

2022 - 2023

NAME OF WORK : Construction of Hostel Building for Boys (150 Nos) in Government College of Technology at Coimbatore.

DETAILED ESTIMATE

Sl. No	Description	Nos			L	B	D	Qty	Unit
1	Earth work open excavation in all soils and sub-soils and to full depth as may be directed except in rock requiring blasting inclusive of shoring shuttering, bailing out water wherever necessary and depositing the excavated earth with a lead of 10 mts. within the compound in places shown by the departmental officers and clearing and levelling the site, etc., complete complying with standard specification.								
	Total Building Area	1	x	1	60.00	38.14	1.00	2288.40	
	Dining and Kitchen	1	x	1	15.82	19.15	1.00	302.95	
	D/f OTS	-1	x	1	17.00	33.00	1.00	-561.00	
	For Septic Tank	1	x	2	9.20	3.60	3.00	198.72	
	For Dispersion trench	1	x	2	5.00	1.20	1.00	12.00	
	For Sump	1	x	1	9.00	5.00	2.00	90.00	
	Sundries							7.93	
							Total	2339.00	M³
2	Earth work excavation for foundation (for narrow excavation) in all soils and sub-soils and to full depth as may be directed except in rock requiring blasting inclusive of shoring shuttering, bailing out water wherever necessary and depositing the surplus earth within the compound in places shown by the departmental officers with an initial lead of 10 mts and initial lift of 2 mts. and clearing and levelling the site, etc., complete complying with standard specification.								
	Foundation								
	upto to 2m Depth								
	Column 30x50 - A'10, A'12	1	x	2	2.65	2.65	2.00	28.09	
	Column 23 X 30								
	L9,L14,M9.M14,N9,M14, O10,O11,O12	1	x	9	1.40	1.40	2.00	35.28	
	C7,C8,C9,C10,C11,C14,C15,C16, D6,D17,E6,E17,F6,F17,G6,G17, H7,H8,H9,H10,H11,H14,H15,H16	1	x	24	2.05	1.75	2.00	172.20	

Sl. No	Description	Nos			L	B	D	Qty	Unit
	d/f door	-1	x	1	1.00	0.23	2.10	-0.48	
	d/f window lintel	-1	x	3	1.96	0.23	0.15	-0.20	
	d/f door lintel	-1	x	1	1.46	0.23	0.15	-0.05	
	Sump room Long wall	1	x	2	8.54	0.23	2.77	10.88	
	Short wall	1	x	2	4.08	0.23	2.77	5.20	
	d/f window	-1	x	3	1.50	0.23	1.50	-1.55	
	d/f R.S	-1	x	1	1.50	0.23	2.40	-0.83	
	d/f window sill slab	-1	x	3	1.96	0.23	0.08	-0.11	
	D/f lintel	-1	x	3	1.96	0.23	0.15	-0.20	
	d/f R.S lintel	-1	x	1	2.50	0.23	0.23	-0.13	
	Sump room parapet long wall	1	x	2	9.00	0.23	0.45	1.86	
	Short wall	1	x	2	4.54	0.23	0.45	0.94	
	Store room parapet	1	x	2	7.00	0.23	1.00	3.22	
	Store room parapet	1	x	1	8.02	0.23	1.00	1.84	
	Store room parapet	1	x	1	2.80	0.23	1.00	0.64	
	Kitchen parapet	1	x	1	6.23	0.23	1.00	1.43	
	Toilet parapet	1	x	1	2.97	0.23	1.00	0.68	
	Toilet parapet	1	x	1	1.62	0.23	1.00	0.37	
	Portico Parapet	1	x	1	8.27	0.23	1.20	2.28	
	Portico Parapet	1	x	2	6.50	0.23	1.20	3.59	
	Sundries							0.49	
							Total	412.00	M³
6.c)	For Superstructure in First Floor								
	X-axis								
	A1-A2, A21-A22, J1-J2, J21- J22	1	x	4	1.43	0.23	2.65	3.49	
	A2-A4, A19-A21, J2-J4, J19- J21	1	x	4	4.25	0.23	2.65	10.36	
	A5-A7---A11, A13 -A14--A18, J5-J7--J10, J14 -J15--J18	1	x	17	3.70	0.23	2.95	42.68	
	A11-A12, J11-J12,	1	x	2	3.67	0.23	5.85	9.88	

