

INDIRA GANDHI AGRICULTURE UNIVERSITY

BILL OF QUANTITY OF REMAINING & EXTENSION WORKS OF ADMINISTRATIVE BUILDING FOR I.G.K.V. AT RAIPUR (C.G.)

ABSTRACT SHEET

S.NO.	PARTICULARES	TOTAL AMOUNT
	SOR ITEMS	
1	ESTIMATED COST OF GROUND FLOOR (1nos septic tank, inner & outer wall painting work except putty, granite door frame , aluminium window, open courtyard pathway and planter, porch and ramp, collapsible gate etc + plinth protection+ sanitary works)	
2	ESTIMATED COST OF FIRST FLOOR (Complete civil and finishing work of left and right wing) + inner & outer wall painting work, putty on new wing ,granite door frame, aluminium window and collapsible gate etc + sanitary works)	
3	ESTIMATED COST OF SECOND FLOOR (STAIRCASE TOWER, TERRACE FLOORING & WATER PROOFING) (inner & outer wall painting work ,granite door frame , aluminium window, collapsible gate etc + sanitary works)	
4	ESTIMATED COST OF ELECTRICAL WORKS GROUND FLOOR + FIRST FLOOR + SECOND FLOOR	
5	ESTIMATED COST OF FIRE FIGHTING SYSTEM AND U.G.TANK	
6	ESTIMATED COST OF BOREWELL, RAIN WATER HARVESTING SYSTEM,	
7	ESTIMATED COST OF 2 NOS LIFT	
8	ESTIMATED COST OF SITE DEVELOPMENT WORKS (C.C.ROAD & PAVER BLOCK, EXTERNAL LED STREET LIGHT (32 nos)	
SOR ITEM TOTAL ESTIMATED COST (A)		
	(NON SOR ITEMS)	
9	ESTIMATED COST OF 500 KVA SUBSTATION - complete work	
10	ESTIMATED COST OF FALSE CEILING , WALL PANELLING WORK, LED LIGHTS & OTHER WORKS	
11	ESTIMATED COST OF SANITARY WORKS 1. GROUND FLOOR + FIRST FLOOR + SECOND FLOOR	
NON SOR ITEM TOTAL ESTIMATED COST (B)		
TOTAL ESTIMATED COST (A+B)		

INDIRA GANDHI AGRICULTURE UNIVERSITY

**BOQ OF GROUND FLOOR REMAINING WORKS OF ADMINISTRATIVE BUILDING FOR I.G.K.V.
AT RAIPUR (C.G.)**

ABSTRACT SHEET

[As per P.W.D.- Building S.O.R. in Force From 1 Jan. 2015]

S.N	PARTICULARES	AMOUNT	
	GROUND FLOOR BUILDING WORKS		
1	ESTIMATED COST OF CIVIL WORK	Rs.	
	1nos septic tank, inner & outer wall painting work except putty, granite door frame, Aluminium window, flooring in open courtyard pathway porch and ramp, collapsible gate etc		
2	ESTIMATE COST OF PLINTH PROTECTION	Rs.	
	TOTAL ESTIMATED COST	Rs.	

REMAINING ESTIMATES OF ADMINISTRATIVE BUILDING FOR I.G.K.V. AT RAIPUR (C.G.)										
ESTIMATE OF GROUND FLOOR REMAINING WORK										
[As per P.W.D.- Building S.O.R. in Force From 1 Jan. 2015]										
S. N.	Code No.	Item Work	No.	Length	B.	D/H	Qty.	Unit	Rate	Amount
2 a	(Page No.-09, Code No.- 1.1.1)	Excavation in all types of soils for all types & size of foundation and drains including disposal of excavated stuff up to 50 m lead & alift up to 1.5 m including dressing and levelling of pits and disposed stuff as directed by Engineer .								
		septik tank	1	3.00	4.00	3.00	36.00			
							36.00	Cu.M.		
3	(P.No.- 11,C.N. 1.18)	Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete.								
		sand for septik tank	1	3.00	4.00	0.15	1.80			
		open courtyard pathway	1	20.00	6.00	0.75	90.00			
							91.80	Cum.		
Shuttering & Formwork										
5	(P.No.- 15,C.N. 2.1.1)	Providing and fixing formwork l/c centering, shuttering, strutting, staging, propping bracing etc. completed including its removal for								
		septik tank	1	3.00	4.00	-	12.00			
			1	11.00	0.125	-	1.38			
		2.1.7 Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)					13.38	sqm.		
PCC & RCC WORK										
6	(P.NO.- 22,C.N. 3.1.3)	Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in foundation, plinth and at ground level excluding cost of form work., (C.N. 3.1.2) 1:3:6 (1 cement : 3 coarse sand : 6graded stone aggregate 40mm nominal size).								
		septik tank	1	3.00	4.00	0.15	1.80			
		for courtyard pathway	2	20.00	6.00	0.10	24.00			
		for porch ramp	2	10.00	7.00	0.10	14.00			
							39.80	Cu.M.		
7	Page no.23,Cod e no. 3.3	3.2 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. 3.2.1 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).								
		septik tank	1	3.00	4.00	0.125	1.50			
		3.2-1 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm					1.50	cum.		

S. N.	Code No.	Item Work	No.	Length	B.	D/H	Qty.	Unit	Rate	Amount
8	Page no.24, Code no. 3.12.1	Providing and placing in position steel reinforcement for R.C.C. work including cutting. Bending, binding etc. complete as per drawings including cost of binding wire and including all wastage etc. complete (3.14.1) T.M.T. BARS	(RCC WORK @ 140KG/CUM.)							
							210.00	K.g.		
9	(P.No.- 24,C.N. 3.13)	Providing and laying damp proof course (upto 50mm thick) with plain cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded crushed stone aggregate 20mm nominal size) including formwork.								
			2	3.00	0.20	0.05	0.06			
			2	4.00	0.20	0.05	0.08			
							0.14	cum.		
10	(P.No.- 24,C.N. 3.15)	Applying a coat of hot bitumen VIG-10 using @ 1.7 kg./sqm on damp proof course after cleaning the surface of brushes and finally with a piece of cloth lightly soaked in kerosine oil.	1	2.80	sqm.	-	2.80	Sqm.		
BRICK WORK										
11	Page no.45, Code no. 7.5	7.5 Brick work with modular fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in foundation and plinth in: 7.5.4 Cement Mortar 1:6 (1 cement : 6 coarse sand)								
		septic tank	2	3.00	0.20	3.000	3.60			
			2	4.00	0.20	3.000	4.80			
		courtyard planter	4	20.00	0.20	0.600	9.60			
							18.00	Cu.M.		
PLASTERING WORK										
12	(P.No.- 103,C.N.11 .3.3)	15mm thick cement plaster on the rough side of single or half brick wall of mix: Outer side of walls.(1:5)								
		septic tank	1	14.00	-	3.00	42.00			
		courtyard planter	8	20.00	-	0.600	96.00			
							138.00	sqm.		
13	(P.No.- 106,C.N.11 .3.2)	12.1 Applying cement slurry on R.C.C. slab or cement concrete work using 2.75 kg/ sqm for receiving cement concrete floor including roughening cleaning etc complete. sqm 34.00	same as qty item no.-15				138.00	sqm.		
DOOR & WINDOW										

S. N.	Code No.	Item Work	No.	Length	B.	D/H	Qty.	Unit	Rate	Amount
14	(P.No.-18,C.N.12.46.2.)	12.46 15 mm thick Table rubbed polished Granite stone slab in risers and treads of steps skirting dado 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 risers and treads of steps and width of stone for skirting and dado shall be equal to the height of skirting & dado and length of 1.0 m). 12.46.2 Granite stone black								
		D	12	6.50	0.55	-	42.90			
		D1	23	6.20	0.55	-	78.43			
		D2	9	6.00	0.55	-	29.70			
		D3	11	5.90	0.55	-	35.70			
		D4	7	4.95	0.35	-	12.13			
		Around lift wall on all floors	3	1.50	3.40	-	15.30			
							214.15	SQM		
B		(C.N. 12.54) Extra for noising in steps and tread of red or white fine dressed and rubbed sand stone.								
		window sill	1	345.00	-	-	345.00			
				345x2 side			690.00	Mtr.		
STEEL & ALUMINIUM WORK										
15	(P.No.-81,C.N.9.17)	9.11 Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2mm and braced with flat iron diagonals 20x5mm size with top and bottom rails of T-iron 40x40x6mm with 38mm steel pulleys complete with bolts, nuts, locking arrangement stoppers, handles including applying a priming coat of red oxide zinc chromate primer.								
		Chanel gate - main door	2	8.00	-	3.00	48.00	sqm		
		Chanel gate - courtyard ent.	4	3.00	-	3.00	36.00	sqm		
							84.00	sqm		

S. N.	Code No.	Item Work	No.	Length	B.	D/H	Qty.	Unit	Rate	Amount
16	(P.No.-85,C.N.9.47)	9.47 Providing and fixing aluminium work for doors, windows, ventilators and partitions made out of extruded aluminium standard sections (main section with minimum 1.5mm thickness) conforming to IS: 733, IS: 1285 mitred and jointed mechanically including aluminium cleats, neoprene weather stripping gasket beveled edge beading, screws duly fixed in wall/ floor with fixing clips or hold fasteners or bolts and nuts as required aluminium sections shall be anodized transparent or dyed to approved shade according to IS: 1868, minimum anodic coating shall be of grade AC-15. (Glazing to be paid for separately:								
	9.47.2+9.48	9.47.2 For shutter of doors, windows & ventilators including providing and making provision for fixing of fitting wherever required including the cost of PVC/ neoprene gasket required (Fittings shall be paid for separately). Kg 338.00 +9.48 Extra for powder coated (minimum 50 micron) aluminium sections instead of anodized. Kg 27.00								
		MAIN GATE & SIDE FIX	2	8.00	-	3.00	48.00			
		MW	2	5.00	-	1.70	17.00			
		MW1	2	4.50	-	1.50	13.50			
		W	78	1.80	-	1.50	210.60			
		W1	4	1.05	-	1.50	6.30			
		V	20	1.00	-	0.60	12.00			
		V1	14	0.60	-	0.60	5.04			
							312.44	sqm		
						10KG/SQM	3124.40	Kg.		
17A	(P.No.-91,C.N.9.51)	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete. (Cost of aluminium snap beading shall be paid in basic item):								
	(C.N. 9.51.2)	With float glass panes of 5 mm thickness								
		MAIN GATE & SIDE FIX	2	8.00	-	3.00	48.00			
		MW	2	5.00	-	1.70	17.00			
		MW1	2	4.50	-	1.50	13.50			
		W	78	1.80	-	1.50	210.60			
		W1	4	1.05	-	1.50	6.30			
		V	20	1.00	-	0.60	12.00			
		V1	14	0.60	-	0.60	5.04			
							312.44	Sqm.		
17B	C.N.-9.34	Providing and fixing stainless wire gauge of average width of aperture 1.56mm with wire of 0.35mm to existing steel door, window shutter frames with necessary M.S. strip beading etc. complete.					312.44	Sqm.		

S. N.	Code No.	Item Work	No.	Length	B.	D/H	Qty.	Unit	Rate	Amount
18	(P.No.-116C.N.12.36)	12.36 Chequered terrazzo tiles 22 mm thick with graded marble chips of size upto 6mm in floors on 25mm thick bed of cement mortar 1:6 (1 cement : 6 coarse sand) jointed with neat cement slurry mixed with pigment to match the shade of tiles including grinding rubbing and polishing complete. 12.36.1 Light shade using white cement								
		porch ramp	2	10.00	7.00	-	140.00			
		building open courtyard	2	20.00	6.00	-	240.00			
							380.00	Sq.M.		
19	(P.No.-86C.N.9.57.2)	9.57 Providing stainless steel railing/ grill made of S.S. flats, hollow S.S. pipe or square/ rectangular sections of approved design fixing in stair case, balcony or other places with metal fasteners and stainless steel bolts etc complete. 9.57.2 SS Grade 304								
		staircase	2	10.00	x	@5kg/Rmt.	100.00	kg		
							100.00	Sq.M.		
<u>PAINTING WORK</u>										
20	(P.NO-133,C.N.14.11.1.)	14.11 Wall painting with acrylic luxury emulsion (plastic) paint of required shade to give an even shade. 14.11.1 On new work (two or more coats)								
		INNER WALL								
		porch	4	8.40	-	1.50	50.40			
			2	6.00	-	1.50	18.00			
			2	3.00	-	1.50	9.00			
		verendah	2	4.00	-	3.50	28.00			
			2	2.00	-	3.50	14.00			
			2	8.00	-	3.50	56.00			
			2	6.20	-	3.50	43.40			
		ent lobby	4	8.00	-	3.50	112.00			
			2	12.20	-	3.50	85.40			
			2	9.20	-	3.50	64.40			
		staircase	4	8.00	-	3.50	112.00			
			4	6.00	-	3.50	84.00			
		passage	2	204.00	-	3.50	1428.00			
			2	3.00	-	3.50	21.00			
		waiting	6	3.30	-	3.50	69.30			
			6	6.00	-	3.50	126.00			
		director des/ddr/rm	6	6.80	-	3.50	142.80			
			6	6.00	-	3.50	126.00			
		pantry/drinking water	6	3.50	-	3.50	73.50			
			6	3.00	-	3.50	63.00			
		toilet	6	2.50	-	3.50	52.50			
			6	3.00	-	3.50	63.00			
		conference hall	6	9.20	-	3.50	193.20			
			6	6.00	-	3.50	126.00			
		gents toilet	8	3.30	-	3.50	92.40			
			8	6.00	-	3.50	168.00			
		ladies toilet	8	2.50	-	3.50	70.00			
			8	6.00	-	3.50	168.00			

S. N.	Code No.	Item Work	No.	Length	B.	D/H	Qty.	Unit	Rate	Amount
		cabin	6	3.30	-	3.50	69.30			
			6	6.00	-	3.50	126.00			
		cabin/adr	12	3.30	-	3.50	138.60			
			12	5.15	-	3.50	216.30			
		cabin/ddr	12	5.00	-	3.50	210.00			
			12	5.15	-	3.50	216.30			
		toilet	12	2.40	-	3.50	100.80			
			12	1.60	-	3.50	67.20			
		hall	6	6.00	-	3.50	126.00			
			6	13.80	-	3.50	289.80			
			2	6.00	-	3.50	42.00			
			2	17.30	-	3.50	121.10			
		examination hall	2	17.30	-	3.50	121.10			
			2	6.00	-	3.50	42.00			
		store	6	6.00	-	3.50	126.00			
			6	3.30	-	3.50	69.30			
			2	6.00	-	3.50	42.00			
			2	6.80	-	3.50	47.60			
			4	2.80	-	3.50	39.20			
			4	3.30	-	3.50	46.20			
		section officer	6	3.00	-	3.50	63.00			
			6	3.30	-	3.50	69.30			
		restaurant	2	17.30	-	3.50	121.10			
			2	6.00	-	3.50	42.00			
		kitchen	2	7.20	-	3.50	50.40			
			2	3.50	-	3.50	24.50			
		pantry	2	3.00	-	3.50	21.00			
			2	2.30	-	3.50	16.10			
		store	2	4.00	-	3.50	28.00			
			2	2.30	-	3.50	16.10			
		wash	2	1.80	-	3.50	12.60			
			2	3.50	-	3.50	24.50			
		toilet	2	1.50	-	3.50	10.50			
			2	2.50	-	3.50	17.50			
							6432.70	sqm.		
	deduction	MD	2	2.50	-	2.50	12.50			
		D	12	1.80	-	2.50	54.00			
		D1	35	1.20	-	2.50	105.00			
		D2	25	1.00	-	2.50	62.50			
		D3	30	0.75	-	2.10	47.25			
		W	80	1.80	-	1.50	216.00			
		V	80	0.90	-	0.45	32.40			
							529.65			
						net	5903.05			
		ceiling								
		porch	1	8.40	6.00	-	50.40			
			1	8.40	3.00	-	25.20			
		verendah	1	4.00	2.00	-	8.00			
			1	8.00	6.20	-	49.60			
		ent lobby	1	8.00	12.20	-	97.60			
			1	8.00	9.20	-	73.60			
		staircase	2	8.00	6.00	-	96.00			
		passage	1	204.00	3.00	-	612.00			
		waiting	3	3.30	6.00	-	59.40			
		director des/ddr/rm	3	6.80	6.00	-	122.40			
		pantry/drinking water	3	3.50	3.00	-	31.50			
		toilet	3	2.50	3.00	-	22.50			
		conference hall	3	9.20	6.00	-	165.60			

