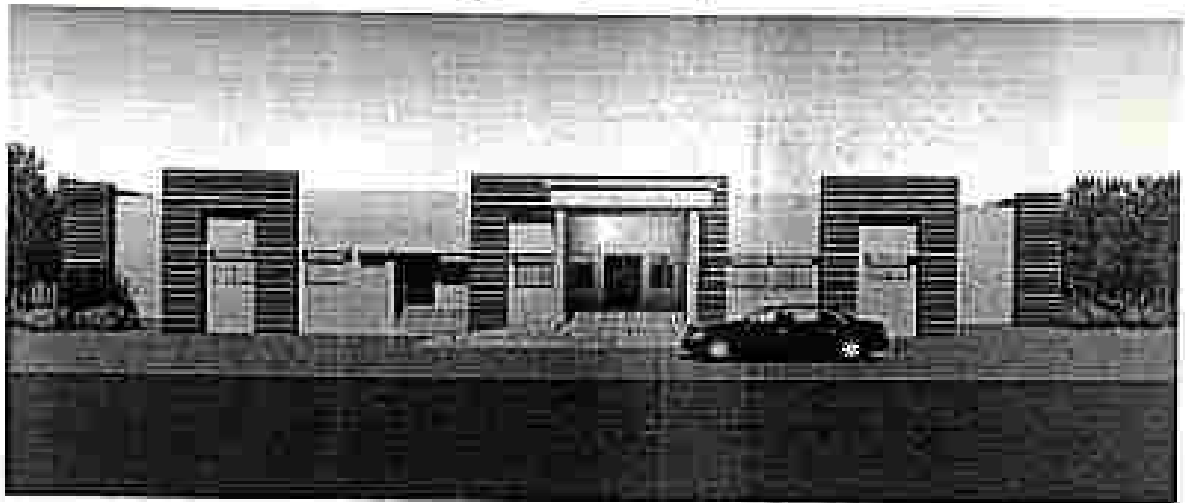


PROPOSAL

For

PRE-MATRIC ST BOYS' HOSTEL

श्री. के. आदित्याजी कालुह हस्तागत के. ए. ए. नगर निगम कार्य-
विभाग, रायपुर जिला - रायपुर



For

DEPTT. OF TRIBAL DEVELOPMENT,
RAIPUR, C. G.

Prepared by

BHARTI & ASSOCIATES

NEAR LEFORTH HOSPITAL,

SANTA COLONY, RAIPUR, C.G.

CELL - 98252 14343

MAIL - ugadhyavibharti@yahoo.com

ಶ್ರೀ.ಕೆ. ಸುಬ್ರಹ್ಮಣ್ಯ ಅರಸೀಕೆ ಗ್ರಾಮೀಣ ಸ್ವಾಸ್ಥ್ಯ ಮತ್ತು ಪರಿವರಣೆ
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<u>SUMMARY OF ESTIMATE</u>			
FOR 50 BED PRE-MATRIC SC/ST HOSTEL			
FOR TRIBAL DEVELOPMENT DEPARTMENT			
1	BUILDING WORKS	Rs.	10657000.00
2	SANITARY & WATER SUPPLY	Rs.	655000.00
3	ELECTRIFICATION (@ 9% OF CIVIL WORK)	Rs.	959000.00
4	SEPTIC TANK	Rs.	61000.00
5	BORE WELL	Rs.	71000.00
6	SUBMERSIBLE PUMP	Rs.	83000.00
7	SUMP WELL	Rs.	84000.00
8	RAIN WATER HARVESTING	Rs.	48000.00
9	PERMANENT RCC BED	Rs.	559000.00
10	CHAUKIDAR QUARTER	Rs.	334000.00
11	BOUNDARY WALL	Rs.	1288000.00
12	DRAIN	Rs.	202000.00
13	ENTRANCE ROAD	Rs.	182000.00
14	SITE DEVELOPMENT (Flower beds, horticulture, etc.) L/S	Rs.	64000.00
	SUB-TOTAL	Rs.	15247000.00
	Add for Contingencies	Rs.	50000.00

GRAND TOTAL		Rs.	15297000.00
SAY		Rs.	152.97 Lakh



Assistant Engineer
Tribal Develop.
Raipur (C.G.)

Executive Engineer
S.T. & S.C. Department
Raipur (C.G.)

T.S. No. 1132622 Date 12/06/2022

Technically Sanction Rs. 152.97000 (A) ninety seven thousand only
 In Rs. one crore fifty two lakh consolidation of 50 center for
detailed estimate for block building at Rajpura
tribe bye water at keshu block building at Rajpura



A. Rodal Officer Tribal Employment
Panchayat & Rural Development
C.G. Raipur

DETAILED ESTIMATE FOR 50 BED PRE-MATRIC SC/ST HOSTEL

FOR TRIBAL DEVELOPMENT DEPARTMENT

AS PER PWD BUILDING SDR, W & F, 01.01.2015

SN	REF	DESCRIPTION	NO	L	W	H/D	QTY	UNIT	RATE	AMOUNT
1	1.1	Excavation for all types and sizes of foundations, trenches and drains or for any other purposes including disposal of excavated stuff upto 1.5 m in depth and level upto 50m (at least 5m away from the excavated area, including dressing and leveling of job.								
	1	All types of cuts.								
		Item excavation	1	400.40	0.40	0.30	59.81			
		F1 C1	58	2.20	2.20	2.50	661.44			
		F2 C2	11	2.50	2.40	2.50	137.28			
		F3 C3	24	1.50	1.50	2.00	195.32			
		F4 C4	2	2.00	2.00	2.00	16.00			
							850.05	sum	195.00	173958.88
2	1.2	Extra for every additional 5% of 1.5 m or part thereof.								
	1	All types of cuts								
		F1 C1	58	2.20	2.20	0.50	140.36			
		F2 C2	11	2.00	2.40	0.50	34.32			
		F3 C3	24	1.50	1.50	0.50	36.88			
		F4 C4	2	2.00	2.00	0.50	4.00			
							217.56	sum	26.00	6768.34
3	1.17	Filling from available excavated stuff (excluding rock) in trenches, pits, sides of foundation etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering with a least upto 50 KL and 10 upto 1.5 m.								
		Plinth filling								
		all right wing rooms	8	7.00	5.00	1.00	210.00			
		corridor	2	1.50	11.50	1.50	42.45			
		back wing rooms	3	5.00	7.00	1.00	105.00			
		back + front wing corridor	2	29.20	1.50	1.50	105.12			
		store	2	3.70	5.00	1.00	37.00			
			2	3.10	5.50	1.00	31.55			
		front wing wing hall rooms	2	3.30	3.50	1.00	23.76			
		dr + kitchen	2	3.95	2.40	1.00	19.84			
		store	1	2.20	1.20	1.00	2.64			
		store	1	1.20	2.40	1.00	2.88			
		store	1	1.30	5.20	1.00	6.90			
		hall	1	3.00	6.30	1.00	18.90			
		verandah	1	3.00	1.40	1.00	4.20			
		entrance porch	1	3.00	4.00	1.00	12.00			
		entrance	1	3.00	3.40	1.00	10.20			
		entrance	1	5.00	8.20	1.00	50.00			
		porch	1	4.50	5.50	0.40	10.98			
		dining hall	1	6.00	7.50	1.00	45.00			
		store + water	2	1.70	2.40	1.00	8.16			
		Kitchen	1	3.50	5.00	1.00	18.00			
		total filling required in plinth					738.66			
		only 20% of total required filling in plinth done with excavated stuff	20%	738.66			147.73	sum	85.00	8895.12
4	1.18	Providing and filling in plinth with sand Gravel (but and back) minimum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering including dressing etc. complete.								

SN	REF	DESCRIPTION	NO	L	W	HD	QTY	UNIT	RATE	AMOUNT
		Support T4, A1 = (1.7 + 1.7 + 2.80) A2 = 0.45 = 11.45 + 0.05 A3 = (1.7 + 0.45)2 + (1.7 + 0.45)2 = 1.35, 0.05(1) + A2 + A3(2) = 1.35	8	1.25		0.3	0.77			
		column upper ground - C1	88	0.30	0.40	1.30	2.57			
			10	11	0.30	0.45	1.05	1.05		
			03	24	0.20	0.30	1.35	0.84		
			04	2	0.30	0.30	1.25	0.24		
						5 *	135.93			
		Column W joint - C1	88	0.30	0.40	1.10	6.10			
			08	11	0.30	0.45	1.10	1.63		
			03	24	0.20	0.30	1.10	1.08		
			04	2	0.30	0.30	0.90	0.28		
		GROUND FLOOR BEAM								
		HORIZONTAL - BR + light wing								
		DB1, room	18	3.10	0.30	0.40	3.87			
		bracket	14	0.60	0.30	0.40	2.07			
		bracket	2	1.60	0.30	0.40	0.26			
		back wing DB2, room	6	0.05	0.30	0.40	2.40			
		DB2, toilet	2	2.30	0.30	0.40	0.53			
			4	2.70	0.30	0.40	1.18			
			2	2.60	0.30	0.40	0.88			
		DB1, toilet	4	3.10	0.30	0.40	0.69			
		back + front corner DB2	4	2.60	0.30	0.30	0.55			
			14	3.00	0.30	0.30	2.82			
		front wing, bed room, DB1	6	3.30	0.30	0.40	2.11			
		DB2, toilet + shower	2	1.20	0.30	0.30	0.32			
		DB1, bed + shower + sink	6	0.30	0.30	0.40	1.44			
		DB2, entrance	2	0.30	0.30	0.40	0.80			
		DB2, porch	1	4.70	0.30	0.40	0.36			
		DB1, dining	4	2.00	0.30	0.40	0.80			
		DB2, store + wash	2	3.00	0.30	0.40	0.88			
		DB1, kitchen	1	3.80	0.30	0.40	0.29			
		bracket	8	1.00	0.30	0.40	0.48			
		VERTICAL - BR + light wing								
		DB2, room	12	6.00	0.30	0.40	4.50			
		DB2, corner	4	2.60	0.30	0.30	2.87			
			4	2.30	0.30	0.30	0.88			
		bracket	8	1.00	0.30	0.40	0.48			
		bracket	2	1.60	0.30	0.40	0.26			
		back wing, light DB2	4	0.30	0.30	0.40	1.80			
		DB2	8	1.80	0.30	0.30	0.72			
		DB2, room	2	3.10	0.30	0.40	0.50			
		DB1	8	3.10	0.30	0.40	1.46			
		front wing, bed room, DB1	3	3.30	0.30	0.40	0.77			
		DB2, sink + kitchen	4	3.60	0.30	0.40	1.15			
		DB2, bed + wardrobe	2	3.30	0.30	0.40	0.51			
		DB1	1	3.30	0.30	0.40	0.36			
		DB1, entrance	2	3.55	0.30	0.40	0.57			
		DB2	2	3.10	0.30	0.40	0.50			
		DB2, room + shower	2	3.55	0.30	0.40	0.57			
		DB1	2	3.10	0.30	0.40	0.80			
		bracket	12	0.60	0.30	0.40	0.56			
		DB2, porch	2	3.80	0.30	0.40	0.82			
						5 *	40.55			
						Amount	182.58			
		RCC ABOVE FLOOR								
		column above joint - C1	88	0.30	0.40	3.00	16.70			
			10	11	0.30	0.45	3.90	5.35		
			03	24	0.20	0.30	0.85	5.18		
			04	2	0.30	0.30	4.20	0.70		
		RCC BEAM								
		HORIZONTAL - BR + light wing								

SN	REF	DESCRIPTION	NO	L	W	NO	QTY	UNIT	RATE	AMOUNT
		B1, rooms	18	3.10	0.30	0.40	2.07			
		bracket	14	0.90	0.30	0.40	0.67			
		bracket	2	1.80	0.30	0.40	0.26			
		back wing B2, rooms	8	5.00	0.30	0.40	4.00			
		B2, toilet	4	3.70	0.30	0.40	1.53			
		B1	4	3.10	0.30	0.40	0.98			
		back + front corridor, B4	4	2.85	0.30	0.30	0.69			
			14	3.00	0.30	0.30	2.82			
		front wing, bed rooms, B1	8	3.30	0.30	0.40	1.58			
		B4, toilet + store	2	1.20	0.30	0.30	0.14			
		B1, toilet + store	4	3.00	0.30	0.40	0.96			
		B2, stair	2	3.00	0.30	0.40	0.64			
		B2, entrance + porch	4	5.00	0.30	0.40	1.80			
		B4, dining	1	5.85	0.30	0.50	0.99			
		B1	4	2.80	0.30	0.40	0.90			
		B1, store + wash + kitchen	3	3.60	0.30	0.40	0.96			
		bracket	8	1.00	0.30	0.40	0.48			
		VERTICAL, left + right wing								
		B2, rooms	18	5.00	0.30	0.40	6.10			
		B4, corridor	4	2.80	0.30	0.30	0.67			
			4	2.35	0.30	0.30	0.56			
		bracket	8	1.00	0.30	0.40	0.48			
		bracket	2	1.80	0.30	0.40	0.26			
		back wing, toilet, B2	4	5.00	0.30	0.30	2.50			
		B2, rooms	2	3.10	0.30	0.40	0.58			
		B1	8	3.10	0.30	0.40	1.49			
		front wing, bed rooms, B1	4	3.30	0.30	0.40	1.82			
		toilet + store, B1	4	3.80	0.30	0.40	1.16			
		B2, stair	2	3.30	0.30	0.40	0.88			
		B1, stair	2	3.30	0.30	0.40	0.91			
		B1, entrance	1	3.85	0.30	0.40	0.28			
			1	3.10	0.30	0.40	0.35			
		B1, mess	1	3.85	0.30	0.40	0.28			
			1	3.30	0.30	0.40	0.27			
		B1, kitchen + store	2	3.85	0.30	0.40	0.57			
		B1	2	3.10	0.30	0.40	0.80			
		bracket	12	0.60	0.30	0.40	0.68			
		B2, porch	2	3.60	0.30	0.40	0.70			
		beam above 100 mm wall	4	3.70	0.10	0.20	0.30			
		beam above 100 mm wall	12	1.80	0.10	0.20	0.36			
		Linear, horizontal left + right wing, rooms	18	3.10	0.30	0.20	1.38			
		bracket	14	0.60	0.30	0.20	0.54			
		bracket	2	1.80	0.30	0.20	0.71			
		back wing, rooms	8	5.00	0.30	0.20	1.30			
		total	4	3.70	0.30	0.20	0.59			
			4	3.10	0.30	0.20	0.60			
		back + front corridor	4	2.85	0.30	0.30	0.68			
			14	3.00	0.30	0.30	2.82			
		front wing, bed rooms	8	3.30	0.30	0.20	1.58			
		toilet + store	3	1.20	0.30	0.20	0.14			
		stair	1	3.00	0.30	0.20	0.12			
		entrance	1	5.00	0.30	0.20	0.20			
		dining	2	5.85	0.30	0.20	0.47			
		store + wash + kitchen	3	3.60	0.30	0.20	0.43			
		bracket	8	1.00	0.30	0.20	0.24			
		vertical, toilet, left + right wing, rooms	12	5.00	0.30	0.20	2.40			
		corridor	4	2.80	0.30	0.30	0.67			
			4	2.35	0.30	0.30	0.58			
		bracket	8	1.00	0.30	0.20	0.24			
		bracket	2	1.80	0.30	0.20	0.12			
		back wing, toilet	2	5.00	0.30	0.20	0.40			

SN	REF	DESCRIPTION	NO	L	W	HD	QTY	UNIT	RATE	AMOUNT
		rooms	8	3.10	0.20	0.20	0.00			
		front wing, bed room, hall	5	3.00	0.20	0.20	0.00			
		kitchen, + store + sto	3	2.20	0.20	0.20	0.00			
		entrance	2	3.00	0.20	0.20	0.00			
			2	3.10	0.20	0.20	0.00			
		kitchen + store	2	3.00	0.20	0.20	0.00			
			2	3.10	0.20	0.20	0.00			
		store wash platform	1	2.40	0.20	0.20	0.10			
		kitchen	12	0.80	0.20	0.20	0.00			
		Chaps. int + right wing, main	4	4.00	0.80	0.10	0.00			
			2	5.00	0.80	0.10	0.00			
		back wing main	2	4.00	0.80	0.10	0.00			
			1	5.00	0.80	0.10	0.00			
		total	2	7.80	0.80	0.10	0.00			
			2	5.20	0.80	0.10	0.00			
		front wing, toilet	1	1.20	0.80	0.10	0.00			
		bed room, toilet, verandah, sto	1	10.00	0.80	0.10	0.00			
		dining + kitchen	1	10.20	0.80	0.10	0.00			
		kitchen, toilet	1	2.00	0.80	0.10	0.10			
		wash	1	2.40	0.80	0.10	0.10			
		entrance	2	20.20	0.80	0.10	0.10			
			2	11.40	0.80	0.10	1.30			
		left, room	10	2.00	0.80	0.10	2.10			
		kitchen platform	1	3.60	0.80	0.10	0.20			
			1	3.20	0.80	0.10	0.10			
		kitchen platform, women	1	3.30	0.80	0.10	0.20			
			1	1.80	0.80	0.10	0.11			
		room kitchen shelf (3 rooms x 2 shelf)	10	2.00	0.80	0.10	2.10			
		store shelf	4	2.40	0.40	0.10	0.40			
			4	1.20	0.40	0.10	0.20			
			4	2.40	0.40	0.10	0.40			
		SLAB								
		rooms	10	7.00	3.40	0.10	31.40			
		dormer toilet	2	3.20	3.00	0.10	6.50			
			2	3.10	3.00	0.10	4.00			
		bed room	3	3.20	3.00	0.10	2.80			
		kitchen	1	3.20	3.00	0.10	1.50			
		store + toilet	1	1.20	7.60	0.10	1.00			
		hall	1	3.80	3.00	0.10	1.30			
			1	3.60	3.00	0.10	1.30			
		back room	1	3.40	3.00	0.10	1.20			
		entrance	1	5.00	3.00	0.10	2.20			
			1	5.00	3.00	0.10	2.10			
		dining	2	2.80	3.00	0.10	2.60			
			2	2.80	3.00	0.10	2.50			
		kitchen	1	3.00	3.00	0.10	1.80			
		store + wash	1	3.80	3.00	0.10	1.60			
		store slabs (0.30 x 0.10 x 10 = 0.30)	24	1.40		0.00	0.60			
		wash slab	1	4.1	1.4	0.10	0.80			
			1	3	1.4	0.10	0.60			
						8 =	180.40			
		RCC WORK ON FF								
		Column - C1	3	0.20	0.40	2.80	0.80			
		C1	3	0.20	0.40	2.80	1.00			
		slab beam B1	3	3.00	0.20	0.40	0.90			
		B1	3	3.00	0.20	0.40	0.40			
		B1	2	3.80	0.20	0.40	0.60			
		B1	2	3.20	0.20	0.40	0.50			
		slab	1	3.70	3.00	0.10	1.30			
			1	3.40	3.00	0.10	1.20			
		chairs	1	1.40	0.80	0.10	0.00			