Sl. No	Description	Nos			L	B	D	Qty	Unit
	Bath partion long wall	1	x	4	5.11	-	2.72	55.60	
	Inner cross walls	4	x	4	1.50	-	2.10	50.40	
	Room cupboards bottom	4	x	26	0.60		0.75	46.80	
	Top	4	x	26	0.60		1.35	84.24	
	Kitchen platform partition wall	2	x	5	0.60		0.75	4.50	
	Store room cupboard	1	x	15	0.60		2.10	18.90	
	Rear side toilet partition long wall	1	x	1	2.74		2.40	6.58	
	Inner cross walls	1	x	1	1.50		2.10	3.15	
	d/f toilet, Bath door	-4	x	5	0.80		2.10	-33.60	
	d/f PWD Door	-1	x	4	1.10		2.10	-9.24	
	Rear side toilet & Bath doors	-1	x	2	0.80		2.10	-3.36	
	Security room	1	x	2	0.45		2.10	1.89	
	Sump Room	2	x	3	0.45		2.10	5.67	
	Sundries							2.99	
							Total	285.00	M ²
b)	For Superstructure in First Floor								
	Toilet partion long wall	1	x	4	5.11	-	2.47	50.49	
	Bath partion long wall	1	x	4	5.11	-	2.72	55.60	
	Inner cross walls	4	x	4	1.50	-	2.10	50.40	
	Room cupboards bottom	4	x	27	0.60		0.75	48.60	
	Top	4	x	27	0.60		1.35	87.48	
	d/f toilet, Bath door	-4	x	6	0.80		2.10	-40.32	
	Sundries							2.76	
							Total	255.00	M ²
10	Supplying and erecting steel centering including necessary supports for plane surfaces for Reinforced Cement Concrete works such as column footings, column pedestals, plinth beams, grade beams, staircase steps, etc. which require only nominal strutting using mild steel sheets of size 90cm x 60cm and 10 BG stiffened with welded mild steel angles of size 25mm x 25mm x 3 mm for boarding, laid over silver oak joists of size 10cm x 6.5cm spaced at about 75cm centre to centre or at suitable intervals etc. complete in all floors complying with standard specification. (Payment for centering shall be given after the concrete is laid)								
	Foundation								
	Column 300x500 - A'10, A'12	1	x	2	10.00		0.20	4.00	
	Column 230 X 300								
	L9,L14,M9.M14,N9,M14, O10,O11,O12	1	x	9	5.00		0.20	9.00	

Sl. No	Description	Nos			L	B	D	Qty	Unit
							Total	296.00	M ³
d)	SECOND FLOOR								
	Staircase landing slab Edge	1	x	2	3.74	1.50	0.15	1.68	
	Flaight bottom slab	2	x	2	3.30	1.50	0.15	2.97	
	Step	0.5	x	44	1.50	0.30	0.15	1.49	
	Window sill slab	1	x	2	3.67	0.23	0.08	0.14	
	Sunshade	1	x	2	1.96	0.60	0.08	0.19	
	intel	1	x	2	1.96	0.23	0.15	0.14	
	Door lintel	1	x	2	1.46	0.23	0.15	0.10	
	Sunshade	1	x	2	1.46	0.75	0.10	0.22	
	300 X 400 Column A11, A12,A13, B11, B12,B13, I11,I12,I13, J11,J12,J13	1	x	12	0.30	0.40	3.00	4.32	
	Dummy column 300 x 400	1	x	94	0.30	0.40	1.00	11.28	
	Dummy column 230 x 300	1	x	32	0.23	0.30	1.00	2.21	
	Sundries							1.28	
								26.00	M ³
14	<p>Providing and laying in position, Standardised Concrete Mix M-25 Grade in accordance with IS:456-2000 using 20mm and down graded hard broken granite stone jelly for all RCC items of works with minimum cement content of 350 kg/lms and maximum water cement ratio of 0.50, including admixture (plasticiser / superplasticiser) in recommended proportions as per IS:9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability with about (5.0 cu.m.) 7730 kg. of 20mm machine crushed stone jelly and with about (3.3 cu.m.) 5156 kg. of 10-12mm machine crushed stone jelly and with about (4.79 cu.m.) 7670 kg. of sand, but excluding cost of reinforcement grill and fabricating charges, centering and shuttering and also including laying, vibrating with mechanical vibrators, finishing, curing, etc. and providing fixtures like fan clamps in the RCC floor/ roof slabs wherever necessary without claiming extra, etc., complete complying with standard specification and as directed by the departmental officers. The coarse and fine aggregates to be used should comply with the requirements of IS Standards. (No separate payment will be made by the Department for the excess usage of materials).</p>								
a)	For Foundation and Basement								
	Sump bottom slab	1	x	1	8.54	4.54	0.20	7.75	
	Long wall	1	x	2	8.54	0.23	2.00	7.86	
	Short wall	1	x	3	4.08	0.23	2.00	5.63	
	Sundries							1.76	
							Total	23.00	M ³
d)	For Superstructure in Second floor								

