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DETAIL ESTIMATE**Name of Client :- UJJAIN DEVELOPMENT AUTHORITY, UJJAIN (M.P.)****Name of PROJECT :- COMMERCIAL CUM RESIDENTIAL COMPLEX , UJJAIN****Name of WORK :- BOUNDARY WALL CIVIL WORK**

S.No	Chapter No. / Item No.	Description	Nos. N1 x N2		L	B	D/H	Qty	Unit	Rate	Amount
1	2/2.6	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including dressing of sides and ramming of bottom disposal of excavated earth, lead up to 50m and lift up to 1.5m, disposed earth to be levelled and neatly dressed. (No extra lift is payable if work is done by mechanical means) All kinds of soil									
		Below beam -P.C.C.		4	2.00	0.30	0.60	1.44	Cum		
								1.44	Cum	₹ 147.00	₹ 211.68
2	2/2.24	Filling available excavated earth (excluding hard rock/Ordinary 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.									
		Excavation Qty. of item 2.6						1.44	Cum		
		Deduction							Cum		
		Below beam -P.C.C.	-4	1	2.00	0.30	0.10	-0.24	Cum		
		Vertical Ground beam	-4	1	2.00	0.30	0.40	-0.96	Cum		
								0.24	Cum	₹ 95.00	₹ 22.80

3	20.10	Boring, Providing and installing cast in situ single under reamed piles of specified diameter and length below pile cap in M 25 cement concrete, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring, cement concrete and the length of the pile to be embedded in pile cap etc. all complete. (Length of pile for payment shall be measured upto to the bottom of pile cap) :Note: - The minimum grade of concrete to be used for piling shall be M-20 and the minimum cement content shall be 400 kg/m3 in all condition.									
	20.10.2	300 mm dia piles.	1	14			3.5	49	Rmt.		
								49	Rmt.	₹ 644.00	₹ 31,556.00
4	20.11	Extra for providing bulb for item no.20.10									
	20.11.2	300 mm dia piles.	1	14				14	Each		
								14	Each	₹ 657.00	₹ 9,198.00
5	2/2.27	Supplying and filling in plinth under floors including watering ramming consolidating in layers not exceeding 20cm in depth and dressing complete.									
	2.27.1	With hard muram having CBR >12 % at under floors including watering, ramming and compacting (minimum compaction 95% of MDD) in layers not exceeding 20cm in thickness and dressing complete. (Note:- maximum thickness of this layer to be provided shall be 30cm)									
		qty						100.00	Cum		
								100.00	Cum	₹ 393.00	₹ 39,300.00
6	4/4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :									
	4.1.1	With 20mm nominal size graded stone aggregate									
	4.1.1.4	Nominal Mix -1 Cement : 3 sand : 6 graded stone aggregate (M -10)									
		Below beam -P.C.C.		4	2.00	0.30	0.10	0.24	Cum		
								0.24	Cum	₹ 3,890.00	₹ 933.60

7	5.1	Providing and laying in position specified grade of reinforced cement concrete (with 20mm nominal size graded stone aggregate) excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :									
	5.1.1	M-20 Grade Concrete									
		Horizontal Ground beam	1	1	33.30	0.30	0.40	4.00	Cum		
		Vertical Ground beam	4	1	2.00	0.30	0.40	0.96	Cum		
								4.96	Cum	₹ 6,153.00	₹ 30,494.27
8	5.2	Reinforced cement concrete work (with 20 mm nominal size graded stone aggregate) in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, posts and struts etc. above plinth level and upto floor two level excluding cost of centering, shuttering, finishing and reinforcement:									
		RCC in walls, columns, pillars etc									
	5.2.1	M-20 Grade Concrete									
		COLUMNS	14	1	0.30	0.30	2.80	3.528	Cum		
								3.528	Cum	₹ 6,153.00	₹ 21,707.78
9	5.3	Reinforced cement concrete work (with 20 mm nominal size graded stone aggregate) in beams, suspended floors, roofs having slope of any degree landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral staircases above plinth level and upto floor two level excluding the cost of centering, shuttering, finishing and reinforcement in concrete grade.									
	5.3.1	M-20 Grade Concrete									
		Lintel Beam	1	1	33.30	0.30	0.20	2.00	Cum		
								2.00	Cum	₹ 6,541.00	₹ 13,068.92
10	5.9	Centering and shuttering including strutting, propping etc. and removal of form for :									
	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete up to plinth level.									
		Below Vertical beam -P.C.C.	2	4	2.00		0.10	1.60	Sqm		
		Horizontal Ground beam -P.C.C.	2	1	33.30		0.10	6.66	Cum		
								8.26	Sqm	₹ 190.60	₹ 1,574.36

