

Office of the Executive Engineer
MODS Zone-6, Dhaka WASA
Fakirapool Water Tank Compound
Motijheel, Dhaka.

Name Of the Work : Interconnection of 200 mm dia water line from DIT Extension Road (Infront of Holding # 147/3/A, DIT Extension Road to 105, Malek Market Bir Muktiuddha Abdus Salam Sarak, Fakirapool, Motijheel, Dhaka) to Fakirapool Mosque of DMA- 615 under MODS Zone-6, Dhaka WASA.

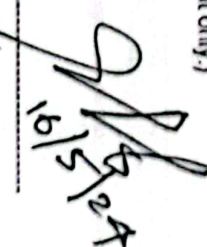
Abstract of cost

Sl No	Description	Amount (Tk.)
1	2	3
1.00	Part-A : Departmental Materials	Tk. 597,025.213
2.00	Part-B: Contractor materials & labour supply	Tk. 997,505.158
3.00	Part- C: Road Cutting	Tk. 309,686.000
4.00	Total Cost of the Work	Tk. 1,904,216.371
5.00	Tender Amount (Total Cost of the work- (Part:A + Part:C)	Tk. 997,505.158

(In word : Taka Nine Lakh Ninety Seven Thousand Five Hundred Five Point One Five Eight only.)


15/05/24
Sub-Assistant Engineer
MODS Zone-6,
Dhaka Wasa


15/05/24
Assistant Engineer
MODS Zone-6,
Dhaka Wasa


16/5/24
Executive Engineer
MODS Zone-6,
Dhaka Wasa

15/05/24

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Fakirapool Water Tank Compound
Motijheel, Dhaka.

Name Of the Work : Interconnection of 200 mm dia water line from DIT Extension Road (Infront of Holding # 147/3/A, DIT Extension Road to 105, Malek Market Bir Muktiyuddha Abdus Salam Sarak, Fokierpool, Motijheel, Dhaka.) to Fakierpool Mosque of DMA- 615 under MODS Zone-6, Dhaka WASA.

Part-B: Contractor materials & labour supply

Item No	Basis of Rate	Group	Description of the items	Unit	Qty	Unit rate (Tk.)	Amount (Tk.)
1	2	3	4	5	6	7	8 = (5*7)
1.00	Approved rate	Civil	Mobilization and cleaning site before commencing actual physical work and during contract period and demobilization after completion of the works under contract to be accepted by the Engineer-in-charge. This work shall also covers clayey cleaning and clearing, cutting or filling, dressing the project area on and in the ground to an extent that all the events of works of the project can be executed smoothly in a working environment with a particular attention on safety and security in all respects, and to stockpile the end outcome to a place for disposal agreed by the Engineer-in-charge, where, payments are to be based on ground area determined by the Engineer-in-charge and be proportionate to the percentage progress of work under contract as a whole in all respects and approved by the Engineer-in-charge	Sqm.	147.150	169.001	24,868.497

Supd: *Abdur Rahman*

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Rate		Description of the items		Unit	Qty	Unit rate (Tk.)	Amount (Tk.)
2.00	Approved rate	Civil	Installation and laying of High Density Polyethylene (HDPE) water pipelines by Open Cut method 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 road/Cement Concrete/Reinforced Cement Concrete road surface except rock to the full depth of trench required by the specifications, precautions necessary to avoid damage of underground utility services, (if any damage occurs, Contractor shall repair by his own cost) including removing the excavated earth & stacking the same to safe distance without any traffic obstacles, dewatering of the trench to keep dry condition at all times, including all necessary shoring, boxing, must be protected from any collapse of trench sides, transportation of pipes to site, cleaning, jointing and laying of the water pipes; as per specifications and direction of Engineering in charge 225 mm dia HDPE Pipe	M	160.000	574.001	91,840.160

