

**DETAIL ESTIMATE FOR CONSTRUCTION OF TOILET**

**S. No.1182(S), GRAM PANCHAYAT BALODA LAKHA, JANPAD PANCHAYAT  
BARNAGAR, TEH. BARNAGAR, DIST. & DIVI. UJJAIN (M.P.)**

SOR.	Particular of items	No.	L	B	H	Quantity	Unit	Rate	Amount
No.	No.		( in meter )					per unit	Rs.
1	2	3	4	5	6	7	8	9	10
1	2.6	Earth work in excavation by mechanical means							
	2.6.1	All kinds of soil.							
		Column footing F1	6	1.40	1.40	1.50	17.64	Cum	
		Septic Tank	1	1.50	3.00	1.50	6.8	"	
							24.4	Cum	151.00
									3682.9
2	2.18	Supplying and filling in plinth under floors including,watering, ramming consolidating and dressing complete							
	2.18.2	Crusher Stone Dust Hall							
		Store &Hut	1	5.90	3.9	0.1	2.30		
							2.30	Cum	687.00
									1580.79
3	2.18.1	Moorum/Hard copra							
		Store &Hut	1	5.90	3.9	0.30	6.90		
							6.90	Cum	487.00
									3361.76
4	4.1	Providing and laying in position cement concrete of							
	4.1.5	Cement concrete grade M-10 (Nominal Mix) with 40							
		Column footing F1	6	1.40	1.40	0.10	1.18	Cum	
		Store &Hut	1	5.90	3.9	0.10	2.30	"	
		Septic Tank	1	1.50	3.00	0.10	0.45		
							3.93	Cum	4219.0
									16568.01
5	5.1.1	Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate							
		Column footing F1 boundry	6	1.20	1.20	0.30	2.59	cum	
		Septic Tank	2	1.3	0.20	2.00	1.04	"	
			2	2.0	0.20	2.00	1.60	"	
		Septic Tank slab	1	2.0	1.70	0.12	0.41	"	
		Column C up to PL	6	0.20	0.30	2.00	0.7	"	
		Ground Beam	4	2.85	0.20	0.30	0.68	"	
		Store &Hut	2	3.7	0.20	0.40	0.59	"	
							7.6	cum	5435.0
									41501.7
7	19.1	Centering and shuttering including strutting, propping etc. and removal of form work by sheet plate or ply wood shuttering for :							
	19.1.1	Foundations, footings, bases of columns, etc. For mass concrete							
		Column footing F1	6	2	1.20	0.35	5.04	Sqm	
		Septic Tank wall	2X2		1.30	2.00	10.4	"	
		Septic Tank wall	2X2		2.00	2.00	16.0	"	
		Septic Tank Roof	1		2.40	1.30	3.1		
		Column C up to PL	6x2		0.30	2.00	7.2	"	
			6x2		0.20	2.00	4.8	"	
		Ground Beam	4x2		2.85	0.40	9.1	"	
		Store &Hut	2x2		3.70	0.40	5.9	"	
							61.6	Sqm	160.00
									9856.00
8	5.2	Reinforced cement concrete work in walls (any							
	5.2.1	M 20 Nomial mix (with 20mm nominal size graded							
		Column C1	6	0.30	0.20	2.60	0.94	Cum	

