

Office of the Executive Engineer
Savar-Keraniganj Wellfield Plant, Dhaka WASA
Bhakurta, Savar, Dhaka

Estimate

Name of Work: Construction of water tank base & installation of water tank for IRP#2 answer dormatory.

Sl. No.	Basis of Rate	Description of Item/Work	Unit	Quantity	Unit Rate (BDT)	Amount (BDT)
1	2	3	5	4	6	7
1	PWD SoR 2022 07.2.1	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 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 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. Individual & combined footing, pile cap, raft/mat, floor slab and foundation beam up to plinth level.	cum	1.222	14,128.000	17,264.416
2	PWD SoR 2022 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, 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	142.006	121.000	17,182.774
3	PWD SoR 2022 26.58.1	Supplying, fitting and fixing of food graded plastic overhead water reservoir /tank including all necessary fittings, hardware and consumables etc. all complete approved and accepted by the Engineer- in- charge. 1000 liter capacity	nos	1.000	11,998.000	11,998.000
4	PWD SoR 2022 26.45.3	Supplying different inside dia best quality uPVC pressure pipe for water supply having specific gravity 1.35 -1.45, and other physical, chemical, thermal, fire resistivity properties etc. as per BSTI approved manufacturer standards or ASTM, BS/ISO/IS standards fitted and fixed in position with sockets, bends, with all accessories such as Round grating/ domed roof grating, bends, sockets etc. approved and accepted by the Engineer-in-charge. 25 mm dia wall thickness 2.2 mm - 3.4 mm.	meter	12.000	279.000	3,348.000
					Total =	49,793.190
In Words: Forty-Nine Thousand Seven Hundred Ninety-Three Point One Nine Zero Taka Only.						

02.08
2023
মোঃ আবুল কালাম আজাদ
উপ-সহকারী প্রকৌশলী
সভার-কোরানীগঞ্জ ওয়েলফিল্ড প্লান্ট, ঢাকা ওয়াসা

02/08/23
কাজী বিল্লাল হোসেন
সহকারী প্রকৌশলী
সভার-কোরানীগঞ্জ ওয়েলফিল্ড প্লান্ট
ঢাকা ওয়াসা।

02/08
2023
মাসুদুল আলম
নিবাহী প্রকৌশলী
সভার-কোরানীগঞ্জ ওয়েলফিল্ড প্লান্ট, ঢাকা ওয়াসা।

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Calculation

Name of Work: Construction of water tank base & installation of water tank for IRP#2 answer dormatory.

Sl. No.	Description of Item/Work	Length (m)	Width (m)	Height/Depth (m)	Area (m ²)	Volume (m ³)	Weight (Kg/m)	No of Item	No of Work	Quantity of Works	Unit
1	R.C.C Work										
	a) Base & Top Slab for Water Tank:	1.800	1.800	0.150		0.486		1.00	2.00	0.972	
	a) Column for Slab Construction	0.250	0.250	1.000		0.063		4.00	1.00	0.250	
									Total =	1.222	cum
2	Deformed Reinforced Bar:										
	a) Floor Slab										
	Ø 12mm Dia both way @ 100mm C/C	1.800					0.888	18.00	4.00	115.085	
	Ø 12mm Dia Vertical Road	1.200					0.888	4.00	4.00	17.050	
	Ø 10mm Dia Stirrup @ 200mm C/C	0.800					0.617	5.00	4.00	9.872	
									Total =	142.006	kg
3	1000 litter Capacity Water Tank:										
	a) IRP#2 Answer Camp							1.00	1.00	1.000	
									Total =	1.000	nos
4	1000 litter Capacity Water Tank:										
	a) IRP#2 Answer Camp	12.000						1.00	1.00	12.000	
									Total =	12.000	meter

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 সাতার-কেরানীগঞ্জ ওয়েলফিল্ড প্লান্ট, ঢাকা ওয়াসা

০২/০৮/২৩
 কাজী বিল্লাল হোসেন
 সহকারী প্রকৌশলী
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