Sub P:

and on: 20/07/20

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Sl. NO	Rate	Unit	Description of the items	Unit	Qty	Unit rate (Tk.)	Amount (Tk.)
3.00	Approved rate	Civil	Installation and laying of High Density Polyethylene (HDPE) water pipelines by Open Cut method 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 road/Cement Concrete/Reinforced Cement Concrete road surface except rock to the full depth of trench required by the specifications, precautions necessary to avoid damage of underground utility services, (if any damage occurs, Contractor shall repair by his own cost) including removing the excavated earth & stacking the same to safe distance without any traffic obstacles, dewatering of the trench to keep dry condition at all times, including all necessary shoring, boxing, must be protected from any collapse of trench sides, transportation of pipes to site, cleaning, jointing and laying of the water pipes, as per specifications and direction of Engineering in charge. 160 mm dia HDPE Pipe	M	2.000	542.001	1,084.002

Subj: road work

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Item No	Rate	Unit	Qty	Unit rate (Tk.)	Amount (Tk.)
4.00	Approved rate	Civil	M	414.001	1,656.004
5.00	Approved rate	Civil	Nos	1,495.001	5,980.004
6.00	Approved rate	Civil	Nos	1,495.001	1,495.001

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Item No	Rate	Group	Description of the items	Unit	Qty	Unit rate (Tk.)	Amount (Tk.)
7.00	Approved rate	Civil	Extra-over item 1 for supplying and installing of HDPE (PN16, PE 100, SDR 11) fittings in accordance with the technical specification and the standard detailed drawings, of any diameter specified below. The rate includes for transportation of fittings to site, cleaning, jointing and laying of the fittings as per specifications and direction of Engineering in charge. HDPE SLEEVE (EF) 200 MM (Only Laying Charge)	Nos	30.000	2,587.001	77,610.030
8.00	C-2.2, PWD-2022	Civil	Extra-over item 1 for supplying and installing of HDPE (PN16, PE 100, SDR 11) fittings in accordance with the technical specification and the standard detailed drawings, of any diameter specified below. The rate includes for transportation of fittings to site, cleaning, jointing and laying of the fittings as per specifications and direction of Engineering in charge. HDPE SLEEVE (EF) 250 MM (Only Laying Charge)	Nos	3.000	2,587.001	7,761.003
9.00	Approved rate	Civil	Extra-over item 1 for supplying and installing of HDPE (PN16, PE 100, SDR 11) fittings in accordance with the technical specification and the standard detailed drawings, of any diameter specified below. The rate includes for transportation of fittings to site, cleaning, jointing and laying of the fittings as per specifications and direction of Engineering in charge. HDPE TEE (EF) 110 MM X 110 MM X 110 MM	Nos	1.000	2,127.001	2,127.001
10.00	Approved rate	Civil	Extra-over item 1 for supplying and installing of HDPE (PN16, PE 100, SDR 11) fittings in accordance with the technical specification and the standard detailed drawings, of any diameter specified below. The rate includes for transportation of fittings to site, cleaning, jointing and laying of the fittings as per specifications and direction of Engineering in charge. HDPE TEE (EF) 200 MM X 110 MM X 200 MM	Nos	1.000	3,025.001	3,025.001





Bill NO	Rate	Unit	Description of the items	Unit	Qty	Unit rate (Tk.)	Amount (Tk.)
11.00	Approved rate	Civil	Extra-over item 1 for supplying and installing of HDPE (PN16, PE 100, SDR 11) fittings in accordance with the technical specification and the standard detailed drawings, of any diameter specified below. The rate includes for transportation of fittings to site, cleaning, jointing and laying of the fittings as per specifications and direction of Engineering in charge. HDPE TEE (EF) 250 MM X 250 MM X 250 MM.	Nos	1.000	3,921.001	3,921.001
12.00	Approved rate	Civil	Extra-over item 1 for supplying and installing of HDPE (PN16, PE 100, SDR 11) fittings in accordance with the technical specification and the standard detailed drawings, of any diameter specified below. The rate includes for transportation of fittings to site, cleaning, jointing and laying of the fittings as per specifications and direction of Engineering in charge. 110 mm dia HDPE 90° bend (EF) (Only Laying Charge)	Nos	1.000	1,495.001	1,495.001
13.00	C-2.2, PWD-2022	Civil	Extra-over item 1 for installation including procurement, supply, carrying of HDPE (PN10, PE 100, SDR 11) fittings in accordance with the technical specification and the standard detailed drawings, of any diameter specified below. The rate includes for transportation of fittings to site, cleaning, jointing and laying of the fittings as per specifications and direction of Engineering in charge. Reducer - EF 250 x 200 mm (Only laying Charge)	Nos	1.000	2,655.001	2,655.001
14.00	Approved rate	Civil	Extra-over item 1 for installation including procurement, supply, carrying of HDPE (PN10, PE 100, SDR 11) fittings in accordance with the technical specification and the standard detailed drawings, of any diameter specified below. The rate includes for transportation of fittings to site, cleaning, jointing and laying of the fittings as per specifications and direction of Engineering in charge. End Cap - EF 200 mm (Only laying Charge)	Nos	2.000	1,056.001	2,112.002