SN	REF	DESCRIPTION	NO	L	W	HD	QTY	UNIT	RATE	AMOUNT
						C =	8.58			
						A+B+C =	381.50	cum	4183.00	1588177.83
1	3.4	Rate for laying PCORCC of any grade in superstructure above plinth level for every 100m ³ in part thereof in addition to rate for foundation and plinth								
		OF, Qty of total "C" = 22.4	1	102.42			102.42	cum	97.50	18761.01
		OF, Qty of total "C" = 22.4, size 2 bricks	2	8.50			12.98	cum	97.50	1268.93
2	3.12	Forming and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, tying etc. complete as per drawings including cost of binding wire in foundation and plinth all complete								
	1	Thermally-treated mild steel reinforcement bars 12 #10								
		at 115 kg/cum.	1	381.50		112.00	43872.51	kg	54.50	2391040.91
2	3.12	Forming and laying damp proof course (d.p.c. 30mm thick) with cement concrete 1:2.4 (7 percent) 2 courses sand / 4 graded crushed stone aggregate 30mm nominal size including formwork								
		HORIZONTAL - left + right wing								
		rooms	10	3.15	0.20	0.05	0.50			
		bracket	14	0.00	0.20	0.05	0.08			
		bracket	2	1.80	0.20	0.05	0.03			
		back wing, rooms	6	0.00	0.20	0.00	0.30			
		total	4	3.75	0.20	0.05	0.15			
		4	3.15	0.20	0.05	0.12				
		back + front verandah	4	2.85	0.20	0.05	0.11			
		14	3.00	0.20	0.00	0.42				
		front wing, bed rooms	8	3.30	0.20	0.00	0.36			
		total + store	3	1.30	0.20	0.05	0.34			
		hall	3	3.00	0.20	0.05	0.08			
		store	3	3.00	0.20	0.05	0.08			
		entrance	2	0.00	0.20	0.05	0.10			
		stairing	2	0.88	0.20	0.05	0.12			
		store + wash + kitchen	3	3.00	0.20	0.05	0.11			
		bracket	6	1.00	0.20	0.05	0.06			
		VERTICAL - left + right wing								
		rooms	12	0.00	0.20	0.05	0.60			
		corridor	4	2.80	0.20	0.05	0.11			
		4	2.35	0.20	0.05	0.09				
		bracket	6	1.00	0.20	0.00	0.06			
		bracket	2	1.40	0.20	0.00	0.03			
		back wing, toilet	2	0.00	0.20	0.05	0.10			
		rooms	6	3.10	0.20	0.05	0.25			
		front wing, bed room + hall	5	3.20	0.20	0.05	0.18			
		store + toilet	1	3.00	0.20	0.05	0.04			
		kitchen + store	3	2.40	0.20	0.05	0.07			
		hall	1	3.60	0.20	0.05	0.04			
		entrance	2	3.68	0.20	0.00	0.07			
		2	3.70	0.20	0.00	0.06				
		kitchen + store	2	3.00	0.20	0.05	0.07			
		2	3.10	0.20	0.00	0.06				
		bracket	12	0.60	0.20	0.00	0.07			
		common toilet	4	3.90	0.20	0.00	0.18			
		partition walls	12	1.50	0.20	0.00	0.18			
							4.78	cum	4237.00	20248.18

SN	REF	DESCRIPTION	NO	L	W	HD	QTY	UNIT	RATE	AMOUNT
10	1.15	Applying a coat of hot bitumen VG-10 using @ 1.7kg/ sqm on damp proof course after cleaning the surface with broom and finally with a piece of cloth lightly soaked in kerosene oil.								
		mortar	18	5.10	0.20		9.18			
		bricks	14	0.80	0.20		1.68			
		bricks	2	1.50	0.20		0.64			
		back wing, rooms	6	5.00	0.20		6.00			
		door	4	3.70	0.20		2.96			
		door	4	5.10	0.20		2.46			
		back + front window	4	2.80	0.20		2.24			
		door	14	5.00	0.20		8.40			
		front wing, bed rooms	6	5.30	0.20		3.28			
		wall + store	3	1.20	0.20		0.72			
		wall	3	3.00	0.20		1.80			
		door	2	3.00	0.20		1.20			
		entrance	2	5.00	0.20		2.00			
		dining	2	6.80	0.20		2.34			
		store + wash + kitchen	3	3.80	0.20		2.18			
		bricks	8	1.00	0.20		1.28			
		mortar	12	6.20	0.20		10.00			
		cement	4	2.40	0.20		2.24			
		door	4	2.20	0.20		1.88			
		bricks	8	1.00	0.20		1.20			
		bricks	2	1.60	0.20		0.64			
		back wing, toilet	2	6.00	0.20		2.00			
		rooms	6	5.10	0.20		4.98			
		back wing, bed room + hall	6	5.20	0.20		3.32			
		etc + toilet	1	3.80	0.20		0.72			
		kitchen + store	3	2.40	0.20		1.44			
		wall	1	3.80	0.20		0.72			
		entrance	2	2.50	0.20		1.42			
		door	2	3.10	0.20		1.28			
		kitchen + store	2	3.30	0.20		1.42			
		door	3	3.10	0.20		1.38			
		bricks	12	6.60	0.20		1.44			
		common toilet	4	1.90	0.20		0.90			
		partition walls	12	1.50	0.20		0.00			
							80.62	sum	93.50	8384.87
11	2.1	Providing and fixing form work including casting, shuttering, strutting, sloping, propping, bracing etc. complete and including its removal at all levels for:								
	1	Foundations, footings, bases of columns, plinth beam, curtain wall in any shape and size and all type of wall below plinth level.								
		Column footing - F1 C1	88	7.80		0.20	68.16			
		F2 C1	11	8.60		0.20	19.36			
		F3 C1	24	6.00		0.20	28.80			
		F4 C4	3	8.80		0.20	2.72			
		column upto plinth - C1	58	1.20		2.30	180.08			
		C1	11	1.50		2.15	38.48			
		C1	24	1.00		2.45	58.80			
		C4	2	1.20		1.85	4.44			
		GRI, rooms	10	5.10	1.00		49.80			
		bricks	14	0.60	1.00		8.40			
		bricks	2	1.60	1.00		3.20			
		back wing GRI, rooms	6	5.30	1.00		32.00			
		GRI, wall	2	3.30	1.00		6.60			
		door	4	3.70	1.00		14.80			

SN	REF	DESCRIPTION	NO	L	W	H	QTY	UNIT	RATE	AMOUNT
			2	3.50	1.00		7.00			
		GR1, stair	4	3.10	1.00		12.40			
		back + front corridor, GR1	4	2.95	0.80		9.12			
			14	2.30	0.80		33.80			
		front wing, bed rooms, GR1	8	3.30	1.00		26.40			
		GR1, toilet + sink	3	1.30	0.80		2.88			
		GR1, hall + stair + sink	6	3.00	1.00		18.00			
		GR1, entrance	2	3.00	1.00		10.00			
		GR2, porch	1	4.70	1.00		4.70			
		GR1, dining	2	3.80	1.00		8.60			
		GR2, store + wash	2	3.00	1.00		7.00			
		GR1, kitchen	1	3.00	1.00		3.00			
		bedroom	6	1.80	1.00		6.00			
		GR2, rooms	12	6.00	1.00		90.00			
		GR3, corridor	4	2.80	0.80		8.96			
			4	2.30	0.80		7.52			
		bedroom	6	1.80	1.00		6.00			
		bedroom	2	1.60	1.00		3.20			
		back wing, toilet, GR1	4	5.00	1.10		22.00			
		GR2	8	1.80	0.80		8.80			
		GR2, rooms	2	3.10	1.00		6.20			
		GR1	8	3.10	1.00		18.80			
		front wing, bed rooms, GR1	3	3.30	1.00		9.90			
		GR2, sink + shower	4	2.80	1.00		14.40			
		GR2, hall + entrance	2	3.20	1.00		6.40			
		GR1	1	3.20	1.00		3.20			
		GR1, entrance	2	3.50	1.00		7.10			
		GR2	2	3.10	1.00		6.20			
		GR2, kitchen + sink	2	3.50	1.00		7.10			
		GR1	2	3.10	1.00		6.20			
		bedroom	12	0.80	1.00		7.20			
		GR2, porch	2	3.90	1.00		7.80			
							874.22	sqm	139.00	121516.88
5		Cellarage, Pallets, Hops and other rectangular or square in shape								
		Cellarage along plinth - C1	58	1.30		3.60	350.56			
		C1	11	1.50		3.80	59.40			
		C1	24	1.00		3.60	86.40			
		C4	2	1.30		4.20	10.98			
		staircase tower - C1	3	1.30		2.80	9.36			
		C2	3	1.50		2.80	11.70			
							427.50	sqm	267.00	120947.88
7		Suspended floor, roof, access platform, balconies (plan surfaces) and shelves (all in this)								
		rooms	18	7.00	3.40		426.40			
		common toilet	2	3.70	5.00		37.00			
			2	3.10	5.00		31.00			
		bed rooms	2	3.30	3.00		23.76			
		bedroom	1	3.30	3.00		12.54			
		store + toilet	1	1.30	7.60		9.12			
		hall	1	3.80	3.00		11.40			
			1	3.60	3.00		10.80			
		entrance	1	3.40	3.00		10.20			
		entrance	1	5.00	3.80		19.00			
			1	5.00	3.60		18.00			
		dining	2	2.80	3.20		22.04			
			2	2.90	3.00		20.80			
		kitchen	1	3.60	3.00		12.96			
		store + wash	1	3.80	3.00		12.68			
		staircase tower (all)	1	3.70	3.00		0.00			
			1	3.40	3.00		0.00			

SR	REP	DESCRIPTION	NO	L	W	HD	QTY	UNIT	RATE	AMOUNT
		LAR, room	18	2.00	0.80		21.60			
		Alcohol platform	1	2.82	0.60		2.16			
			1	3.20	0.60		1.92			
		Alcohol platform, western	1	3.30	0.60		1.98			
		room alcohol shelf (2 rooms + 2 shelf)	18	2.00	1.00		21.60			
			1	1.80	0.80		1.44			
		store shelf	4	2.40	1.60		6.72			
			4	1.25	0.80		3.20			
			4	2.40	0.80		5.76			
8		Beams, brack, connectors & wds					748.84	W/M	235.00	174228.48
		B1, room	18	3.10	1.00		45.82			
		bracket	14	0.60	1.00		8.40			
		bracket	2	1.80	1.00		3.20			
		back wing B2, rooms	6	5.00	1.10		40.80			
		B2, toilet	4	3.70	1.10		19.28			
		B1	4	3.10	1.90		12.40			
		back + front corridor B4	4	2.85	0.80		6.12			
			14	3.00	0.80		33.60			
		front wing, bed rooms, B1	8	3.30	1.80		19.80			
		B4, toilet + store	2	1.20	0.80		1.92			
		B1, hall + exit	4	3.00	1.00		12.00			
		B2, stair	2	3.00	1.10		6.80			
		B2, entrance + porch	4	5.00	1.10		22.00			
		B2, dining	1	5.85	1.25		7.32			
		B1	2	2.80	1.00		5.60			
			2	2.85	1.00		5.70			
		B1, store + wash + kitchen	3	3.50	1.00		10.50			
		bracket	6	1.00	1.00		6.00			
		VERTICAL, - left + right wing								
		B2, rooms	18	5.00	1.10		99.00			
		B4, corridor	4	2.60	0.80		8.96			
			4	2.35	0.80		7.52			
		bracket	8	1.00	1.00		8.00			
		bracket	2	1.80	1.00		3.20			
		back wing toilet, B1	4	5.00	1.20		24.00			
		B2, rooms	2	3.10	1.10		6.82			
		B1	6	3.10	1.00		18.60			
		front wing, bed room, B1	4	3.30	1.00		13.20			
		kitchen + store, B1	4	3.80	1.00		14.40			
		B2, stair	2	3.30	1.10		7.54			
		B1, exit	2	3.20	1.00		6.40			
		B1, entrance	1	3.55	1.00		3.55			
			1	3.10	1.00		3.10			
		B1, main	1	3.55	1.00		3.55			
			1	3.35	1.00		3.35			
		B1, kitchen + store	2	3.55	1.00		7.10			
		B1	2	3.10	1.00		6.20			
		bracket	12	0.60	1.00		7.20			
		B2, porch	2	3.80	1.10		8.58			
		beam above 100 mm wall	4	3.70	0.50		7.40			
		beam above 100 mm wall	12	1.50	0.50		9.00			
		horizontal, steel, left + right wing, stairs	18	3.10	0.60		29.76			
		bracket	14	0.60	0.60		5.04			
		bracket	2	1.80	0.60		1.80			
		back wing, rooms	6	5.00	0.80		18.00			
		toilet	4	3.70	0.80		6.88			
			4	3.10	0.80		7.44			
		back + front corridor	4	2.85	0.80		6.12			
			14	3.00	0.80		33.60			
		front wing, bed rooms	6	3.10	0.60		11.84			

SN	REF	DESCRIPTION	NO	L	W	HD	QTY	UNIT	RATE	AMOUNT
		tile + stone	3	1.20	0.60		2.16			
		tile	1	3.00	0.60		1.80			
		tile + stone	1	3.00	0.60		3.00			
		tile	2	3.30	0.60		7.02			
		stone + wash + plaster	3	3.80	0.60		6.48			
		brick	6	1.00	0.60		3.60			
		retail, brick left + right wing, room	12	3.00	0.60		36.00			
		corner	4	2.80	0.80		8.96			
			4	2.35	0.80		7.32			
		brick	6	1.00	0.60		3.60			
		brick	2	1.60	0.60		1.92			
		back wing, tile	2	3.00	0.60		3.60			
		stone	6	3.10	0.60		14.76			
		back wing, bed room, wall	5	3.30	0.60		9.90			
		stone + stone + tile	3	2.20	0.60		3.96			
		tile	2	3.55	0.60		4.26			
			2	3.10	0.60		3.72			
		stone + stone	2	3.85	0.60		4.62			
			2	3.10	0.60		3.72			
		stone + stone	1	3.40	0.60		1.44			
		brick	12	0.60	0.60		4.32			
							821.13	sqm	207.00	168883.29
11		Weather sheet, chaga, Cornice and moldings								
		Chaga, left + right wing, room	4	4.00	0.60		9.60			
			2	5.00	0.60		6.00			
		back wing room	2	4.00	0.60		4.80			
			1	5.00	0.60		3.00			
		tile	2	7.80	0.60		8.36			
			2	3.20	0.60		6.24			
		back wing, tile	1	1.20	0.60		0.72			
		bed room, tile, window, side	1	15.00	0.60		9.00			
		stone + plaster	1	10.30	0.60		6.18			
		stone, Vitr	1	2.00	0.60		1.20			
		wall	1	2.60	0.60		1.56			
		corner	2	26.20	0.60		31.44			
			2	11.40	0.60		13.68			
							102.72	sqm	254.00	26188.80
15		Steel cases of all types including spiral and folded plate type, including rivets and fastenings								
		slabs, 2 sides + 24 mm x 2 + 48, (margin 0.30 + 0.10 x 102 = 0.02)	48			0.02	0.96			
		weld slab	1	4.1	1.8		6.56			
			1	3	1.6		4.80			
							12.32	sqm	220.00	2711.60
12	7.5	Brick work with modular fly-ash lime bricks (FALD Bricks) conforming to IS:12894-2000 of class designation 4.3 in foundation and plinth in								
	4	Cement Mortar 1:3 (1 cement: 3 coarse sand)								
		Brick in plinth								
		brick work under ground beam	1	498.40	0.20	0.20	19.94			
		brick work up to plinth								
		HORIZONTAL - left + right wing								
		CR1, room	16	3.10	0.20	0.60	9.96			
		brick	14	0.60	0.20	0.60	1.68			
		brick	2	1.00	0.20	0.60	0.36			
		back wing CR1, room	6	3.00	0.20	0.60	3.60			
		CR2, side	2	3.30	0.20	0.60	0.78			
			4	3.72	0.20	0.60	1.78			

