

Bill of Quantities

NAME OF WORK: Construction of additional RCC treated water reservoir at Hill top near academic complex at IITG

Sl. No	Description	Unit	Qty	Rate (Rs.)		Amount in Rs.
				Amount in figure	Amount in words	
1	Clearing jungle including uprooting of rank vegetation, grass, brushwood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared.	sqm	665.46			
2	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge. All kinds of soil	cum	199.09			
3	Providing flat brick soiling under foundation, floor, plinth beam including packing with coarse sand and watering etc complete as directed with bricks class designation 75 in cement mortar in proportion 1:4 including curing complete as specified and as directed.	sqm	141.61			
4	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:3:6 (1 Cement : 3 coarse sand (zone-III) : 6 graded stone aggregate 20 mm nominal size).	cum	23.32			
5	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III): 3 graded stone aggregate 20 mm nominal size).	cum	38			

Sl. No	Description	Unit	Qty	Rate (Rs.)		Amount in Rs.
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6	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement : 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size).	cum	57.00			
7	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size).	cum	22.99			
8	Centering and shuttering including strutting, propping etc. and removal of form for all heights :					
(a)	Foundations, footings, bases of columns, etc. for mass concrete	sqm	26.35			
(b)	Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc.	sqm	409.61			
(c)	Suspended floors, roofs, landings, balconies and access platform	sqm	140.00			
9	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level. Thermo-Mechanically Treated bars of grade Fe-500 D or more.	Kg	5700.00			

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10	Providing and Placing in position suitable PVC water stops conforming to IS:12200 for construction/ expansion joints between two RCC members and fixed to the einforcement with binding wire before pouring concrete etc. complete : Serrated with central bulb (225 mm wide, 8-11 mm thick)	metre	98.96			
11	12 mm cement plaster of mix : 1:4 (1 cement: 4 fine sand)	sqm	945.00			
12	12 mm cement plaster finished with a floating coat of neat cement of mix : 1:3 (1 cement: 3 fine sand)	sqm	1110.00			
13	Extra for plastering on circular work not exceeding 6 m in radius: In one coat	sqm	1110.00			
14	Extra for plastering: Spherical ceiling	sqm	750.00			
15	Finishing walls with Acrylic Smooth exterior paint of required shade : New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	sqm	945.00			
16	Providing and fixing FRP made lockable hinged circular manhole cover including frame as per Indian Standard as directed by Engineer-in-charge- 600 mm diameter	each	6.00			

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17	Providing and fixing stainless steel (Grade 304) railing/Ladder made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-incharge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	Kg	420			
18	Providing and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS : 8329 : 250 mm dia Ductile Iron Class K-7 pipes	metre	200.00			
19	Providing push-on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pipes including testing of joints and the cost of rubber gasket : 250 mm dia pipes	joint	80.00			
20	Providing and laying S&S C.I. /DI Standard specials such as tees, bends, collars tapers and caps etc, suitable for flanged jointing as per IS : 1538 : Up to 300 mm dia	quintal	46			
21	Supply of KVMC make Ductile Iron Sluice Valve Flanged End Glandless type ISI marked conforming to IS 14846: 2000with hand wheel and ss 304 spindle. Suitable for 25kg/cm2 working pressure					
a	Size: 250mm Make KVMC	each	24			
WATER PROOFING						

Sl. No	Description	Unit	Qty	Rate (Rs.)		Amount in Rs.
				Amount in figure	Amount in words	
22	Preparation of the surface by chipping & cleaning the Surface with wire brush. Making the groove cutting at the construction joint (at the wall and floor junction)Wash it thoroughly by water, Making the Surface saturated dry condition. sealing the joint with polymer modified mortar	sqm	1360.00			
23	Application of one coat of two component Cementitious coating with Choksey Techforce 2K Strong /Sika Top seal 107 / Asian Damp block 2K as a Prime Coat as per the Company's specification. Application of 2nd coat Choksey Techforce 2K Strong/ Sika Top seal 107 / Asian Damp block 2K as a final coat (Two coats of 1mm thick) over The Treated surface, sprinkling of sand should be done.	sqm	1360.00			
24	Providing & applying two coats of Sikagard-67/ Asian Tri Block (water base solvent free, odourless, Epoxy resin protective coating) on the entire wall & floor surface area as per manufacturer specification. (on plastered surface)	sqm	1360.00			
				Total (₹)		
				Rebate if any in %		
				Grand Total after rebate (₹)		
Grand Total (in words):						