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	rate	p				(Tk.)	
15.00	Approved rate	Civil	Extra-over item 1 for installation including procurement, supply, carrying of HDPE (PN10, PE 100, SDR 11) fittings in accordance with the technical specification and the standard detailed drawings, of any diameter specified below. The rate includes for transportation of fittings to site, cleaning, jointing and laying of the fittings as per specifications and direction of Engineering in charge. Stub End 200 mm	Nos	4.000	2,456.001	9,824.004
16.00	C-2.2, PWD-2022	Civil	Bailing out of trapped water caused by inundation or rain, by pump from foundation trenches.	Hr	80.000	474.001	37,920.080
17.00	Approved rate	Civil	Extra-over item 1 for the procurement, carrying, supply, depositing and compaction of fine sand (FM 0.8) for bedding and surrounding the 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	57.038	708.001	40,382.607
18.00	C-3.5.1, PWD-2022	Civil	Extra-over item 1 for the supply, depositing and compaction of fine sand (FM 0.8) for backfilling up to 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	49.905	708.000	35,332.740
19.00	Approved rate	Civil	Extra-over item 1 for backfilling by excavated soil including depositing and compaction 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	69.580	347.000	24,144.368
20.00	C-2.14, PWD-2022	Civil	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 carter/earth etc. complete and accepted by the Engineer-in-charge.	Cum	107.986	756.001	81,637.477

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S.No	Rate	p	Description of the items	Unit	Qty	Unit rate (Tk.)	Amount (Tk.)
21.00	C-2.11, PWD-2022	Civil	50 mm downgraded picked jhama khoa consolidation in foundation trenches by mixing the same with best quality local sand (F.M. 1.2) in (2:1) (Khoa:Sand) proportion to achieve minimum dry density of 95% with optimum moisture content (Modified proctor test) including breaking and screening chips, laying and preading in 150 mm layers uniformly and ompacting etc. all complete and accepted by the Engineer-in-charge	Cum	2.813	6,055.001	17,029.690
22.00	Approved rate	Civil	Removing sludge or semi-liquid clay/substances etc. not suitable for pumping out or carrying by head load from the bottom of any marshy land, lake, ditch, pond by mixing fine local sand of minimum F.M. 0.8 to a proportion such that it can be carried to an intermediate point of disposal and cutting the same including stacking and spreading properly on a suitable place to dry in the sun for a certain days and dispose the dried sludge or clay to a safe distance etc. complete and accepted by Engineer-in-charge subject to submit method statement to the engineer in charge for carrying out the works including ultimate disposal of the sludge under this item for approval. However, engineer's approval shall not relieve the Contractor of his responsibilities and obligations under the contract.	Cum	11.138	1,054.001	11,738.936
23.00	Approved rate	Civil	Extra-over item 1 for installation including procurement, carrying, supply of Gate Valve/Non-return Valve/Pressure Sustaining Valve/Air Release Valve/Washout Valve (BSPN 16) in accordance with the technical specification and the standard detailed drawings, of any diameter, specified below. The rate includes for transportation from plants to site, excavation, backfilling, dewatering, cleaning, joining, laying and related fittings as per specifications and direction of Engineering in charge as per specifications and the standard detail drawing and direction of the Engineer in charge. 200 mm dia Gate valve (only Fitting Charge)	Nos	1.000	3,584.001	3,584.001