S. N.	Code No.	Item Work	No.	Length	B.	D/H	Qty.	Unit	Rate	Amount
		gents toilet	4	3.30	6.00	-	79.20			
		ladies toilet	4	2.50	6.00	-	60.00			
		cabin	3	3.30	6.00	-	59.40			
		cabin/adr	6	3.30	5.15	-	101.97			
		cabin/ddr	6	5.00	5.15	-	154.50			
		toilet	6	2.40	1.60	-	23.04			
		hall	3	6.00	13.80	-	248.40			
			1	6.00	17.30	-	103.80			
		examination hall	1	17.30	6.00	-	103.80			
		store	3	6.00	3.30	-	59.40			
			1	6.00	6.80	-	40.80			
			2	2.80	3.30	-	18.48			
		section officer	3	3.00	3.30	-	29.70			
		restaurant	1	17.30	6.00	-	103.80			
		kitchen	1	7.20	3.50	-	25.20			
		pantry	1	3.00	2.30	-	6.90			
		store	1	4.00	2.30	-	9.20			
		wash	1	1.80	3.50	-	6.30			
		toilet	1	1.50	2.50	-	3.75			
		chajja	1	475.00	0.60	-	285.00			
							2936.44	sqm.		
						net	8839.49	sqm.		
21	(P.NO.-133,C.N.14.12)	14.12 Applying one coat of cement primer on wall surface (applied @ 0.80 litrs/10 sqm) complete.					8839.49	sqm.		
22	(P.NO.-133,C.N.14.17.1)	Painting new exterior surface with PREMIUM TEXTURED PAINT On new work (Two or more coats) For Exterior	1	475.00	-	3.63	1721.88			
							1721.88	sqm.		
	deduction	MD	2	3.00	-	2.50	15.00			
		MW	2	5.00	-	1.70	17.00			
		MW1	2	4.50	-	1.50	13.50			
		W	78	1.80	-	1.50	210.60			
		W1	4	1.05	-	1.50	6.30			
		V	20	1.00	-	0.60	12.00			
		V1	14	0.60	-	0.60	5.04			
							279.44			
						net	1442.44	sqm.		
23	Page no. 11,Code no.1.1.19	1.19 Providing filling and compacting local earth (from approved source pit) in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete.								
a		22.20 Filling mixture of earth and sludge or manure in the desired proportion in trenches, flooding with water and leveling (cost of supplying earth and sludge or manure and mixing excluded). cum 5.50	1	0	SQM	0.60		Cu.M.		

S. N.	Code No.	Item Work	No.	Length	B.	D/H	Qty.	Unit	Rate	Amount
b		Supplying and stacking of good earth at site including royalty, loading, unloading and carriage upto 10 km (earth measured in stacks will be reduced by 20% for payment).	1	0	SQM	0.60		Cu.M.		
		for building open courtyard	1	700	sqm	0.60	420.00			
							420.00	Cu.M.		
24	(P.NO.-134,C.N.14.22)	14.22 Painting on new work (two or more coats) to give an even shade with: 14.22.1 Satin synthetic enamel paint	2 COAT OF GRILL				312.44			
			2x 440.69				624.88	Sq.M.		
									Total Rs.	
Total Cost of GROUND FLOOR									Say Rs.	
Note: - Any item may be changed at the time of execution of work with prior permission of superintendent physical plant as per site and other condition										

DETAIL ESTIMATE OF PLINTH PROTECTION

[As per P.W.D.- Building S.O.R. in Force From JAN 2015]

S.N.	Code No.	Item Work	No.	Length	B.	D/H	Qty.	Unit	Rate	Amount
1	(Page No.-09, Code No.- 1.1.1)	Excavation in all types of soils for all types & size of foundation and drains including disposal of excavated stuff up to 50 m lead & alift up to 1.5 m including dressing and levelling of pits and disposed stuff as directed by Engineer .								
			120	1.20	1.20	1.80	311.04			
							311.04	Cu.M.		
2	(P.No.- 11,C.N. 1.18)	Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete.								
		Sand filling-foundation	120	1.2	1.2	0.10	17.3			
		moorum filling for plinth protection	1	350.0	1.2	0.90	378.0			
							17.28	Cum.		
Shuttering & Formwork										
3	(Page No.- 16, Code No.- 2.1.1)	Providing and fixing formwork l/c centering, shuttering, strutting, staging, propping bracing etc. completed including its removal for								
		foundation	120	1.20	-	0.30x4	172.80			
		column	120	0.80	-	1.80	172.80			
		For plinth beam	1	350.00	-	0.30x2	210.00			
							555.60	Sq.M.		
PCC & RCC WORK										
4	(P.NO.- 22,C.N. 3.1.3)	Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in foundation, plinth and at ground level excluding cost of form work., (C.N. 3.1.2) 1:3:6 (1 cement : 3 coarse sand : 6graded stone aggregate 40mm nominal size).								
		for foundation	120	1.20	1.20	0.10	17.28			
		for plinth protection	1	350.00	1.20	0.10	42.00			
							59.28	Cu.M.		

5	Page no.23, Code no. 3.3.1	Providing and laying mechanically mixed reinforced cement concrete excluding centering shuttering and reinforcement in foundations, plinth and in superstructure upto a height of 4.0m above plinth level. (3.4.2) M-20							
		foundation	120	1.2	1.2	0.2	34.56		
		Column	120	0.2	0.2	1.8	8.64		
		beam	1	350.00	0.20	0.30	21.00		
							64.20	cum.	
6	Page no.24, Code no. 3.12.1	Providing and placing in position steel reinforcement for R.C.C. work including cutting. Bending, binding etc. complete as per drawings including cost of binding wire and including all wastage etc. complete (3.14.1) T.M.T. BARS	(RCC WORK @ 100KG/CUM.)						
							6420.00	K.g.	
BRICK WORK									
7	Page no.45, Code no. 7.5	7.5 Brick work with modular fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in foundation and plinth in: 7.5.4 Cement Mortar 1:6 (1 cement : 6 coarse sand)	1	350.00	0.20	0.90	63.00		
							63.00	Cu.M.	
PLASTERING WORK									
8	(P.No.- 103,C.N.1 1.3.3)	15mm thick cement plaster on the rough side of single or half brick wall of mix: Outer side of walls.(1:5)	1	350.00	-	0.90	315.00		
							315.00	sqm.	
9	(P.No.- 116,C.N.1 2...36)	12.36 Chequered terrazzo tiles 22 mm thick with graded marble chips of size upto 6mm in floors on 25mm thick bed of cement mortar 1:6 (1 cement : 6 coarse sand) jointed with neat cement slurry mixed with pigment to match the shade of tiles including grinding rubbing and polishing complete.	1	350.00	1.20	-	420.00		
							420.00	Sq.M.	
Total Cost of Plinth Protection								Total Rs.	
								Say Rs.	

Note: - Any item may be changed at the time of execution of work with prior permission of superintendent physical plant as per site and other condition

INDIRA GANDHI AGRICULTURE UNIVERSITY

**BOQ OF FIRST FLOOR REMAINING WORKS OF ADMINISTRATIVE BUILDING FOR I.G.K.V. AT
RAIPUR (C.G.)**

ABSTRACT SHEET

[As per P.W.D.- Building S.O.R. in Force From 1 Jan. 2015]

S.N	PARTICULARES	AMOUNT	
	FIRST FLOOR BUILDING WORKS		
1	ESTIMATED COST OF CIVIL WORK (LEFT&RIGHT WING EXTENSION)	Rs.	
2	ESTIMATE COST OF REMAINING FINISHING WORK	Rs.	
	inner & outer wall painting work putty on new wing ,granite door frame , Aluminium window and collapsible gate etc		
	TOTAL ESTIMATED COST	Rs.	

INDIRA GANDHI AGRICULTURE UNIVERSITY										
DETAILED ESTIMATE OF EXTENSION WORK OF FIRST FLOOR (LEFT & RIGHT WING)										
[As per P.W.D.- Building S.O.R. in Force From 1 Jan. 2015]										
S. N.	Code No.	Item Work	No.	Length	B.	D/H	Qty.	Unit	Rate	Amount
Shuttering & Formwork										
1	(P.No.- 15,C.N. 2.1.1)	Providing and fixing formwork l/c centering, shuttering, strutting, staging, propping bracing etc. completed including its removal for								
		For Column's lintel to slab lvl.								
		C1	6	1.20	-	1.00	7.20			
		C2	18	1.40	-	1.00	25.20			
		C3	40	1.50	-	1.00	60.00			
		C4	8	1.60		1.00	12.80			
		C5	4	1.80		1.00	7.20			
		2.1.5 Columns, Pillars, Piers and likes- rectangular or square in shape.					112.40	sqm.		
		For lintel beam								
	200X200	LB1	13	3.20	-	0.20x2	16.64			
			27	3.50	-	0.20x2	37.80			
			2	4.50	-	0.20x2	3.60			
	200X300	LB3	12	3.20	-	0.30x2	23.04			
			30	3.50	-	0.30X2	63.00			
			4	4.50	-	0.30X2	10.80			
	100X300	LB4	14	3.20	-	0.30x2	26.88			
		main slab beam at 3.50m lvl.								
	100X400	SB0	14	3.50	-	0.40x2+0.10	44.10			
	200X450	SB2	30	3.20	-	0.450x2+0.20	105.60			
		SB2	50	3.50	-	0.450x2+0.20	192.50			
	200X450	SB3	11	3.50	-	0.450x2+0.20	42.35			
	200X450	SB4	23	3.50	-	0.450x2+0.20	88.55			
		SB4	4	4.70	-	0.450x2+0.20	20.68			
	300X450	SB5	9	6.00	-	0.450x2+0.30	64.80			
	300X600	SB7	2	4.70	-	0.60x2+0.30	14.10			
	300X600	SB8	4	9.40	-	0.60x2+0.30	56.40			
	300X450	CB	14	0.60	-	0.60x2+0.30	12.60			
		2.1.8 Beams, lintels, cantilevers & walls					823.44	sqm.		
		main slab	1	780.00	sqm	-	780.00			
			1	178.00	-	0.125	22.25			
		chajja	1	110.00	0.60	-	66.00			
			1	110.00	-	0.100	11.00			
		2.1.7 Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)					879.25	sqm.		
RCC WORK										

S. N.	Code No.	Item Work	No.	Length	B.	D/H	Qty.	Unit	Rate	Amount
2	Page no.23, Code no. 3.3	3.2 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. 3.2.1 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).								
		For Column's lintel to slab lvl.								
		C1	6	0.30	0.30	1.00	0.54			
		C2	18	0.30	0.40	1.00	2.16			
		C3	40	0.30	0.45	1.00	5.40			
		C4	8	0.30	0.50	1.00	1.20			
		C5	4	0.30	0.60	1.00	0.72			
		For lintel beam								
	200X200	LB1	13	3.20	0.20	0.20	1.66			
			30	3.50	0.20	0.20	4.20			
			2	4.50	0.20	0.20	0.36			
	200X300	LB3	12	3.20	0.20	0.30	2.30			
			24	3.50	0.20	0.30	5.04			
			4	4.50	0.20	0.30	1.08			
	100X300	LB4	14	3.50	0.10	0.30	1.47			
		main slab beam at 3.50m lvl.								
	100X400	SB0	14	3.50	0.10	0.40	1.96			
	200X450	SB2	30	3.20	0.20	0.45	8.64			
		SB2	50	3.50	0.20	0.45	15.75			
	200X450	SB3	11	3.50	0.20	0.45	3.47			
	200X450	SB4	23	3.50	0.20	0.45	7.25			
		SB4	4	4.70	0.20	0.45	1.69			
	300X450	SB5	9	6.00	0.30	0.45	7.29			
	300X600	SB7	2	4.70	0.20	0.60	1.13			
	300X600	SB8	4	9.40	0.30	0.60	6.77			
	300X450	CB	14	0.60	0.30	0.45	1.13			
		main slab	1	780.00	sqm	0.125	97.50			
		chajja	1	160.00	0.60	0.10	9.60			
		3.2.-1 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).					188.31	cum.		
3	Page no.24, Code no. 3.12.1	Providing and placing in position steel reinforcement for R.C.C. work including cutting. Bending, binding etc. complete as per drawings including cost of binding wire and including all wastage etc. complete (3.14.1) T.M.T. BARS	(RCC WORK @ 120KG/CUM.)							