SR	REF	DESCRIPTION	NO	L	W	HD	QTY	UNIT	RATE	AMOUNT
			2	3.50	0.20	0.00	0.94			
		GB1, toilet	4	3.10	0.20	0.00	1.49			
		back + front corridor, GB1	4	2.85	0.20	0.70	1.00			
			14	3.00	0.20	0.70	5.00			
		front wing, bed rooms, GB1	8	3.30	0.20	0.00	3.17			
		GB1, toilet + store	3	1.20	0.20	4.70	0.30			
		GB1, hall + stair + asc	6	2.00	0.20	0.00	2.16			
		GB2, entrance	2	5.20	0.20	0.00	1.20			
		GB2, porch	1	4.70	0.20	0.00	0.30			
		GB4, driving	2	5.80	0.20	0.00	1.17			
		GB2, store + wash	2	3.80	0.20	0.00	0.85			
		GB1, kitchen	1	2.40	0.20	0.00	0.40			
		staircase	6	1.00	0.20	0.00	0.72			
		VERTICAL - left + right wing								
		GB2, rooms	12	5.00	0.20	0.00	7.20			
		GB2, corridor	4	2.80	0.20	0.00	1.34			
			4	2.30	0.20	0.00	1.13			
		locker	6	1.00	0.20	0.00	0.72			
		locker	2	1.00	0.20	0.00	0.30			
		back wing, toilet, GB1	4	5.00	0.20	0.00	2.20			
		GB1	8	1.50	0.20	0.70	1.88			
		GB2, rooms	2	3.10	0.20	0.00	0.74			
		GB1	8	2.10	0.20	0.00	2.23			
		front wing, bed room, GB1	3	3.20	0.20	0.00	1.15			
		GB2, store + kitchen	4	3.80	0.20	0.00	1.73			
		GB2, hall + verandah	2	3.20	0.20	0.00	0.77			
		GB1	1	3.20	0.20	0.00	0.38			
		GB1, entrance	2	3.35	0.20	0.00	0.85			
		GB2	2	3.10	0.20	0.00	0.74			
		GB2, kitchen + store	2	3.30	0.20	0.00	0.85			
		GB1	2	3.10	0.20	0.00	0.74			
		locker	10	0.80	0.20	0.00	0.80			
		GB2, porch	2	3.30	0.20	0.00	0.94			
						A =	80.89			
		front above plots								
		HORIZONTAL - left + right wing								
		B1, rooms	16	3.10	0.20	0.20	31.74			
		locker	14	0.80	0.20	0.20	8.30			
		locker	2	1.80	0.20	0.20	2.06			
		back wing, B2, rooms	6	5.00	0.20	0.10	18.00			
		B2, toilet	2	3.70	0.20	0.10	4.66			
		B1	4	3.10	0.20	0.20	7.94			
		front above toilet, back + front corridor, B4	4	2.85	0.20	1.20	2.74			
		front above toilet, back + front corridor, B4	14	3.00	0.20	1.20	10.08			
		front wing, bed rooms, B1	8	3.30	0.20	0.20	16.90			
		B4, toilet + store	3	1.20	0.00	0.30	2.38			
		B1, hall + asc	4	3.00	0.20	0.20	7.68			
		B2, entrance	1	5.00	0.20	0.10	3.15			
		B1, driving	2	5.80	0.20	0.10	7.20			
		B1, store + wash + kitchen	3	3.80	0.20	0.20	6.91			
		locker	6	1.00	0.20	0.20	3.84			
		VERTICAL - left + right wing								
		B2, rooms	12	5.00	0.20	0.10	37.60			
		front above toilet, B4, corridor	4	2.80	0.20	1.20	2.69			
		front above toilet, B4, corridor	4	2.35	0.20	1.20	2.38			
		locker	6	1.00	0.20	0.20	3.84			
		locker	2	1.80	0.20	0.20	2.06			
		back wing, toilet, B3	2	5.00	0.20	0.10	6.20			
		rooms	8	3.10	0.20	0.10	15.62			
		front wing, bed room + toilet + hall	3	3.20	0.20	0.20	10.34			
		store + hall	2	3.80	0.20	0.20	4.01			

SN	REF	DESCRIPTION	NO	L	W	HD	QTY	UNIT	RATE	AMOUNT
		Kitchen + store	1	3.80	0.20	3.20	0.31			
		SI, wallwork	2	3.55	0.20	3.20	4.54			
			2	3.10	0.20	3.20	3.97			
		store + wash	2	3.55	0.20	3.20	4.54			
			1	2.40	0.20	3.20	1.54			
		Kitchen, SI	2	3.10	0.20	3.20	3.97			
		bracket	12	0.80	0.20	3.20	4.81			
		Deduction				B =	248.87			
		D1	1	2.00	0.20	3.00	-1.20			
		D2	2	1.20	0.20	2.10	-1.01			
		D4	12	1.80	0.20	2.10	-6.04			
		W1	5	0.80	0.20	2.10	-1.89			
		W2	7	1.30	0.20	1.30	-3.73			
		W3	22	1.80	0.20	1.30	-6.73			
		V	4	1.80	0.20	0.80	-1.58			
			70	0.80	0.20	0.80	-2.18			
		Brick on FF				C =	-25.83			
		changel	1	234.80	0.20	0.90	43.13			
		dist beam B2	2	3.00	0.20	2.15	2.58			
		B1	2	3.80	0.20	2.30	2.84			
		B4	2	3.40	0.20	2.15	3.13			
		B1	2	3.20	0.20	2.20	2.82			
		dist beam	1	1.80	0.20	2.10	-0.43			
						D =	52.83			
						A+B+C+D =	358.87	cum	3283.00	1173616.88
12	7.8	Rate for brick work in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth. Brick on GF, Qty B+C as in 7.3.4 Brick on FF, Qty D as in 7.3.4, Rate 2.58/m ²	1	228.15			228.15	cum	121.00	27543.87
			2	52.83			105.66	cum	121.00	12785.34
14	7.11	Half brick, thick brick masonry with fly-ash brick bricks (FAU bricks) conforming to IS-12944-2000 of class designation 4.0 in superstructure above plinth level upto plinth level.								
	2	Cement Mortar 1:4 (1 cement : 4 coarse sand)	8	3.90	2.10		32.76			
			12	1.30	2.70		37.80			
		wooden	2	1.20	3.00		6.54			
		support support in room (8 x 2 = 24 nos)	54	0.80	2.10		68.04			
		above wall support	2	0.80	2.10		3.52			
		within platform support	7	0.80	0.80		2.82			
		Onload area	7	0.75	2.10		-11.55			
							141.28	sqm	142.00	83989.47
15	7.12	Rate for half brick work in superstructure above plinth level for every story or part thereof in addition to rate for upto plinth level.					141.28	sqm	11.00	6823.21
16	7.25	Rate for pointing and plaster in position having 25x1.60 nos or 2 Nos bricks the MS bars reinforcement at every third course of half brick masonry.					141.28	sqm	62.50	8828.44

SN	REF	DESCRIPTION	NO	L	W	NO	QTY	UNIT	RATE	AMOUNT
17	E.148	Providing and fixing factory made UPVC door frame made of UPVC profile section having an overall dimension as below (dimension 1 being with wall thickness 2.0mm & 0.2mm, corners of the door frame to be joined with galvanneal brackets and stainless steel screws, joints joined and plastic welded. The large side vertical of the frames reinforced by galvanneal M.S. tube of size 15 X 10mm and 1mm x 0.1mm wall thickness and 3 nos. stainless steel finger, fixed to the frame complete as per manufacturers specification and direction of Engineer-in-charge.								
	2	Exposed section Profile size 42x52 mm.								
		For labor costs	1	4.35			39.50	metre	156.00	7791.60
18	E.154	Providing and fixing 20mm thick fireproof reinforced plastic (F.R.P.) flush door shutter in different sizes and wood finish made with fire resistant grade unsaturated polyester resin, moulded in 2mm thick FRP laminates of standard, with suitable wooden blocks inside at required places for fixing of hinges and polyurethane foam (PUF) / Polypropylene foam to be used as filler material throughout the hollow panel, covered monolithically with facing panels of F.R.P. laminates conforming to table - 2 of IS-14852 / 2000, complete.	8	0.72	2.10		12.00	sqm	2505.00	30060.00
19	E.16	Providing and fixing M.S. frames of doors, windows, ventilators and cupboards joints welded and welded with 1543 mm legs 10mm long embedded in concrete concrete blocks (cast-in-place of grade M-10, or with wooden plugs and screws or with steel lugs or steel plugs and screws or with fixing clips or with bolts and nuts as required including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.								
	2	Angle iron frames								
		Wt of 1543 channel steel @ 2.8 kg / m								
		D1	1	8.00		3.80	30.40			
		D2	2	5.40		3.80	41.34			
		D3	12	5.25		3.60	237.12			
		D4	5	2.10		3.80	96.90			
							405.46	KG	73.50	29801.34
20	E.12	Providing and fixing flush door shutters, conforming to IS : 1222 (Part-I), decorative type core of block board construction with frame of first class hard wood and well matched teak ply veneering with vertical grain or cross bands and face veneers on both faces of shutters excluding hinges.								
	1	45 mm, thick (single leaf)								
		D1	1	1.80		3.00	5.40			
		D2	2	1.20		2.10	5.04			
		D3	12	1.50		2.10	25.20			
		D4	5	0.90		2.10	9.45			
							45.09	sqm	2487.00	111227.03
21	E.15	Extra for double leaf shutter instead of single leaf								
		D1	1	1.80		3.00	5.40			
		D2	2	1.20		2.10	5.04			
							10.44	sqm	52.00	542.88

NO	REF	DESCRIPTION	NO	L	W	H	QTY	UNIT	RATE	AMOUNT
29	8.47	Providing and fixing aluminum work for doors, windows, ventilators and partitions made out of anodized aluminum extrusions sections (main section with minimum 1.5mm thickness) conforming to IS: 723, IS: 1205 wired and jointed mechanically including aluminum cleats, response weatherstripping gasket beveled edge leading screws duly fixed in wall floor with fixing slots in wall fasteners or bolts and nuts as required. Aluminum sections shall be anodized (minimum or dual is approved) shade according to IS: 1885, minimum anodic coating shall be of grade AC-15. Glazing to be paid for separately.								
	1	For fixed portion								
		Unit of work @ 3.2 sqm								
		WT								
		WT	7	1.50	1.30	3.00	40.00			
		WT	22	1.00	1.30	3.00	85.00			
		WT	4	1.50	0.00	3.00	10.20			
		V	20	0.00	0.00	3.00	32.40			
							175.30	Kg	331.00	88040.80
	2	For shutter of doors, windows & ventilators including providing and fixing provision for fixing of fitting wherever required including the use of PVC response gasket required (Fittings shall be paid for separately)								
		Unit of work @ 3.2 sqm, WT								
		WT								
		WT	7	1.50	1.30	3.20	43.68			
		WT	22	1.00	1.30	3.20	81.52			
		WT	4	1.50	0.00	3.20	17.28			
		V	20	0.00	0.00	3.20	34.56			
							187.04	Kg	338.00	63219.82
30	8.48	Rate for plaster coated (minimum 10 mm) aluminum sections instead of anodized.								
		Qty 8.473 + 8.472								
							362.39	Kg	27.00	9784.83
31	8.51	Providing and fixing glazing in aluminum door, window, ventilator shutters and partitions etc. with PVC response gasket etc. complete. (Cost of aluminum strip leading shall be paid in basic rate)								
	2	With float glass panes of 2 mm thickness								
		WT	7	1.50		1.30	13.65			
		WT	22	1.00		1.30	28.60			
		WT	4	1.50		0.00	5.40			
		V	20	0.00		0.00	10.80			
							58.45	sqm	708.00	41382.60
32	12.3	Providing and fixing ceramic glazed wall tiles conforming to IS: 15622 of approved make, colors, shades and size on wall and ceiling over 12 mm thick bed of cement Mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.5kg per sqm including setting in white cement mixed with hatching								
	1	Area up to 25000mm								
		central tile	12	5.20		2.40	148.76			
			4	3.80		2.40	37.44			
			4	3.10		2.40	25.76			
			3	1.80		2.40	6.64			
			4	1.80		2.40	18.36			
			2	0.00		2.40	24.00			
		water tile	1	6.80		2.40	16.32			
			1	7.20		2.40	17.28			

SN	REF	DESCRIPTION	NO	L	W	H	QTY	UNIT	RATE	AMOUNT
		sketch (m2)	1	7.40		0.60	4.44			
		water skid	1	5.70		0.60	3.42			
		skid D4	2	0.30		2.10	3.78			
			14	1.30		2.10	29.38			
							267.36	sqm	567.00	150945.32
22	12.9	Providing and laying ceramic glazed floor tiles conforming to BS 15622 of approved size, make, colour, shade laid on 20 mm thick Cement Mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement mixed with slushing pigment etc. complete								
	12.9.1	Size above 300x300mm								
		Total	72	1.10	1.30		19.80			
			2	3.90	1.80		14.04			
			2	5.10	8.00		21.00			
		water skid	1	2.20	1.20		2.64			
			1	2.40	1.20		2.88			
							70.36	sqm	725.00	61223.68
24	12.78	Providing and laying double charge multi charge (minimum 2.0mm thick layer) vitrified floor tiles with water absorption less than 0.5% and conforming to BS 15622-2017 of top quality of approved make in all colours and shades and size mentioned below (i.e. 10mm, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and slushing pigment etc. complete								
	12.78.1	Size 600x600mm thickness 9 or 10mm								
		left right wing rooms	8	7.00	5.00		210.00			
		back wing rooms	3	7.00	5.00		105.00			
		bed room	2	3.30	3.60		23.76			
		porridge	1	6.10	1.20		7.32			
		skid	1	3.30	2.40		7.92			
		store	1	1.20	3.30		3.96			
		hall	1	3.00	5.00		15.00			
		corridor	1	3.00	1.80		4.80			
		store	1	3.00	3.90		11.40			
		entrance	1	5.00	5.00		25.00			
		store	1	6.00	7.60		45.60			
		skid	1	3.60	5.00		18.00			
		store & wash	2	1.70	2.40		8.16			
							453.92			
		allowing @ 3%	0.20	453.92			90.78			
							492.70	sqm	1082.00	641388.73
26	12.45	18 mm thick Talcu rubbed polished Granite stone slab flooring laid over 20mm (Average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with grey cement slurry including rubbing and polishing etc. complete. (Note of slab should be 0.30 sqm and above)								
	12.45.1	Granite stone grey/polish								
		left right wing corridor	2	1.80	11.30		42.48			
		back right wing corridor	2	28.80	1.80		107.38			
		entrance lobby	1	8.00	8.00		30.00			
							179.78			
		allowing @ 3%	0.20	179.78			35.95			
							215.71	sqm	1795.00	387418.74

SA	REF	DESCRIPTION	NO	L	W	HIG	QTY	UNIT	RATE	AMOUNT
36	12.48	15 mm thick Table rubber polished Granite stone slab in doors and heads of steps starting stairs and pillars laid on 12mm (average) thick base of cement mortar 1:3 (1 cement : 3 coarse sand) and jointed with grey cement slurry including rubbing and polishing etc. complete (single stone is to be used for doors and heads of steps and width of stone for starting and ends shall be equal to the height of starting & ends and length of 1.0 m).								
	12.48.1	Granite stone preparation								
		steps	24	1.40	0.30		10.08			
		landing	1	3.00	1.30		4.80			
							14.88	sqm	1558.00	23080.64
37	12.5	15mm thick Granite work (machine cut, table rubbed & mirror polished) for kitchen platform, vanity counters, window sills and similar locations of required size laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) including joints treated with white cement mixed with matching pigment including rubbing and polishing to edge moulding to give high gloss finish.								
	12.5.1	Granite stone preparation								
		kitchen platform	1	3.60	0.60		2.16			
			1	3.20	0.40		1.28			
		kitchen platform, window	1	3.30	0.60		1.98			
			1	1.80	0.60		1.08			
		washbasin top	2	3.10	0.60		3.72			
							10.24	sqm	2455.00	25178.76
38	12.17	Providing and fixing 15mm thick Granite (machine cut, table rubbed & mirror polished on both sides) for partition curtain in toilet or similar locations of required size in wall with cement mortar 1:4 (1 cement : 4 coarse sand) including cutting chase in wall and joint with wall treated with white cement mixed with matching pigment including rubbing and polishing to edge moulding to give high gloss finish.								
	12.17.1	Granite stone preparation								
		vertical partition	2	0.50		1.20	1.20	sqm	2111.00	2533.20
39	12.18	Extra for providing edge moulding to 15mm thick stone counters, vanities etc. including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer in Charge.								
	12.18.2	Granite work								
		kitchen platform	1	3.60			3.60			
			1	3.20			3.20			
		kitchen platform, window	1	3.30			3.30			
			1	1.80			1.80			
		wash partition	2	3.00			6.00			
		steps	24	1.30			36.00			
		washbasin counter	2	3.10			6.20			
							60.10	metre	172.00	10337.20
40	12.20	Extra for fixing marble/granite stone in floor and steps of width upto 150 mm with epoxy resin based adhesive instead of cement mortar including cleaning etc. complete.								
		kitchen platform	1	3.60			3.60			
			1	3.20			3.20			
		kitchen platform, window	1	3.30			3.30			