Sl. No	Qty	Per	Description of Work	Rate	Per	Amount
75	373.00	Rm	Supplying and fixing in position best approved of BIS quality PVC rain water down fall pipes having a pressure of 4 kg. / sq.cm including cost of necessary PVC shoe, PVC bend, cast iron gratings of required diameter and special clamps, brass screws, nails, etc., and fixing of cast iron gratings at junction of parapet and the RCC roof slab including finishing neatly etc., complete. The rate shall be inclusive of cast of removable cast iron grating. The PVC pipe shall be fixed in wall with special type of "U" clamp at the centre of the pipe line in addition to those for more than 3.0 metre pipe length, etc., complete complying with standard specification.	478.05	Rm	178313
76	52.00	Rm	Supplying and fixing in position of RCC HUME PIPE 30 cm dia including transportation etc complete.	2228.00	Rm	115856
77	2.00	nos	SUB-MERSIBLE PUMP IN BORE WELL Class-5 (1 MPa or 10 kg./cm2 pressure) 7.5 HP Submersible Pump	83300.00	Rm	166600
78	2.00	nos	3 Phase Panel Board including labour charges	13260.00	Rm	26520
79	16.00	nos	Supply and fixing of Water CO2 Stored Pressure Type 9 litres capacity Fire Extinguisher as per new IS 15683 complete with control valve, gun metal cap, pressure gauge, operation sticker, discharge hose, wall mounting bracket, safety clip, etc., as directed by the Departmental Officers.	6666.00	Rm	106656
80	40.00	Rm	Drilling 150mm dia vertical bore well in hard rock to the required depth as directed by the departmental officers including labour charges for inserting pipes assembly in the drilled holes including necessary grouting the casing pipes etc., and including transportation charges for the rigs and supporting vechiles from the one place to another(The Casing pipe has to be supplied by the contractor at the rates noted in separate item) (up to casing pipe depth)	275.00	Rm	11000
81	560.00	Rm	Drilling 150mm dia vertical bore well in hard rock to the required depth as directed by the departmental officers including labour charges for inserting pipes assembly in the drilled holes including necessary grouting the casing pipes etc., and including transportation charges for the rigs and supporting vechiles from the one place to another (The Casing pipe has to be supplied by the contractor at the rates noted in separate item) (beyond casing pipe depth)	295.00	Rm	165200