S. N.	Code No.	Item Work	No.	Length	B.	D/H	Qty.	Unit	Rate	Amount
							22597.20	K.g.		
4	(P.No.- 24,C.N. 3.13)	Providing and laying damp proof course (upto 50mm thick) with plain cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded crushed stone aggregate 20mm nominal size) including formwork.								
			13	3.20	0.20	0.05	0.42			
			30	3.50	0.20	0.05	1.05			
			2	4.50	0.20	0.05	0.09			
			12	3.20	0.20	0.05	0.38			
			24	3.50	0.20	0.05	0.84			
			4	4.50	0.20	0.05	0.18			
			14	3.50	0.10	0.05	0.25			
			14	0.60	0.20	0.05	0.08			
							3.29	cum.		
5	(P.No.- 24,C.N. 3.15)	Applying a coat of hot bitumen VIG-10 using @ 1.7 kg./sqm on damp proof course after cleaning the surface of brushes and finally with a piece of cloth lightly soaked in kerosine oil.								
			1	66.00	sqm.	-	66.00	Sqm.		
	BRICK WORK									
6	(P.No.- 45,(C.N. 7.5+7.54)	7.5 Brick work with modular fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in foundation and plinth in: 7.5.4 Cement Mortar 1:6 (1 cement : 6 coarse sand)+7.6 Extra for brick work in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:								
		Superstructure								
			13	3.20	0.20	3.50	29.12			
			30	3.50	0.20	3.50	73.50			
			2	4.50	0.20	3.50	6.30			
			12	3.20	0.20	3.50	26.88			
			24	3.50	0.20	3.50	58.80			
			4	4.50	0.20	3.50	12.60			
			14	3.50	0.10	3.50	17.15			
			14	0.60	0.20	3.50	5.88			

S. N.	Code No.	Item Work	No.	Length	B.	D/H	Qty.	Unit	Rate	Amount
							230.23	sqm.		
	deduction									
		D	4	1.50	0.20	2.50	3.00			
		D1	3	1.20	0.20	2.50	1.80			
		D2	4	1.00	0.20	2.50	2.00			
		D3	4	0.90	0.20	2.50	1.80			
		W	34	1.80	0.20	1.50	18.36			
						(-)	26.96			
						net	203.27	cum.		
PLASTERING WORK										
7	(P.No.-103,C.N.11.3.3)	15mm thick cement plaster on the rough side of single or half brick wall of mix: Outer side of walls.(1:5)								
		outer wall	1	160.00	-	3.63	580.00			
	deduction						580.00	sqm.		
		W	34	1.80	-	1.50	91.80			
							91.80			
						net	488.20	sqm.		
8	Page no.103,Code no. 11.2.3	12mm thick cement plaster of inner side of walls.(1:5)								
		passage	4	27.60	-	3.50	386.40			
		hall	16	13.80	-	3.50	772.80			
			14	6.00	-	3.50	294.00			
			2	9.00	-	3.50	63.00			
		store	4	3.30	-	3.50	46.20			
			2	6.00	-	3.50	42.00			
			2	9.00	-	3.50	63.00			
		store/section officer	12	3.00	-	3.50	126.00			
			16	3.30	-	3.50	184.80			
			4	4.40	-	3.50	61.60			
							2039.80	sqm.		
		D	4	1.50	-	2.50	15.00			
		D1	3	1.20	-	2.50	9.00			
		D2	4	1.00	-	2.50	10.00			
		D3	4	0.90	-	2.50	9.00			
		W	34	1.80	-	1.50	91.80			
							134.80			
						net	1905.00	sqm.		
9	(P.No.-103,C.N.11.1.1)	Ceiling plaster 6mm thick cement plaster In Cement mortar 1:3 (1 cement : 3 fine sand)								
		passage	2	41.00	3.00	-	246.00			
		hall	3	13.80	6.00	-	248.40			

S. N.	Code No.	Item Work	No.	Length	B.	D/H	Qty.	Unit	Rate	Amount
			1	13.80	9.00	-	124.20			
		store	2	3.30	6.00	-	39.60			
			1	3.30	9.00	-	29.70			
		store /section officer	6	3.30	3.00	-	59.40			
		store /section officer	2	4.40	3.30	-	29.04			
		chajja	1	160.00	0.60	-	96.00			
							872.34	sqm.		
10	(P.No.- 106,C.N.11 .32)	12.1 Applying cement slurry on R.C.C. slab or cement concrete work using 2.75 kg/ sqm for receiving cement concrete floor including roughening cleaning etc complete. sqm 34.00								
			same as qty item no.-9				872.34	sqm.		
11	(P.No.- 106,C.N.11 .32)	moulded mortar band in cement mortar 1:4 per cm width a(18mm thick)	3	160.00	-	-	480.00	Mtr.		
DOOR & WINDOW										
12	(P.No.- 18,C.N.12. 46.2.)	12.46 15 mm thick Table rubbed polished Granite stone slab in risers and treads of steps skirting dado 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 risers and treads of steps and width of stone for skirting and dado shall be equal to the height of skirting & dado and length of 1.0 m). 12.46.2 Granite stone black								
		D	4	6.50	0.55	-	14.30			
		D1	3	6.20	0.55	-	10.23			
		D2	4	6.00	0.55	-	13.20			
		D3	4	5.90	0.55	-	12.98			
		W	34	6.60	0.30	-	67.32			
A							118.03	SQN		

S. N.	Code No.	Item Work	No.	Length	B.	D/H	Qty.	Unit	Rate	Amount
B		(C.N. 12.54) Extra for noising in steps and tread of red or white fine dressed and rubbed sand stone.								
		window sill	1	320.00	-	-	320.00			
				320x2 side			640.00	Mtr.		
STEEL & ALUMINIUM WORK										
13	(P.No.- 81,C.N.9.1 5)	Providing and fixing M.S. grill of approved pattern made of M.S. flats or square or round bars welded to steel frame of windows etc. including applying a priming coat of red oxide zinc chromate primer..								
		window/Ventilator grill								
			W 34	1.80	-	1.50	91.80			
							91.80	sqm		
			@30 Kg./sqm				2754.00	K.g.		
14	(P.No.- 85,C.N.9.4 7)	9.47 Providing and fixing aluminium work for doors, windows, ventilators and partitions made out of extruded aluminium standard sections (main section with minimum 1.5mm thickness) conforming to IS: 733, IS: 1285 mitred and jointed mechanically including aluminium cleats, neoprene weather stripping gasket beveled edge beading, screws duly fixed in wall/ floor with fixing clips or hold fasteners or bolts and nuts as required aluminium sections shall be anodized transparent or dyed to approved shade according to IS: 1868, minimum anodic coating shall be of grade AC-15. (Glazing to be paid for separately:								

S. N.	Code No.	Item Work	No.	Length	B.	D/H	Qty.	Unit	Rate	Amount
a	9.47.2+9.48	9.47.2 For shutter of doors, windows & ventilators including providing and making provision for fixing of fitting wherever required including the cost of PVC/ neoprene gasket required (Fittings shall be paid for separately). Kg 338.00 +9.48 Extra for powder coated (minimum 50 micron) aluminium sections instead of anodized. Kg 27.00								
		DOOR	4	1.80	-	2.50	18.00			
		W	34	1.80	-	1.50	91.80			
							109.80	sqm		
			10KG/SQM				1098.00	Kg.		
b	(P.No.-91,C.N.9.51)	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete. (Cost of aluminium snap beading shall be paid in basic item):								
	(C.N. 9.51.2)	With float glass panes of 5 mm thickness								
		DOOR	4	1.80	-	2.50	18.00			
		W	34	1.80	-	1.50	91.80			
							109.80	Sqm.		
c	C.N.-9.34	Providing and fixing stainless wire gauge of average width of aperture 1.56mm with wire of 0.35mm to existing steel door, window shutter frames with necessary M.S. strip beading etc. complete.								
							109.80	Sqm.		
FLOORING WORK(STONE, TILES)										

S. N.	Code No.	Item Work	No.	Length	B.	D/H	Qty.	Unit	Rate	Amount
15	(P.No.-112,C.N.12.12)	Providing and laying vitrified floor tiles with double charges printing, of size 600x600mm with water absorption less than 0.5% and conforming to IS : 15622 of approved make, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc. complete:								
		passage	2	27.60	3.00	-	165.60			
		passage wall	4	41.00	-	1.50	246.00			
		hall	3	13.80	6.00	-	248.40			
			1	13.80	9.00	-	124.20			
		store	2	3.30	6.00	-	39.60			
			1	3.30	9.00	-	29.70			
		store /section officer	6	3.30	3.00	-	59.40			
		store /section officer	2	4.40	3.30	-	29.04			
		skirting	1	455.00	-	0.15	68.25			
							1010.19	Sqm.		
PAINTING WORK										
16	(P.NO-133,C.N.14.13,)	Providing and applying 2mm thick ready mix interior grade putty (Birla wall care, Alltek Superfine W/R of (NCL), J.K. wall putty) on walls to make the surface smooth and even.	same as item no. -8+9				2777.34	sqm.		
17	(P.NO-133,C.N.14.11.1.)	14.11 Wall painting with acrylic luxury emulsion (plastic) paint of required shade to give an even shade. 14.11.1 On new work (two or more coats)	same as item no. -8+9				2777.34	sqm.		
18	(P.NO-133,C.N.14.12)	14.12 Applying one coat of cement primer on wall surface (applied @ 0.80 litrs/10 sqm) complete.	same as item no. -8+9				2777.34	sqm.		
19	(P.NO-133,C.N.14.17.1)	Painting new exterior surface with PREMIUM TEXTURED PAINT On new work (Two or more coats) For Exterior	same as item no. -7				488.20	sqm.		

S. N.	Code No.	Item Work	No.	Length	B.	D/H	Qty.	Unit	Rate	Amount
20	(P.NO.-134,C.N.14.22)	14.22 Painting on new work (two or more coats) to give an even shade with: 14.22.1 Satin synthetic enamel paint	2x as item no-14				91.80			
							183.60	Sq.M.		
									Total Rs.	
Total Cost of First Floor									Say Rs.	
Note: - Any item may be changed at the time of execution of work with prior permission of superintendent physical plant as per site and other condition										

REMAINING ESTIMATES OF ADMINISTRATIVE BUILDING FOR I.G.K.V. AT RAIPUR (C.G.)										
ESTIMATE OF FIRST FLOOR REMAINING WORK										
[As per P.W.D.- Building S.O.R. in Force From 1 Jan. 2015]										
S. N.	Code No.	Item Work	No.	Length	B.	D/H	Qty.	Unit	Rate	Amount
DOOR										
1	(P.No.- 18,C.N.12. 46.2.)	12.46 15 mm thick Table rubbed polished Granite stone slab in risers and treads of steps skirting dado 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 risers and treads of steps and width of stone for skirting and dado shall be equal to the height of skirting & dado and length of 1.0 m). 12.46.2 Granite stone black								
		D	8	6.50	0.55	-	28.60			
		D1	20	6.20	0.55	-	68.20			
		D2	5	6.00	0.55	-	16.50			
		D3	7	5.90	0.55	-	22.72			
		D4	6	4.95	0.35	-	10.40			
A							146.41	SQM		
B		(C.N. 12.54) Extra for noising in steps and tread of red or white fine dressed and rubbed sand stone.								
			1	250.00	-	-	250.00			
				250x2 side			500.00	Mtr.		

S. N.	Code No.	Item Work	No.	Length	B.	D/H	Qty.	Unit	Rate	Amount
2	(P.No.-112,C.N.12.12)	Providing and laying vitrified floor tiles with double charges printing, of size 600x600mm with water absorption less than 0.5% and conforming to IS : 15622 of approved make, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc. complete:								
		passage wall	4	62.00	-	1.50	372.00			
							372.00	sqm.		
STEEL & WINDOW WORK										
3	(P.No.-81,C.N.9.17)	9.11 Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2mm and braced with flat iron diagonals 20x5mm size with top and bottom rails of T-iron 40x40x6mm with 38mm steel pulleys complete with bolts, nuts, locking arrangement stoppers, handles including applying a priming coat of red oxide zinc chromate primer.								
		Chanel gate	2	3.00	-	3.00	18.00	sqm		
							18.00	sqm		

S. N.	Code No.	Item Work	No.	Length	B.	D/H	Qty.	Unit	Rate	Amount
4	(P.No.-85,C.N.9.47)	9.47 Providing and fixing aluminium work for doors, windows, ventilators and partitions made out of extruded aluminium standard sections (main section with minimum 1.5mm thickness) conforming to IS: 733, IS: 1285 mitred and jointed mechanically including aluminium cleats, neoprene weather stripping gasket beveled edge beading, screws duly fixed in wall/ floor with fixing clips or hold fasteners or bolts and nuts as required aluminium sections shall be anodized transparent or dyed to approved shade according to IS: 1868, minimum anodic coating shall be of grade AC-15. (Glazing to be paid for separately:								
a	9.47.2+9.48	9.47.2 For shutter of doors, windows & ventilators including providing and making provision for fixing of fitting wherever required including the cost of PVC/ neoprene gasket required (Fittings shall be paid for separately). Kg 338.00 +9.48 Extra for powder coated (minimum 50 micron) aluminium sections instead of anodized. Kg 27.00								
		MAIN GATE & SIDE FIX	2	8.00	-	3.00	48.00			
		MW	2	5.00	-	1.70	17.00			
		MW1	2	4.50	-	1.50	13.50			
		W	44	1.80	-	1.50	118.80			
		W1	4	1.05	-	1.50	6.30			
		V	20	1.00	-	0.60	12.00			
		V1	14	0.60	-	0.60	5.04			
							220.64	sqm		
							2206.40	Kg.		

S. N.	Code No.	Item Work	No.	Length	B.	D/H	Qty.	Unit	Rate	Amount
b	(P.No.-91,C.N.9.5.1)	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete. (Cost of aluminium snap beading shall be paid in basic item):								
	(C.N. 9.51.2)	With float glass panes of 5 mm thickness								
		MAIN GATE & SIDE FIX	2	8.00	-	3.00	48.00			
		MW	2	5.00	-	1.70	17.00			
		MW1	2	4.50	-	1.50	13.50			
		W	44	1.80	-	1.50	118.80			
		W1	4	1.05	-	1.50	6.30			
		V	20	1.00	-	0.60	12.00			
		V1	14	0.60	-	0.60	5.04			
							220.64	Sqm.		
c	C.N.-9.34	Providing and fixing stainless wire gauge of average width of aperture 1.56mm with wire of 0.35mm to existing steel door, window shutter frames with necessary M.S. strip beading etc. complete.								
							220.64	Sqm.		
5	(P.No.-86 C.N.9.57.2)	9.57 Providing stainless steel railing/ grill made of S.S. flats, hollow S.S. pipe or square/ rectangular sections of approved design fixing in stair case, balcony or other places with metal fasteners and stainless steel bolts etc complete. 9.57.2 SS Grade 304								
		staircase	2	10.00	x	@5kg/Rmt.	100.00	kg		
							100.00	Sq.M.		
PAINTING WORK										

S. N.	Code No.	Item Work	No.	Length	B.	D/H	Qty.	Unit	Rate	Amount
6	(P.NO-133,C.N.14.11.1.)	14.11 Wall painting with acrylic luxury emulsion (plastic) paint of required shade to give an even shade. 14.11.1 On new work (two or more coats)								
		INNER AND CEILING PAINT								
		INNER WALL								
		porch	4	17.60	-	1.50	105.60			
			6	7.00	-	1.50	63.00			
		ent lobby	2	8.00	-	3.50	56.00			
			2	12.20	-	3.50	85.40			
		staircase	2	8.00	-	3.50	56.00			
			2	6.00	-	3.50	42.00			
		passage	2	62.00	-	3.50	434.00			
			4	3.00	-	3.50	42.00			
		waiting	4	3.30	-	3.50	46.20			
			4	6.00	-	3.50	84.00			
		director/ddr/rm	4	6.80	-	3.50	95.20			
			4	6.00	-	3.50	84.00			
		pantry/drinking water	4	3.50	-	3.50	49.00			
			4	3.00	-	3.50	42.00			
		toilet	4	2.50	-	3.50	35.00			
			4	3.00	-	3.50	42.00			
		conference hall	4	9.20	-	3.50	128.80			
			4	6.00	-	3.50	84.00			
		gents toilet	4	3.30	-	3.50	46.20			
			4	6.00	-	3.50	84.00			
		ladies toilet	4	2.50	-	3.50	35.00			
			4	6.00	-	3.50	84.00			
		cabin	4	3.30	-	3.50	46.20			
			4	6.00	-	3.50	84.00			
		cabin/adr	8	3.30	-	3.50	92.40			
			8	5.15	-	3.50	144.20			
		cabin/ddr	8	5.00	-	3.50	140.00			
			8	5.15	-	3.50	144.20			
		toilet	8	2.40	-	3.50	67.20			
			8	1.60	-	3.50	44.80			
							2586.40	sqm.		
	deduction									
		D	8	1.50	-	2.50	30.00			
		D1	20	1.20	-	2.50	60.00			
		D2	5	1.00	-	2.50	12.50			
		D3	7	0.90	-	2.50	15.75			
		D4	27	0.75	-	2.10	42.53			
		MAIN GATE & SIDE FIX	2	8.00	-	3.00	48.00			
		MW	2	5.00	-	1.70	17.00			
		MW1	2	4.50	-	1.50	13.50			
		W	44	1.80	-	1.50	118.80			
		W1	4	1.05	-	1.50	6.30			
		V	20	1.00	-	0.60	12.00			