SN	REF	DESCRIPTION	NO	L	W	HD	QTY	UNIT	RATE	AMOUNT
			1	1.20			1.20			
							11.50	/metre	257.00	5558.36
41	11.21	Costs for making opening of required size & shape for wash basin/ kitchen sink in kitchen platform, verify dimensions and similar location in masonry/Concrections work including making necessary forms for pillar tops etc. including raising and painting of cut edges etc. complete.								
		Wash Basin	6				6.00			
		sink	3				3.00			
							9.00	each	250.00	2277.09
42	11.1	Providing and making 12mm thick cement plaster of mix								
	3	in Cement Mortar 1:4 (1 cement : 4 fine sand)								
		left-right wing rooms	6	7.00	1.20		210.00			
		left-right wing corridor	2	1.80	11.80		42.48			
		back wing rooms	3	7.00	3.00		105.00			
		Total	12	1.10	1.30		18.60			
			2	3.90	1.80		14.04			
			2	3.10	5.00		31.00			
		front wing, bed room	2	3.30	3.60		23.76			
		message	1	6.10	1.20		7.32			
		kitchen	1	3.30	2.40		7.92			
		store	1	1.20	3.30		3.96			
		toilet	1	1.20	1.20		2.88			
			1	3.40	1.50		2.88			
		hall	1	3.80	6.00		19.00			
		verandah	1	3.20	1.60		4.50			
		bed room	1	3.80	3.40		13.20			
		entrance	1	5.00	6.00		30.00			
		dining	1	6.00	7.60		45.60			
		kitchen	1	2.80	3.00		18.00			
		store & wash	2	1.70	2.40		8.16			
		back-front wing corridor	2	26.80	1.80		101.28			
		water pipe	1	4.1	1.4		5.74			
			1	0	1.4		4.20			
		sharade tower	1	3.00	2.80		11.40			
		Chaps. left + right wing room	4	4.00	0.60		9.60			
			2	6.00	0.60		6.00			
		back wing room	2	4.00	0.80		4.80			
			1	6.00	0.60		3.60			
		toilet	2	7.80	0.60		9.36			
			2	6.20	0.60		6.24			
		front wing, toilet	1	1.20	0.60		0.72			
		bed room, toilet, verandah, rock	1	18.00	0.60		9.00			
		dining + kitchen	1	10.20	0.60		6.12			
		kitchen, WC	1	2.00	0.60		1.20			
		wash	1	2.60	0.60		1.56			
		corridor	2	26.20	0.60		31.44			
			2	11.40	0.60		13.68			
		left room	18	2.00	0.60		21.60			
		store shed	4	2.40	0.60		5.76			
			4	1.20	0.60		3.00			
			4	2.40	0.60		5.76			
							873.00	sqm	87.00	7663.74
43	11.2	Providing and making 12mm thick cement plaster of mix								
	4	in Cement Mortar 1:3 (1 cement : 3 fine sand)								
		left + right wing rooms	8	7.00		3.60	201.60			

SN	REF	DESCRIPTION	NO	L	W	HD	QTY	UNIT	RATE	AMOUNT
			12	3.00		3.60	216.00			
		back wing rooms	8	3.60		3.60	108.00			
			4	7.00		3.60	100.80			
		door	12	1.10		3.00	47.52			
			4	3.10		3.00	44.64			
		entrance walls	12	1.10		2.40	31.68			
		front wing bed + ub + kitchen	8	3.30		3.60	71.28			
		bed	3	3.60		3.00	38.88			
		sh. kitchen, stove	3	7.40		3.00	25.92			
		door	1	2.20		3.60	7.92			
			1	1.20		3.60	4.32			
		store + stool	2	1.20		3.60	8.64			
		bed + store + stool	4	3.00		3.00	43.20			
		bed	1	6.00		3.60	21.60			
		entrance	1	1.60		3.60	5.76			
		door	2	3.30		3.60	23.76			
		entrance	2	4.20		3.60	30.24			
		entrance	1	5.00		3.60	18.00			
		door	2	6.00		3.60	43.20			
			2	7.60		3.60	84.72			
		door	1	3.60		3.60	12.96			
			1	5.00		3.60	18.00			
		store, wash	4	1.70		3.60	24.48			
			3	2.40		3.60	17.28			
		entrance door	2	3.00		3.60	15.60			
			2	7.60		2.40	39.32			
							1275.32	sqm	91.58	116716.88
44	11.3	Finishing and making 10mm thick cement plaster on the rough side of single or half brick wall of roof								
	4	in Cement Mortar 1:6 (1 cement : 6 fine sand)								
		bed + right wing rooms	4	7.00		3.60	100.80			
		corridor	2	15.40		3.60	110.88			
		back wing, toilet partition	4	3.90		2.40	37.44			
		door	12	1.50		2.40	43.20			
		door	2	5.00		3.60	36.00			
		door	2	7.00		3.60	50.40			
		bed + toilet corridor	2	29.80		3.60	214.56			
		front wing, bed	2	3.30		3.60	23.76			
			2	3.60		3.60	25.92			
		sh. kitchen, stove	3	2.40		3.60	25.92			
		door	1	3.30		3.60	7.92			
		door	1	1.20		3.60	4.32			
		entrance	1	8.40		3.60	30.24			
		door	1	3.70		3.60	13.32			
		bed	1	6.00		3.60	21.60			
		entrance	1	3.00		3.60	10.80			
		door	1	1.80		3.60	5.76			
		door	1	3.00		3.60	10.80			
		entrance	2	6.20		3.60	44.64			
			1	5.00		3.60	18.00			
			2	1.60		3.60	11.52			
		entrance	1	3.00		3.60	10.80			
			1	5.00		3.60	18.00			
		store, wash	1	2.40		2.40	5.76			
		entrance door	1	1.50		3.00	4.50			
		door	2	1.20		2.10	-5.04			
		door	12	1.00		2.10	-25.20			
		door	5	0.80		2.10	-9.45			
		door	14	0.75		2.10	-29.35			
		door	7	1.30		1.20	-12.85			

NO	REF	DESCRIPTION	NO	L	W	HQ	QTY	UNIT	RATE	AMOUNT
			22	1.00		1.30	24.00			
			4	1.50		2.90	5.40			
			20	0.90		0.60	12.00			
							158.03	sqm	127.00	81301.81
46	11.2	Providing and making 15mm thick cement plaster in two coats with under layer of 12mm thick plaster 1:3 (1 cement : 3 fine sand) and top layer of 8mm thick with cement plaster 1:3 (1 cement : 3 fine sand) finished rough with sponge.								
		inner face, building	1	185.00		5.50	1022.50			
		external tower	2	8.00		2.60	41.60			
			2	3.40		3.60	17.88			
		external door	1	1.00		2.10	3.15			
		inner face of parapet	1	234.00		0.80	210.60			
							1340.28	sqm	167.00	223826.76
46	12.2	Cement concrete flooring with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm) finished with a floating coat of neat cement.								
	12.2.1	50 mm thick								
		floor area					873.30	sqm	254.00	223802.00
47	14.12	Providing and applying 2mm thick ready mix exterior grade approved white putty (like Sika wall care, Atlas Superfine W/P of HCL), Akem, HCL, Novolux, J.K. wall putty) on walls to make the surface smooth and even.								
		8 mm plaster					873.30			
		12 mm plaster					1275.32			
		10 mm plaster					790.83			
		10 mm plaster					1340.28			
						TOTAL	4248.65	sqm	94.00	401487.00
48	14.12	Applying one coat of cement primer on wall surface applied @ 2.50 ltr/10 sqm complete.					4248.65	sqm	23.00	97719.00
49	14.11	Wall painting with stylo latex emulsion (ready paint of required shade) to give an even shade.								
	14.11.1	On new work (two or more coats)								
		4, 12 & 10 mm plaster					3906.37	sqm	32.50	153068.50
50	14.18	Painting exterior surface with PREMIUM ACRYLIC SMOOTH exterior paint of required shade as per manufacturer's specification to give protective and decorative finish including cleaning/washing of surface etc. complete with								
	14.18.1	On new work (Two or more coats applied @ 1.423kg/10 sqm wall and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)								
		12 mm plaster					1340.28	sqm	74.50	99850.86
51	14.22	Painting on new work (two or more coats) to give an even shade with								
	2	Premium Synthetic enamel paint								
		WT	7	1.50		1.30	11.60			
		WT	22	1.00		1.50	28.60			
		WT	4	1.50		9.00	54.00			
		V	20	0.60		0.60	10.60			
		interpolite gate	1	1.80		3.00	5.40			

[illegible]

DETAILED ESTIMATE FOR 50 BED PRE-MATRIC SC/ST HOSTEL

FOR TRIBAL DEVELOPMENT DEPARTMENT

AS PER PWD BUILDING SOR, W.D.T. 01.01.2015

SANITARY AND WATER SUPPLY

SN	REF	DESCRIPTION	NO	L	W	HD	QTY	UNIT	RATE	AMOUNT
1	18.2	Providing and fixing vitreous china water closet squaring pan (bistur type) including cutting and making good the walls and floors wherever required.								
	18.2.2	White Gloss pattern V.C. pan of size 580x400 mm	6				6.00	each	1440.00	8640.00
2	18.4	Providing and fixing vitreous china water closet (European type V.C. pan) with white 30 marked plastic seat and lid, 10 litrs low level white P.V.C. flushing system (square colour) conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required.								
	18.4.1	White external type	2				2.00	each	2882.00	5764.00
3	18.8	Providing and fixing vitreous china 10 litrs (lit. flush) capacity controlled flush low level cistern with all fittings complete.								
	18.8.1	white	8				8.00	each	1254.00	10032.00
4	18.9	Providing and fixing 30 marked plastic seat with lid for pedestal type V.C. pan complete.								
	18.9.1	vitralux black	2				2.00	each	670.00	1340.00
5	18.12	Providing and fixing white vitreous china urinal basin with waste fitting as per IS : 2086, and other couplings in C.P. brass complete.								
	18.12.1	Flat back hot stall urinal of size 400x200x250mm	8				8.00	each	1776.00	14208.00
6	18.17	Providing and fixing vitreous china wash basin with C.I. brackets, 32 mm C.P. brass waste of standard pattern including painting of brackets, cutting and making good the walls wherever required.								
	18.17.1	White Size 500x400 mm	15				15.00	each	1450.00	21750.00
7	18.21	Providing and fixing stainless steel A 100, 304 (18% nickel) sink with drain board as per IS 13863 with C.I. brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required.								
	18.21.1	1140x510 mm bowl size 900x100x41 mm	2				2.00	each	11767.00	23534.00
8	18.25	Providing and fixing flexible P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.								
	18.25.2	40 mm dia	2				2.00	each	88.50	177.00
9	18.29	Providing and fixing 500x400 mm beveled edge 4mm mirror of superior glass (of approved quality) complete with 5 mm thick hard board, gasket bed to wooden cleats with C.P. brass screws and washers complete.								
			15				15.00	each	599.00	8985.00
10	18.32	Providing and fixing M.E. collector traps of approved design for Sand Cast uncoated iron (spun) pipe embedded in and including cement concrete blocks 10x10x10 cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) including cost of cutting holes and making good the walls etc.								
	18.32.1	For 100 mm dia pipe	30				30.00	each	85.30	2559.00
	18.32.2	For 75 mm dia pipe	30				30.00	each	83.10	2493.00

QA	REF	DESCRIPTION	NO	L	W	HD	QTY	UNIT	RATE	AMOUNT
11	18.54	Providing and fixing sand cast iron S&S band with access joint of required degree as per IS : 1728, flange outer diameter 3 mm thick, hole and ribs								
	18.54.1	100 mm dia								
	18.54.2	75 mm dia	40				40.00	each	418.00	16720.00
			30				30.00	each	316.00	9480.00
12	18.54	Providing and fixing casted joint to sand cast iron centrifugally cast (2000) 300 (400) and flange of diameter								
	18.54.1	100 mm	8				8.00	each	228.00	1824.00
12	18.76	Providing and fixing in wall face in under floor UV stabilized Unplasticized Rigid PVC pipe (single submersed) having 3.2mm wall thickness conforming to IS : 13030 (Highlow) including required couplers, joining with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion etc complete								
	18.76.2	112 mm dia pipe	1	225.00			225.00	metre	267.00	60045.00
14	18.77	Providing and fixing in wall face UV stabilized Unplasticized - PVC moulded flanges/ accessories having 3.2mm wall thickness for rigid PVC pipes conforming to IS : 13030 (Free) joining with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion								
	18.77.1	Teel Tee with flange Band 40" Band 90"								
	18.77.1.2	150 mm	66				66.00	each	154.00	10164.00
	18.77.5	P Pipe 110mmx110mm long	15				15.00	each	227.00	3405.00
	18.77.6	Manhole top 110x75mm	15				15.00	each	80.50	1207.50
	18.77.7	Manhole top 110	15				15.00	each	132.00	1980.00
15	19.7	Providing and fixing in wall surface G.I. pipes medium class complete with G.I. fittings and clamps, including cutting, making good the work etc. and testing of joints complete								
	19.7.1	15 mm dia. nominal bore	1	35.00			35.00	metre	143.00	5005.00
	19.7.2	20 mm dia. nominal bore	1	15.00			15.00	metre	105.00	2775.00
	19.7.3	25 mm dia. nominal bore	1	15.00			15.00	metre	218.00	2870.00
	19.7.4	32 mm dia. nominal bore	1	55.00			55.00	metre	318.00	17490.00
	19.7.5	40 mm dia. nominal bore	1	22.00			22.00	metre	364.00	8008.00
	19.7.6	50 mm dia. nominal bore	1	40.00			40.00	metre	471.00	18840.00
16	19.14	Providing and fixing 15 mm nominal bore C.P. brass fittings of approved make and conforming to IS:8031 including C.P. brass extension if required								
	19.14.1	Ball cock (400 grams)	30				30.00	each	380.00	11400.00
	19.14.2	Long body ball cock (500 grams)	5				5.00	each	420.00	2100.00
	19.14.3	Two-way ball cock (900 grams)	5				5.00	each	708.00	3540.00
	19.14.4	Stop cock (compressed) (600 grams)	5				5.00	each	434.00	2170.00
	19.14.7	Angle valve for basin mixer and geyser joints (x50 grams)	17				17.00	each	182.00	3094.00
	19.14.8	Basin mixer pillar tap with spout (1000 grams)	15				15.00	each	1248.00	18720.00
	19.14.13	Toilet paper holder	5				5.00	each	248.00	1240.00
	19.14.14	Soap dish plate	20				20.00	each	163.00	3260.00
	19.14.16	Shower mix pressure type (1500gms)	5				5.00	each	269.00	1345.00
	19.14.18	Vertical (500mm long x 25mm dia)	20				20.00	each	338.00	6760.00
	19.14.19	Wall mixer (atmospheric type) with outlet arrangement for hand shower (1400gms)	15				15.00	each	1764.00	26460.00
17	19.15	Providing and fixing stainless steel door set of approved make/quality	18				18.00	each	51.00	918.00
18	19.18	Providing and fixing gun metal non return valve horizontal type of approved quality (3000gms)								

SR	NO	DESCRIPTION	BO	L	N	NO	QTY	UNIT	RATE	AMOUNT
	19.18.3	40 mm nominal size								
	19.18.4	20 mm nominal size	5				8.00	each	888.00	4128.00
			4				4.00	each	553.00	2212.00
19	19.21	Providing and packing VI profile C.I. slates under category 'A' (Mass Concrete Bricks Ltd., Indian Yarn Co. (PVC), Farnes Engineers Pvt. Ltd., White with top surface, 100mm diameter)								
	19.21.1	100mm diameter	8				8.00	each	3435.00	27480.00
20	19.42	Providing and placing on surface on all four walls polyethylene water storage tank (DI : 1275) marked with cover and outside locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without storage and the float support for tank	1	5000.00			5000.00	nos	7.00	35000.00
21	19.47	Constructing masonry Chamber 500x500 mm. inside with modular well burnt clay bricks of 30 kg each in cement mortar 1:4 (1 cement : 4 coarse sand) for slope work, with C.I. surface dia 100x100 x75 mm (grade) with flanged cover fixed in cement concrete slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) necessary excavation foundation concrete 1:3:10 (1 cement : 3 fine sand : 10 graded stone aggregate 40mm nominal size) and inside plastering with cement mortar 1:2 (1 cement : 2 coarse sand) 12mm thick finished with a floating coat of red cement concrete as per standard design.	12				12.00	each	754.00	9048.00
22	19.48	Constructing masonry Chamber 600x600 mm. inside with modular well burnt clay bricks of 30 kg each in cement mortar 1:4 (1 cement : 4 coarse sand) for slope work, with C.I. surface dia 100mm, top diameter 100 mm bottom diameter and 100 mm deep (grade) with slotted 30 and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) necessary excavation foundation concrete 1:3:10 (1 cement : 3 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:2 (1 cement : 2 coarse sand) 12 mm thick finished with a floating coat of red cement concrete as per standard design.	14				14.00	each	4544.00	63616.00
23	20.2	Providing and laying cement concrete 1:3:10 (1 cement : 3 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipe including flat concrete 150mm thick as per standard design.								
	20.2.1	100 mm diameter S.W. pipe	1	100.00			100.00	mtr	435.00	43500.00
24	20.3	Providing and filling square-mouth S.W. gully top grade 'A' complete with C.I. galling brick masonry chamber with well burnt modular clay bricks, crushing strength not less than 35kg/cm ² , water tight C.I. cover with frame of 300 x300 mm. size (grade) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.75 kg as per standard design.								
	20.3.1	100x100 mm size P type	18				18.00	each	1208.00	21744.00

SN	REF	DESCRIPTION	NO	L	W	HD	QTY	UNIT	RATE	AMOUNT
25	25.7	Constructing brick masonry wall with red burn modular clay bricks (meeting strength not less than 3Mpa) in cement mortar 1:4 (1 cement : 4 coarse sand). R.C.C. top slab with 12# rebar (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size). foundation in cement concrete 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 20mm nominal size) inside plastering 12mm thick with cement mortar 1:2 (1 cement : 2 coarse sand) finished with floating coat of red cement and masonry chisels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of red cement complete as per standard design.								
	25.7.1	Cover size 90x110 mm and 45 mm deep including C.I. cover with frame (Qty: 14) 45x110 mm internal dimensions total weight of cover and frame to be not less than 25 kg (weight of cover 20 kg and weight of frame 15 kg).	14				14.00	each	5701.00	83812.00
26	26.51	Providing and constructing area of 1.25x1.25x 200 mm thick with bricks including 5.40 steel plate 100 mm diameter and 1.25 m long complete as per standard design.	3				3.00	each	1708.00	5127.00
Total as per BOB									Rs.	856000.50
SAY									Rs.	856000.00


 Assistant Engineer
 Tribal Develop.
 Raigarh (C.G.)

