

Bill of quantity for the work Construction of settling tank and complete renovation of Checkpost Filter Plant under Urimari Project, Barka-Sayal Area.

s.n.	Description	Qty	unit	Rate	Amount
1	Part A (New Settling Tank) - Earth work in excavation by mechanical means (Hydraulic excavator) / manual means foundation trenches, drain not exceeding 1.5 m in width as well as 10 sqm on plan including dressing of sides and ramming of bottom, lift up to 1.5 m including getting out the excavated soil and disposal of surplus excavated soil as directed within a lead of 50 m. (All kinds of soils).	81.47	cum	210.61	17158.4
2	Supplying and filling in plinth with Jamuna sand under floors including watering, ramming, consolidation and dressing complete.	20.82	cum	1242.11	25860.73
3	Providing and laying cement concrete of specified grade excluding the cost of centering and shuttering in all works up to plinth level : 1:3:6 (1 cement : 3coarse sand : 6graded stone aggregates 20 mm nominal size).	41.64	cum	4514.04	187964.63
4	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement in all works up to plinth level : 1:1.5:3 (1cement : 1.5coarse sand : 3 graded stone aggregates 20 mm nominal size).	140.09	cum	7388.64	1035074.58
5	Reinforced cement concrete work in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, struts, buttresses, plinth, string or lacing courses, parapets, copings, bed blocks, anchor blocks, plain window cills, fillets etc. up to floor five level, excluding the cost of centering, shuttering finishing and reinforcement: 1:1.5:3 (1cement : 1.5coarse sand : 3graded stone aggregates 20 mm nominal size).	35.74	cum	8666.50	309740.71
6	Reinforcement for RCC work including straightening, cutting, bending, binding and placing in position complete: Thermo Mechanically Treated bars.	13380.30	kg	89.79	1201417.14
7	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5m.	27.16	cum	173.71	4717.38
8	Providing and fixing C.I. sluice valve (with cap) complete with nuts, bolts, rubber insertions etc. (the tail piece if required will be paid separately) : 150mm diameter Class II.	3.00	each	5512.60	16537.8

9	Part B (Dismantling Exiting Tank And Renovation of Filter plant) - Demolishing brick work manually / by mechanical means including stacking of serviceable materials and disposal of unserviceable materials within 50 metre lead as per direction of Engineer-in-charge. In cement mortar.	217.52	cum	1153.46	250900.62
10	Demolishing cement concrete manually / by mechanical means including disposal of materials within 50m lead as per direction of Engineer-in-charge: 1:3:6 or richer mix.	14.40	cum	1364.11	19643.18
11	Grading roof for water proofing treatment with: Cement mortar 1:4 (1cement : 4coarse sand)	3.17	cum	9422.69	29869.93
12	Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer, 3mm thick water proofing membrane, black finished reinforced with glass fibre matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 ltr/sqm. by the same membrane manufactured of density at 25°C, 0.87 - 0.89 kg/ltr and viscocity 70 - 160 cps. Over the primer coat the layer of membrane shall be laid using butane torch and sealing all joints etc., and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 350/300 N/5cm. Tear strength in longitudinal and transverse direction as 60/80N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto - 2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane: 3 mm thick	161.35	sqm	437.15	70534.15
13	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50mm +/- 5% total coated thickness (TCT) Zinc coating 120gsm as per IS:277 in 240mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protected guard film of 25 microns minimum to avoid scratches while transportation and should be supplied in single length up to 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling / self tapping screws of size (5.5x55mm) with EPDM seal or with polymer coated J or L hooks, bolts and nuts 8mm diameter with bitumen and GI limpet washers or with GI limpet washers filled with white lead complete upto any pitch in horizontal / vertical or curved surfaces excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	15.33	sqm	770.96	11818.82

14	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade: New work (two or more coats) over and including a priming coat with cement primer.	431.31	sqm	120.16	51826.21
15	Finishing wall with water proofing cement paint of required shade: New work (Two or more coats applied @ 3.84 kg / 10 sqm).	1169.60	sqm	72.85	85205.36
16	Surface dressing of the ground including removing vegetation and inequalities not exceeding 15 cm deep and disposal of rubbish lead up to 50 m and lift up to 1.5 m. (All kinds of soil).	1420.00	100 sqm	19.08	27093.6
17	Providing and laying cement concrete of specified grade excluding the cost of centering and shuttering in all works up to plinth level : 1:2:4 (1cement : 2coarse sand : 4graded stone aggregates 20 mm nominal size).	8.76	cum	6599.52	57811.8
18	Steel work in riveted, bolted or welded in built up sections, trusses and framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	26.70	kg	105.08	2805.64
19	Providing and fixing 1mm thick M.S. sheet garage door with frames of 40x40x6mm angle iron, 3mm M.S. gusset plates at junctions and corners, all necessary fittings complete including applying a priming coat of approved steel primer: Using M.S. flats 30x6mm for diagonals and central cross place.	2.65	sqm	4055.54	10747.18
20	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade: One or more coats on old work.	35.37	sqm	63.88	2259.44
					3418987.30
					615417.71
		Total cost incl. GST			4034405.01