S. N.	Code No.	Item Work	No.	Length	B.	D/H	Qty.	Unit	Rate	Amount
		V1	14	0.60	-	0.60	5.04			
							381.42			
						net	2204.99	sqm.		
		Ceiling								
		ent lobby	1	8.00	12.20	-	97.60			
		staircase	1	8.00	6.00	-	48.00			
		passage	1	62.00	3.00	-	186.00			
		waiting	2	3.30	6.00	-	39.60			
		director / ddr	2	6.80	6.00	-	81.60			
		pantry/drinking water	2	3.50	3.00	-	21.00			
		toilet	2	2.50	3.00	-	15.00			
		conference hall	2	9.20	6.00	-	110.40			
		gents toilet	2	3.30	6.00	-	39.60			
		ladies toilet	2	2.50	6.00	-	30.00			
		cabin	2	3.30	6.00	-	39.60			
		cabin/adr	4	3.30	5.15	-	67.98			
		cabin/ddr	4	5.00	5.15	-	103.00			
		toilet	5	2.40	1.60	-	19.20			
		chajja	1	248.00	0.60	-	148.80			
							1047.38			
						net	3252.37	sqm.		
7	(P.NO.-133,C.N.14.12)	14.12 Applying one coat of cement primer on wall surface (applied @ 0.80 litrs/10 sqm) complete.					3252.37	sqm.		
8	(P.NO.-133,C.N.14.17.1)	Painting new exterior surface with PREMIUM TEXTURED PAINT On new work (Two or more coats) For Exterior	1	248.00	-	3.63	899.00			
							899.00	sqm.		
		MAIN GATE & SIDE FIX	2	8.00	-	3.00	48.00			
		MW	2	5.00	-	1.70	17.00			
		MW1	2	4.50	-	1.50	13.50			
		W	44	1.80	-	1.50	118.80			
		W1	4	1.05	-	1.50	6.30			
		V	20	1.00	-	0.60	12.00			
		V1	14	0.60	-	0.60	5.04			
							220.64			
						net	678.36	sqm.		
9	(P.NO.-134,C.N.14.22)	14.22 Painting on new work (two or more coats) to give an even shade with: 14.22.1 Satin synthetic enamel paint	2 COAT OF GRILL				220.64			
						2x 220.64	441.28	Sq.M.		
Total Cost of FIRST FLOOR									Say Rs.	

S. N.	Code No.	Item Work	No.	Length	B.	D/H	Qty.	Unit	Rate	Amount
Note: - Any item may be changed at the time of execution of work with prior permission of superintendent physical plant as per site and other condition										

INDIRA GANDHI AGRICULTURE UNIVERSITY

**BOQ OF SECOND FLOOR REMAINING WORKS OF ADMINISTRATIVE BUILDING FOR I.G.K.V.
AT RAIPUR (C.G.)**

ABSTRACT SHEET

[As per P.W.D.- Building S.O.R. in Force From 1 Jan. 2015]

S.N	PARTICULARES	AMOUNT	
	BUILDING WORKS		
1	ESTIMATED COST OF SECOND FLOOR (REMAINING WORK)	Rs.	
	inner & outer wall painting work ,granite door frame , Aluminium window, collapsible gate etc		
2	ESTIMATE COST OF STAIRCASE TOWER, TERRACE FLOORING & WATER PROOFING	Rs.	
	TOTAL ESTIMATED COST	Rs.	

ESTIMATES OF ADMINISTRATIVE BUILDING FOR I.G.K.V. AT RAIPUR (C.G.)

ESTIMATE OF SECOND FLOOR REMAINING WORK (FRONT WING)

[As per P.W.D.- Building S.O.R. in Force From 1 Jan. 2015]

S. N.	Code No.	Item Work	No.	Length	B.	D/H	Qty.	Unit	Rate	Amount
DOOR & WINDOW										
1	(P.No.- 18,C.N.12.46.2.)	12.46 15 mm thick Table rubbed polished Granite stone slab in risers and treads of steps skirting dado 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 risers and treads of steps and width of stone for skirting and dado)								
		D	2	6.50	0.55	-	7.15			
		D1	13	6.20	0.55	-	44.33			
		D2	2	6.00	0.55	-	6.60			
		D3	4	5.90	0.55	-	12.98			
		D4	7	4.95	0.35	-	12.13			
							83.19	SQM		
1b		(C.N. 12.54) Extra for noising in steps and tread of red or white fine dressed and rubbed sand stone.								
			1	130.00	-	-	130.00			
				130x2 side			260.00	Mtr.		
STEEL & ALUMINIUM WORK										
2	(P.No.- 81,C.N.9.17)	9.11 Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2mm and braced with flat iron diagonals 20x5mm size with top and bottom rails of T iron 40x40x6mm with 38mm steel pulleys complete with bolts, nuts, locking arrangement stoppers, handles including applying a priming coat of red oxide zinc chromate primer.								
		Chanel gate (2 nos)	2	3.00	-	3.00	18.00	sqm		

S. N.	Code No.	Item Work	No.	Length	B.	D/H	Qty.	Unit	Rate	Amount
3	(P.No.-85,C.N.9.47)	9.47 Providing and fixing aluminium work for doors, windows, ventilators and partitions made out of extruded aluminium standard sections (main section with minimum 1.5mm thickness) conforming to IS: 733, IS: 1285 mitred and jointed mechanically including aluminium cleats, neoprene weather stripping gasket beveled edge beading, screws duly fixed in wall/ floor with fixing clips or hold fasteners or bolts and nuts as required aluminium sections shall be anodized transparent or dyed to approved shade according to IS: 1868, minimum anodic coating shall be of grade AC-15. (Glazing to be paid for separately:								
a	9.47.2+9.48	9.47.2 For shutter of doors, windows & ventilators including providing and making provision for fixing of fitting wherever required including the cost of PVC/ neoprene gasket required (Fittings shall be paid for separately). Kg 338.00 +9.48 Extra for powder coated (minimum 50 micron) aluminium sections instead of anodized. Kg 27.00								
		SIDE FIX	1	8.00	-	3.00	24.00			
		MW	2	5.00	-	1.70	17.00			
		W	20	1.80	-	1.50	54.00			
		W1	2	1.05	-	1.50	3.15			
		V	8	1.00	-	0.60	4.80			
		V1	15	0.60	-	0.60	5.40			
							108.35	sqm		
							1083.50	Kg.		

S. N.	Code No.	Item Work	No.	Length	B.	D/H	Qty.	Unit	Rate	Amount
b	(P.No.-91,C.N.9.51.1)	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete. (Cost of aluminium snap beading shall be paid in basic item):								
	(C.N. 9.51.2)	With float glass panes of 5 mm thickness								
		SIDE FIX	1	8.00	-	3.00	24.00			
		MW	2	5.00	-	1.70	17.00			
		W	20	1.80	-	1.50	54.00			
		W1	2	1.05	-	1.50	3.15			
		V	8	1.00	-	0.60	4.80			
		V1	15	0.60	-	0.60	5.40			
							108.35	Sqm.		
c	C.N.-9.34	Providing and fixing stainless wire gauge of average width of aperture 1.56mm with wire of 0.35mm to existing steel door, window shutter frames with necessary M.S. strip beading etc. complete.								
		SIDE FIX	1	8.00	-	3.00	24.00			
		MW	2	5.00	-	1.70	17.00			
		W	20	1.80	-	1.50	54.00			
		W1	2	1.05	-	1.50	3.15			
		V	8	1.00	-	0.60	4.80			
		V1	15	0.60	-	0.60	5.40			
							108.35	sqm		
4	(P.No.-86 C.N.9.57.2)	9.57 Providing stainless steel railing/ grill made of S.S. flats, hollow S.S. pipe or square/ rectangular sections of approved design fixing in stair case, balcony or other places with metal fasteners and stainless steel bolts etc complete. 9.57.2 SS Grade 304								
		staircase	2	10.00	x	@5kg/Rmt.	100.00	kg		
							100.00	Sq.M.		

S. N.	Code No.	Item Work	No.	Length	B.	D/H	Qty.	Unit	Rate	Amount
PAINTING WORK										
5	(P.NO-133,C.N.1 4.11.1.)	14.11 Wall painting with acrylic luxury emulsion (plastic) paint of required shade to give an even shade. 14.11.1 On new work (two or more coats)								
		INNER AND CEILING PAINT								
		INNER WALL								
		staircase	2	8.00	-	3.50	56.00			
			2	6.00	-	3.50	42.00			
		passage	2	80.00	-	3.50	560.00			
			2	3.00	-	3.50	21.00			
		waiting	2	8.00	-	3.50	56.00			
			2	5.00	-	3.50	35.00			
		vip	2	8.00	-	3.50	56.00			
			2	6.00	-	3.50	42.00			
		pantry/drinking water	4	3.50	-	3.50	49.00			
			4	3.00	-	3.50	42.00			
		toilet	4	2.50	-	3.50	35.00			
			4	3.00	-	3.50	42.00			
		vc	2	10.30	-	3.50	72.10			
			2	6.00	-	3.50	42.00			
		rest room	2	6.50	-	3.50	45.50			
			2	6.00	-	3.50	42.00			
		store	4	2.50	-	3.50	35.00			
			2	6.00	-	3.50	42.00			
		board	2	6.70	-	3.50	46.90			
			2	6.00	-	3.50	42.00			
		conference	2	9.20	-	3.50	64.40			
			2	6.00	-	3.50	42.00			
		depty controll./registrar	4	6.80	-	3.50	95.20			
			4	5.15	-	3.50	72.10			
		controll./registrar	4	7.70	-	3.50	107.80			
			4	5.15	-	3.50	72.10			
		toilet	8	2.40	-	3.50	67.20			
			8	1.60	-	3.50	44.80			
		gents toilet	4	3.30	-	3.50	46.20			
			4	6.00	-	3.50	84.00			
		ladies toilet	4	2.50	-	3.50	35.00			
			4	6.00	-	3.50	84.00			
		CEILING								
		staircase bottom	1	8.00	6.00	-	48.00			
		passage	1	80.00	3.00	-	240.00			
		waiting	1	8.00	5.00	-	40.00			
		vip	1	8.00	6.00	-	48.00			
		pantry/drinking water	2	3.50	3.00	-	21.00			
		toilet	2	2.50	3.00	-	15.00			
		vc	1	10.30	6.00	-	61.80			
		rest room	1	6.50	6.00	-	39.00			
		store	2	2.50	6.00	-	30.00			

S. N.	Code No.	Item Work	No.	Length	B.	D/H	Qty.	Unit	Rate	Amount
		board	1	6.70	6.00	-	40.20			
		conference	1	9.20	6.00	-	55.20			
		depty controll./registrar	2	6.80	5.15	-	70.04			
		controll./registrar	2	7.70	5.15	-	79.31			
		toilet	2	2.40	4.60	-	22.08			
		gents toilet	2	3.30	6.00	-	39.60			
		ladies toilet	2	2.50	3.00	-	15.00			
							3082.53	sqm.		
	deduction	D	2	1.50	-	2.50	7.50			
		D1	13	1.20	-	2.50	39.00			
		D2	2	1.00	-	2.50	5.00			
		D3	4	0.90	-	2.50	9.00			
		D4	20	0.75	-	2.10	31.50			
		SIDE FIX	1	8.00	-	3.00	24.00			
		MW	2	5.00	-	1.70	17.00			
		W	20	1.80	-	1.50	54.00			
		W1	2	1.05	-	1.50	3.15			
		V	8	1.00	-	0.60	4.80			
		V1	15	0.60	-	0.60	5.40			
							200.35			
						net	2882.18	sqm.		
6	(P.NO.-133,C.N.1 4.12)	14.12 Applying one coat of cement primer on wall surface (applied @ 0.80 litrs/10 sqm) complete.					2882.18	sqm.		
7	(P.NO.-133,C.N.1 4.17.1)	Painting new exterior surface with PREMIUM TEXTURED PAINT On new work (Two or more coats) For Exterior	1	156.00	-	3.63	565.50			
		chajja	1	156.00	0.60	-	93.60			
							659.10	sqm.		
	deduction									
		SIDE FIX	1	8.00	-	3.00	24.00			
		MW	2	5.00	-	1.70	17.00			
		W	20	1.80	-	1.50	54.00			
		W1	2	1.05	-	1.50	3.15			
		V	8	1.00	-	0.60	4.80			
		V1	15	0.60	-	0.60	5.40			
							108.35			
						net	550.75	sqm.		
8	(P.NO.-134,C.N.1 4.22)	14.22 Painting on new work (two or more coats) to give an even shade with: 14.22.1 Satin synthetic enamel paint	2 COAT ON GRILL				108.35			
			2x 168.85				216.70	Sq.M.		

S. N.	Code No.	Item Work	No.	Length	B.	D/H	Qty.	Unit	Rate	Amount
9a	(P.NO-87,C.N.9.60)	9.60 Designing, providing and fixing aluminium frame work made of special aluminium section on building face with M.S. angle iron brackets fixed on RCC structure with S.S. hold fasteners, including providing and fixing two sided structural adhesive tape of appropriate grade (NORTON or equivalent), on aluminium sections for fixing aluminium/ glass panel, sealing on periphery of frame work, by providing EPDM gasket, silicon weather sealant between aluminium frame and building structure including hire charges of double scaffolding complete. kg 357.00								
			1	10.00	2.00	-	20.00			
	tower floor	MW	2	5.30	-	1.50	15.90			
	tower floor	W2	4	1.05	-	1.50	6.30			
							42.20	sqm		
				@12kg	/ sqm	42.20	506.40	kg		
b	(P.NO-87,C.N.9.61)	9.61 Providing and fixing aluminium composite panels in approved panel sizes, thickness and shape on aluminium frame work on face of building. (Frame to be paid separately) 9.61.2 4mm thick					21.10	sqm		
c	(P.NO-87,C.N.9.62)	9.62 Providing and fixing laminated glass sheet of 8.76mm thickness in approved sizes on aluminium frame work on face of building. (Frame to be paid for separately).	qty of glass work				21.10	sqm		
									Total Rs.	
Total Cost of second floor									Say Rs.	

Note: - Any item may be changed at the time of execution of work with prior permission of superintendent physical plant as per site and other condition

ESTIMATES OF ADMINISTRATIVE BUILDING FOR I.G.K.V. AT RAIPUR (C.G.)

