

**DETAIL ESTIMATE FOR CONSTRUCTION OF GHAT**

**S. No. 164 S, GRAM PANCHAYAT BORDIYA, JANPAD PANCHAYAT  
KHACHROD, TAH. KHACHROD, DIST. & DIVI. UJJAIN (M.P.)**

I/No.	SOR. No.	Particular of items	No.	L	B	H	Quantity	Unit	Rate	Amount
				( in meter )					per unit	Rs.
1	2	3	4	5	6	7	8	9	10	11
1	2.6	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means								
	2.6.1	All kinds of soil. Ghat Portion	1	13.80	13.40	0.30	55.48	Cum		
			1	15.00	1.00	1.50	22.50	"		
		End toe wall	1	15.00	0.90	1.50	20.25	"		
		End wall	2	13.10	0.90	1.40	33.01	"		
							131.24	Cum	151.00	19816.94
2	2.15.1	In or under water and/or liquid mud, including pumping out water as required.(All water that may accumulate in excavations during the progress of the work from seepage, (not due to the negligence of the contractor), shall be bailed, pumped out or otherwise removed. The contractor shall take adequate measures for bailing and/or pumping out water from excavations and/or pumping out water from excavations and construct diversion channels, bunds, sumps, etc)								
		Depth (20% of the rate of the item. The extra percentage in rate is applicable in respect of each item but limited, to quantities of work excuted,in difficult condition.								
		Bottom toe wall	1	15.00	1.00	1.50	22.50	Cum	30.20	679.50
3	15.6	15.6 Providing and laying Filter material								
		sand passing through 4.75 mm	1	13.80	13.40	0.19	34.21	Cum		
					1372.00		34.21	Cum	1372.00	46936.39
4	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								
	2.16	Extra for every additional lift of 1.5 m or part thereof in.								
5	4.1	Providing and laying in position cement					230.00	Cum	89.00	20470.00
	4.1.5	Cement concrete grade M-10 (Nominal Mix) with 40 mm maximum								
	4.1.5	M 10								
		Ghat Portion	1	13.80	13.40	0.20	36.98	Cum		
		Bottom toe wall	1	15.00	1.00	0.20	3.00	"		
		End toe wall	1	15.00	0.90	0.20	2.70	"		
		End wall	2	13.10	0.90	0.20	4.72	"		
							47.40	Cum	4219.0	199980.60

6	19.1	Centering and shuttering including strutting, propping etc. and removal of form for :								
	19.1.1	Foundations, footings, bases of columns, etc. For mass concrete								
		Bottom toe wall	1	15.00	1.30		19.50	Sqm		
			1	14.50	1.30		18.85	"		
		End toe wall	1	15.00	1.30		19.50	"		
			1	14.50	1.30		18.85	"		
		End wall	2	13.10	1.20		31.44	"		
			2	14.60	1.20		35.04	"		
		Side	24	1.20		0.35	10.08	"		
		Side Ghat Portion	32	5.70		0.20	36.48	"		
		Side	32	0.40		0.20	2.56	"		
		FRONT Side	12	1.20		0.60	8.64	"		
							200.94	Sqm	160.00	32150.40
7	5.1	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 :								
		5.1.1 Cement concrete grade M-20 (Nominal)								
		Ghat Portion	1	13.80	13.40	0.20	36.98	Cum		
		Bottom toe wall	1	15.00	(0.9+0.6)/2	1.30	14.63	"		
		End toe wall	1	15.00	(0.9+0.6)/2	1.30	14.63	"		
		End wall	2	13.80	(0.7+0.2)/2	1.20	14.90	"		
							81.14	cum	5435.0	440985.03
8	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	Thermo-Mechanically Treated bars. 78.5Kg per Cum of RCC	1	100.0	0.500	81.1	4056.90	kg.	58.00	235300.20
9	13.8 Road	Providing weep holes in Brick masonry/Plain/Reinforced concrete abutment, wing wall/return wall with 100 mm dia AC pipe, extending through the full width of the structure with slope of 1V :20H towards drawing face. Complete as per drawing and Technical specifications and as per clause 2706 of specifications.								
			35	0.80		3.20	89.60	M	173.00	15500.80

10	11.28	40 mm thick machine rubbed stone flooring over 20 mm (average) thick base of cement mortar 1:5 (1 cement :5 coarse sand) with joints 3mm thick, side buttered with cement mortar 1:2 (1 cement : 2 sand) admixed with pigment to match the shade of stone and pointing with same mortar.								
		11.28.1 Red sand stone								
		TRADE Ghat Portion	32	5.70		0.40	72.96	Sqm		
		RISE Ghat Portion	32	5.70		0.20	36.48	"		
			3	3.00		15.00	135.00	"		
		LANDING	12	1.20		1.20	17.28	"		
		Side	12	1.20		0.60	8.64	"		
		Side	24	1.20		0.35	10.08	"		
							280.44	Sqm	660.00	185090.40
11	11.29	11.29 Extra for pre finished nosing in treads of steps of Kota stone/ sand stone slab.								
			64	6.00			384.00	M		
		LANDING	44	1.20			52.80	M		
							436.80	M	39.00	17035.20
12	7.25	Providing and fixing stainless steel cramps of required size and shape for anchoring stone wall lining to the backing or securing adjacent stones in stone wall lining in cement mortar 1:2 (1 cement : 2 coarse sand) including making the necessary chases in stone and holes in walls wherever required.								
		0.2kg/sqm	1	1.00	0.200	280.4	56.09	kg.	626.00	35111.09
									TOTAL	1249056.55
									<b>GRAND TOTAL</b>	2,498,113.1
									<b>SAY</b>	<b>Lacs</b>
										<b>24.981</b>
		(Note : - Rates are taken from Urban Administration and Development Department(M.P.)ISSR								
		Integrated standard schedules of rates inforce from 02th August 2021)								