	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 Specification, direction of Engineering in charge and approved drawings.DN 20 to DN 25mm dia	each	15.000	1398.400	20976.000
21	Civil	Approved rate	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.	Sqm	20.000	445.050	8901.000

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Item No	Group	Basis of Rate	Description of Item of the Works	Unit	Qty	Unit rate (Tk.)	Amount (Tk.)
22	Civil	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 DN 300 mm for 200/225 mm dia	Sqm	4.000	5138.200	20552.800
23	Civil	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.PVC E-Class pipe Casing DN 300 mm for 200/225 mm dia	Sqm	10.000	3905.400	39054.000
24	Civil	Approved rate	8 inch Clam for water line leakage Repair	each	20.000	500.001	10000.020
25	Civil	Approved rate	6 inch Clam for water line leakage Repair	each	10.000	350.001	3500.010
26	Civil	Approved rate	1 inch Bond plug/end Cap for water line leakage Repair	each	15.000	25.001	375.015
27	Civil	Approved rate	3/4 inch Bond plug/end Cap for water line leakage Repair	each	10.000	20.001	200.010
28	Civil	Approved rate	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	8.000	155.001	1240.008
29	Civil	Approved rate	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	3.640	273.001	993.724
30	Civil	Approved rate	One layer of brick flat soling in foundation or in floor with first class or picked jhama bricks including preparation of bed and filling the interstices with local sand, leveling etc. complete and accepted by the Engineer.	Sqm	2.288	438.001	1002.102

Signature

Signature

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Item No	Group	Basis of Rate	Description of Item of the Works	Unit	Qty	Unit rate (Tk.)	Amount (Tk.)
31	Civil	Approved rate	Brick works with first class bricks in cement sand (F.M. 1:2) mortar (1:4) in exterior walls including filling the interstices with mortar, raking out joints, cleaning and socking the bricks at least for 24 hours before use and washing of sand, necessary scaffolding, curing at least for 7 days etc. all complete including cost of water, electricity and other charges (measurement to given as 250 mm width for one brick length and 375 mm for one brick and a half brick length) accepted by the Engineer.	Cum	2.755	6769.001	18648.598
32	Civil	Approved rate	Minimum 12 mm thick cement sand (F.M. 1:2) plaster (1:4) with fresh cement to wall both inner-and outer surface, finishing the corner and edges including washing of sand cleaning the surface, scaffolding and curing at least for 7 days, cost of water, electricity and other charges etc. all complete in all respect as per drawing and accepted by the Engineer.	Sqm	22.040	243.001	5355.742
33	Civil	Approved rate	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.	Cum	0.780	7602.001	5929.561
34	Civil	Approved rate	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.	Cum	20.790	82.001	1704.801
35	Civil	Approved rate	Stem maintenance	each	12.000	4000.001	48000.012
36	Civil	Approved rate	Wedge Replacing	each	12.000	1000.001	12000.012
37	Civil	Approved rate	Body Gasket	each	5.000	350.001	1750.005
38	Civil	Approved rate	Nut and Bolts	each	16.000	35.001	560.016
39	Civil	Approved rate	Supply, lay, fitting and fixing of DI/CI/MS/GI fittings for Installation of Delivery line in accordance with the technical specifications, standard detailed drawings and direction of Engineering in charge. i) Clamp (one pair)	each	1.000	3676.001	3676.001
40	Civil	Approved rate	Labour charge for fitting & fixing(stem ,wedge etc) and cleaning of s/valve inside etc.	each	25.000	615.001	15375.025

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Item No	Group	Basis of Rate	Description of Item of the Works	Unit	Qty	Unit rate (Tk.)	Amount (Tk.)
41	Civil	Approved rate	Supply, lay, fitting and fixing of DI/CI/MS/GI fittings for PVC/HDPE pipes in accordance with the technical specifications, standard detailed drawings and direction of Engineering in charge.iii) 200×45° M.S. bend (6mm thick)	each	1.000	7527.001	7527.001

In word : Taka Four lakh Eighty Four Thousand Ninty Three Point Nine One Five Only.

Total Amount Tk. 484,093.915

Sandip
13.04.23

Sub-Assistant Engineer
MODS Zone-7
DWASA.

Ram
13.04.23

Assistant Engineer/ SDE
MODS Zone-7
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PA
29/08/26

Executive Engineer
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