DETAILED ESTIMATE OF STAIRCASE TOWER, TERRACE FLOORING & WATER PROOFING

[As per P.W.D.- Building S.O.R. in Force From 1 Jan. 2015]

S. N.	Code No.	Item Work	No.	Length	B.	D/H	Qty.	Unit	Rate	Amount
Shuttering & Formwork										
1	(P.No.- 15,C.N. 2.1.1)	Providing and fixing formwork l/c centering, shuttering, strutting, staging, propping bracing etc. completed including its removal for								
		For Column's upto slab lvl.								
		C0	12	1.30	-	3.50	54.60			
		C3	10	1.50	-	3.50	52.50			
		C5	4	1.80		3.50	25.20			
2.1.5 Columns, Pillars, Piers and likes- rectangular or square in shape.							132.30	sqm.		
		main slab beam at 3.50m lvl.								
	200X450	SB1	4	8.00	-	0.45x2+0.20	35.20			
	200X450	SB2	4	1.50	-	0.450x2+0.20	6.60			
	200X450	SB3	4	4.00	-	0.450x2+0.20	17.60			
	200X450	SB4	2	5.00	-	0.450x2+0.20	11.00			
	300X600	SB8	2	9.00	-	0.60x2+0.30	27.00			
2.1.8 Beams, lintels, cantilevers & walls							97.40	sqm.		
		main slab	2	70.00	sqm	-	140.00			
			2	33.00	-	0.125	8.25			
		chajja	2	33.00	0.60	-	39.60			
			2	33.00	-	0.100	6.60			
2.1.7 Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)							194.45	sqm.		
RCC WORK										
2	Page no.23,Code no. 3.3	3.2 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. 3.2.1 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).								
		For Column's upto slab lvl.								
		C0	12	0.20	0.45	3.50	3.78			
		C3	10	0.30	0.45	3.50	4.73			
		C5	4	0.30	0.60	3.50	2.52			
		main slab beam at 3.50m lvl.								

S. N.	Code No.	Item Work	No.	Length	B.	D/H	Qty.	Unit	Rate	Amount
	200X450	SB1	4	8.00	0.20	0.45	2.88			
	200X450	SB2	4	1.50	0.20	0.45	0.54			
	200X450	SB3	4	4.00	0.20	0.45	1.44			
	200X450	SB4	2	5.00	0.20	0.45	0.90			
	300X600	SB8	20	9.00	0.30	0.60	32.40			
		main slab	2	70.00	sqm	0.125	17.50			
		chajja	2	33.00	0.60	0.10	3.96			
	3.2.-1 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).						70.65	cum.		
3	Page no.24, Code no. 3.12.1	Providing and placing in position steel reinforcement for R.C.C. work including cutting. Bending, binding etc. complete as per drawings including cost of binding wire and including all wastage etc. complete (3.14.1) T.M.T. BARS	(RCC WORK @ 140KG/CUM.)							
							9890.30	K.g.		
4	(P.No.- 24,C.N. 3.13)	Providing and laying damp proof course (upto 50mm thick) with plain cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded crushed stone aggregate 20mm nominal size) including formwork.								
			4	6.50	0.20	0.05	0.26			
			4	8.50	0.20	0.05	0.34			
		perapet wall	1	350.00	0.20	0.05	3.50			
							4.10	cum.		
5	(P.No.- 24,C.N. 3.15)	Applying a coat or hot bitumen VIG-10 using @ 1.7 kg./sqm on damp proof course after cleaning the surface of brushes and finally with a piece of cloth lightly soaked in kerosine oil.								
			1	104.00	sqm.	-	104.00	Sqm.		
BRICK WORK										

S. N.	Code No.	Item Work	No.	Length	B.	D/H	Qty.	Unit	Rate	Amount
6	(P.No.-45,(C.N.7.5+7.54)	7.5 Brick work with modular fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in foundation and plinth in: 7.5.4 Cement Mortar 1:6 (1 cement : 6 coarse sand)+7.6 Extra for brick work in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:								
		Superstructure								
			4	6.50	0.20	3.50	18.20			
			4	8.50	0.20	3.50	23.80			
		perapet wall	1	350.00	0.20	1.00	70.00			
							112.00	sqm.		
	deduction	D3	2	0.90	0.20	2.50	0.90			
						(-)	0.90			
						net	111.10	cum.		
PLASTERING WORK										
7	(P.No.-103,C.N.11.3.3)	15mm thick cement plaster on the rough side of single or half brick wall of mix: Outer side of walls.(1:5)								
		outer wall	2	33.00	-	3.63	239.25			
		perapet wall	2	350.00	-	1.00	700.00			
							939.25	sqm.		
	deduction									
		D3	2	0.90	-	2.50	4.50			
							4.50			
						net	934.75	sqm.		
8	Page no.103,Code no. 11.2.3	12mm thick cement plaster of inner side of walls.(1:5)								
		staircase	4	8.00	-	3.50	112.00			
			4	6.00	-	3.50	84.00			
							196.00	sqm.		
	deduction	D3	2	0.90	-	2.50	4.50			
							4.50			
						net	191.50	sqm.		

S. N.	Code No.	Item Work	No.	Length	B.	D/H	Qty.	Unit	Rate	Amount
9	(P.No.-103,C.N.11.1.1)	Ceiling plaster 6mm thick cement plaster In Cement mortar 1:3 (1 cement : 3 fine sand)								
		staircase	2	8.00	6.00	-	96.00			
		chajja	2	33.00	1.80	-	118.80			
							214.80	sqm.		
10	(P.No.-106,C.N.11.32)	12.1 Applying cement slurry on R.C.C. slab or cement concrete work using 2.75 kg/ sqm for receiving cement concrete floor including roughening cleaning etc complete. sqm 34.00								
			same as qty item no.-9				214.80	sqm.		
11	(P.No.-106,C.N.11.32)	moulded mortar band in cement mortar 1:4 per cm width a(18mm thick)	3	33.00	-	-	99.00	Mtr.		
DOOR & WINDOW										
12	(P.No.-54,C.N.8.1.2)	8.1 Providing wood work in frames of doors, windows, clerestory windows and other frames wrought framed and fixed in position. 8.1.2 Sal, bijasal, benteak, khair, haldu								
		D3	2	5.90	0.10	0.08	0.09			
							0.09	CUM		
STEEL & ALUMINIUM WORK										

S. N.	Code No.	Item Work	No.	Length	B.	D/H	Qty.	Unit	Rate	Amount
13	(P.No.-81,C.N.9.17)	9.11 Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2mm and braced with flat iron diagonals 20x5mm size with top and bottom rails of T-iron 40x40x6mm with 38mm steel pulleys complete with bolts, nuts, locking arrangement stoppers, handles including applying a priming coat of red oxide zinc chromate primer.								
		Chanel gate (2 nos)	2	0.90	-	2.50	4.50	sqm		
14	(P.No.-81,C.N.9.15)	Providing and fixing M.S. grill of approved pattern made of M.S. flats or square or round bars welded to steel frame of windows etc. including applying a priming coat of red oxide zinc chromate primer..								
		window/Ventilator grill								
		MW	2	5.30	-	1.50	15.90			
		W2	4	1.05	-	1.50	6.30			
							22.20	sqm		
		@30 Kg./sqm					666.00	K.g.		
15	(P.NO.-86,C.N-9.57.1)	Providing stainless steel railing/ grill made of S.S. flats, hollow S.S. pipe or square/ rectangular sections of approved design fixing in stair case, balcony or other places with metal fasteners and stainless steel bolts etc complete.								
		terrace	4	10.00	-	-	40.00	Rmt.		
		@5.0 kg / Rmt.					200.00	Kg.		
16	(P.No.-32,C.N.4.22)	Providing water proofing treatment with sealer coat and diamond shield (Grey) product of Weathertuff in the severely affected leakage area.								
			1	2070.00	sqm	-	2070.00	sqm.		

S. N.	Code No.	Item Work	No.	Length	B.	D/H	Qty.	Unit	Rate	Amount
17	(P.No.-111,C.N.12.30)	12.3 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. 12.3.1 40 mm thick	1	2070.00	sqm	-	2070.00	sqm.		
PAINTING WORK										
18	(P.NO-133,C.N.14.13,)	Providing and applying 2mm thick ready mix interior grade putty (Birla wall care, Alltek Superfine W/R of (NCL), J.K. wall putty) on walls to make the surface smooth and even.	same as item no. -8+9				406.30	sqm.		
19	(P.NO-133,C.N.14.11.1.)	14.11 Wall painting with acrylic luxury emulsion (plastic) paint of required shade to give an even shade. 14.11.1 On new work (two or more coats)	same as item no. -8+9				406.30	sqm.		
20	(P.NO.-133,C.N.14.12)	14.12 Applying one coat of cement primer on wall surface (applied @ 0.80 litrs/10 sqm) complete.	same as item no. -8+9				406.30	sqm.		
21	(P.NO.-133,C.N.14.17.1)	Painting new exterior surface with PREMIUM TEXTURED PAINT On new work (Two or more coats) For Exterior	same as item no. -7				934.75	sqm.		
22	(P.NO.-134,C.N.14.22)	14.22 Painting on new work (two or more coats) to give an even shade with: 14.22.1 Satin synthetic enamel paint	2x as item no-17				4.50			
							9.00	Sq.M.		
									Total Rs.	
Total Cost of Staircase & Terrace Floor									Say Rs.	

Note: - Any item may be changed at the time of execution of work with prior permission of superintendent physical plant as per site and other condition

DETAILED ESTIMATE OF INTERNAL ELECTRIFICATION WORKS (GROUND FLOOR + FIRST FLOOR + SECOND FLOOR) FOR ADMINISTRATIVE BUILDING AT RAIPUR

SOR	DESCRIPTION	UNIT	QTY.	RATE	TOTAL
3.7	Wiring for light/ fan/ exhaust fan / call bell point with 1.5 sqmm FR PVC insulated stranded copper conductor single core cable in concealed PVC conduit, with 5 amp modular switch, modular base and cover plate, suitable size G.I. box and earthing the point with same size cable as required.				
3.7.1	Short Point	Point	1045		
3.7.2	Medium Point	Point	665		
3.7.3	Long Point	Point	411		
3.8	Wiring for twin control light point with 1.5 sqmm FR PVC insulated stranded copper conductor single core cable in concealed PVC conduit, with 5 amp modular switch, modular base and cover plate, suitable size G.I. box and earthing the point with same size cable as required.				
		Point	18		
3.9	Extra for providing and fixing light plug point on board in concealed PVC conduit point wiring with modular type 3 pin 5 amp socket outlet and 5 amp switch including cost of base and cover plate and G. I. box etc. as required.				
		Point	1495		
3.10	Wiring for light plug point with 2x2.5 sq mm FR PVC insulated stranded copper conductor cable in concealed PVC conduit along with modular type 6 Amp switch and 3 pin 6 amps socket outlet with modular base and cover plate, suitable size G.I. box, earthing the switch box and socket outlet with same size cable etc. as required.				
3.10.1	Short Point	Point	10		
3.10.2	Medium Point	Point	15		
3.10.3	Long Point	Point	20		
3.10.4	Extra Long Point I	Point	15		
3.10.5	Extra Long Point II	Point	25		
3.10.6	Extra Long Point III	Point	30		
3.11	Wiring for power plug point with 2x4 sq mm FR PVC insulated stranded copper conductor cable in concealed PVC conduit along with modular type 16 Amp switch and 6 pin 16 amps socket outlet with modular base and cover plate, suitable size G.I. box, earthing the switch box and socket outlet with same size cable etc. as required.				
3.11.1	Short Point	Point	22		
3.11.2	Medium Point	Point	30		
3.11.3	Long Point	Point	45		
3.11.4	Extra Long Point I	Point	75		
3.11.5	Extra Long Point II	Point	95		
3.11.6	Extra Long Point III	Point	120		
3.13	Wiring for circuit/ sub main wiring along with earth wire with the following sizes of FR PVC insulated copper conductor, single core cable in concealed PVC conduit as required.				
3.13.1	3 X 1.5 sq. mm in 20mm conduit	Metre	580		
3.13.2	3 X 2.5 sq. mm in 20mm conduit	Metre	3800		
3.13.3	6 X 2.5 sq. mm in 25mm conduit	Metre	1400		
3.13.6	3 X 4 sq. mm in 25mm conduit	Metre	320		
3.13.14	6 X 10 sq. mm in 40mm conduit	Metre	1580		

3.15	Supplying and fixing of following sizes PVC conduit along with accessories in concealed complete as required.				
3.15.2	25 mm	Metre	1120		
5.12	Supplying and drawing following pair 0.5 mm FR PVC insulated copper conductor, unarmored telephone cable in the existing surface/ concealed steel/ PVC conduit as required.				
5.12.2	2 Pair	Metre	3200.00		
5.14	Supplying and drawing UTP 4 pair Cat 6 LAN cable in existing surface/ concealed steel/ PVC conduit as required.				
		metre	5400		
6.4	Supplying and fixing following size/ modules, GI box along with modular base & cover plate for modular switches in recess etc as required.				
6.4.1	75mmX75mm (1/2 Module)	Each	180		
7.4	Supplying and fixing following modular switch, socket, other accessories on the existing modular plate & switch box including connections but excluding modular plate etc. as required.				
7.4.3	Bell push	Each	25		
7.4.8	Fan regulator (two module size) electronic stepped type moving all rounds	Each	370		
7.4.12	Telephone socket outlet	Each	180		
7.4.14	Computer Outlet Jack	Each	180		
7.4.15	25/32 amp A.C. Starter switch	Each	147		
7.4.17	Ceiling rose 3 pin 5 amp	Each	370		
7.4.19	Batten/ angle holder	Each	60		
7.4.20	Blanking plate	Each	460		
7.7	Supplying and fixing call bell/ buzzer suitable for single phase, 230 volts A.C. supply, complete as required.				
7.7.2	Deluxe	Each	25		
7.9	Providing and fixing round/ hexagonal fan box (125mm dia) depth 75mm (max.) with 12mm dia steel bar hook, 1.6mm thick MS sheet cover, in RCC slab etc. as required.				
		Each	370		
8.1	Supplying, installation, testing and commissioning of following sizes ceiling fan including wiring the down rods of standard length up to 30 cm with 1.5 sq. mm FR PVC insulated, copper conductor, single core cable, earthing etc. complete as required.				
8.1.2	1200 mm sweep	Each	370		
8.4	Supplying and fixing of wall/ cabin fan of 400mm sweep including connection etc. as required.				
		Each	10		
8.6	Supplying, installation, testing and commissioning of following sizes heavy duty (continuous running) 1400 rpm exhaust fan in existing opening in wall including earthing etc. complete as required.				
8.6.1	300 mm sweep	Each	50		

