

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

Section: 6 (Bill of Quantities with technical specification)

Name of the work : Rehabilitation of water line at Matuail-1 DTW, Hashem Road to Matuail Dakshinpara and adjacent area under MODS Zone-7 of Dhaka WASA.

Part-B: Schedule-1 (Cost of Installation)

Item No	Group	Basis of rate	Description of Items of Works	Unit	Qty	Unit rates or prices	Total Amount = (6x7)
1	2	3	4	5	6	7	8
1	Civil	Approved Rate	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 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, preparation of trench bottom, at depth of 1.2.M, transport (all kinds of materials, equipment, pipes & fittings) to site, laying, jointing and cleaning of the water pipes; disposal of surplus excavated material and transport back surplus materials to Dhaka WASA stores (materials supplied by Dhaka WASA described in Anexure ---) as per specifications and direction of Engineering in charge (cost of excess excavated earth would be deducted as per deptt material rate)				
			uPVC Pipe (PN -10) (ISO 4422-2 (1996) 110 mm dia	m	225.000	881.000	198,225.000
2	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.				
			110 mm dia 45° uPVC bend (PN-10) ISO 4422	each	1.000	33.349	33.349
			225 mm dia 90° uPVC bend (PN-10) ISO 4422	each	1.000	67.851	67.851
			225 mm dia 22.5° uPVC bend (PN-10) ISO 4422	each	1.000	43.699	43.699
			110 mm dia 22.5° uPVC bend (PN-10) ISO 4422	each	1.000	43.699	43.699
			315 mm dia E/C (PN-10) ISO 4422	each	2.000	3755.850	7,511.700
			110 mm dia E/C (PN-10) ISO 4422	each	1.000	483.450	483.450
			110 mm dia 90° uPVC bend (PN-10) ISO 4422	each	2.000	33.349	66.698
3	Civil	Approved Rate	uPVC TEE (PN-10) ISO 4422-225 X 110 X 225 mm	each	3.000	102.351	307.053

সত্যায়িত
২০.৬.২৫
মোঃ আফজাল হোসেন
সহকারী প্রকৌশলী
মডস জোন-৭, ঢাকা ওয়াসা

Item No	Group	Basis of rate	Description of Items of Works	Unit	Qty	Unit rates or prices	Total Amount = (6x7)
1	2	3	4	5	6	7	8
4	Civil	Approved Rate	uPVC TEE (PN-10) ISO 4422-225 X 160 X 225 mm	each	2.000	101.201	202.402
5	Civil	Approved Rate	uPVC TEE (PN-10) ISO 4422-225 X 225 X 225 mm	each	2.000	102.351	204.702
			225 X 110 mm dia Reducer		1.000	59.799	59.799
6	Civil	Approved Rate	End Cap PN 10 ISO 4422 PVC End Cap 160 mm (PN 10)	each	3.000	86.251	258.753
7	Civil	Approved Rate	Extra-Over item I for the supply lay of Ductile/cast iron /M.S./GI fittings for uPVC pipes in accordance with the technical specification.				
			M.S "S" bend (Normal) 225 mm dia (5'-6" long)	each	8.000	9251.750	74,014.000
8	Civil	Approved Rate	MS. "S" bend (Normal) 150mm dia (4'-6" long)	each	5.000	5523.450	27,617.250
9	Civil	Approved Rate	M.S TEE 200X110X200 mm Tee	each	1.000	3398.000	3,398.000
10	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 100 mm dia Dresser Coupling in/c nut-bolts	each	6.000	951.049	5,706.294
11	Civil	Approved Rate	CI 225 mm dia Dresser Coupling in/c nut-bolts	each	18.000	1667.499	30,014.982
12	Civil	Approved Rate	CI F/Adopter 225 mm dia Flange Adapter in/c nut-bolts	each	4.000	2530.001	10,120.004

20/03/25

20.03.25

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মডেল জোন-৭, ঢাকা ওয়াশ

Item No	Group	Basis of rate	Description of Items of Works				Unit	Qty	Unit rates or prices	Total Amount = (6x7)
1	2	3	4				5	6	7	8
17	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 kutchra road surface				cum	882.000	154.100	135,916.200
			1.000	1000.000	0.600	1.200				
			1.000	225.000	0.600	1.200				
18	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 .8.B-Kacha road/BFS/HBB Rd.				sqm	735.000	36.800	27,048.000
			1.000	1000.000		0.600				
			1.000	225.000		0.600				
19	Civil	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	0.900	331.200	298.080
			1.000	5.000	0.600	0.100				
			1.000	10.000	0.600	0.100				
20	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 Engineer.							
			1.000	50.000	0.600	0.100				
			9.000	2.000	1.800	0.100				
			2.000	2.000	1.800	0.100				
			6.000	1.000	1.000	0.100				
			12.000	1.200	1.000	0.100				
			2.000	1.000	1.000	0.100				

সত্যায়িত
 20.06.25
 মোঃ আবুল কালাম হোসেন
 সহকারী প্রকৌশলী
 মডেল জোন-৭, ঢাকা ওয়াশ