FOR TRIBAL DEVELOPMENT DEPARTMENT
AS PER PWD BILL NO. 1

SEPTIC TANK


Assistant Engineer
Tribal Develop.
Raichur (C.G.)

DETAILED ESTIMATE FOR 50 BED PRE-MATRIC SC/ST HOSTEL										
FOR TRIBAL DEVELOPMENT DEPARTMENT										
AS PER PWD BUILDING SOR, W.A.J. 01.01.2016										
BORE WELL										
SN	BSR	DESCRIPTION	NO	L	W	HD	QTY	UNIT	RATE	AMOUNT
1	21.1	Boring/drilling bore well perfectly vertical for the specified depth suitable to receive required dia for casing/ casing pipe. By suitable method prescribed in IS- 2500 part II including collecting samples from different strata, preparing and submitting strata chart/true log, including hire & running charges of all equipments, tools, plants & machines required for the job, all complete as per direction of Engineer-in-charge upto 50 metre depth below ground level.								
	21.1.1	All types of soil								
	21.1.1.1	150 mm dia.								
	21.1.1.2	Rocky strata including boulders.	1	55.00			55.00	metre	339.00	18619.00
	21.1.1.3	150 mm dia.								
			1	60.00			60.00	metre	396.00	23760.00
2	21.2	Boring/drilling bore well perfectly vertical for the specified depth suitable to receive required dia for casing/ casing pipe. By suitable method prescribed in IS- 2500 part II including collecting samples from different strata, preparing and submitting strata chart/true log, including hire & running charges of all equipments, tools, plants & machines required for the job, all complete as per direction of Engineer-in-charge beyond 50 metre & upto 100 metre depth below ground level.								
	21.2.1	All types of soil								
	21.2.1.1	150 mm dia.	1	35.00			35.00	metre	371.00	12985.00
	21.2.1.2	Rocky strata including boulders.								
	21.2.1.3	150 mm dia.	1	25.00			25.00	metre	424.00	10600.00
3	21.4	Supplying, assembling, lowering and fixing in vertical position in bore well, ungalvanized PVC medium well casing (2040) slotted pipes with dia., conforming to IS- 12858, including hire & labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer-in-charge.								
	21.4.1	150 mm nominal size dia.	1	20.00			20.00	metre	546.00	10920.00
4	21.11	Providing and fixing suitable size threaded mild steel top or spot welded plate to the top of bore well housing/ casing pipe removable as per requirement, all complete for bore well of								
	21.11.1	150 mm dia	1				1.00	each	217.00	217.00
5	21.12	Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tube well as per IS- 5800 (part I), including necessary bolts & nuts of required size complete.								
	21.12.1	150 mm clamp	1				1.00	each	1005.00	1005.00
6	21.17	Carrying out the resistivity survey by VES method using Schlumberger configuration for locating the proper spot for siting of tube well within the selected habitation, including photographs, interpretation of resistivity data and submission of report in the desired format along with resistivity readings, necessary graph and photographs. (only successful point is payable)	1				1.00	point	1552.00	1552.00
Total as per SOR									Rs.	71209.00
BAY									Rs.	71000.00

DETAILED ESTIMATE FOR 50 BED PRE-MATRIC SC/ST HOSTEL

FOR TRIBAL DEVELOPMENT DEPARTMENT

AS PER PWD BUILDING SOR, w.e.f. 01.01.2015

SUBMERSIBLE PUMP

Sl. No.	Ref.	DESCRIPTION	NO.	L	W	HD	QTY	UNIT	RATE	AMOUNT
1	26.3	Supplying, installation, testing and commissioning of submersible pump set for water supply system with submersible motor directly coupled to multi-stage submersible pump of specified discharge capacity least delivery size in existing bore well including 2 sets of submersible cable holding clamps made up of 20 mm x 6 mm MS flat, connection with suitable submersible cable of standard length etc. as required.								
	26.3.A	2.5 HP, three phase	1				1.00	Each	22669.00	22669.00
2	26.4	Supplying and laying of following sizes 2" class G.I pipe with welded steel flange of suitable size at both the end of every pipe length, flange with submersible pump and coupling with the pump in the bore well including necessary rubber gasket, nuts & bolts etc. as required.								
	26.4.A	50 mm dia	1	110.00			110.00	NW09	382.00	42020.00
3	26.11	Supply, installation, testing and commissioning of 1.5 HP 1 phase submersible motor starter cum control with floor mounted type made out of not less than 1.6 mm thick MS steel and comprising of following panel including subcomponents therein including connection (wire connection) etc. as required.								
		a) Phase indicating lamps with fuses and toggle switches 1 set								
		b) 1/2 HP 1 phase DOL starter with over load and rd lock relay 1 no								
		c) 32 A 1/2" curve DPMSB 1 no								
		d) voltmeter 0-250 V 1 set								
		e) Ammeter 0-10 A 1 set	1				1.00	Each	4125.00	4125.00
4	26.12	Supplying and laying M.S. clamp 50 cm long made of 6mm x 10mm thick M.S. flat for holding the pipes and submersible pump set as required.	1				1.00	mtrs	314.00	314.00
5	26.13	Supplying and laying 300 mm dia 2 mm thick M.S. sheet cover with 3 cm edge in two part on bore well bore pipe as required.	1				1.00	each	393.00	393.00
6	26.14	Supplying, laying and laying following size submersible cable along with GPOVCMDPC pipe line of 1/2" in ground etc. as required.								
	26.14.B	2nd 6 sqmm	1	140.00			140.00	Mtrs	95.50	13370.00
Total Amount as per SOR Rs.										43381.36
SAY Rs.										83000.00

Assistant Engineer
Tribal Development Department
Rajahmundry

DETAILED ESTIMATE FOR 50 BED PRE-MATRIC SC/ST HOSTEL

FOR TRIBAL DEVELOPMENT DEPARTMENT

AS PER PWD BUILDING SOR, W.O.F. 01.01.2018

BUMP WALL

BUMP WALL											
SN	REF	DESCRIPTION	NO	L	W	H/D	QTY	UNIT	RATE	AMOUNT	
1	1.1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose, including disposal of excavated stuff upto 1.5 m depth and less upto 50m (or less) away from the excavated area, including dressing and leveling of job.									
	1	In all types of soils.	1	0.40	2.40	2.10	27.22	cum	185.00	5034.88	
2	1.2	Costs for every additional 100 mm of depth.									
	1	All types of soils	1	0.40	2.40	0.60	7.78	cum	30.00	233.40	
3	3.1	Forming and laying nominal size plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.									
	2	1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size)	1	1.40	2.40	0.20	2.50	cum	2855.00	7137.50	
4	3.2	Forming and laying nominal size reinforced cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.									
	1	1:1.75:3 (1 cement : 1.75 coarse sand : 3 graded stone aggregate 20mm nominal size)	1	1.40	2.40	0.10	2.01	cum	4103.00	8247.03	
5	3.12	Forming and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, lashing etc. complete as per drawings including cost of lashing wire in foundation and plinth all complete.									
	1	Thermo-Mechanically Treated Bars FE 415									
		Steel @ 110 Kg	1	110.38	0.18		17.60	kg	54.50	959.20	
6	2.1	Forming and being form work including casting, shoring, strutting, staging, propping, bracing etc. complete and including its removal at all levels, for:									
	2	Dispersed floors, roofs, access platform, subbases, gable surfaces and shelves (cast in situ)	1	1.40	2.40		12.50	sqm	235.00	2937.50	
7	7.3	Block work with modular Re-brick line bricks (FACD Bricks) conforming to IS-12994-2002 of class designation K3 in mortar and plinth in:									
	4	Cement Mortar 1:5 (1 cement : 5 coarse sand)	2	1.40	0.20	2.00	4.00				
			2	2.40	0.20	2.00	1.92				
							TOTAL	5.92	cum	1292.00	32297.13
8	11.3	Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of m/c.									
	11.3.4	In Cement Mortar 1:5 (1 cement : 5 fine sand)	2	1.40		2.00	3.60				
			2	2.40		2.00	3.60				
			2	1.20	2.40		24.00				
							TOTAL	36.16	sqm	10760	4508.16
9	12.7	Providing and being ceramic glazed wall tiles conforming to IS 15622 of approved make, colours, shades and size on wall and ceiling over 12 mm thick bed of cement Mortar 1:5 (1 cement : 5 coarse sand) and jointing with grey cement slurry @ 3.1kg per sqm including painting in white cement mixed with matching pigment complete.									
	12.7.1	Size upto 200x300mm	2	1.40		2.00	21.60				
			2	2.40		2.00	9.60				

DETAILED ESTIMATE FOR 50 BED PRE-MATRIC SC/ST HOSTEL

FOR TRIBAL DEVELOPMENT DEPARTMENT

AS PER PWD BUILDING SOR, W.R.T. 01.01.2015

RAIN WATER HARVESTING

SN	REF	DESCRIPTION	NO	L	W	WD	QTY	UNIT	RATE	AMOUNT
1	1.1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m depth and haul upto 50m or less for laying of job.								
	1	m of types of soils.	1	2.50	2.50	2.50	15.63	cum	185.00	2890.63
2	1.2	Extra rate for quantity of work executed at or under low condition.	1	2.50	2.50	1.00	6.25	cum	44.00	275.00
3	21.3	Gravel packing in tube well construction in accordance with IS: 4067, including providing gravel filter medium course, in required grading & sizes as per actual requirement, at complete as per direction of Engineer-in-charge.								
		GRAVEL	1	2.50	2.50	0.65	4.06			
		Crack bed	1	2.50	2.50	0.50	3.13			
		Coarse sand	1	2.50	2.50	0.30	1.88			
		Fine sand	1	2.50	2.50	0.30	1.88			
							10.94	cum	1048.00	11462.93
2	21.1	Reinforcing tube well perfectly vertical for the specified depth suitable to remain required dia for covering chamber pipe, by suitable method prescribed in IS: 2890 part 1, including collecting samples from different strata, propping and submitting strata charts by log, including fire & running charges of all equipments, tools, plants & machines required for the job, at complete as per direction of Engineer-in-charge beyond 50 metre & upto 150 metre depth below ground level.								
	21.2.1	All types of soil								
	21.2.1.3	100 mm dia. mds 319.00	1	1.00			3.00	meter	571.00	1713.00
4	21.4	Supplying, assembling, lowering and fixing in vertical position in bore well unplasticized PVC medium well screen (PMS) slotted pipes with ribs, conforming to IS: 12718, including fire & labour charges, fittings & accessories etc. at complete, for all depths, as per direction of Engineer-in-charge.								
	21.4.3	100 mm nominal dia dia.	1	1.50			3.50	meter	548.00	1911.00
10	21.18	Providing and fixing filter of minimum 100 mm capacity for roof top rain water harvesting through tube well consisting of two layered HDPE tank with five layers (each layer of minimum 120 mm) consist of coarse sand, 4mm, 8mm, 10mm & 12 mm gravels with stainless steel wire mesh fixed between each layer with suitable length and sufficient number of 110 mm dia PVC pipe pieces in the bottom of tank to support the above layer including fixing of filter and well let P.V.C. pipe of required diameter upto 3 metre length on each side. Cement Concrete slab/trim of required size complete as directed by Engineer in charge. (including cost of subwell and well and outlet pipe beyond 2 metre)	1	200.00			200.00	litre	18.50	3700.00
18	21.19	Providing and fixing 80-100 mm dia PVC ball valve for roof outlet of rain water harvesting pipe and filter.	2				2.00	each	644.00	1288.00

DETAILED ESTIMATE FOR 50 BED PRE-MATRIC SC/ST HOSTEL

FOR TRIBAL DEVELOPMENT DEPARTMENT

As per PWD Building SOR - 01.01.2015, and Road SOR - 01.01.2015

CIVIL WORK FOR PERMANENT BED IN ROOMS

SN	REF	DESCRIPTION	NO	L	W	HD	QTY	UNIT	RATE	AMOUNT
1	7.5	Block work with modular fly-ash lime bricks (FALB bricks) conforming to IS:12894-2002 of class designation 4.0 in foundation and plinth in								
	4	Cement Mortar 1:3 (1 cement : 3 coarse sand)	2	0.95	0.35	0.30	0.11	CUM	3263.00	371.96
2	3.2	Providing and laying nominal size reinforced concrete concrete with crushed stone aggregate using concrete mixed in all works (10% (10% free) excluding cost of form work.								
	1	1:1:2 (1 cement : 1 1/2 coarse sand : 2 graded stone aggregate 20mm nominal size)	1	1.80	0.85	0.10	0.17	CUM	4163.00	711.87
3	3.4	Extra for laying FORMWORK of any grade in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth.	1	0.17			0.17	sqm	87.50	15.67
4	2.12	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire in foundation and plinth at nominal thermomechanically treated bars FE 415 wt. @ 80 kgcum.	1	0.17		80.00	13.88	kg	54.50	748.58
5	2.1	Providing and laying form work including setting, shuttering, strutting, staging, propping, bracing etc. complete and including its removal at all levels for								
	7	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)	1	1.40	0.35		1.33			
			1	4.50	0.10		0.45			
							1.78	sqm	257.00	458.36
6	12.3	Providing and laying ceramic glazed floor tiles conforming to IS : 15522 of approved size, make colour, shade laid on 20 mm thick Cement Mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with white cement mixed with matching pigment etc. complete.								
	12.3.1	Size 300x300mm	1	1.80	2.60		1.80	CUM	692.00	1251.64
7	12.4	15mm thick Granite work (machine cut, table rubbed & finish polished) for wall lining (veneer work) in cement mortar 1:3 (1 cement : 3 coarse sand) including pointing with cement mortar 1:3 (1 white cement : 2 marble dust) mixed with matching pigment. (Area of slab should be over 0.5 sqm).								
	12.4.1	Granite stone grey/pink								
		SIDE LONG	3	1.85		0.15	0.86			
		SIDE LEQ	4	0.35		0.37	0.57			
		END	1	0.87		0.47	0.46			
		INNER BOTTOM	2	0.72		0.37	0.59			
		PATTA	2	1.80		0.10	0.36			
			1	0.87		0.10	0.10			
							2.37	SQM	1954.00	4641.83

SN	REF	DESCRIPTION	NO	L	W	HD	QTY	UNIT	RATE	AMOUNT
1	13.25	Cost for being marble granite stone in beds and slope of width upto 150 mm with epoxy resin based adhesive instead of cement mortar including cleaning etc. complete.	2	1.80			3.60			
			1	0.97			0.97			
							4.57	M	237.00	1114.49
2	13.44	Cost for setting in concrete stone for beds.	4	1.80			7.20			
			2	0.97			1.94			
							9.14	SQM	126.00	1151.64
Cost of one bed									Rs.	10355.18
Total cost of 34 beds										352082.96
SAY									Rs.	558000.00


 Assistant Engineer
 1st Divd
 Rajahm (C.G)

DETAILED ESTIMATE FOR 50 BED PRE-MATRIC SC/ST HOSTEL
FOR TRIBAL DEVELOPMENT DEPARTMENT
AS PER PWD BUILDING 50R, w.e.f. 01.01.2015
CHALKIDAR QUARTER