								0.94	Cum	5656.0	5294.02
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7	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 two level excluding the cost of centering, shuttering, finishing and reinforcement with Cement concrete grade M-20 (Nominal Mix with 20 mm maximum size of stone aggregate).									
		LONG beam	4	2.85	0.20	0.28	0.64	Cum			
		Short beam	2	3.70	0.20	0.28	0.41				
		Short Lintal beam	4	2.85	0.20	0.20	0.46	"			
			2	3.70	0.20	0.20	0.30	"			
			6	1.30	0.10	0.20	0.16	"			
			1	5.70	0.10	0.20	0.11	"			
		Slab	1	6.50	4.5	0.12	3.5				
							5.58	Cum	5932.0	33129.0	
10	5.11	5.11 Reinforcement for R.C.C. work including straightening, cutting, bending, upto 12mm horizontal/ inclined position of reinforcement bars in slab and beams, plinth, chajjas, lintels, upto 4.5m vertical length of reinforcement in wall columns (over laps shall be provided as per requirement of IS : 13920; IS 456 & SP : 34) etc. complete. placing in position and binding all complete.									
	5.11.4	Thermo-Mechanically Treated bars. (Fe 500 D or more)									
		100Kg per Cum of RCC	1	100.0	1.00	14.16	1416	kg.	58.0	82109.4	
9	6.8	Brick work will well burnt open bhatta bricks crushing strength not less than 25kg/cm <sup>2</sup> and water absorption not more than 20% in foundation and plinth In cm 1:4									
	6.40	Cement Mortar 1:6 (1 cement : 6 sand).									
		Front Steps	2	1.50	0.60	0.15	0.27	Cum			
			2	1.50	0.30	0.15	0.14	"			
		WALL	4	2.85	0.20	0.20	0.46	"			
			2	3.70	0.20	0.10	0.15	"			
							1.01	cum	3868.0	3902.81	
11	19.1.6	19.1.6 Columns, Pillars, Piers, Abutments, Posts and Struts.									
		Column C1 up to Lintel	6x2		0.30	2.60	9.4	Sqm			
		Column C1 up to RL	6x2		0.20	2.60	6.2	"			
							15.6	Sqm	362.00	5647.20	
12	19.1.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers.									
		LONG beam	4x2	2.85		0.28	6.38	Sqm			
		Short beam	2x2	3.70		0.28	4.14	"			
		Short Lintal beam	4x2	2.85		0.20	4.56	"			
			2x2	3.70		0.20	2.96	"			
			6X2	1.30		0.20	3.12	"			
			2	5.70		0.20	2.3	"			
							23.45	Sqm	270.00	6330.96	
13	19.1.3	Suspended floors, roofs, landings, balconies and access platform.									
			2	3.90	2.85		22.23	Sqm			
		Slab	2	3.30	0.1		0.66	"			

			2	6.50	0.1		1.30	"					
		Sides of slab	2	6.50	0.12		1.56	"					
			2	3.5	0.12		0.84	"					
							26.6	Sqm	305.00			8109.95	
15	6.9	Brick work will well burnt open bhatta bricks crushing strength not less than 25kg/cm <sup>2</sup> and water absorption not more than 20% in above plinth level upto floor two level in cm 1:6 including the cost of scaffolding etc.											
		6.40 Cement Mortar 1:6 (1 cement : 6 sand).											
			4	2.85	0.20	2.60	5.93	Cum					
			2	3.7	0.20	2.60	3.85	"					
		Deduction D	2	1.50	0.20	2.10	-1.26	"					
		V1	5	0.45	0.20	0.30	-0.14	"					
		V	7	0.60	0.20	0.30	-0.25	"					
							8.13	Cum.	4155.0			33776.00	
15	6.12	Half brick masonry with open bhatta of class designation 25 in superstructure above plinth level upto floor 2 level including the cost of scaffolding.											
	6.12.2	Cement mortar 1:4 (1 cement :4 coarse sand)											
			6	1.4		2.6	21.84	"					
			1	5.7		2.6	14.82	"					
			1	2.8		2.6	7.28	"					
		Deduction D1	7	0.75		1.80	-9.45	"					
							34.49	Sqm	494.0			17038.06	
19	17.1	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of PVC / neoprene gasket required (Fittings shall be paid for separately).											
		17.1.1 Anodised aluminium(anodised transparent or dyed to required shade according to IS:1868,Minimum anodic coating of grade AC15)											
		6kg/sqm D	7	0.75		1.80	31.50	Kg					
		V1	5	0.45		0.30	13.50	"					
		V	7	0.60		0.30	25.20	Kg					
							70.20	Kg	332.0			23306.4	
21	17.2	Providing and fixing 12mm thick prelaminated particle											
		17.2.1 Pre-laminated particle board with decorative lamination on one side and balancing lamination on other side.											
		D1	7	0.75		1.80	5.25	Sqm.	858.0			4504.50	
18	10.2	10.2 Structural steel work 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:											
		Boundry Gate	2	1.5	2.1	30	189						
		V1	5	0.45	0.30	20	14						
		V	7	0.60	0.3	20	25						
						Total	228	Kg.	69.0			15711.30	
27	13.46.	13.46.3 Painting Steel work with Deluxe Multi Surface											
		Boundry Gate	2	1.5	2.1	2	12.6	sqm.					
		V1	5	0.45	0.30	1.20	0.81	"					
		V	7	0.60	0.3	1.20	1.512	"					
							14.922	Sqm	68.0			1014.7	
20	13.1	12 mm cement plaster of mix :											
	13.1.	1:6 (1 cement: 6 sand)											
			4	2.85		2.60	29.64	Sqm					
			2	3.7		2.60	19.24	"					
			6	1.40		2.60	21.84	"					
			1	5.70		2.60	14.82	"					

