

Section-06
Bill of Quantities (BOQ)

Name of the work: Identification , Maintenance operation and raising of S/V chamber, Air release valve chamber, DMA chamber and Bulk meter chamber at surface box atDMA-1008 & DMA-1009 under MODS Zone-10, Dhaka WASA.

SL No	Base of Rate	Description of Materials	Unit	Quantity	Rate	Amount
1	PWD-7.1.3	Reinforced cement concrete works using wooden shutter, with minimum cement content relates to mix ratio 1:2:4 having minimum $f_{cr} = 24$ Mpa, and satisfying a specified compressive strength $f_c = 19$ Mpa at 28 days on standard cylinders as per standard practice of Code ACI/BNBC/ASTM & cement conforming to BDS EN-197-1- CEM I, 52.5N (52.5MPa) / ASTM-C 150 Type - I, best quality sand [50% quantity of best local sand (F.M. 1.2) and 50% quantity of Sylhet sand or coarse sand of equivalent F.M. 2.2] and 20 mm down well graded picked jhama brick chips conforming ASTM C-33 including breaking chips and screening, making, placing shutter in position and 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, additional testing charges of materials and cylinders required by engineer, other charges etc. all complete approved and accepted by the Engineer.(Rate is excluding the cost of reinforcement and its fabrication, placing and binding etc)	Cum	2.97	10435.001	30991.953
2	PWD-4.3	Brick works with first class bricks with cement sand (F.M. 1.2) mortar (1:6) in foundation and plinth, filling the joints/interstices fully with mortar, racking out the joints, cleaning and soaking the bricks at least for 24 hours before use and curing at least for 7 days etc. all complete including cost of water, electricity and other charges and accepted by the Engineer-in-charge. (Cement: CEM-II/A-M)	Cum	16.93	10097.001	170942.227

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3	PWD-8.1.2	Grade 400 (RB 400 /RB 400W: complying BDS ISO 6935-2:2006) ribbed or deformed bar produced and marked according to Bangladesh standard, with minimum yield strength, f_y (R_{eH})= 400 MPa but f_y not exceeding 450 MPa and whatever is the 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 16% and 8% respectively : up to ground floor.	Kg	347.30	121.001	42023.647
4	PWD-15.3	Minimum 12 mm thick cement sand (F.M. 1.2) plaster with neat cement finishing to dado with cement (1:4) up to 150 mm including washing of sand, finishing the edges and corners and 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/A-M) ground floor.	m ²	17.81	395.001	7034.968
5	PWD-7.20.3	Water-proofing membrane on the floor or on the horizontal surfaces with permanent protective cover & wearing coarse. (Rate is excluding the cost of olective cover and wearing coarse which to be paid as per corresponding items in this schedule)	m ²	56.40	930.001	52452.056
6	PWD-26.43.3	6" C class PVC pipe for fitting and fixing in S/V and washout chamber, all completed as per direction of Engineer in charge.	RM	33.53	1599.001	53614.504
7	Approved rate	Skilled technician for PVC pipe cutting, fitting and operating cutting disk.	Each	20.00	1000.001	20000.020
8	Approved rate	Labor for earth excavation to rise S/V in Road level and back filling of sand and S/V, washout operation	Nos	58.00	800.001	46400.058
9	PWD-02.10.1	Sand filling in foundation trenches and plinth with coarse sand having min F.M 1.2 in 150mm in layers including leveling, watering and compaction o achieve minimum dry density of 90% with optimm moisture content (Modified proctor test) by raming each layer up to finished level as per design supplied by the design office only etc. all complete and accepted by the engineer.	Cum	47.62	1088.001	51810.608
10	Approved rate	Hire charge of marble cutting disk for pipe cutting	P/Day	22	600.001	13200.022
11		Purchase for bamboo, rope, hacksaw set, GI wire etc	L.S	1	10000.001	10000.001
Sub Total						498,470.064

Tender Price quoted by the Tenderer : (% above / Less) 1.1% less (Tk. 5483.171)

Tk. In Figure : 492986.8985

Tk. In Word : Four lac ninety two thousand nine hundred eighty six point eight nine three only

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