Sl. No	Description	Nos	L	B	D	Qty	Unit
75	Supplying and fixing in position best approved of BIS quality PVC rain water down fall pipes having a pressure of 4 kg. / sq.cm including cost of necessary PVC shoe, PVC bend, cast iron gratings of required diameter and special clamps, brass screws, nails, etc., and fixing of cast iron gratings at junction of parapet and the RCC roof slab including finishing neatly etc., complete. The rate shall be inclusive of cast of removable cast iron grating. The PVC pipe shall be fixed in wall with special type of "U" clamp at the centre of the pipe line in addition to those for more than 3.0 metre pipe length, etc., complete complying with standard specification.						
	Front & Rear side outer line	1	x	20	7.50		150.00
	Inner ots line	1	x	16	7.50		120.00
	Library Hall rain water pipe	1	x	5	8.50		42.50
	Library Hall terrace line	1	x	3	4.00		12.00
	Kitchen & store terrace line	2	x	6	4.00		48.00
	Sundries						0.50
						Total	373.00 Rm
BORE WELL DETAILS							
76	Supplying and fixing in position of RCC HUME PIPE 30 cm dia including transportation etc comple						
	For Electrical cable line,	1	x	2	10.00	-	20.00
	Inner OTS Drain line	1	x	2	10.00		20.00
	Entrance Approach pipe line	1	x	1	12.00		12.00
						Total	52.00 Rm
77	SUB-MERSIBLE PUMP IN BORE WELL (1 MPa or 10 kg./cm ² pressure) 7.5 HP Submersible Pump						
	7.5 HP Submersible Pump - Sump	1	x	2			2.00
						Total	2.00 Nos
78	3 Phase Panel Board including labour charges						
	7.5 HP Submersible Pump - Sump	1	x	2			2.00
						Total	2.00 Nos
79	Supply and fixing of Water CO ₂ Stored Pressure Type 9 litres capacity Fire Extinguisher as per new IS 15683 complete with control valve, gun metal cap, pressure gauge, operation sticker, discharge hose, wall mounting bracket, safety clip, etc., as directed by the Departmental Officers.						
	GF, FF, Kitchen	1	x	16			16.00
						Total	16.00 Nos
80	Drilling 150mm dia vertical bore well in hard rock to the required depth as directed by the departmental officers including labour charges for inserting pipes assembly in the drilled holes including necessary grouting the casing pipes etc., and including transportation charges for the rigs and suporting vechiles from the one place to another (The Casing pipe has to be supplied by the contractor at the rates noted in separate item) (up to casing pipe depth)						
	Bore Well - 2 Nos	1	x	2	20.00	-	40.00
							RM

A	B	C	D	E	F	G
83	2.00	nos	Supply and delivery for 160 mm PVC end cap	132.00	Rm	264
84	600.00	Rm	Supplying and erection of (40mm) submersible UPVC pipe standard size of ISI make 3 meter length, including transportation charges, erection in side the bore well with required joints specially etc., completer complying with standard specification., as directed by the departmental officers.(schdule 80)	325.80	Rm	195480
85	2.00	nos	Supplying and fixing of 40mm UPVC PIPE COLURE (UPVC pipe jointer) from pump to upvc pipe jointer etc., completer complying with standard specification., as directed by the departmental officers.	800.00	Rm	1600
86	650.00	Rm	Supplying and erection of submersible wire 3X4 sq.mm cable pvc insulated SC unsheathed copper conductor of 1100v grade wire ISI make including erection in side the bore well and open run of clamping etc., completer complying with standard specification., as directed by the departmental officers. (as per twad board a SOR 2017-18 Page number 115 of si no 1)	68.00	Rm	44200
87	2.00	nos	Supplying and fixing of 40mm GM Non Return valve with ISI make including Cost of shellac thread etc., etc., completer complying with standard specification., as directed by the departmental officers.	700.00	Rm	1400
88	2.00	nos	Supplying and fixing of best quality 40mm MS clampset (heavy) including bolt nut etc.,complete complying with standard specification., as directed by the departmental officers.	900.00	Rm	1800
89	4.00	nos	Supplying and fixing in position first quality and approved variety Gun Metal Gate valve (Heavy type)/ Wheel Valve (Heavy Duty) with ISI Mark of approved quality of the following dia including cost of shellac, thread, labour charges for cutting, threading,fixing in position etc., for both internal and external water supply arrangements.	889.28	Rm	3557
	I		Civil work value			69821432
90	II		Electrical work value			4138776
			Grant Total			73960208
			Add GST @ 12 % (Civil works + Electrical works)			8875225
			Total value work			82835433
			LS PROVISIONS			
91	LS		Provision for Soil Investigation charges	LS		30650
92	LS		Provision for Rain water harvesting arrangements	LS		100000
93	LS		Provision for Finishing the elevation and Entrance door arrangements	LS		400000
94	LS		Provision for Hostel and Library Cub board,furniture arrangements	LS		800000
95	LS		Provision for kitchen equipments & Dining table arrangements	LS		500000
96	LS		For Advertisement Charges	LS		100000
97	LS		Provision for foundation stone laying and inaugural function	LS		13000
98	LS		Provision for Labour welfare fund at 1.00%	LS		865280
99	LS		Provision for Petty supervision charges, 1.25 %	LS		828000
100	LS		Provision for unforeseen items	LS		55637
			TOTAL			86528000
RUPEES EIGHT HUNDRED AND SIXTY FIVE LAKHS AND TWENTY EIGHT THOUSAND ONLY						