11	5.9.2	Walls (any thickness) including attached pilasters, buttresses, plinth beams and string courses etc.									
	5.9.2.1	Horizontal Ground beam	1	2	33.30		0.40	26.64	Sqm		
		Vertical Ground beam	4	2	2.00		0.40	6.40	Sqm		
								33.04	Sqm	₹ 219.00	₹ 7,235.76
12	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers									
		Beam at top level	1	2	33.30		0.40	26.64	Sqm		
		Beam at bottom level	4	2	2.00		0.40	6.40	Sqm		
								33.04	Sqm	₹ 356.00	₹ 11,762.24
13	5.9.6	Columns, P i l l a r s , Piers, Abutments, Posts and Struts.									
		Columns	14	1	1.20		2.80	47.04	Sqm		
								47.04	Sqm	₹ 471.20	₹ 22,165.25
14	5/5.16	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.									
	5.16.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.									
		80 Kg. Steel Per/Cu. M. Of R.C.C.	80	59	m3						
		Total Steel in kg.						4758.56	Kg	₹ 80.00	₹ 3,80,684.80
15	6/6.1	Brick work with well burnt chimney bricks in bulls pattern trench kiln manufactured by ghol process, crushing strength not less than 40kg /cm2 and water absorption not more than 15% in foundation and plinth i/c curing etc. complete.									
	6.1.2	Cement mortar 1:6 (1 cement : 6 sand)									
		Lump sum Qty.						5.00	Cum		
								5.00	Cum	₹ 5,626.00	₹ 28,130.00
16	6.2	Brick work with well burnt chimney bricks in bulls patent trench kiln manufactured by ghol process ,crushing strength not less than 40kg /cm2 and water absorption not									
	6.2.2	Cement mortar 1:6 (1 cement : 6 sand)									
			1	1	33.3	0.2	2.8	18.648	Cum		
								18.648	Cum	₹ 5,821.00	₹ 1,08,550.01

	7.21.1	Red sand stone - exposed face fine dressed with rough backing	4	1	3.60		2.80	40.32	Sqm		
	7.21.1.3	50 mm thick						40.32	Sqm	₹ 1,276.00	₹ 51,448.32
19	5.18	Providing and fixing in position copper plate as per design for expansion joints.									
		Wall Joint of 100 mm gap						1.00	Kg.		
								1.00	Kg.	₹ 472.00	₹ 472.00
20	5.35	Providing and fixing in position pre moulded compressible filler board made from polymer base in black color approved make conforming to the specifications having minimum density of 95 kg / cum, non- staining, with less than 1 percent waterabsorption and compression recovery of 93 percent minimum including cost of double sided adhesive tape, sealant etc. in expansion joints.									
	5.35.3	50 mm thick									
								0.90	Sqm		
								0.90	Sqm	₹ 1,194.00	₹ 1,074.60
21	10.35	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 25x25 mm made of G.I. wire of dia. 3mm including strengthening with 2mm dia. wire or nuts, bolts and washers as required complete, with posts of specified material and of standard design placed and embedded in cement concrete blocks 45x45x60cm of mix 1:5:10 (1cement :5 sand : 10 graded stone aggregate 40mm nominal size) every 15th post, last but one end post and corner post shall be struted on both sides and end post on one side only and struts embedded in cement concrete blocks 70x45x50cm of the same mix, as per the direction of Engineer-in- Charge. (cost of post painting earth work & C.C. to be paid separately									
			1	1	33.30		0.60	19.98	Sqm		
								19.98	Sqm	₹ 574.00	₹ 11,468.52

22	13/13.54	Finishing walls with Deluxe Mulf surface paint system for interiors and exterior using primer as per manufacturers specifications :									
(i)	13.54.3	Two or more coats applied @1.25 ltr/10 sqm. Over and including one coat of Special primer applied @07.75 ltr/10 sqm.									
		Plaster Qty.	2	1	33.3		3.0	199.8	Sqm		
			2	1	0.3		3.0	1.8	Sqm		
								201.6	Sqm	₹ 81.00	₹ 16,329.60
										TOTAL	₹ 8,50,479
										SAY	₹ 8,50,000
										145 M BOUNDARY WALL (4.5 DIVISION COST)	₹ 38,25,000
TOTAL AMOUNT - THIRTY EIGHT LACS TWENTY FIVE THOUSAND ONLY.											

ESTIMATE BASED ON :-

GOVERNMENT OF MADHYA PRADESH PUBLIC WORKS DEPARTMENT
SCHEDULE OF RATES (SOR) For
BUILDING WORKS (VOLUME-I & VOLUME-II)



AR. NITIN SHRIMALI

SUB ENGINEER

ASSISTENT ENGINEER

EXECUTIVE ENGINEER

SUPERINTENDENT ENGINEER

(ARCHITECT)

(UDA)

(UDA)

(UDA)

(UDA)