20/06/25

20.05.25

Item No	Group	Basis of rate	Description of Items of Works					Unit	Qty	Unit rates or prices	Total Amount = (6x7)
1	2	3	4	5	6	7	8				
			2.000	1.000	0.600	0.100	0.120				
							9.320				
21	Civil	Approved Rate	Removal of excavated earth/debris etc.					cum	9.320	2967.000	27,652.440
			1.000			295.493	295.493				
			1.000			573.900	573.900				
			1.000			0.900	0.900				
			1.000			9.320	9.320				
							879.613	cum	879.613	331.200	291,327.792
22	Civil	Approved Rate	Extra-over item 1 for the completing hydrostatic pressure test of at least in 6 bar pressure for all extension and rehabilitation pipelines for 3 hours and 4 bar for 24 hours with allowable limit of leaks mentioned in specification in accordance with Technical Specification and direction of Engineering in charge. The rate to include for the supply of all necessary testing equipment, fittings, arrangement, water, any repair and improvement for successful of test For 100 to 250 dia pvc lines					meter	1089.000	24.150	26,299.350
23	Civil	Approved Rate	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.					meter	1089.000	9.200	10,018.800
24	Civil	Approved Rate	Extra-over item 1 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. 12.1-Garjan wooden Planks runner block (withdrawn after completion of work).								
			2.000	30.000	4.000	0.050	12.000				
			6.000	30.000	0.075	0.075	1.013				
			120.000	0.075	0.075	0.075	0.051				
							13.063	cum	13.063	4167.600	54,441.880
25	Civil	Approved Rate	Shalballah strut								
			60.000	1.000			60.000				
			30.000	2.000			60.000				
							120.000	meter	120.000	77.050	9,246.000
26	Civil	Approved Rate	The excavation of trial holes and the completion of back fill with approved fill materials, all in accordance with the technical specification.								
			10.000	1.500	1.000	2.500	37.500				
							37.500	cum	37.500	184.000	6,900.000

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20.06.25
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সহকারী প্রকৌশলী
মডেল জোন-৭, ঢাকা ডায়াল

20/06/25

20.3.25

Item No	Group	Basis of rate	Description of Items of Works	Unit	Qty	Unit rates or prices	Total Amount = (6x7)
1	2	3	4	5	6	7	8
27	Civil	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. 100/110 mm dia to 150 /160 mm dia PVC	each	30.000	2584.050	77,521.500
28	Civil	Approved Rate	200/225 mm dia	each	10.000	2584.050	25,840.500
29	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 DN 20 to DN 25mm dia	each	121.000	1398.400	169,206.400
30	Civil	Approved Rate	DN 32mm to DN 50mm dia	each	23.000	2324.150	53,455.450
31	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. 17.1-M.S Pipe Casing DN 200 mm for 150 /160 mm dia	meter	6.000	3528.200	21,169.200

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মডুল জোন-৭, ঢাকা ওয়াশ

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Item No	Group	Basis of rate	Description of Items of Works	Unit	Qty	Unit rates or prices	Total Amount = (6x7)
1	2	3	4	5	6	7	8
32	Civil	Approved Rate	DN 300 mm for 200/225 mm dia	meter	15.000	5138.200	77,073.000
33	Civil	Approved Rate	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.				
			31.000 1.000 0.750 0.200 4.650				
			4.650	cum	4.650	5628.100	26,170.665
34	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.				
			55.000 3.000 2.000 330.000		230.00		102361.5
			330.000	sqm	330.000	445.050	146,866.500
35	Civil	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.	days	40.000	2141.300	85,652.000
36	Civil	Approved Rate	Site clening work for the removal all unsuitable and unuseable materials from the site with contractor own arrangement all complete as per direction of the E/C	LS	1.000	15000.000	15,000.000
37	Civil	Approved Rate	Reconstruction & repairing of service manhole (Sewer/ storm sewer pit) Reconstruction and repairing of other utilities services (Telephone/Gas/Electricity/Sewer/surface & underground drains/storms sewer pit or any other system in the pipe alignment), includes all necessary materials, cables, replacement, reinstallation, repairing of broken service manhole, sewer pit including supply of all types of cables, pipes, fittings, course & fine aggregates, bricks, cement and any other works in accordance with Technical Specification and direction of Engineering in charge, each unit includes total safety, repair, replacement of other utilities for each 100 meter pipelines alignment, all mentioned cost will be paid by Contractor.	each	15.000	1725.000	25,875.000

Sub-Total Amount (Schedule-1) = 2,478,515.064

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সহকারী প্রকৌশলী
মহান জোন-৭, ঢাকা উত্তর

Item No	Group	Basis of rate	Description of Items of Works	Unit	Qty	Unit rates or prices	Total Amount = (6x7)
1	2	3	4	5	6	7	8

Schedule-2 (Construction of Sluice Valve Chamber)

38	Civil	Approved Rate	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.	each	2.000	17250.000	34,500.000
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Sub-Total Amount (Schedule-2) = 34,500.000

Total Cost of Part-B Contractor Labour and Materials Supply (Schedule-1 + Schedule-2) = 2,243,015.064

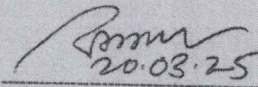
Total Amount (In Word) : Taka Twenty Two Lakh Thirteen Thousand Fifteen Point Zero Six Four Only.