SN	REF	DESCRIPTION	NO	L	W	H/D	QTY	UNIT	RATE	AMOUNT
1	1.1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m in 10 and less upto 50cm (at least 10 away from the excavated area), including measuring and leveling of pits.								
	1	In all types of soils.								
		column	8	1.20	1.20	1.20	13.82			
			2	0.30	0.25	0.20	0.85			
			4	3.30	0.25	0.20	0.08			
			1	1.80	0.25	0.20	0.08			
							15.83	cum	155.00	2443.74
2	1.17	Filling from available excavated stuff (Excluding material in trenches, pits, sides of foundation etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering with a hand cart 20 M, and 25 upto 1.5 M).								
							15.40	cum	65.00	1001.25
3	1.18	Providing and filling in place with sand Chatter dust and hard medium water floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete.								
		room	1	3.30	2.10	0.05	8.24			
		bed room	1	3.30	3.80	0.05	15.09			
		kitchen	1	2.20	1.80	0.05	3.58			
		toilet	1	0.80	1.80	0.05	1.17			
							21.55	cum	271.00	1025.44
4	1.1	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.								
	3	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 40mm nominal size)								
		column	8	1.20	1.20	0.30	2.30			
			2	0.30	0.25	0.10	0.40			
			4	2.30	0.25	0.10	0.30			
			1	1.80	0.25	0.10	0.06			
		flooring, room	1	3.30	2.10	0.10	6.66			
		bed room	1	3.30	3.80	0.10	1.19			
		kitchen	1	2.20	1.80	0.10	0.40			
		toilet & hand wash	1	0.80	1.80	0.10	0.16			
							9.83	cum	3970.00	18433.81
5	1.2	Providing and laying nominal mix reinforced cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.								
	1	1:1½:2 (1 cement : 1½ coarse sand : 2 graded stone aggregate 20mm nominal size)								
		CT	8	1.00	1.00	0.15	1.20			
		Reinforcement: P1, A1 = (1.1 x 1.1 x 1.21), A2 = 25.35 x 0.30 = 0.12, A3 = (1.1 x 0.30)/2 = (1.1 x 0.30)/2 = 0.165, 1.02(A1 + A2 + A3) = 1.38	8	1.38		0.20	3.31			
		Column in plinth - C1	8	0.25	0.20	1.10	0.35			
		plinth beam	2	4.30	0.20	0.25	0.81			
			4	3.30	0.20	0.25	0.66			

SN	REF	DESCRIPTION	NO	L	W	HD	QTY	UNIT	RATE	AMOUNT
			1	1.80	0.20	0.20	0.79			
		column reinforcement	8	0.20	0.20	0.20	2.96			
		beam beam	2	8.30	0.20	0.30	1.00			
			4	2.70	0.20	0.30	0.79			
			1	1.80	0.20	0.30	0.11			
		slab	3	1.80	0.80	0.12	0.20			
			1	2.70	0.80	0.12	0.20			
		slab beam	4	8.30	0.20	0.30	1.00			
			4	2.30	0.20	0.30	0.79			
			1	1.80	0.20	0.30	0.11			
		slab	1	3.20	2.10	0.12	0.83			
		slab beam	1	3.20	1.80	0.12	1.43			
		column	1	3.20	1.80	0.12	0.48			
		slab	1	6.90	1.80	0.12	0.19			
							14.50	cum	4183.00	60266.82
8	1.4	Cost for laying PCC/CC of any grade in superstructure above plinth level for every foot or part thereof in addition to rate for foundation and plinth.	1	14.50			14.50	cum	87.50	1413.85
7	1.12	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, bending etc. complete as per drawings including cost of binding wire in foundation and plinth all complete.								
		1 Thermally-mechanically treated bars FE 413 wt. @ 80 kg/cum.	1	14.30	80.00		1168.00	kg	54.50	63223.40
8	2.1	Providing and doing form work including cutting, plastering, strutting, shoring, propping, bracing etc. complete and including its removal at all levels, for:								
		1 Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.								
		Column CI	10	1.10		0.20	3.62			
			10	1.10		0.20	3.62			
		plinth beam	2	8.30	0.20		1.70			
			2	8.30	0.25		4.16			
			4	2.30	0.20		2.64			
			4	3.30	0.25		1.30			
			1	1.80	0.20		0.58			
			2	1.80	0.25		0.90			
							21.71	sqm	139.20	3017.89
8		Columns, Pillars, Piers and Posts rectangular or square in shape.								
		CI	10	0.90		0.20	3.68			
			10	0.90		0.20	3.68			
			10	2.00		0.20	9.60			
			10	2.00		0.20	9.60			
							24.96	sqm	287.00	7413.12
7		Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (just in slab)								
		room	1	3.30	2.10		6.93			
		bal room	1	3.30	1.80		11.68			
		shelves	1	2.20	1.00		1.84			
		room	1	0.80	1.00		1.62			
							24.29	sqm	238.00	6731.63
8		Beams, Joists, cantilevers & walls								
			2	6.30	0.20		3.32			
			2	6.30	0.20		3.32			
			4	3.30	0.20		1.84			
			4	3.30	0.20		2.64			

Sl. No.	Ref	Description	NO	L	W	NO	QTY	UNIT	RATE	AMOUNT
			1	1.80	0.20		0.36			
			2	1.80	0.20		0.72			
		line	1	35.20	0.60		18.12			
		line	1	1.80	0.60		0.90			
		side wall	1	1.80	0.60		0.90			
		back	1	1.80	0.60		0.90			
			1	0.75	0.60		0.45			
		slab beam	2	8.00	0.30		3.02			
			2	8.00	0.30		4.98			
			4	3.00	0.20		2.64			
			4	3.50	0.20		3.96			
			1	1.80	0.30		0.26			
			2	1.80	0.30		1.08			
			4	3.20	0.40		5.12			
							55.72	sqm	202.00	11267.44
9	7.6	Brick work with modular flyash lime plaster (1:1:2) finish conforming to IS 12644:2002 of class designation 4.0 in foundation and plinth in:								
	4	Cement Mortar 1:6 (1 cement, 6 coarse sand)								
		in plinth	2	8.00	0.20	0.90	2.88			
			2	3.00	0.20	0.90	1.18			
						A =	4.07			
		in superstructure	2	6.00	0.20	2.80	8.96			
			4	3.50	0.20	2.80	7.56			
			1	1.80	0.20	2.80	1.01			
		educt D	3	1.00	0.20	2.10	-1.26			
		01	1	0.75	0.20	2.10	-0.33			
		window	3	1.20	0.20	1.21	-0.63			
			1	0.90	0.20	0.60	-0.11			
						B =	14.81			
						A+B =	18.87	sqm	3203.00	61888.21
10	7.8	Cost for brick work in superstructure above plinth level for every floor or part thereof in addition to cost for foundation and plinth	1	14.81			14.81	sqm	121.00	1791.80
11	8.1	Providing wood work in frames of doors, windows, decorative windows and other frames wrought ironed and fixed in position								
	2	64. Square batten, steel, nails								
			0	3	9.10	0.13	0.07			
			01	1	4.95	0.13	0.07			
							0.12	sqm	61051.00	61368.17
12	8.12	Providing and fixing flush door shutters, conforming to IS : 2202 (Part I), decorative type core of flush board construction with frame of first class hard wood and well matched teak ply, meeting with vertical grain on inside batten and face veneers on both faces of shutters excluding hinges.								
	1	40 mm. thick single leaf								
			0	3	6.90		2.10			
			01	1	0.75		2.10			
							7.20	sqm	2487.00	17975.43
13	8.14	Providing and fixing steel door made of angle iron or tubular steel with M.S. grill of approved pattern made of M.S. flat or square or round bars coat of red oxide zinc chromate primer								
		grill at @ 25 kg/sqm or								
			3	1.20	1.20	25.00	108.00			
			1	0.80	0.80	25.00	13.50			
							121.50	kg	78.50	9588.25

SN	REF	DESCRIPTION	Nº	L	W	HD	QTY	UNIT	RATE	AMOUNT
14	11.1	Finishing and making 6mm thick cement plaster of nic								
	2	In Cement mortar 1:4 (1 cement : 4 fine sand)								
		room	1	3.30	2.10		8.00			
		bed room	1	3.30	3.60		11.88			
		kitchen	1	2.30	1.80		3.96			
		bath	1	0.90	1.80		1.62			
							24.30	sqm	37.00	2121.83
15	11.2	Finishing and making 12mm thick cement plaster of nic								
	4	In Cement Mortar 1:4 (1 cement : 2 fine sand)								
		room	2	3.30		3.30	19.80			
			2	2.40		3.00	18.00			
		bed room	2	3.30		3.60	19.80			
			2	3.60		3.00	21.60			
		kitchen	2	2.30		3.00	13.80			
			2	1.80		3.00	10.80			
		bath	2	0.90		3.00	5.40			
			2	1.80		3.00	10.80			
		detail D	3	0.90		2.10	4.40			
		Dr	1	0.75		2.10	1.58			
		W	3	1.30		1.20	4.38			
		VT	1	0.75		0.80	0.48			
							104.35	sqm	37.50	9547.83
16	11.3	Finishing and making 15mm thick cement plaster on the rough side of single or half brick wall of nic								
	4	In Cement Mortar 1:4 (1 cement : 2 fine sand)								
			2	8.00		3.00	48.00			
			2	3.30		3.00	19.80			
							67.80	sqm	107.00	7254.80
17	12.12	Providing and laying vitrified floor tiles with elastic self grinding, of size 600x600mm with water absorption less than 0.2% and conforming to IS : 15622 of approved make, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grinding the joints with white cement and matching pigments etc. complete								
			sqm				953.00			
		room	1	3.30	2.10		6.93			
		bed room	1	3.30	3.60		11.88			
		kitchen	1	2.30	1.80		3.96			
		bath	1	0.90	1.80		1.62			
							24.39	sqm	953.00	23487.57
18	14.3	Discoloring with acrylic washable distemper to give an even shade								
	14.3.1	On new work (Two or more coats)								
		8 mm plaster	1	24.38			24.38			
		12 mm plaster	1	104.35			104.35			
							128.74	sqm	38.00	4892.88
19	14.14	Finishing walls with water proofing cement paint of required shade to give an even shade								
	14.14.1	On new work (Two or more coats applied @ 3.54 kg/10 sqm)								
		15 mm plaster	1	67.80			67.80	sqm	41.00	2779.80
20	14.22	Finishing on new work (two or more coats) to give an even shade with								
	14.22.1	Color synthetic enamel paint								
			lit	8	1.20		1.20		4.54	

Assistant Engineer
Tribal Develop.
Raigarh (C.G.)

DETAILED ESTIMATE FOR 50 BED PRE-MATRIC SC/ST HOSTEL

FOR TRIBAL DEVELOPMENT DEPARTMENT

As per PWD Building SOR - 01.01.2018

BOUNDARY WALL

CONCRETE WALL											
SN	REF	DESCRIPTION	NO	L	W	HD	QTY	UNIT	RATE	AMOUNT	
1	1.4	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth upto 30 cm measured at a height of 1 m above ground level and removal of rubbish upto a distance of 50 m outside the periphery of the area cleared.									
			1	15.25	1.20		18.30	sqm	374	6829.70	
2	1.1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m depth and load upto 50% (or load for safety from the excavated area) including dressing and bedding of pits.									
	1	In all types of soils.									
		COLUMN	4	1.50	1.50	1.20	12.50				
		DOUBLE COLUMN (EXPANSION)	1	2.50	1.50	1.20	4.50				
		FOUND	1	0.95	0.30	0.20	0.54				
							18.54	cum	185.00	3429.30	
3	1.18	Providing and filling in place with water Chalked dust and fine pebbles under floor in layers not exceeding 20mm in depth consolidating each deposited layer by ramming and watering including dressing etc. complete.									
		COLUMN	4	1.50	1.50	1.50	0.10				
		DOUBLE COLUMN (EXPANSION)	1	2.50	1.50	1.50	0.10				
							0.20	cum	371.00	74.20	
4	1.1	Providing and laying nominal 150 mm cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.									
	1.24 (1 cement : 3 coarse sand : 5 graded stone aggregate 40mm nominal size)										
		COLUMN	4	1.50	1.50	0.10	0.90				
		DOUBLE COLUMN (EXPANSION)	1	3.00	1.50	0.10	0.30				
		FOUND	1	0.95	0.30	0.10	0.21				
							1.41	cum	2970.00	4261.40	
5	1.3	Providing and laying design mix reinforced cement concrete with crushed graded stone aggregate 20mm nominal size using batching plant, transit mixer and concrete pump in all works upto plinth level excluding cost of form work.									
	1	M-20 Grade									
		COLUMN	4	1.40	1.40	0.20	1.51				
		DOUBLE COLUMN (EXPANSION)	1	1.80	1.40	0.20	0.30				
		COLUMN BELOW PLINTH BEAM	8	0.20	0.30	0.30	0.29				
							A	2.38			
		PLINTH BEAM	1	15.25	0.20	0.30	0.62				
		COLUMN ABOVE PLINTH BEAM	8	0.30	0.30	2.10	0.76				
							B	1.67			
							AVE	4.03	cum	4251.00	17065.10
6	1.12	Providing and placing in position reinforcement for R.C.C. work including crimping, cutting, bending, binding etc. complete as per drawings including cost of binding wire in foundation and plinth all complete.									
	1	Thermo Mechanically treated bars FE 415	420	90.00			362.70	kg	54.50	19773.15	


NO	REF	DESCRIPTION	NO	L	W	H	QTY	UNIT	RATE	AMOUNT
7	2.1	Providing and tying form work including bracing, shoring, foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.								
		COLUMN	18	1.40		0.20	4.48			
		DOUBLE COLUMN EXPANSION	2	1.80		0.30	0.72			
		COLUMN	2		1.40	0.30	0.56			
		COLUMN BELOW PLINTH BEAM	8		1.40	0.80	8.72			
			2	15.25		0.30	9.15			
8		Columns, Pillars, Piers and less rectangular or square in shape					21.83	sqm	135.00	2946.67
		COLUMN ABOVE PLINTH	8	1.00		2.10	12.80			
		COFRAG	2	15.25		0.85	1.33			
							14.13	sqm	227.00	4188.13
9	2.1	Providing and tying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.								
	5	1:1:2 (1 cement : 1 1/2 coarse sand : 3 graded stone aggregate 20mm nominal size)								
		COFRAG	1	15.25	0.30	0.05	0.23	cum	4073.00	931.79
9	2.5	Brick work with modular flyash fine bricks (FIELD BRICKS) conforming to IS 12854-2002 of class designation 4.0 in foundation and plinth etc.								
	4	Cement Mortar 1:5 (1 cement : 5 coarse sand)								
		FOUNDATION	1	15.25	0.20	0.10	0.31			
		DEDUCTION	6	0.20	0.20	0.10	-0.60			
							0.28	cum	3283.00	916.80
		SUPER STRUCTURE	1	15.25	0.30	1.50	4.58			
		DEDUCTION	6	0.20	0.20	1.50	-0.30			
							4.28	cum	3584.50	14283.58
10	1.17	Filling from available excavated stuff (excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering with a test upto 100 kg and 80 upto 1.2 M.								
		Column	4	1.50	1.50	1.50	13.50			
		fringe column	1	2.10	1.50	1.50	4.73			
		subsoil								
		land filling	4	1.20	1.20	0.10	-0.58			
		double column	1	1.50	1.20	0.10	-0.58			
		column base	4	1.20	1.20	0.10	-0.58			
		double column	1	1.50	1.20	0.10	-0.58			
							15.71	cum	85.00	1086.58
11	11.2	Providing and making 10mm thick cement plaster of mix								
	11.2.4	In Cement Mortar 1:5 (1 cement : 5 fine sand)	1	15.25		1.80	28.96			
			1	15.25		0.30	4.58			
		column	6	2.80		0.60	2.88			
							26.43	sqm	91.50	3353.38
12	11.3	Providing and making 10mm thick cement plaster on the rough side of single or half brick wall of mix								
	11.3.4	In Cement Mortar 1:5 (1 cement : 5 fine sand)	1	15.25		1.80	28.96			
		column	6	0.20		0.60	0.72			
							29.78	sqm	107.00	2177.27

Sl. No.	Ref.	DESCRIPTION	NO.	L	W	HD	QTY	UNIT	RATE	AMOUNT
13	13.2	Steel work in tubular round, square or rectangular hollow tubes etc.) structure in built-up sections, columns and frame work including cutting, fitting, bolting in position upto a height of 2m above plinth level, connecting of columns, beams, roof and bottom purlins, cross plate, bolting down bolts, wind lashing if required, bolts, nuts and washers for fastening etc. complete with applying a priming coat of red oxide zinc chromate primer.								
14	14.1	Electric resistance or induction built welded tubular (Grade-30)								
		square bar (25 x 25), wt. 2.01 kg/m	125	0.80		2.01	125.63			
		square bar (25 x 25), wt. 1.00 kg/m	15	2.80		1.00	42.00			
		square bar (25 x 25), wt. 1.00 kg/m	10	0.30		1.00	5.00			
							172.63	kg	85.50	14740.44
14	14.14	Finishing walls with water proofing cement paint of required shade to give an even shade.								
	14.14.1	On new work (Two or more coats applied @ 2.00 kg/10 sqm)								
		kg of 10mm plaster	1	30.43			30.43			
		kg of 10mm plaster	1	29.70			29.70			
							60.13	sqm	41.00	2475.13
15	15.5	White washing with lime to give an even shade.								
	15.5.1	On new work (Three or more coats)								
		kg of 10mm plaster	1	30.43			30.43			
		kg of 10mm plaster	1	29.70			29.70			
							60.13	sqm	9.40	565.12
16	16.15	Painting exterior surface with ACRYLIC SMOOTH exterior paint of required shade as per manufacturer's specifications to give protective and decorative finish including cleaning existing of surface etc. complete with.								
	16.15.1	On new work (Two or more coats applied @ 1.42 kg/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)								
		kg of 10mm plaster	1	30.43			30.43			
		kg of 10mm plaster	1	29.70			29.70			
							60.13	sqm	36.00	2164.68
		As per BCR Total Amount							Rs.	55535.97
		Cost of 15.25 M long B Wall							Rs.	55535.97
		Cost per meter							Rs.	3646.65
		Total cost of 250 m length							Rs.	1287930.65
		Iron Gate							Rs.	35000.00
		GRAND TOTAL							Rs.	1287930.65
		SAY							Rs.	1288000.00


 Assistant Engineer
 Tribal Devel.
 Raigarh (C.G.)