8.11	Supplying, installation, testing and commissioning of following T-5 fluorescent fitting (luminaries) complete with electronic ballast but without fluorescent lamp, on ceiling/ wall surface, earthing the fitting etc. as required.				
8.11.1	Single box type with decorative end caps	Each	900		
8.27	Supplying, installation, testing and commissioning of following 230/250 volts HPSV wide beam flood light luminaries with weather proof gear box, igniter, capacitor with IP 66 protection on wall surface/ building parapet/ pole bracket complete but without lamp as required.				
8.27.3	1x250 watt	Each	24		
9.17	Providing and making interconnection in cubical panel between BBC and switchgears with following size PVC insulated copper conductor cable lead of length upto 50cm including providing copper thimbles on both ends as required (To be measured separately for each phase/ neutral).				
9.17.1	10 sqmm (32 amp)	Each	196		
9.19	Fabrication, supply, installation, testing and commissioning of cubicle type compartmentalized wall/ floor mounted power cum control panel board of specified size and following depth made out of not less than 2 mm thick CRCA MS sheet with suitable size compartments for bus bars, switchgears and necessary cutouts for voltmeters, ammeters etc as per specifications including powder coating painting but without busbars, switchgears and other accessories etc complete as required. (Only face area is to be measured)				
9.19.2	Above 300 mm and upto 450 mm deep	sqm	24.5		
9.20	Supply, installation, testing and commissioning of 4 pole (3 phase + neutral) aluminium bus bars in existing cubicle type compartmentalized wall/ floor mounted panel board along with suitable size and shape insulators, necessary bolts and nuts etc complete as required.				
9.20.2	200 amp (30x5mm)	Metre	30		
9.20.4	400 amp (50x6mm)	Metre	20		
9.20.7	800 amp (100x6mm)	Metre	40		
11.1	Providing and fixing following rating and breaking capacity MCCB in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.				
11.1.3	3 pole MCCB, 25-100A, Adjustable Thermal Release, 18KA	Each	48		
11.1.12	3 pole MCCB, 400A, Adjustable Thermal - Magnetic Release, 35KA	Each	2		
11.1.23	3 pole MCCB, 800A, Adjustable Microprocessor Release, 50KA	Each	2		

11.5	Supplying and fixing on surface/ recess vertical type following way, 415 volts, TPN MCB distribution board of sheet steel phosphatized and powder painted, with 200 amps tinned copper busbar, common neutral link, earth bar, din bar, detachable gland/ knock out plate, including interconnections, earthing etc. as required. (But without MCB/RCCB/Isolator) (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)				
11.5.4	4 way (4 + 12), Double door	Each	12		
11.5.5	8 way (4 + 24), Double door	Each	36		
11.11	Supplying and fixing SP MCB, 240 volts, 'C' curve, suitable for inductive load in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
11.11.2	6 amps to 32 amps	Each	864		
11.16	Supplying and fixing TP&N MCB, 440 volts, 'C' curve, suitable for lighting and other loads in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
11.16.5	63 amps	Each	48		
12.7	Providing and fixing metal clad, 4 pole, on load change over switch unit (with sheet steel enclosure), 415/500 volts, in cubicle panel including drilling holes on the board, connections, earthing the body, testing and commissioning etc. as required. (Connecting lead if required shall be paid separately)				
12.7.7	800 amps	Each	2		
12.15	Providing and fixing following rating current transformer in existing cubical panel including, connections, testing and commissioning etc. as required.				
12.15.7	800/5 amps	Each	6		
12.17	Providing and fixing penal mounting 230 volt LED type indicating lamp in existing cubical panel including, connections, testing and commissioning etc. as required.				
		Each	12		
12.19	Providing and fixing penal mounting following rating digital type ammeter of size 100x100 (NS) in existing cubical panel including, connections, testing and commissioning etc. as required.				
12.19.5	0-1000 amps	Each	2		
12.20	Providing and fixing penal mounting 0-500 volt voltmeter of size 100x100 (NS) in existing cubical panel including, connections, testing and commissioning etc. as required.				
12.20.2	Digital type	Each	2		
14.17	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.				
		Metre	120		

14.20	Providing maintenance free earthing with following size GI pipe including making bore pit of minimum 150mm dia, providing and laying approved make Earthing Electrode of Pipe-in-Pipe technology as per IS 3043-1987 made of corrosion free G.I. Pipes having outer pipe of 80mm dia and inner pipe of 50mm dia and filling with specified qty highly conductive compound around pipe and above that with soft soil in bore pit complete and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. as required:				
14.20.1	With 3 metre long GI Pipes and 50 kg back filling compound.	Each	12		
16.1	Supplying and laying ISI marked double wall HDPE pipe (IS 14930 Part II) having corrugation on the outer wall and plan surface on inner wall in ground below road, path etc at a depth not less than 40 cm and upto 90 cm including excavation, dismantling of road if required and refilling the trench with excavated material, ramming and making the surface good etc. as required.				
16.1.6	200 mm outer dia	Metre	60		
17.3	Supplying and laying following sizes one number PVC insulated/ XLPE, PVC sheathed, steel armoured, aluminium conductor power cable of 1.1 KV grade in existing RCC/ HUME/ STONEWARE/ METAL/ HDPE pipe as required.				
17.3.20	3.5 x 300 sq. mm.	Metre	240		
17.5	Supplying and laying following sizes one number PVC insulated/ XLPE, PVC sheathed, steel armoured, aluminium conductor power cable of 1.1 KV grade on surface/ existing cable tray with 1 mm thick GI saddle as required.				
17.5.13	4 x 10 sq. mm.	Metre	200		
17.23	Supplying and making end termination with brass compression gland and aluminum lugs for following size armoured aluminum conductor power cable of 1.1 KV grade as required.				
17.23.21	3½ X 300 sq. mm (63 mm)	Each	32		
17.23.24	4 X 16 sq. mm (22 mm)	Each	32		
34.2	Providing following size ISI marked FR PVC insulated, PVC sheathed, flexible copper conductor cable.				
34.2.5	2.5 sq. mm three core	Metre	200		
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, head, delivery size in existing bore well including 2 sets of suitable size holding clamps made out of 50 mm X 6 mm MS flat, connection with suitable submersible cable of standard length etc. as required.				
26.3.3	2.0 HP, single phase	Each	2		

26.11	Supply, installation, testing and commissioning of 1-3 HP 1 phase submersible motor starter cum control wall/ floor mounted type made out of not less than 1.6 mm thick MS sheet and comprising of following panel mounting switchgears there in including connection inter-connection etc. as required. a) Phase indicating lamps with fuses and toggle switches 1 set b) 1/2/3 HP 1 phase DOL starter with over load and no volt relay 1 No c) 25 A "C" curve DPMCB 1 No d) Voltmeter 0-250 V 1 set e) Ammeter 0-10 A 1 set				
		SET	2		
26.14	Supplying, laying and fixing following size submersible cable along with GI/PVC/HDPC pipe line or laid in ground etc as required				
26.14.3	3x4.0 sqmm	Metre	240		
			TOTAL AMOUNT		

**PROPOSED FIRE FIGHTING SYSTEM AND U.G.TANK FOR ADMINISTRATIVE
BUILDING AT I.G.K.V- RAIPUR (CG)**

ABSTRACT SHEET PART -D

S.NO.	PARTICULARES	AMOUNT
1	ESTIMATED COST OF FIRE FIGHTING SYSTEM	
2	ESTIMATED COST OF UNDER GROUND WATER TANK	
<i>TOTAL ESTIMATED COST RS.</i>		

FIRE EXTINGUISHER FOR ADMINISTRATIVE BUILDING FOR IGKV-RAIPUR

Sr. No.	Item Description	Qty.	Unit Rate	Amount	Make
P-71, C.N.- 24.80	Supply and erecting following ISI marked Fire extenguishers on wall/ column including erecting bracket etc complete.				
24.8.4	4 kg capacity ABC type dry chemical powder fire Extinguishers with wall mounting brackets.	20			Omex
24.8.3	4.5 kg CO2 type Extinguisher with wall mounting brackets.	20			Omex
Total Amount					
Total Amount Inclusive of all taxes					

Total Amount		
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ESTIMATE OF ADMINISTRATIVE BUILDING FOR I.G.K.V.-RAIPUR (C.G.)

DETAILED ESTIMATE OF UNDER GROUND WATER TANK FOR FIRE FIGHTING SYSTEM - 4.50X3.0X3.75M

(Capacity - 50000 ltr.)

[As per C.G.P.W.D.- Building S.O.R. in Force From 2015]

S.N.	Code No.	Item Work	No.	Length	B.	D/H	Qty.	Unit	Rate	Amount
Excavation and Earth filling										
1a	(Page No.-09, Code No.- 1.1.1)	Excavation in all types of soils for all types & size of foundation and drains including disposal of excavated stuff up to 50 m lead & alift up to 1.5 m including dressing and levelling of pits and disposed stuff as directed by Engineer .	1	5.50	7.10	1.50	58.58	Cu.M.		
1b	1.6	1.6 Extra for every additional lift of 1.5 m or part thereof. 1.6.1 All types of soils cum 26.50+185 = 211.50	1	5.50	7.10	1.40	54.67	Cu.M.		
2	(P.No.- 11,C.N. 1.18)	Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete.								
		Sand filling	1	5.50	7.10	0.15	5.86	Cum.		
Shuttering & Formwork										
3	(Page No.- 16, Code No.- 2.1)	2.1 Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:								
3a	2.1.2 Wall of any thickness including attached pilasters,									
		Outer wall	1	25.20	-	3.75	189.00			
		inner wall	1	15.00	-	3.45	103.50			
							292.50	Sq.M.		
3b	2.1.7 Suspended floors, roofs, access platform, balconies (plain									
		Top main slab	1	4.10	5.10	-	20.91			
		side	1	18.40	0.150	-	2.76			
		bottom slab sides	1	18.40	0.300	-	5.52			
							29.19	sqm.		
PCC & RCC WORK										
4a	Page no.23,Code no. 3.3.1	Providing and laying mechanically mixed reinforced cement concrete excluding centering shuttering and reinforcement in foundations, plinth and in superstructure upto a height of 4.0m above plinth level. (3.4.1) M-20								
		tank- long wall	2	5.10	0.30	3.75	11.48			
		tank- short wall	2	3.60	0.30	3.75	8.10			
		base slab	1	4.10	5.10	0.30	6.27			
		main slab	1	4.10	5.10	0.15	3.14			

							28.98	CUM		
5	(P.No.- 24,C.N. 3.12.1))	3.12 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 all complete: 3.12.1 Thermo-Mechanically treated bars FE 415	RCC WORK @ 150KG/CUM.)				4347.68	K.g.		
6	(P.NO.- 23,C.N. 3.1.3)	Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in foundation, plinth and at ground level excluding cost of form work., (C.N. 3.1.2) 1:3:6 (1 cement : 3 coarse sand : 6graded stone aggregate 40mm nominal size).	1	5.50	7.10	0.15	5.86	Cu.M.		
PLASTERING WORK										
7	(P.No.- 103,C.N.11 .3.3)	15mm thick cement plaster on the rough side of single or half brick wall of mix: Outer side of walls.(1:5)								
		inner wall	2	3.00	-	3.75	22.50			
			2	4.50	-	3.75	33.75			
		outer wall	1	18.40	-	4.20	77.28			
							133.53	sqm.		
WATER PROOFING WORK										
8	(P.No.- 32,C.N. 4.22)	Providing water proofing treatment with sealer coat and diamond shield (Grey) product of Weathertuff in the severely affectedleakage area.	1.00	4.10	5.10	-	20.91	sqm.		
			1.00	15.00	-	3.75	56.25	sqm.		
							77.16	sqm.		
UG TANK									Total Rs.	
									Say Rs.	

INDIRA GANDHI AGRICULTURE UNIVERSITY - RAIPUR (C.G.)

**PROPOSED TUBEWELL, RAIN WATER, MAIN DOOR & TOILET DOOR FOR ADMINISTRATIVE BUILDING
AT RAIPUR**

ABSTRACT SHEET

[As per P.W.D.- Building S.O.R. in Force From 1 Jan. 2015]

S.NO.	PARTICULARES	AMOUNT
A-1	ESTIMATED COST OF TUBE WELL WITH SUBMERSIBLE PUMP (1 NOS)	
A-2	ESTIMATED COST OF RAINWATER HARVESTING SYSTEM - (4 nos x 3mx3mx3m)	
TOTAL COST-A (Rs.)		

Note: - Any item may be changed at the time of execution of work with prior permission of superintendent physical plant as per site and other condition

DETAILED ESTIMATE OF TUBE WELL WITH SUBMERSIBLE PUMP (1 NOS)

[As per P.W.D.- Building S.O.R. in Force From JAN 2015]

S. No.	Item	No.	L.	B.	H/D	Qty.	UNIT	RATE	AMOUNT
	(P.No.-201,C.N.21.17)								
1	Carrying out the resistivity survey by VES method using Schlumberger configuration for locating the proper spot for drilling of tube well with in the selected habitation, including photography, 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)	3	-		...	3.00	point		
	(P.No.-198,C.N.21.20)								
2	21.2 Boring/drilling bore well perfectly vertical for the specified depth suitable to receive required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer-in-charge beyond 90 metre & upto 150 metre depth below ground level. 21.2.1 All types of soil								
	21.2.1.3 150 mm dia.	1	150	--	...	150.00	mtr		
	(P.No.-199,C.N.21.50)								
3	21.5 Supplying, assembling, lowering and fixing in vertical position in bore well, ISI marked G.I. casing pipe (Plain) medium class in 4 to 7 meters length one end fitted with socket as per IS: 1239 (Part-1&Part-2) 1992 with IVth revision (Up-to-date amendments), of reputed & approved make, including required hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of Engineer- in-charge. 21.5.3 150 mm nominal dia	1	50	--	...	50.00	mtr		
4	21.11 Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for bore well of: 21.11.3 150 mm dia	2	-	-	-	2.00	Each		
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: 2800 (part I), including necessary bolts & nuts of required size complete. 21.12.3 150 mm clamp.	2	-	-	-	2.00	Each		

S. No.	Item	No.	L.	B.	H/D	Qty.	UNIT	RATE	AMOUNT
5	19.4 Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. 19.4.6 50 mm nominal outer dia .Pipes.	1	100	-	-	100.00	mtr		
	Electrical sor 2015								
6	P-88.C.N.-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, head, delivery size in existing bore well including 2 sets of suitable size holding clamps made out of 50 mm X 6 mm MS flat, connection with suitable submersible cable of standard length etc. as required. 26.3.3 2.0 HP, single phase	1	-	--	...	1.00	Each		
7	P-103C.N.- 34.3 Providing following size ISI marked FR PVC insulated, PVC sheathed, 3 core submersible copper conductor cable. 34.3.3 - 4.0 sq. mm	1	100	--	...	100.00	Mtr.		
8	P-84,C.N.- 26.6 Supplying and fixing following dia HDPE pipe PE-80 Grade (8kg/sqcm) in single length in the suction/ delivery line of water supply pump etc. as required. 26.6.2 - 50 mm outer dia	1	100	--	...	100.00	Mtr.		
9	P-84,C.N.- 26.7 Supplying and fixing of following sizes GM gate valve ISI mark in the suction/ delivery line etc. as required. 26.7.4 50 mm dia.	1	4	--	...	4.00	Each		
10	P-85,C.N.- 26.11 Supply, installation, testing and commissioning of 1-3 HP 1 phase submersible motor starter cum control wall/ floor mounted type made out of not less than 1.6 mm thick MS sheet and comprising of following panel mounting switchgears there in including connection interconnection etc. as required. a) Phase indicating lamps with fuses and toggle switches 1 set b) 1/2/3 HP 1 phase DOL starter with over load and no volt relay 1 No c) 25 A "C" curve DPMCB 1 No d) Voltmeter 0-250 V 1 set e) Ammeter 0-10 A 1 set	1	1	--	...	1.00	Each		
							1 nos	Total Rs.	
								Say Rs.	