Taka Twenty one Lakh Sixty Eight Thousand five hundred ten point Zero six only.

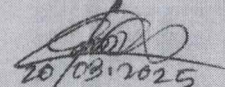
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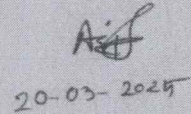
Sub-Assistant Engineer
MODS Zone-7
DWASA.


20.03.25

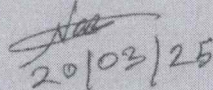
Assistant Engineer/SDE
MODS Zone-7
DWASA.


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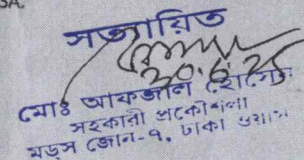
Executive Engineer
MODS Zone-7
DWASA.

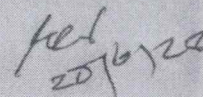

20-03-2025

আসিফ কবির
সহকারী প্রকৌশলী
পার্শ্বকান্দি শ্রম শোখনাগার
সদস্য, টাঙ্কফোর্স টিম-৩


20/03/25

নাউম্মা খাতুন
নির্বাহী প্রকৌশলী (ড্রসাই)
পি এন্ড ডি (শ্রম) বিভাগ
সদস্য, টাঙ্কফোর্স টিম-৩

সত্যজিত

20.6.25
মোঃ আকজল হোসেন
সহকারী প্রকৌশলী
মডস জোন-৭, ঢাকা ওয়াশ


20/6/25

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

Name of the work : Rehabilitation of water line at Matuail-1 DTW, Hashem Road to Matuail Dakshinpara and adjacent area under MODS Zone-7 of Dhaka WASA.

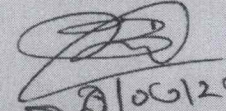
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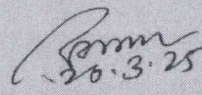
1. Guarding of pipe line specials fitted in the line or lying at sites shall be the responsibility of the contractor until it is handed over to the Detail Store as a whole or the maintenance period is over which is applicable.
2. The following materials may be supplied from the departmental store if available from any WASA's store within the greater Dhaka city and their cost will be recovered from the bills at the rate mentioned against each item and the same will be carried to be site by the contractor at his own expenses. If the departmental fails to supply the said materials stated below. The same will have to be supplied by the contractor for completion of the work within the stipulated time as per rate approved by the competent authority.
3. If any materials supplied by the dept. be comes excess after execution of the work same shall be returned to any WASA store within the greater Dhaka city 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 contractor bill at the double of the issue rate fixed by the competent authority.

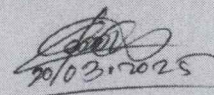
Part-A (Departmental Materials Cost)

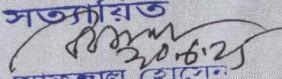
Item No.	Description of the items	Quantity	Unit	Approved Rate (Tk)	Total Amount (Tk)
3	225mm dia uPVC P ipe (PN-10) (ISO4422-2) (1996)	1000	meter	510.60	510,600.000
4	225 X 225 X 225mmØ uPVC Tee	2	NRS	5345.20	10,690.400
8	225 X 110mmØ Reducer	1	NRS	2072.30	2,072.300
10	225mmØ 90° Bend	1	NRS	8347.85	8,347.850
11	225mmØ 45° Bend	1	NRS	3550.00	3,550.000
12	225mmØ 22.5° Bend	1	NRS	3554.00	3,554.000
13	110mmØ 90° Bend	2	NRS	838.35	1,676.700
14	110mmØ 45° Bend	1	NRS	895.85	895.850
16	225mmØ S/V	2	NRS	30041.45	60,082.900
17	110mmØ S/V	1	NRS	19561.50	19,561.500
				Total Amount =	621,031.500

Total Amount (in word) : Six Lakh Twenty One Thousand Thirty one Point Five Zero Zero Taka Only.


20/06/25
MD. OHIDUZZAMAN
Sub-Assistant Engineer
MODS Zone-7
Dhaka WASA


20.6.25
মোঃ আফজাল হোসেন
সহকারী প্রকৌশলী
মডস জোন-৭
ঢাকা ওয়াসা


20/06/25
মোঃ জিমন মিয়া
নির্বাহী প্রকৌশলী (চঃ পঃ)
মডস জোন-৭
ঢাকা ওয়াসা


20.6.25
মোঃ আফজাল হোসেন
সহকারী প্রকৌশলী
মডস জোন-৭, ঢাকা ওয়াসা