DETAILED ESTIMATE FOR 50 BED PRE-MATRIC SC/ST HOSTEL
FOR TRIBAL DEVELOPMENT DEPARTMENT
AS PER PWD BUILDING SOR, W&L 01.01.2015
DRAIN

SN	REV	DESCRIPTION	NO	L	W	HD	QTY	UNIT	RATE	AMOUNT
ESTIMATE FOR STANDARD LENGTH OF 10 M										
1	1.1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated material 1.5 m or less and less than 30m (at least) 5m away from the excavated area, including shoring and leveling of pits in all types of soils.								
	1		1	10.00	0.80	0.60	4.80	cum	165.50	886.00
2	1.26	Carriage by mechanical transport upto 2 km road								
	1.26.1	Earth					4.80	cum	111.00	652.80
3	1.7	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto 150mm level including cost of form work.								
	1	1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 45mm nominal size)	1	10.00	0.60	0.10	0.60	cum	2686.00	2127.20
4	2.2	Providing and laying nominal mix reinforced cement concrete with crushed stone aggregate using concrete mixer in all works upto 150mm level including cost of form work.								
	1	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 45mm nominal size)	1	10.00	0.30	0.10	0.50			
		Gran base	2	10.00	0.10	0.45	0.60			
		Wall	1	10.00	0.40	0.10	0.50			
		Cost					1.90	cum	4183.00	7909.70
5	1.17	Filling from available excavated stuff (excluding rock) in trenches, pits, spaces of foundation etc. in layers not exceeding 30cm in depth consolidating each deposited layer by ramming and watering with a least upto 30 M. and 75 upto 1.2 M.	2.00	10.00	0.15	0.05	1.80	cum	65.00	107.25
6	2.10	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire in foundation and upto all complete.								
	1	Thermo-Mechanically treated bars FE 415	50	1.90			95.00	kg	54.50	5177.50
7	2.1	Providing and laying form work including setting, shoring, strutting, bracing, propping, bracing etc. complete and including its removal at all levels. for:								
	1	Extrados, footings, bases of columns plain beam, column wall in any shape and size and all type of wall below plinth level.								
		well outer side	3	10.00		0.45	3.00			
		well outer side	2	10.00		0.55	11.00			
		cover	1	10.00	0.20		3.00			
		base side	2	10.00		0.15	3.00			
							25.00	sqm	132.00	3475.00
As per SOR Total Amount									Rs.	20217.45
Cost of 10 M long Drain									Rs.	20217.45
Cost per meter										3021.75
Total cost of 80 m length										202174.50
SAV									Rs.	262000.00


 Assistant Engineer
 Tribal Comm.
 Raigarh (C.G.)

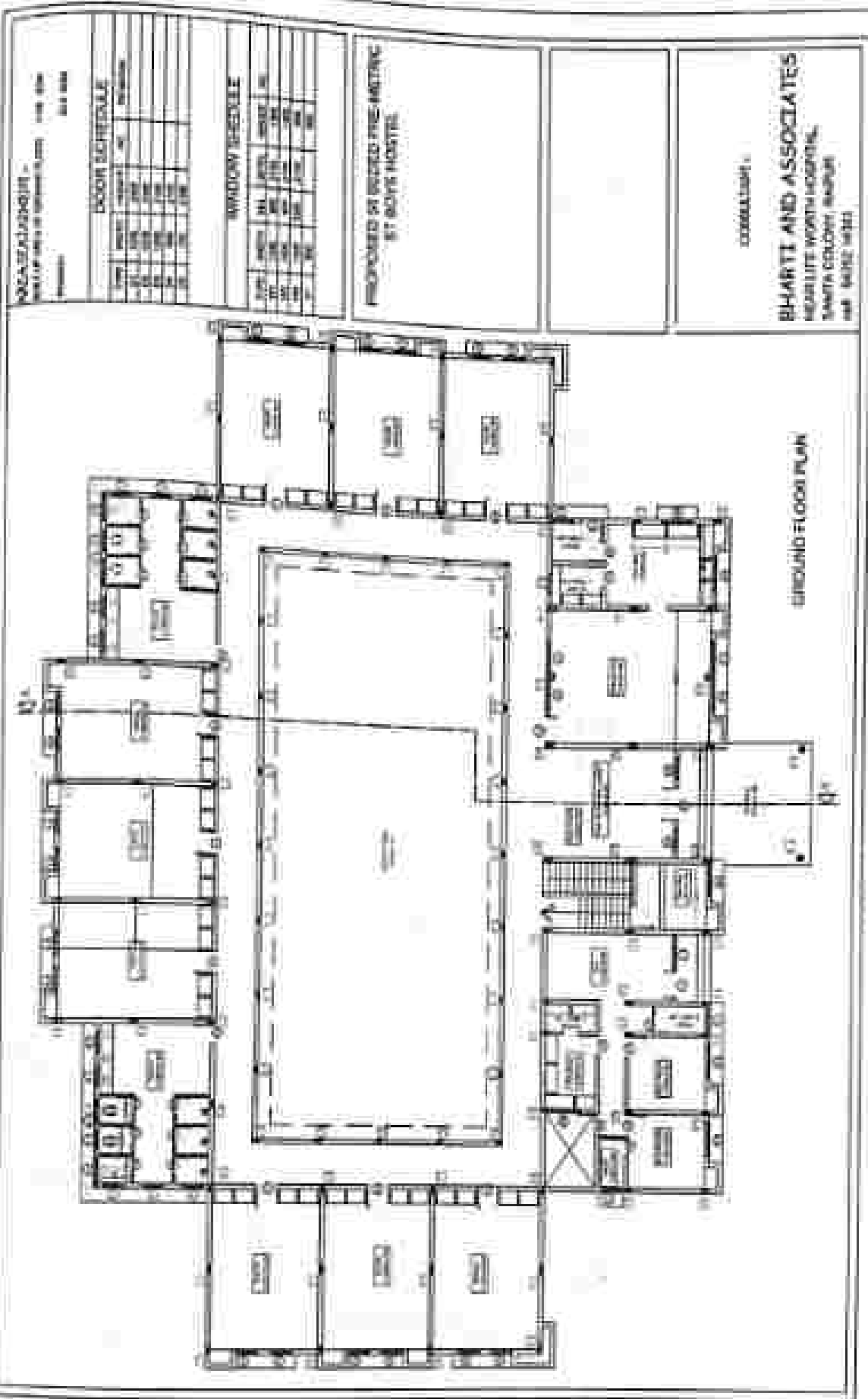
DETAILED ESTIMATE FOR 50 BED PRE-MATRIC SC/ST HOSTEL

FOR TRIBAL DEVELOPMENT DEPARTMENT
As per PWD Building SOR - 01.01.2015, and Road SOR - 01.01.2015
PAVED ENTRANCE

Sl. NO.	REF	DESCRIPTION	NO.	L	W	HIB	QTY	UNIT	RATE	AMOUNT
ESTIMATE FOR STANDARD LENGTH OF 10 M										
A :- Items as per Building SOR										
1	1.1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m in all and less upto 50m or less for away from the excavated area, including cranking and hauling of soil.								
		In all types of soils.								
		Side walls								
		Pathway	2	10.00	0.50	0.50	6.00			
			1	10.00	4.00	0.10	6.00			
							12.00	cum	185.00	2220.00
2	1.17	Filling from available excavated stuff (Excluding rock) in trenches, plots, sides of foundation etc. in layers not exceeding 20cm in depth consolidating each deposit layer by ramming and watering with a least upto 10 M, and 10 upto 1.5 M.	2	10.00	0.10	0.40	1.50	cum	65.00	97.50
4	2.1	Providing and laying curbside the plain cement concrete with crushed stone aggregate using natural river in all works upto plinth level excluding cost of form work.								
		1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size)	2	10.00	0.50	0.10	1.50	cum	2050.00	3075.00
		1:11:3 (1 cement : 11 coarse sand : 3 graded stone aggregate 20mm nominal size)	2	10.00	0.30	0.05	0.20	cum	4073.00	814.60
6	7.3	Block work with modular 8-cm line bricks (F&D blocks) conforming to IS 12898-2012 of class designation 4.0 in foundation and plinth in								
		4 Cement Mortar 1:2 (1 cement : 2 coarse sand)	2	10.00	0.20	1.00	4.00	cum	3063.00	12252.00
6	11.2	Providing and making 12mm thick cement plaster of etc.								
		11.2.4 In Cement Mortar 1:1 (1 cement : 1 fine sand)	2	10.00	0.55	11.00	sqm	91.50	1830.50	
7	11.3	Providing and making 10mm thick cement plaster on the rough side of single or half brick wall of etc.								
		11.3.4 In Cement Mortar 1:1 (1 cement : 1 fine sand)	2	10.00	0.50	10.00	sqm	107.00	1870.00	
8	14.10	Painting exterior surface with ACRYLIC SMOOTH exterior paint of required shade as per manufacturer's specifications to give protective and decorative finish including cleaning, washing of surface etc. complete with								
		14.10.1 On new work (Two or more coats applied @ 1.45 lit/10 sqm over and including priming coat of exterior primer applied @ 2.20 lit/10 sqm)	2	10.00	1.00	20.00	sqm	58.00	1160.00	
9	12.88	Providing 5 layer 40mm thick pressed earthenware concrete blocks of approved size (approx 300 sqm) and chisel pattern, over 40 mm thick average complete coarse sand bed with joints of 3mm thick filled by fine sand including bedding with surface vibration, tamping and sweeping etc. complete of minimum compressive strength of 150 kg/cm ²								

SN	REF	DESCRIPTION	NO	L	W	HD	QTY	UNIT	RATE	AMOUNT
	12.88.1	Final normal covered precast concrete drain	1	10.00	4.50		45.00	sqm	438.00	20985.00
		A = Total as per Building SOR							Rs.	41581.85
		B <- Items as per Road SOR								
12	3.12	Construction of embankment with Material Obtained from Borrow Pit/Borrow Area (Construction of embankment with approved material/section, soil having C.B.R > 4, unless specified otherwise in the contract) obtained from borrow pits with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement of table 300.2)								
		100mm wide x 50mm high, Average height = 1/2 x 0.25 x 0.25	2	10.00	2.00	0.50	20.00	Cum	223.00	4460.00
1	4.1	Gravel Sub-base as per Table - 400.1								
		Construction of granular sub-base by providing graded Material, carriage of mixed Material to work site, spreading in uniform layers with motor grader or prepared surface spreading, rolling and compacting with vibratory power roller at OMC to achieve the decided density, complete as per clause 401								
	B	Ry 10% in place method								
		Dolomitic 10% (a maximum having CBR value not less than 20 and P.L. and L.L. not more than 8 and 20 respectively) (For Village roads only)	1	10.00	4.00	0.60	27.60	Cum	450.00	12696.00
		B = Total as per Road SOR							Rs.	17156.00
		Sub-Total (A + B)								60737.85
		Cost of 10 M long Pathway							Rs.	60737.85
		Cost per meter								6073.79
		Total cost of 30 m length								182213.55
		SAY							Rs.	182000.00


 Assistant Engineer
 Tribal Develop
 Raigarh (C.G)



LOCALIZATION -

DATE -

DOOR SCHEDULE

NO.	TYPE	QTY	REMARKS
1	DOOR	1	DOOR
2	DOOR	1	DOOR
3	DOOR	1	DOOR
4	DOOR	1	DOOR
5	DOOR	1	DOOR
6	DOOR	1	DOOR
7	DOOR	1	DOOR
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WINDOW SCHEDULE

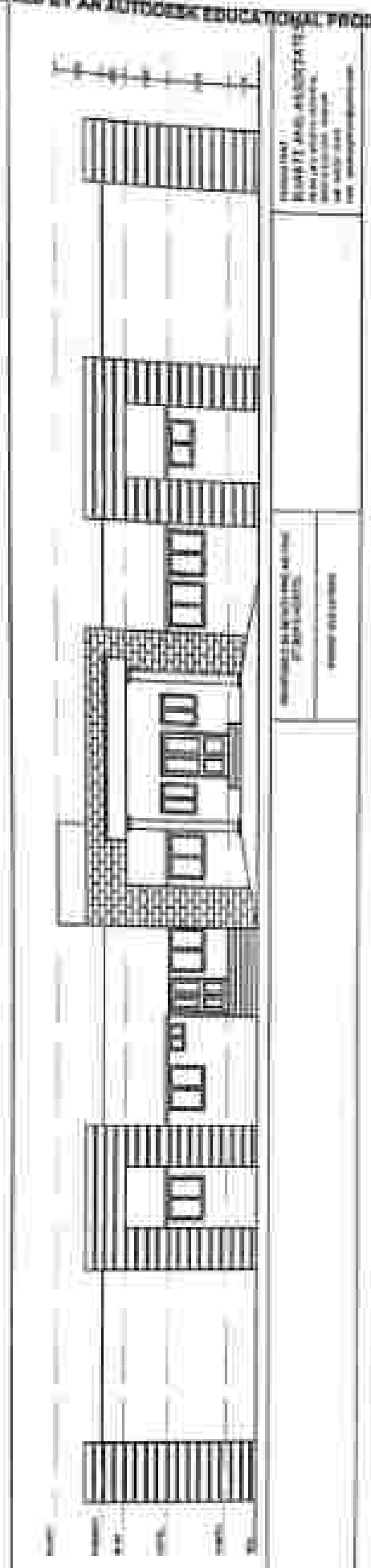
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99	WINDOW	1	WINDOW
100	WINDOW	1	WINDOW

PROPOSED BY BHOIRI PRE-CASTING
ST. JOHN'S HOSPITAL

COORDINATOR

BHARTI AND ASSOCIATES
HEALTH CARE HOSPITAL
MUMBAI, INDIA
100 100 100 100

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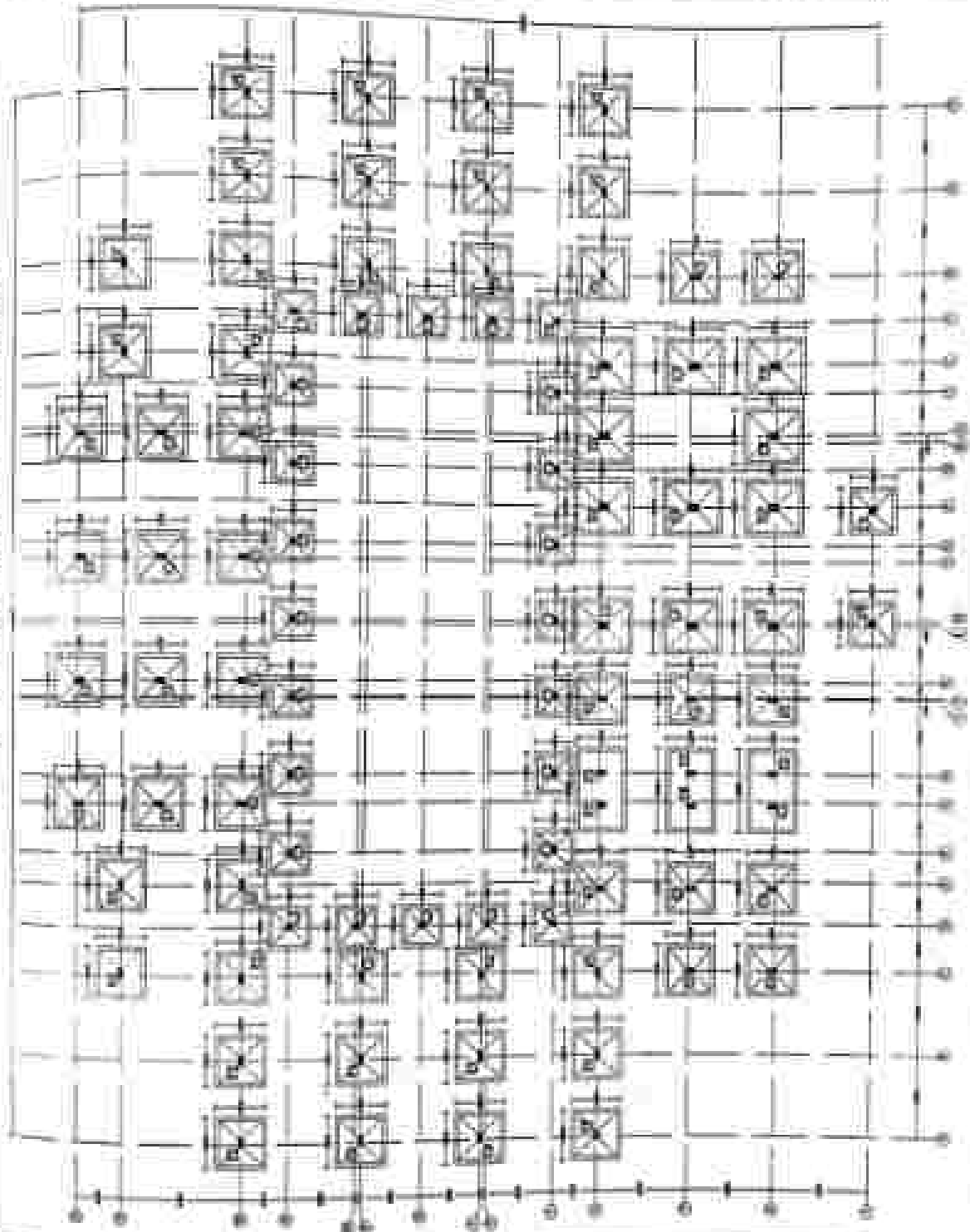
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Architectural drawing of a building elevation. The drawing shows a long, rectangular building with a series of windows and doors. The drawing is oriented vertically on the page. Labels at the bottom of the drawing (which would be on the right side of the drawing if oriented horizontally) identify the following areas from left to right: Entry, Lobby, Office, Conference, Reception, and Stairs. The drawing is a line drawing with some shading to indicate depth and form.