Subf. - 2024/01/02/0000

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Item No	Basis of Rate	Group	Description of the items	Unit	Qty	Unit rate (Tk.)	Amount (Tk.)
24.00	Approved rate	Civil	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.	Each	3.000	2,809.001	8,427.003
25.00	Approved rate	Civil	Extra-over item 1 for installation including procurement, carrying, supply of Gate Valve/Non-return Valve/Pressure Sustaining Valve/Air Release Valve/Washout Valve (BSPN 16) in accordance with the technical specification and the standard detailed drawings, of any diameter, specified below. The rate includes for transportation from plants to site, excavation, backfilling, dewatering, cleaning, jointing, laying and related fittings as per specifications and direction of Engineering in charge as per specifications and the standard detail drawing and direction of the Engineer in charge. 200 mm dia Non Return Valve (only Fitting Charge)	Nos	1.000	3,584.001	3,584.001
26.00	C-32.5.2, PWD-2022	Civil	Dismantling of plain concrete made of lime or cement and removal of debris to a safe distance	Cum	44.145	1,647.001	72,706.859
27.00	Approved rate	Civil	Hire Charge of road surface Cutter Machine for Heavy surfaced Road (Mechanically). During construction/Rehabilitation of water to cut or dismantling the R.C.C, C.C Asphalt and Bituminous road surface by open cut Method using hard surface Mechanical cutting machine with necessary removal of dismantled materials. Providing temporary indication board, etc. Complete (As per item no 1 both site).	M	316.500	92.501	29,276.567

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	Rate	P				(Tk.)	
28.00	Approved rate	Civil	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.	9.720	438.751	4,264.660
29.00	Approved rate	Civil	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, reinstation, 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	6.000	1,875.001	11,250.006
30.00	C-3.1.1, PWD-2022	Civil	Herring bone bond (HBB) with brick on edges pavement with first class or picked jhama bricks as per alignment, camber and grade over 12 mm thick sand cushion (F.M. 0.80) including filling the joints with the same sand including cost of all materials and accepted by the Engineer-in-charge.	Sqm.	64.500	1,090.001	70,305.065
31.00	C-3.1.1, PWD-2022	Civil	One layer brick flat soling in foundation or in floor with first class/picked jhama bricks (BDS 208) including preparation of bed and filling the interstices with local sand, leveling etc. complete and accepted by the Engineer-in-charge	Sqm.	133.800	636.001	85,096.934

Supd: *and on: 20/07/2022*

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Description of the items						
Rate	p		Unit	Qty	Unit rate (Tk.)	Amount (Tk.)
32.00	Approved rate	Civil				
		Supplying and spreading 1st class and picket bricks chips (LAA value not exceeding 40) including cost of bricks carrying, breaking into specified sizes including screening & specified sizes spreading uniformly on the road surface maintaining grade, camber and super elevation, etc. All complete as per direction of the E+C. 50mm downgraded.	Cum	7.110	3,800.141	27,019.003
33.00	Approved rate	Civil				
		Mass concrete (1:2:4) in foundation or in floor with cement, sand (F.M. 1.2) and picked Jhama brick chips including breaking of chips, screening, mixing, laying, compacting to required level and curing for at least 7 days including the supply of water, electricity, costs of tools & plants and other charges etc. all complete and accepted by Engineer-in-charge. (Cement: CEM-II / B-M)	Cum	15.525	10,504.001	163,074.616
34.00	C-3.7, PWD-2022	Civil				
		Supplying and laying of single layer polythene sheet weighing one kilogram per 6.5 square meter in floor or anywhere below cement concrete complete in all respect and accepted by Engineer-in-charge.	Sqm.	122.400	47.001	5,752.922
35.00	C-2.1.2, PWD-2022	Civil				
		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 Earthwork in excavation in foundation trenches up to 1.5 m depth and maximum 10 m lead	Cum	6.431	168.001	1,080.456

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	Rate	p				(Tk.)	
36.00	C-4.3, PWD- 2022	Civil	Brick works with first class bricks with 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-in-charge. (Cement: CEM-II/B-M) In ground floor	Cum	0.619	10,097.001	6,247.519
37.00	C-4.25, PWD- 2022	Civil	75 mm thick cement concrete (1:3:6) flooring with cement, best quality coarse sand and 19 mm downgraded picked jhama brick chips including breaking of chips,screening, mixing, laying, compacting, washing and screening of sand (F.M.1.2) and curing at least for 7 daysetc. including cost of water, electricity and other charges etc.all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M)	Sqm.	2.250	702.001	1,579.502

