

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 : Repairing and Maintenance of Boundary wall at Muslimnagar water pump under MODS Zone-7, Dhaka WASA.

Item No	Group	Basis of Rate	Description of Item of the Works	Unit	Qty	Unit rate (Tk.)	Amount (Tk.)
1	Civil	PWD Rate Schedule 2022 Item No. 04.16	125 mm brick work with first class bricks with cement sand (F.M. 1:2) mortar (1:6) and making bond with connected walls including necessary scaffolding, raking out joints, cleaning and soaking the bricks for at least 24 hours before use and washing of sand, curing at least for 7 days in all floors including cost of water, electricity and other charges etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II(B-M))	Sqm	19.500	1408.001	27456.020
2	Civil	PWD Rate Schedule 2022 Item No. 07.3.2	Reinforced cement concrete works with minimum cement content relates to mix ratio 1:1.5:3 having maximum water cement ratio = 0.40 and minimum fcr = 33.5 MPa, satisfying a specified compressive strength $f_c = 25$ 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 Sylhet 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 and maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position; mixing with 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. Pedestals, column, column capital, lift wall and RCC wall up to ground floor	Cum	0.751	14964.000	11233.173
3	Civil	PWD Rate Schedule 2022 Item No. 07.12.4	Centering and shuttering, including strutting, propping etc. (The formwork must be rigid enough both in and out of plane, to make the concrete surface true to the designed shape and size by using necessary MS sheets of minimum 16 BWG, angles of minimum size 40 mm x 40 mm x 5 mm, flat bars etc.) and removal of form for : column	Sqm	3.004	522.000	1568.039

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Item No	Group	Basis of Rate	Description of Item of the Works	Unit	Qty	Unit rate (Tk.)	Amount (Tk.)
4	Civil	PWD Rate Schedule 2022 Item No. 08.1.2	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, fy (ReH)= 400 MPa but fy 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 fu to yield strength fy, 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	100.000	121.000	12100.000
5	Civil	PWD Rate Schedule 2022 Item No. 15.1.2	Minimum 12 mm thick cement sand (F.M. 1.2) plaster (1:4) with fresh cement to 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)	Sqm	41.347	335.001	13851.420
6	Civil	PWD Rate Schedule 2022 Item No. 16.1.1	Exterior standard acrylic emulsion paint of approved best quality and color having water resisting properties and resistance properties against fungi, fading & flaking delivered from authorized local agent of the manufacturer in a sealed container; applying to exterior surface with surface preparation including cleaning, drying, making free from dirt, grease, wax, removing all chalked and scaled materials, fungus, mending good the surface defects using sand paper and necessary scaffolding; applying necessary exterior sealer of specified brand on prepared surface; then applying necessary exterior putty of specified brand for levelling, spot filling, crack filling and cutting by sand paper/zero water paper; finally applying 2 coats of exterior emulsion paint spreading by brush/roller/spray & necessary scaffolding etc. up to desired finishing, elapsing specified time for drying or recoating; all complete in all floors and accepted by the Engineer-in-charge.	Sqm	115.550	274.000	31660.700
7	Civil	Approved rate	Dismantle of R.C.C. Column	Cum	0.211	2790.001	589.331

In word : Taka Ninety Eight Thousand Four Hundred Fifty Eight Point Six Eight Four Only.

Total Amount Tk. 98,458.684

Accepted
24.07.23
Sub-Assistant Engineer
MODS Zone-7
DWASA.

Accepted
28/07/23
Assistant Engineer/ SDE
MODS Zone-7
DWASA.

Accepted
24.07.23
Executive Engineer
MODS Zone-7
DWASA.