

Office of the Executive Engineer

Saidabad Water Treatment Plant (Operation)
Dhaka WASA

Name of the works: Construction of Aquazer V filter sand stacking zone adjacent to Operation building area under Siadabad Water Treatment Plant.

Item No	Description of Items	Quantity	Unit	Rate (Tk)	Amount (Tk)
(1)	(3)	(4)	(5)	(6)	(7=4x6)
CIVIL WORKS					
1	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 cover 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.	28.00	Sqm	169.00	4,732.00
2	Layout and marking for earthwork in excavation in foundation accepted by the Engineer-in-charge. [Plinth area of the structure shall be considered for measurement]	28.00	Sqm	15.00	420.00
3	Earthwork in excavation in foundation trenches up to 1.5 m depth and maximum 10 m lead: in very stiff (hard) clayey soil/ rubbish etc.	0.00	Cum	189.00	-
4	Sand filling in foundation trenches and plinth with sand having F.M. 0.5 to 0.8 in 150 mm layers including leveling, watering and compaction to achieve minimum dry density of 95% with optimum moisture content (Modified proctor test) by ramming each layer up to finished level as per design supplied by the design office only, all complete and accepted by the Engineer-in-charge.	10.80	Cum	635.00	6,858.00
5	One layer brick flat soling in foundation or in floor with first class/picked jhama bricks including preparation of bed and filling the interstices with local sand, levelling etc. complete and accepted by the Engineer-in-charge	23.18	Sqm	420.00	9,735.60
6	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.	23.18	Sqm	42.00	973.56

Handwritten: 04.12.23
মোহাম্মদ শরিফ মাহমুদ
উপ-সহকারী প্রকৌশলী
সায়দাবাদ পানি শোধনাগার (পরিচালন)
ঢাকা ওয়াসা।

মোহাম্মদ জসিম উদ্দিন
সহকারী প্রকৌশলী
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মোঃ আবিদ হোসেন
নির্বাহী প্রকৌশলী
সায়দাবাদ পানি শোধনাগার (পরিচালন)
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(1)	(3)	(4)	(5)	(6)	(7=4x6)
7	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)	6.150	Cum	6,040.000	37,146.00
8	Exposed brick works (for exterior wall without outside plaster) with special quality sorted out first class bricks, very carefully laid in cement sand (F.M. 1.2) mortar (1:4) in superstructure with uniform width and depth of joints, true to vertical and horizontal lines including raking out joints, scaffolding, soaking the bricks at least for 24 hours before use, washing and screening of sand, curing at least for 7 days and high class flush pointing with cement sand (F.M. 1.2) mortar (1:1) including cost of water, electricity and other charges etc all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/A-M) In ground floor	4.610	Cum	7,894.000	36,391.34
9	Reinforced cement concrete works with minimum cement content relates to mix ratio 1:2:4 having minimum $f'_{cr} = 27$ MPa, satisfying a specified compressive strength $f'_c = 22$ 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 (52.5 MPa) / ASTM-C 150 Type - I, 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, 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 or mixing in batching plant, 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, laboratory testing charges of materials and concrete cylinders as required, cost of all materials and other charges etc. all complete, approved and accepted by the Engineer-in-charge. (Rate is excluding the cost of reinforcement and its fabrication, placing, binding etc. and the cost of shuttering & centering				-
	Individual & combined footing, pile cap, raft/mat, floor slab and foundation beam up to plinth level	4.64	Cum	11,817.00	54,830.88

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(1)	(3)	(4)	(5)	(6)	(7=4x6)
10	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, fy (ReH)= 400 MPa but fy not exceeding 450 MPa and whatever is the 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 16% and 8% respectively : up to ground floor.	408.56	Kg	82.00	33,501.92
12	Standard synthetic enamel paint of approved best quality and colour delivered from authorized local agent of the manufacturer (Berger jhilik synthetic enamel/Elite quick drying/Asian decora synthetic enamel or equivalent brand) 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 machine 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.	79.20	Sqm	189.00	14,968.80
13	Dismantling of R.C.C. beam, lintel, column, drop wall, sun shade from any height and removal of debris to a safe distance	5.00	Cum	3,347.00	16,735.00
14	Sand Restacking, move out from bag, removing debris and foreign materials and stacking on the newly constructed bed by Experience & Skilled labor. Per bag sand will be 50kg.	6000.00	bag	45.00	270,000.00
15	Supplying temporary safety measures (hessian cloth/net/Belt/ hand gloves/Sanitizer etc.) around construction work place (along the height of the building) where public safety is likely to be endangered due to construction activities; which shall be supported using scaffolding around the building for brick work/ plaster; including fitting and fixing in position providing necessary anchors, wires, ties etc. all complete and accepted by the Engineer-in-charge.	1.00	Each	3,000.00	3,000.00
Total Amount Tk.					489,293.10

In Word: Four Lac Eighty Nine Thousand Two Hundred Ninety Three Point One Zero Taka Only

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