Note: - Any item may be changed at the time of execution of work with prior permission of superintendent physical plant as per site and other condition

DETAILED ESTIMATE OF RAINWATER HARVESTING SYSTEM (4 nos x 3mx3mx3m)

[As per P.W.D.- S.O.R. in Force From 1Jan 2015]

S.N	Code No.	Item Work	No.	Length	B.	D/H	Qty.	Unit	Rate	Amount
Excavation and Earth filling										
1	(Page No.- 09, Code No.- 1.1.1)	Excavation in all types of soils for all types & size of foundation and drains including disposal of excavated stuff up to 50 m lead & lift up to 1.5 m including dressing and levelling of pits and disposed stuff as directed by Engineer .								
		C1/F1	1	3.60	3.60	3.00	38.88	Cu.M.		
4	(P.No.- 11,C.N. 1.18)	Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering,including dressing etc. complete.								
		Sand filling								
		C1/F1	1	3.60	3.60	0.10	1.30			
		side filling work	4	3.60	0.60	3.00	25.92			
							27.22	Cum.		
5	(P.NO.- 22,C.N. 3.1.3)	Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in foundation, plinth and at ground level excluding cost of form work., (C.N. 3.1.2) 1:3:6 (1 cement : 3 coarse sand : 6graded stone aggregate 40mm nominal size).								
		C1/F1	4	1.20	1.20	0.10	0.58			
							0.58	Cu.M.		
Shuttering & Formwork										
6	(P.No.- 15,C.N. 2.1.1)	Providing and fixing formwork l/c centering, shuttering, strutting, staging, propping bracing etc. completed including its removal for								
		Foundation, Footing, base of columns and plinth beam in any shape and size upto plint level.								
	base	C1/F1	4X4	1.20	-	0.10	1.92			
	Raft	C1/F1	4X4	1.00	-	0.20	3.20			
		column upto plinth								
		C1/F1	1	0.80	-	3.00	2.40			
		For ground and plinth beam								
		B1	8	3.00	-	0.20x2	9.60			
		(Page No.- 16, Code No.-2.1.1)					17.12	Sq.M.		
		main slab	1	3.00	3.00	-	9.00			
			1	12.00	-	0.100	1.20			
		2.1.7 Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)					10.20	sqm.		
RCC WORK										

S.N.	Code No.	Item Work	No.	Length	B.	D/H	Qty.	Unit	Rate	Amount
7	Page no.23,Code no. 3.3	3.2 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. 3.2.1 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).								
		C1/F1	4	1.00	1.00	0.20	0.80			
		column upto plinth	4	0.20	0.20	1.20	0.19			
		For ground plinth beam								
		B1	8	3.00	0.20	0.20	0.96			
		main slab	1	3.00	3.00	0.10	0.90			
		3.2.-1 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm					2.85	cum.		
8	Page no.24,Code no. 3.12.1	Providing and placing in position steel reinforcement for R.C.C. work including cutting. Bending, binding etc. complete as per drawings including cost of binding wire and including all wastage etc. complete (3.14.1) T.M.T. BARS	(RCC WORK @ 100KG/CUM.)							
							285.20	K.g.		
BRICK WORK										
9	Page no.46,Code no. 7.13.1	7.13 Half brick thick honey comb brick work with modular well burnt clay bricks of crushing strength not less than 35 kg/sqcm and water absorption not more than 20% upto plinth level. 7.13.1 Cement Mortar 1:3 (1 cement : 3 coarse sand) sqm 337.00	4	3.00		3.00	36.00	Cu.M.		
10	Page no. 381,Code no. 24.70	21.14 Supplying, filling, spreading & leveling stone boulders/ Gravels/ Coarse sand, in recharge pit, in the required layers and thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge. (excavation of pit will be paid separately).								
a		21.14.1 Stone boulders of size range 5 cm to 20 cm, in recharge pit cum 863.00	1	3.00	3.00	1.0	9.0	cum		
b		21.14.2 Gravels of size range 5 mm to 10 mm, over the existing layer of boulders cum 806.00	1	3.00	3.00	1.0	9.0	cum		
c		21.14.3 Coarse sand of size range 1.5 mm to 2 mm over existing layer of gravel cum 471.00	1	3.00	3.00	1.0	9.0	cum		

S.N	Code No.	Item Work	No.	Length	B.	D/H	Qty.	Unit	Rate	Amount
11	CGPWD - SOR Page no.201,Code no. 21.19	21.19 Providing and fixing 80-100 mm dia PVC ball valve for inlet/ outlet of rain water harvesting pipe and filter.	1				1.0	Each		
12	CGPWD - SOR Page no.201,Code no. 21.18	21.18 Providing and fixing filter of minimum 100 litre capacity for roof top rain water harvesting through tube well consisting of two layered HDPE tank with five layers (each layers of minimum 100 mm) consist of coarse sand, 4mm, 6mm, 8mm & 12 mm gravels with stainless steel wire mesh fixed between each layer with suitable length and sufficient numbers of 110 mm dia PVC pipe piece s in the bottom of tank to support the above layer including fixing of inlet and out let P.V.C. pipe of required diameter upto 2 metre length on eac h side, Cement Concrete plateform of required size complete as directed by Engineer in charge. (excluding cost of tubewell and inlet and outlet pipe beyond 2 metre)	1	100	-	-	100	ltr		
							1 nos	Total Rs.		
							4 nos	Total Rs.		

INDIRA GANDHI AGRICULTURE UNIVERSITY

BOQ OF LIFT OF ADMINISTRATIVE BUILDING FOR I.G.K.V. AT RAIPUR (C.G.)

ABSTRACT SHEET

[As per P.W.D.- Building S.O.R. in Force From 1 Jan. 2015]

S.N	PARTICULARES	AMOUNT	
1	ESTIMATE COST OF LIFT (2NOS)	Rs.	

		Rs.	
	TOTAL ESTIMATED COST	Rs.	

INDIRA GANDHI AGRICULTURE UNIVERSITY

ESTIMATE OF ADMINISTRATIVE BUILDING FOR I.G.K.V.-RAIPUR (C.G.)

BOQ ESTIMATE OF LIFT

[As per C.G.P.W.D.- Electrical S.O.R. in Force From 2015]

S.N.	Code No.	Item Work	Qty.	Unit	Rate	Amount
LIFT						
1a	(Page No.- 77, Code No.-25.1)	LIFTS 25.1 Supply, installation, testing & commissioning and putting into operation and final testing of automatic lift complete with ARD and all standard equipments, accessories and control equipments as per manufacturer's design and as per CPWD specification (Part III LIFTS) and fulfilling following requirements on turn key basis. A. Type : Passenger lift B. Load : 8 passenger/ 544 Kg C. Speed : 1.0 metre per second D. Contol : AC2 E. Operation : Microprosser based simplex collective selective with/without lift attendant F. Total rise : About 9 mtrs G. Landings : 4 All on same side H. Floors served : G,1,2,3 I. Signals : Digital car position indicator, car travel direction indicator in car & at all landings J. Lift shaft size : About 1900 mm width X 1900 mm depth, finished with plaster K. Lift car size : About 1300 mm width X 1100 mm depth L. Car entrance : Minimum Clear opening 800 mm wide X 2000 mm high protected with car door M. Landing entrance: Clear opening 800 mm wide X 2000 mm high protected with landing door N. Car door : Stainless steel two pannel centre opening flush type	2.00	JOB		
2	(P.No.- 11,C.N. 1.18)	25.2 Add or deduct for providing all additional parts/equipments or for enhancing the capacity of parts/ equipments in automatic lift for 8 persons, speed 1.0 m/sec for every additional floor beyond initial G+3 floors. each additional floor	2.00	EACH		
					Total Rs.	
				Say Total Rs.		

INDIRA GANDHI AGRICULTURE UNIVERSITY

**BOQ OF SITE DEVELOPMENT WORKS OF ADMINISTRATIVE BUILDING FOR I.G.K.V. AT
RAIPUR (C.G.)**

ABSTRACT SHEET

[As per P.W.D.- Building S.O.R. in Force From 1 Jan. 2015]

S.N	PARTICULARES	AMOUNT	
	SITE DEVELOPMENT WORKS		
1	ESTIMATE COST OF C.C.ROAD & PAVER BLOCK	Rs.	
2	ESTIMATE COST OF EXTERNAL LED STREET LIGHT (32 nos)	Rs.	
ESTIMATED COST		Rs.	

DETAILED ESTIMATE OF PROPOSED C.C.ROAD FOR ADMINISTRATIVE BUILDING AT RAIPUR

[illegible]

3	{Page.No.- 12, Item No.- 3.15}.	3.15 Compacting Original Ground (i) Compacting Original Ground supporting sub-grade Loosening of the ground upto a level of 500 mm below the subgrade level , watered, graded and compacted in layers to meet requirement of table 300-2 for sub grade construction								
	for road	front entrance	1	70.00	9.00	0.30	189.00			
		circle - front & back	1	145.00	6.00	0.30	261.00			
		ramp- front & back	4	30.00	6.00	0.30	216.00			
		left & right building	2	80.00	6.00	0.30	288.00			
		turning=9x9/2	4	40.50	sqm	0.30	48.60			
	for paver	paver block	1	445.00	5.00	0.45	1001.25			
							2003.85	Cum		
4	{Page.No.- 15 Item No.- 4.1B}.	Construction of sub base as per table -400-1								
		B(i) Disintegrated rock i.e. Moorum having value of CBR not less than 20 & value of PI & LL not more than 6 & 20 respectively.								
	for road	front entrance	1	70.00	9.00	0.35	220.50			
		circle - front & back	1	145.00	6.00	0.35	304.50			
		ramp- front & back	4	30.00	6.00	0.35	252.00			
		left & right building	2	80.00	6.00	0.35	336.00			
		turning=9x9/2	4	40.50	sqm	0.35	56.70			
	for paver	paver block	1	445.00	5.00	0.55	1223.75			
							2393.45	Cum		
5	{Page.No.- 27, Item No.- 6.6}.	Providing and laying cement concrete for plain concrete/ reinforced concrete i/c form work, shuttering complete in as per drawings and specifications.(For Village roads)								
	for road	front entrance	1	70.00	9.00	0.15	94.50			
		circle - front & back	1	145.00	6.00	0.15	130.50			
		ramp- front & back	4	30.00	6.00	0.15	108.00			
		left & right building	2	80.00	6.00	0.15	144.00			
		turning=9x9/2	4	40.50	sqm	0.15	24.30			
	for paver	paver block	1	445.00	5.00	0.15	333.75			
		outer plinth protection foundation -pcc	1	445.00	0.60	0.15	40.05			
bottom	(iii)	PCC M-10					875.10	Cum		

		front entrance	1	70.00	9.00	0.20	126.00			
		circle - front & back	1	145.00	6.00	0.20	174.00			
		ramp - front & back	4	30.00	6.00	0.20	144.00			
		left & right building	2	80.00	6.00	0.20	192.00			
		turning=9x9/2	4	40.50	sqm	0.20	32.40			
top	(iv)	PCC M-30					668.40	Cum		
6	Page no.45,Code no. 7.5	7.5 Brick work with modular fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in foundation and plinth in: 7.5.4 Cement Mortar 1:6 (1	1	445.00	0.30	1.00	133.50			
		outer plinth protection wall					133.50	Cu.M.		
7	(P.No.- 120,C.N.12.6 5)	Providing & laying 60mm thick precast interlocking concrete blocks of approved size (approx 305 sqcm) and shape / pattern, over 40mm thick average complete coarse sand bed with joints of 3mm thick filled by fine sand including levelling with surface vibrator, temping and sweeping etc. complete of minimum compressive strength of 250 kg/sqcm. 12.65.1 plain/ normal coloured precast interlock concrete block	1	200.00	5.00	-	1000.00			
							1000.00	Sq.M.		
									Total Rs.	
Total Cost								Say Rs.		

Note: - Any item may be changed at the time of execution of work with prior permission of superintendent physical plant as per site and other condition

ELECTRICAL ESTIMATE OF EXTERNAL STREET LIGHTING

CG SOR-2015, ITEMS

Sl. No.	Ref. item No.	Description of items	Unit	QTY	Rate	Amount
		(External Lighting)				
1	Item No.- 21.7.1	21.7 Supply of hot dipped galvanized (in single dip to average 65 micron) octoganal pole made of 3mm thick steel sheet having window and flush cover with locking arrangement at suitable height from base for cable termination block, pole suitably reinforced with welded steel section at window cut section to make the strength of pole unaffected, with following minimum specifications including 3mm thick anchor plate, 4 nos 20mm dia foundation bolts of EN8 grade. (designed for wind speed upto 150km/hr) 21.7.1 - 6 metre high, dia 130mm at bottom and 75mm at top	each	32		
2	Item No.-21.9	21.9 Supply and fixing following street light pole bracket on existing pole made out of 50 mm dia MS "B" class pipe welded to 300 mm long MS pole canopy of suitable dia at a angle of 102.50 including having MS triangular stiffner of size 150 X 50 X 5 mm thick, making arrangement for tightening the bracket with pole by providing suitable				
2a	Item No.- 21.9.1	21.9.1 Single Over Hang 0.75 metre Long	Each	32		
2B	Item No.- 21.9.3	21.9.3 Single Over Hang 1.50 metre Long	Each	32		
3	Item No.- 21.11	21.11 Erection of GI octogonal/ tubular pole on existing cement concrete foundation having grouted bolts and nuts, aligning in true vertical position as required.				
3a	Item No.-21.11.1	6 metre high	Each	32		
4	32.1	32.1 Earth work in all type soil except soft rock / hard rock with all lead and 1.5 metre lift, dressing, stacking excavated strata including refilling of excavated soil in trench / cut				
		size - 0.6x0.6x0.6 = 0.216 cum x 32 nos	CUM	6.912		

Sl. No.	Ref. item No.	Description of items	Unit	QTY	Rate	Amount
5	Item No.- 21.12	21.12 Designing and providing suitable RCC foundation in Cement Concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size) for 3 mere to 12 metre high GI octagonal pole including steel reinforcement (minimum 90kg per cum), form work, embedding 2 nos 50mm dia PVC pipe for cable entry				
5a	21.12	size - 0.6x0.6x0.6 = 0.216 cum x 32 nos	CUM	6.912		
6	17.3	17.3 Supplying and laying following sizes one number PVC insulated/ XLPE, PVC sheathed, steel armoured, aluminium conductor power cable of 1.1 KV grade in existing RCC/ HUME/ STONEWARE/ METAL/ HDPE pipe as required.				
6a	17.3.3	2 x 10 sq. mm	mtr	192		
6b	17.3.4	2 x 16 sq. mm	mtr	32		
7	3.15	3.15 Supplying and fixing of following sizes PVC conduit along with accessories in concealed complete as required				
	3.15.4	40 mm Metre	mtr	1024		
8	5.11	5.11 Supplying and drawing following sizes of FR PVC insulated copper conductor, single core cable in the existing surface/ concealed, steel/ PVC conduit/ PVC casing capping as required.				
		5.11.3 3 x 1.5 sq. mm	MTR	128		
9	11.11	11.11 Supplying and fixing SP MCB, 240 volts, 'C' curve, suitable for inductive load in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
	11.11.2	6 amps to 32 amps	EACH	32		
10	17.28	17.28 Supplying, fixing and cramping suitable size and all type aluminium ferule/ lugs to following size 1.1 KV grade power cable core / lead, pressed with high pressure connection to switch gear/ MCCB etc as required				
	11.11.2	10 sq. mm Each	EACH	32		

