

**BOQ FOR CONSTRUCTION OF TOILET AT IISER,SECTOR-81,MOHALI**

S.No	DSR 2007	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT
1	2.8	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
	2.8.1	All kinds of soil.	60	cum		
2	2.25	(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 upto 1.5 m.	15	cum		
3	2.26	Extra for every additional lift of 1.5 m or part thereof in.				
	2.26.1	All kinds of soil.	20	cum		
4	2.27	Supplying and filling in plinth with Jamuna sand under floors including, watering, ramming consolidating and dressing complete.	25	cum		
5	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
	4.1.10	1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	13	cum		
6	4.10	Providing and laying damp proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand :4 graded stone) aggregate 12.5mm nominal size.	13	sqm		
7	4.13	bitumen of penetration 80/100 of approved quality using 1.7kg per square metre on damp proof course after cleaning with surfaces with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	13	sqm		
8	5.1	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 :				
	5.1.2	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	1.5	cum		
9	5.3	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 up to floor five level excluding the cost of centering, shuttering, finishing and reinforcement with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) shuttering including	1.5	cum		
8	5.9	strutting, propping etc. and removal of form for :				
	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	15	sqm		
9	5.22	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.				

	5.22.3	Cold twisted bars	250	kilogram		
10	6.1	Brick work with F.P.S. bricks of class designation 75 in foundation and plinth in:				
	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	18	cum		
11	6.4	Brick work with F.P.S. bricks of class designation 75 in superstructure above plinth level up to floor V level in all shapes and sizes in :				
	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	19	cum		
12	6.13	Half brick masonry with F.P.S. bricks of class designation 75 in superstructure above plinth level up to floor V level.				
	6.13.2	Cement mortar 1:4(1 cement :4 coarse sand)	26	sqm		
13	6.15	Extra for providing and placing in position 2 Nos. 6mm dia. M.S. bars at every third course of half brick masonry (with F.P.S. bricks).	26	sqm		
14	10.5	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6mm angle iron and 3mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer.				
	10.5.1	Using M.S. angles 40x40x6 mm for diagonal braces.	21	sqm		
15	10.16	Steel work in built up tubular trusses including cutting, hoisting fixing in position and applying a priming coat of approved steel primer, welded and bolted including special shaped washers etc. complete.				
	10.16.1	Hot finished welded type tubes.	75	kg		
16	10.25	Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel plates as required, ladder, railings, brackets, gates and similar works.	150	kg		
17	11.3	: 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement including cement slurry, but excluding the cost of nosing of steps etc. complete.				
	11.3.1	40mm thick with 20mm nominal size stone aggregate.	45	sqm		
18	NS	including vertical/curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead and including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to 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 with 0.50mm thick	27	sqm		
19	13.1	12 mm cement plaster of mix :				
	13.1.1	1:4 (1 cement: 4 fine sand)	280	sqm		
20	13.37	White washing with lime to give an even shade:				
	13.37.1	New work (three or more coats)	240	sqm		

21	13.62	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:				
22	13.62.1	under coat of suitable shade with ordinary paint of approved brand and manufacture.	58	sqm		
23	18.7	Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.				
		<b>Internal work - Exposed on wall</b>				
24	18.7.1	15 mm nominal outer dia .Pipes.	55	metre		
25	19.1	Providing, laying and jointing glazed stoneware pipes grade 'A' with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :				
26	19.1.2	150 mm diameter	30	metre		
27	19.2	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design:				
	19.2.2	150 mm diameter S.W. pipe	30	metre		
28	19.7	Constructing brick masonry manhole in cement mortar 1:4 ( 1 cement : 4 coarse sand ) R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size) inside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement complete as per standard design :				
	19.7.1	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :				
	19.7.1.1	With F.P.S. bricks with class designation 75	2	each		
29	19.32	Making soak pit 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry brick honey comb shaft with bricks of class designation 75 and S.W. drain pipe 100 mm diameter, 1.8 m long complete as per standard design.				
	19.32.1	With F.P.S. bricks	1	each		
30	NS	Providing and fixing water closet squatting pan (Indian type W.C. pan ) with 100mm P.V.C P or S trap, :White Vitreous china Orissa pattern W.C. pan of size 580x440mm with integral type foot rests.	10	each		
31	NS	P/F of P.V.C water tank capacity 500 litre including tank nipple with connection as per Engineer- in charge.	2	each		

32	NS	P/L P.V.C pipe dia 110mm including all fitting excavation and refilling making the good .	20	Rmt		
33	NS	P/L P.V.C Bend 4" x 6"	1	no		
34	NS	P/LP.V.C Bend 6"	3	metre		
35						
36	NS	P/F C.P.V.C union 1/2"	2	no		
37	NS	P/F valve cock 1/2" C.P	2	no		
38	NS	P/F C.P.V.C valve	2	no		
39	NS	P/F PVC tap	10	no		
		<b>TOTAL</b>				