			1	2.80		2.60	7.28	"		
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		Deduction D	2	1.50		2.10	-6.30	"		
			7	0.75		1.80	-9.45	"		
		V1	5	0.45		0.30	-0.68	"		
		V	7	0.60		0.30	-1.26	"		
		Slab	2	2.85	3.9		22.23	"		
			2	4.30	0.2		1.72	"		
			2	6.50	0.2		2.60	"		
							101.69	Sqm	137.0	13930.85
21	13.12	15mm cement plaster on the rough side of single or half brick wall of mix :								
		13.2.1 1:4 (1 cement: 6 fine sand) Sqm 119.00								
			2	6.30		3.00	37.80			
			2	4.30		3.00	25.80	Cum		
							64	Sqm	159.0	10112.40
22	13.42	Finishing walls with water proofing cement paint of required shade - New work (Two or more coats applied @ 3.84 kg/10 sqm)								
		Qty as per 15mm cement plaster								
			1	64	-	-	63.6	Sq m.	46.0	2925.60
23	13.38	Distemping with 1st quality acrylic distemper (ready mixed) of approved manufacturer, of required shade and colour complete, as per manufacturer's specification								
		Qty as per 12mm cement plaster								
			1	102	-	-	101.7	Sq m.	42.0	4270.77
24	2.16	Filling by 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 upto 1.5 m								
		Column footing								
							24.4	Cum	89.0	2170.71
25	11.31	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete.								
			7	3.95		2.60	71.89			
			1	6.00		2.60	15.60	Cum		
							87.49	Sqm	693.0	60630.57
26	11.32	Providing and laying Ceramic glazed floor tiles 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in all colours, shades, except White, Ivory, Grey, Fume Red Brown laid on 20mm thick bed of Cement Mortar 1:4 (1 Cement : 4 Coarse sand) including pointing the joints with white cement and matching pigments etc., complete.								
			1	5.90		3.90	23.01	Sqm		
							23.01	Sqm	647.0	14887.47

18	Providing and placing on terrace at all floor polyethylene water storage tank ISI : 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for							
				500.00	Ltr	8.00	4000.00	
							<b>Total</b>	425354
27	Add 6% for External & Internal Electric connection charges	Rs	425354	x6%=		(+)		25,521.2
28	Add 6% for Water supply & Sanitary charges.	Rs	425354	x6%=		(+)		25,521.2
							<b>GRAND TOTAL</b>	476,396
							<b>SAY</b>	<b>4.76</b>
	(Note : - Rates are taken from Urban Administration and Development Department(M.P.)ISSR							
	Integrated standard schedules of rates inforce from 02th August 2021)							