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THIS PAGE IS INTENDED TO BE USED FOR STUDENT WORK

Layout Page

COLUMN SCHEDULE

FOOTING SCHEDULE

FOOTING	EXCA. SIZE	FOOTING SIZE	EDGE	DEPTH	REINFORCEMENT	REMARK
F1	2200x2200	1900x1900	300	450	102#150 C/C BOTHWAYS	C1
F2	2600x2400	2300x2100	300	600	102#150 C/C BOTHWAYS	C2
F3	1800x1800	1500x1500	200	300	102#150 C/C BOTHWAYS	C3
F4	2000x2000	1700x1700	200	300	102#150 C/C BOTHWAYS	C4

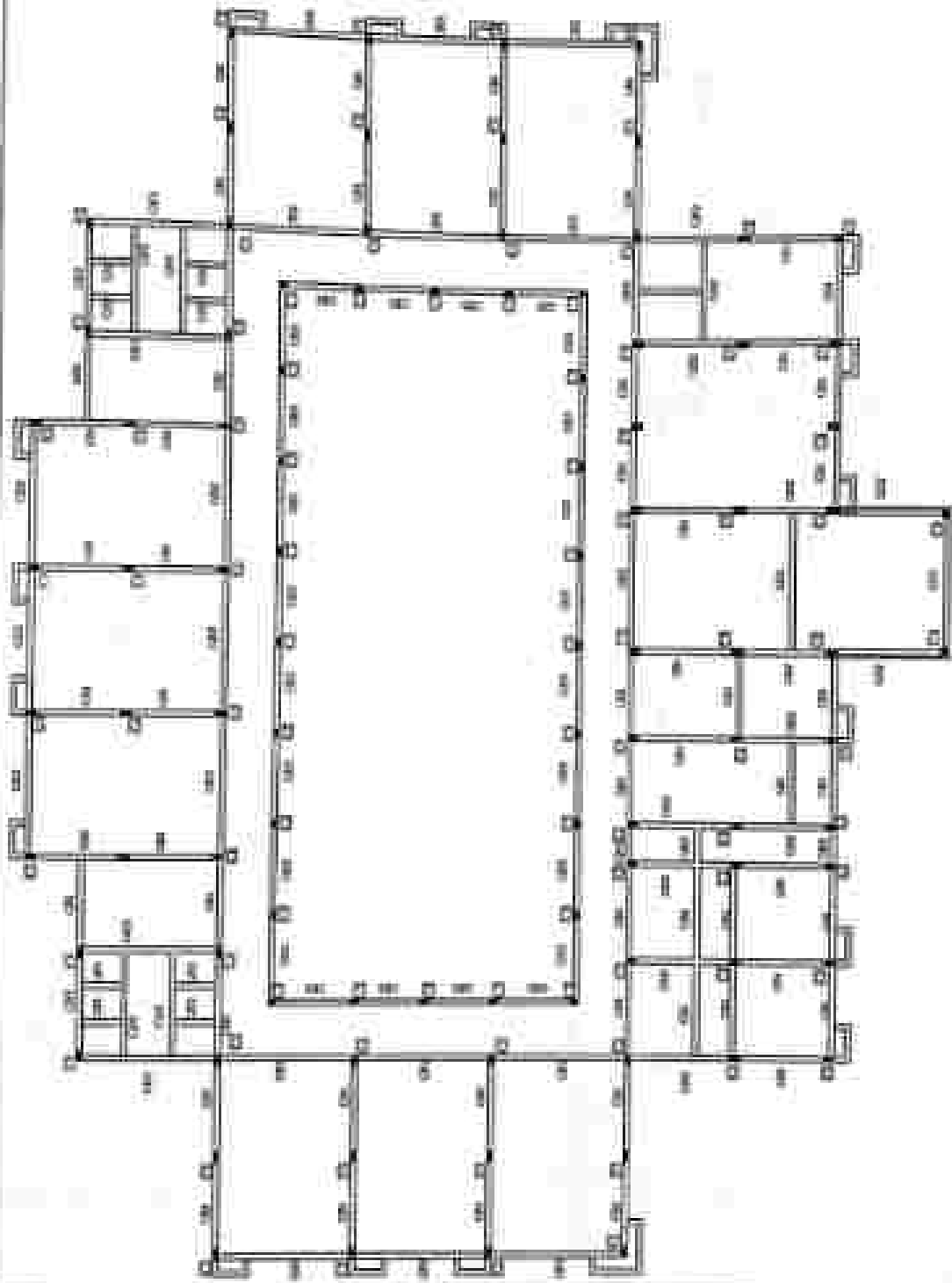
COLUMN AND FOOTING SCHEDULE

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PROPOSED 30 BEDD PRE-METRIC
ST ROYS HOSTEL

GROUND BEAM PLAN



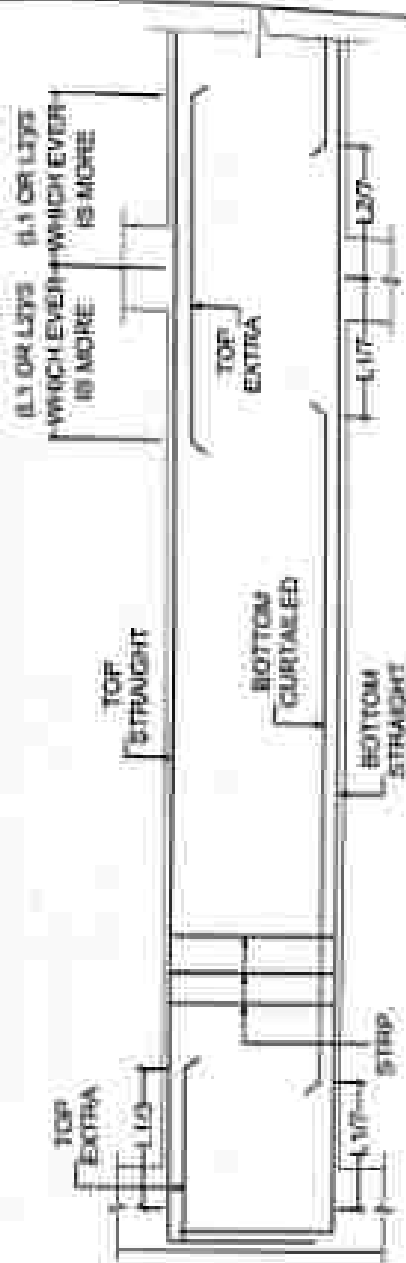
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TYP BEAM SECTION DETAIL

GROUND BEAM DETAIL

BEAM	SIZE	BOTTOM REIN	TOP REIN		STIRRUP
		STRAIGHT + CURTAIL	STRAIGHT	EXTRA	
GB1	200x400	2-120 2-120	2-120	2-120	60 @ 150 C/C
GB2	200x400	2-120 2-120	2-120	2-120	60 @ 150 C/C
GB3	200x450	2-120 2-160	2-120	3-160	50 @ 150 C/C
GB4	200x500	3-160 2-160	2-120	2-160	80 @ 150 C/C
GB5	200x300	2-120	2-120	—	60 @ 150 C/C

REPORTED IN BIDDING PRELIMINARY
ST BOYS HOTEL

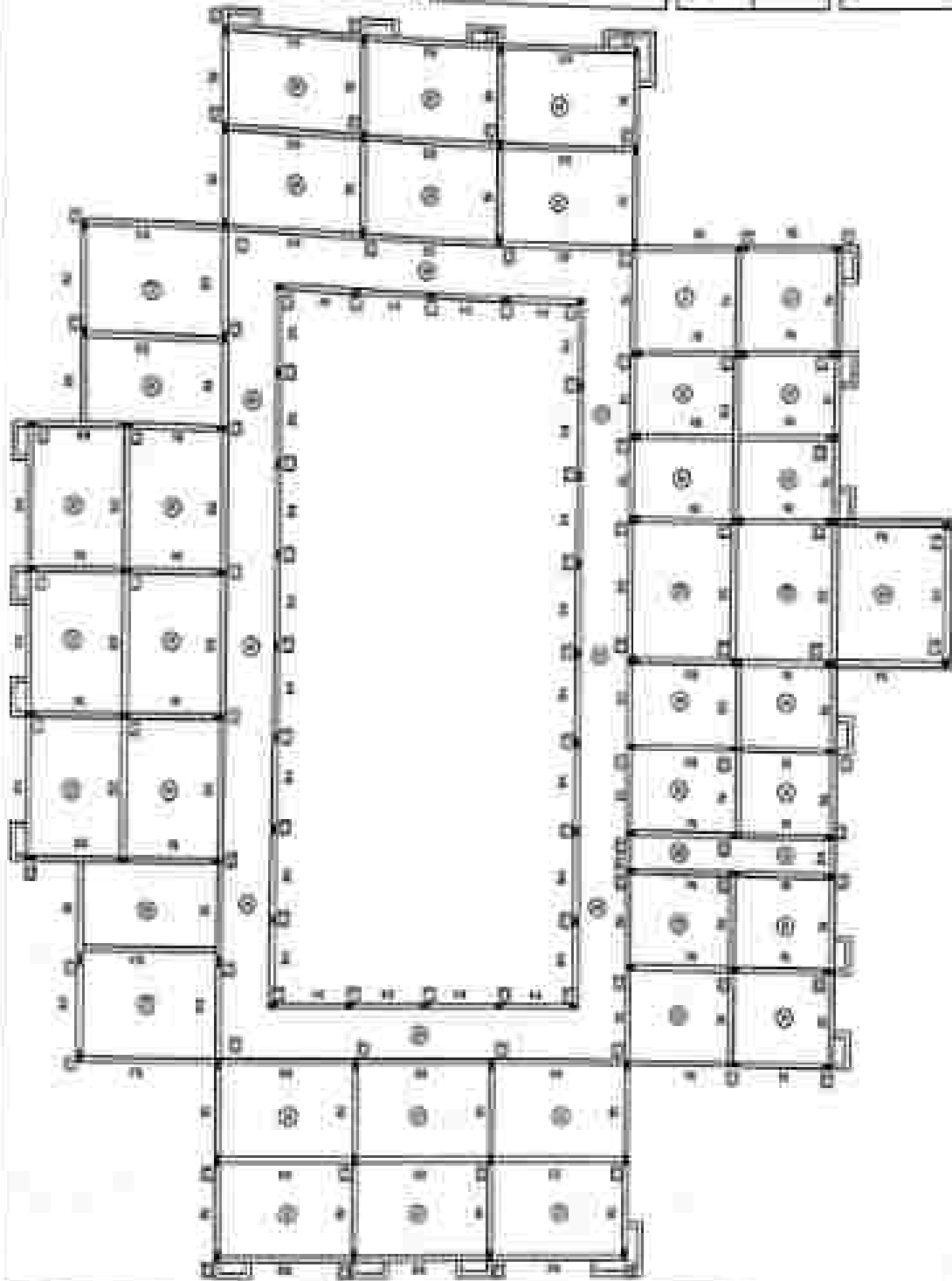
GROUND BEAM SCHEDULE

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PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

PROPOSED 30 METER PERIMETRIC
ST BOYS HOSTEL

SLAB BEAM PLAN

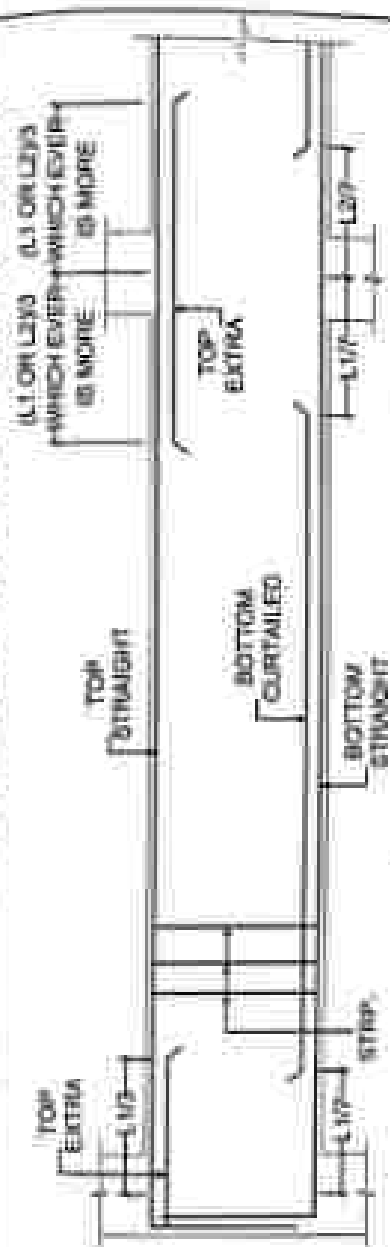


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TYP. BEAM SECTION DETAIL

SLAB BEAM DETAIL

BEAM	SIZE	BOTTOM REIN.	TOP REIN.		STIRRUP
		STRAIGHT + CURTAILED	STRAIGHT	EXTRA	
B1	200x400	2-120 2-120	2-120	3-120	80 @ 150 C/C
B2	200x450	2-120 3-160	2-120	3-160	80 @ 130 C/C
B3	200x500	3-160 3-160	2-160	3-160	80 @ 100 C/C
B4	200x500	3-120	2-120	—	80 @ 150 C/C

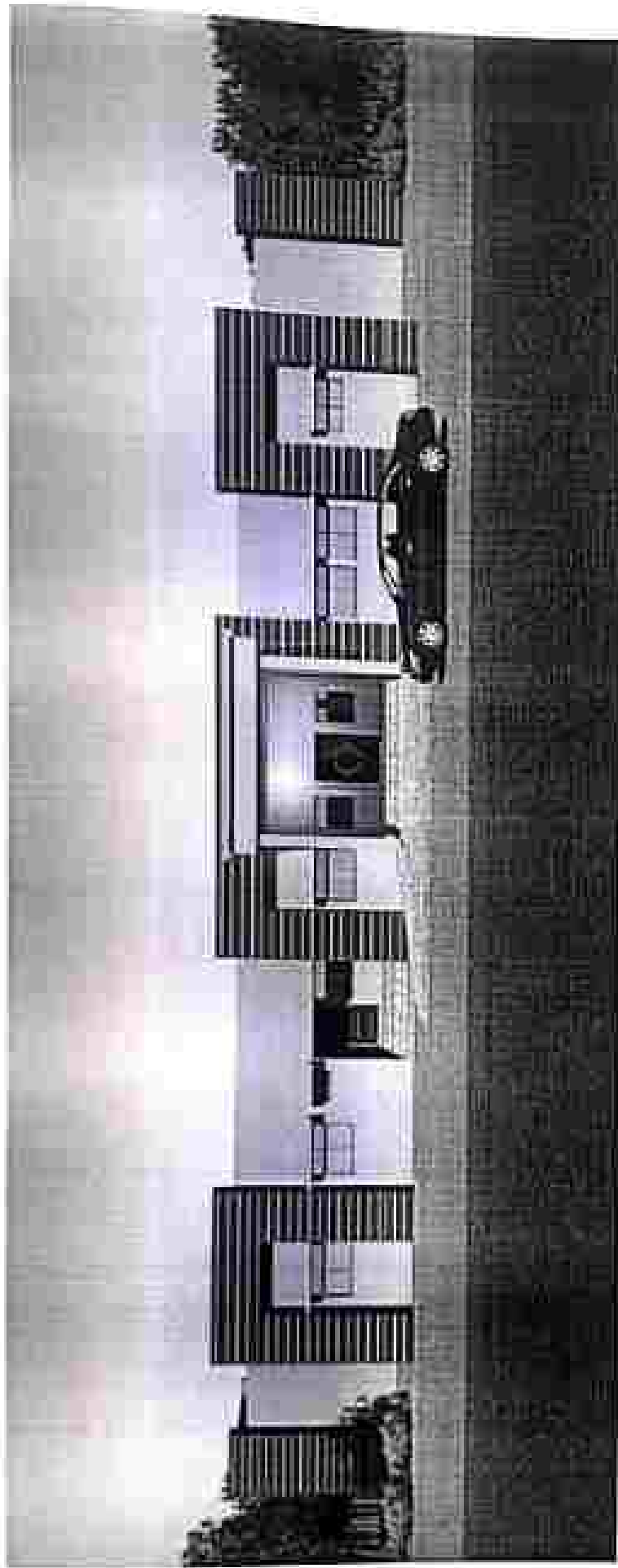
DETAILS OF SLAB

SLAB	MAIN SPAN	OTHER SPAN	SLAB THICKNESS
S1	80 @ 125 C/C	80 @ 125 C/C	125 MM
S2	100 @ 125 C/C	100 @ 125 C/C	150 MM

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REINFORCEMENT IS TO BE USED IN ALL DIRECTIONS

SLAB BEAM SCHEDULE



**PROPOSED PRE-MATRIC HOSTEL
FOR DEPTT. OF TRIBAL DEVELOPMENT, RAIPUR, C.G.**