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Item No	Rate	Unit	Description of the items	Unit	Qty	Unit rate (Tk.)	Amount (Tk.)
38.00	C-7.2.1, PWD- 2022	Civil	Reinforced cement concrete works with minimum cement content relates to mix ratio 1:2:4 having maximum water cement ratio = 0.40 and minimum f_{cr} = 30.5 MPa, satisfying a specified compressive strength $f_c = 22$ MPa at 28 days on standard cylinders as per standard practice of Code ACI / BNBC, cement conforming to BDS EN-197-1-CEM-I, 52.5N, best quality Sythet sand or coarse sand of equivalent F.M. 2.2 and 20 mm down well graded stone chips conforming to ASTM C-33 (Aggregate grading as per table shown in technical specification), conducting necessary tests, making and placing shutter in position maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position; mixing in standard mixer machine with hopper fed by standard measuring boxes, casting in forms, compacting by vibrator machine and curing at least for 28 days, removing centering-shuttering after specified time approved; including cost of water, electricity, other charges etc. all complete, approved and accepted by the Engineer-in-charge. (Rate is excluding laboratory test fees, the cost of shuttering & centering individual & combined footing, pile cap, raft/mat, floor slab and foundation beam up to plinth level)	Cum	0.563	14,128.001	7,947.001
39.00	C-8.1.2, PWD- 2022	Civil	Grade 400 (B400DWR / B420DWR: complying BDS ISO 6935-2:2016 / ASTM A615) ribbed or deformed bar produced and marked according to Bangladesh standard, with minimum yield strength, f_y (ReH) = 400 MPa but f_y not exceeding 480 MPa and whatever is the actual yield strength within allowable limit as per BNBC/ ACI 318, the ratio of ultimate tensile strength f_u to yield strength f_y , shall be at least 1.25 and minimum elongation after fracture and minimum total elongation at maximum force is 17% and 8% respectively : up to ground floor.	Kg	8.010	121.001	969.218

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Description of the items							
Rate	P		Unit	Qty	Unit rate (Tk.)	Amount (Tk.)	
40.00	C-15.1.1, PWD- 2022	Civil	Minimum 12 mm thick cement sand (f. M. 1/2) plaster (1/4) with fresh cement to both inner and outer surface of wall, finishing the corner and edges including washing of sand, cleaning the surface, curing at least for 7 days, cost of water, electricity, scaffolding and other charges etc. all complete in all respect as per drawing and accepted by the Engineer-in-charge. (Cement CEM-II/B-M) Ground floor	Sqm	9.000	315.001	2,835.009
41.00	C-16.3.1, PWD- 2022	Civil	Procurement, carrying, supplying of all necessary materials and Construction of Gate valves surface box in the network including supports and all piping, fittings and other equipment in accordance with the specification and standard detail drawings	Nos	1.000	5,537.001	5,537.001
42.00	C-16.3.1, PWD- 2022	Civil	Standard synthetic enamel paint of approved best quality and colour delivered from authorized local agent of the manufacturer in a sealed container, having high water resistance, high bondability, flexibility property, using specified brand thinner applying to metallic or wooden surface by brass/roller/spray in 2 coats over single coat anti-corrosive coating including cleaning, drying, making free from dirt, grease, wax, removing all chalked and scaled materials, all complete in all floors and accepted by the Engineer-in-charge.	Sqm.	5.800	229.001	1,328.206
Total Amount Tk.						997,505.158	997,505.158
						997,505.158	

In word : Taka Nine Lakh Ninety Seven Thousand Five Hundred Five Point One Five Eight only.

Sandip
15/05/24
Sub-Assistant Engineer
MODS Zone-6,
Dhaka Wasa

Arifur Rahman
15/05/24
Assistant Engineer
MODS Zone-6,
Dhaka Wasa

9/16/15/24
Executive Engineer
MODS Zone-6,
Dhaka Wasa