Sl. No.	Ref. item No.	Description of items	Unit	QTY	Rate	Amount
11	17.23	17.23 Supplying and making end termination with brass compression gland and aluminum lugs for following size armoured aluminum conductor power cable of 1.1 KV grade as required.				
	17.23.24	4 X 16 sq. mm (22 mm)	EACH	32		
12	14.2	14.2 Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal and salt as required. Set 3454.00				
	14.2	4 X 16 sq. mm (22 mm)	SET	1		
13	14.15	14.15 Providing and fixing 25 mm X 5 mm G.I. strip in 40 mm dia G.I. pipe from earth electrode at 0.5 Metre depth below ground level including excavation and refilling				
	14.15	4 X 16 sq. mm (22 mm)	MTR	64		
14	14.19	14.19 Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing along with existing surface/ concealed conduit/ submain wiring/ cable as				
	14.15	4 X 16 sq. mm (22 mm)	MTR	64		
15	9.19	9.19 Fabrication, supply, installation, testing and commissioning of cubicle type compartmentalized wall/ floor mounted power cum control panel board of specified size and following depth made out of not less than 2 mm thick CRCA MS sheet with suitable size compartments for bus bars, switchgears and necessary cutouts for voltmeters, ammeters etc as per specifications including powder coating painting but without busbars, switchgears and other accessories etc complete as required.				
	9.19.1	Upto 300 mm deep	SQM	1		
16	9.19	9.20 Supply, installation, testing and commissioning of 4 pole (3 phase + neutral) aluminium bus bars in existing cubicle type compartmentalized wall/ floor mounted panel board along with suitable size and shape insulators, necessary bolts and nuts etc complete as required.				
	9.20.1	100 amp (20x5mm)	MTR	32		

Sl. No.	Ref. item No.	Description of items	Unit	QTY	Rate	Amount
17	11.1	11.1 Providing and fixing following rating and breaking capacity MCCB in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc.				
	11.1.3	18KA	each	1		
18	11.16	11.16 Supplying and fixing TP&N MCB, 440 volts, 'C' curve, suitable for lighting and other loads in the existing MCB DB complete with connections, testing and				
	11.16.2	6 amps to 32 amps	each	2		
19	12.13	12.13 Providing and fixing 3 pole, 415/500 volts following rating (AC-1 Duty) power contactor in existing starter/ cubical panel including, connections, testing and commissioning etc. as required.				
	12.13.2	40 amps	each	32		
20	8.3	8.30 Supplying, installation, testing and commissioning of following 230/250 volts LED street light fitting with all accessories like driver, heat sink made of die cast aluminium with IP 66 protection and 5 KV surge protection on pole bracket complete as required and furnishing 2 Yrs Guarantee certificate from manufacturer. 8.30.5 120 watt	each	32		
21	12.21.1	12.21 Providing and fixing panel mounting selector switch in existing cubical panel including, connections, testing and commissioning etc. as required.	each	32		
	12.21.2	ammeter	each	32		
22	12.18	12.18 Providing and fixing panel mounting following rating analog type ammeter of size 100x100 (NS) in existing cubical panel including, connections, testing and				
	12.18.2	0-100 amps	each	32		
23	12.2	12.20 Providing and fixing panel mounting 0-500 volt voltmeter of size 100x100 (NS) in existing cubical panel including, connections, testing and commissioning etc. as required.				
	12.20.1	Analog type	each	2		

Sl. No.	Ref. item No.	Description of items	Unit	QTY	Rate	Amount
24	12.22	12.22 Providing and fixing following Time switch (timer) in existing panel including connection, testing and				
	12.22.2	Analog type	each	1		
25	16.4	16.4 Supplying and laying following size RCC Hume pipe class NP-2 (in standard length of 2 metre) with collar in ground below road, path etc at a depth not less than 50 cm and upto 90 cm including excavation, dismantling of road if required and refilling the trench with excavated material, ramming and making the surface good etc. as required.				
	16.4.2	150 mm dia Metre	each	32		
					Total	
			Total Rs.			

INDIRA GANDHI AGRICULTURE UNIVERSITY

SUBSTATION (HT LINE) OF ADMINISTRATIVE BUILDING FOR I.G.K.V. AT RAIPUR (C.G.)

ABSTRACT SHEET

NON SOR

S.N	PARTICULARES	AMOUNT
1	ESTIMATE COST OF SUBSTATION-500 KVA	Rs.

	TOTAL ESTIMATED COST	Rs.

DETAILED ESTIMATE OF SUBSTATION / H.T.LINE WORKS OF ADMINISTRATIVE BUILDING FOR I.G.K.V AT RAIPUR

Sr.No.	Description	Unit	Qty	Unit Rate	Amount	Make
1	Supply assembly, erection testing & comissioning of four pote structure for transformer sub-station complete with 4 nos pole 37 kg/mtr 11mtr long 152x152mm h beam painted with red oxise & aluminium paint necessary civil work. 6 nos heavy duty station class type lighting arrestor of 30kv, 9kv rating 3 set 3post tilted type gang operated switch of 400 amp rating complete with operating handle pipe & pad locking arrangement / dropout. handle tuses unit 200amp with drop out fuseof 5 amp rating 2 set pin insulator with G.I. pins etc. as required . the structure should be complete with base plate, cross . arms (miniumum,x-section 100mmx50mm) clamps nut-bolts, cross brazing disc, hardware grapher, dog conductor for bus bar arrangement & A.C.S.R consuctor from first insulator to transformer H.I bushing termination throught G.O. switch D.O. fuse & lighting arrestor etc including binding etc, other accessories hardware neccesary anti climbing device etc for 4 pole structure as required.	job	1			
2	supply assembly, erection testing & comissioning of 500 KVA 33/0.433 KV 3 phase SQHZ oil immersed outdoor type stem down transformer having delta connection on primary side & star connection on secondary side complete with all modern fitting as given in the specification including silica gel breather oil conservator lifting lugs wheel oil level gauge oil drain vive thermometer, earthing terminal diagram & rating plate, explosion vent-off load tap changer in stem of=2.5%==5%	job	2			
3	Sub-station liasoning work with prepration of electrical drawing approval of electrical inspector submission of test report, inspection of sub-station & getting permission to charge transformer	job	1			
4	providing & fixing earthing arragement with 600x600x3mm copper plate elect ride including accessories & providing masonary elnclosure with cover plate having loking arrangement & 20mm watering pipe with panel etc. complete as required as per existing code of practice 13:3043	nos	7			
5	providing & fixing 25x3mm copper strip on surface or in recess in ground for connection etc as required.	mtr.	150			
6	providing & fixing HT danger notice plate of 250mmx200mm made of mild steel at lease MM thock & vitreous enameled, white on both side & with inscription in single red color on front side as required.	nos	4			
7	providing & fixing of buckets of approved quality painted red conforming /1974 duly amended up to date as required.	nos	4			
8	suppying of fixing of M.S. pedestal stand suitable for supporting four buckets as reured.	nos	1			
9	supply of hand glows (1pair), DO operating rod (1set), first aid box(1 no)	set	1			
10	supplying &fixing of shock treatement/ restoration chart writer in hindi & english as required.	nos	1			
11	supply of PVC insulated armoured heavy duty, power cable sheathed aluminium armoured power cable (conforming Is 1554-1964)1100- volt grade 3.5 core 300sqmm. Alu. Arm cable ISI marked with alum. Stranded/ solid consuctor.	mtr.	800			
12	Supply & fixing cramping type alu. Lugs & single compression gland as per ISS specification suitable for 300 sqmm cable & connection to switch gear/ bus/MCCB etc as required.	Each	64			

13	Laying of one number PVC insulated & PVC sheathed power cable 1.1 Kv grade of size 240 sqmm but not exceeding 300 sqmm direct in ground in the same trench in one tier horizontal formation including excavaton sand cushioning refilling the pit as required.	mtr.	800			
14	providing all material & construction of plate form of size 0.9mx1.2m & as per drawing approval by D.E.I high above the ground level constrction of plinth should be as respect for 500 KVA transformers.	job	2			
15	providing all material & construction of chain link fencing & gate as per drawing attached including painting of steel surface with two coats of red oxide primer etc as required for transformer sub-station supporting angle for chain link fencing should be 50x50x6mm.	job	1			
16	yard moorum filling & levelling of yard.	job	1			
17	yard metalling with 40mm metal.	job	1			
18	inter connection with alu. Strip as required	job	1			
a	a. 186 KVA capacitor bank - 2 nos					
	b. 300 amp. Mccb for incoming - 2 nos					
	c. 400 amp. Mccb for outgoing - 6 nos					
	d. 630 amp.sfu switch for change over - 1 nos					
	e. 16x10mm tpm alu. Bus bar with heat shrinkable shrink sleeve for color code.					
	f. LED indicator with control fuse					
	g. 0.500V digital volt meter					
				Total Amount (A)		
				SAY Rs.		

**PROPOSED FALSE CEILING, WALL PANELING & OTHER ITEMS FOR
ADMINISTRATIVE BUILDING AT I.G.K.V- RAIPUR (CG)**

ABSTRACT SHEET

S.NO.	PARTICULARES	AMOUNT
	NON SOR ITEM	
1	FALSE CEILING , WALL PANELING, L.E.D. LIGHTS	
2	MAIN DOOR, TOILET DOOR, FLUSH DOOR, DOOR FITTING ITEM & WPC CUT WORK	
<i>TOTAL ESTIMATED COST RS.</i>		

INDIRA GANDHI AGRICULTURE UNIVERSITY
PROPOSED ADMINISTRATIVE BUILDING FOR I.G.K.V.-RAIPUR (C.G.)

DETAILED ESTIMATE OF FALSE CEILING ,WALL PANELLING AND LED LIGHTS WORK

S.N.	C.N.	Item Work	L	W	H	TOTAL QTY.	Unit	Rate	Amount
1	A	MINERAL FIBER CELING							
		Providing and fixing of false ceiling at all heights of 600mmx 600mmx12mm arm strong /anutone mineral fiber ceiling tiles. Including complete framework with G.I. channels suspended from R.C.C. ceiling /beams.The cost shall include all materials, labor etc. complete. (Armstrong or equivalent brand)							
		GROUND FLOOR				600	SQM.		
		FIRST FLOOR				600	SQM.		
		SECOND FLOOR				800	SQM.		
						2000	SQM.		
		Area considered for mineral fiber ceiling		80% '		1600.00	SQM.		
2	B	GYPSON CEILING							
		Providing and fixing gypsum false ceiling as per the given design in 12.5mm. thick Gypboard (POP) plain false ceiling with GI suspended from RCC slab/Beam as approved by Architect including G.I. Parameter Channels of size 0.55mm. thick having one flange of 20mm. and another flange of 30mm and web of 27mm along with parameter of ceiling, screw fixed, to the brick wall / partition with the help of nylon sleeves and screws at 600mm. C/C. The suspended G.I. Intermediate channels of size 45x0.9mm. thick with two flanges of 15mm. each from the sofit at 1200mm. C/C with GI cleats and steel expansion fasteners. Ceiling sections of 0.55mm. thick having web of 51.5mm. and two flanges of 26mm. each with lips of 10.5mm. (Finished vertical band will be considered for measurement) (Sant, gobain, Gyproc, Usg or equivalent brand)							
			20%			400.00			
			10%	vertical band		200.00			
						600.00	SQM.		
3	A	PVC WALL PANELLING							

		Providing and fixing wall panelling work with pvc wall panels 8mm thk. And 300mm wide with complete framing work and all accessories.							
		GROUND FLOOR -comptroller, registrar, spp cabin	3	24	3	216			
		conference	3	30	3	270			
		FIRST FLOOR - directors cabin	4	24	3	288			
		conference	2	30	3	180			
		SECOND FLOOR							
		Registrar, comptroller cabin	2	24	3	144			
		conference	1	30	3	90			
		vip lounge	1	20	3	60			
						1248.00	sqm		
4	A	PVC FALSE CEILING							
		Providing and fixing pvc false ceiling work with pvc panels 8mm thk. And 300mm wide with complete framing work and all accessories.							
		GROUND FLOOR - Director cabin	2	4.8	5.4	51.84			
		FIRST FLOOR - Director cabin	2	4.8	5.4	51.84			
		SECOND FLOOR - VC chamber,	5	2.5	4.8	60			
		Registrar and comptroller	2	7.7	5.4	83.16			
		conference	1	8	4.8	38.4			
						285.24	sqm		
5	B	WOODEN VENEER PANELLING							
		Providing and fixing wall panelling work with Aluminium framing, 12mm thk. BWP grade plywood And 2mm thk veneer of approved shade and all accessories. (Century, Green ply, Archid ply or equivalent brand)							
		SECOND FLOOR - VC cabin	1	56	3	168			
						168.00	sqm		
6		LED LIGHTS							
		Supply, fixing, testing and commissioning of Recess mounted LED luminaries with complete PMMA difuser in metallic frame, held securely to the main body, epoxy, white powder coated CRCA sheet steel housing, pre wired with vacuum presser impregnated copper ballast. RATED LIFE SHOULD BE MORE THAN 50000 BURNING HOURS (WITH REPLACEMENT GUARANTEE OF THE SUPPLIER) MAKE: WIPRO / Philips / Crompton // Havells /Syska or equivalent brand							

		FLOOR	G.F.	F.F.	S.F.	TOTAL			
	A	38W Approx. Dimensions:600 X 600 mm	50	50	50	150	Nos.		
	B	15w (High efficiency circular LED Downlighter)	200	200	200	600	Nos.		
	C	2-4 watts SPOT LIGHT	20	20	50	90	Nos.		
								Total Rs.	

DETAILED ESTIMATE OF NON SOR ITEM

S.N.	Item Work	No.	Length	B.	D/H	Qty.	Unit	Rate	Amount
1	Providing and fixing of Wood Plastic Composite board (WPC) CNC Cut jali work with all necessary vertical and horizontal supports in aluminium / ms frames. The board should be 18mm thk. With density 650kg/m3. and 100% Waterproof & 100% Termite & Borer proof The cnc cut work design will be as directed by Engineer incharge .								
		4	3.00	-	10.00	120.00	sqm		
	Entrance door & side fix Tuffan Glass								
2	Providing and fixing at site ,single / Double leaf Main entrance door made up of 12mm. thick tuffan Glass fitted with necessary S.S. Patch fittings and heady duty floor spring , bottom lock, brush, finished stainless steel , handels 600mm long. The floor spring shall be Godrej, Ozon, Dorma make. The shutter will have mono /logo inscribed with film coating .the cost shall include all necessary fittings, all labour, materials, etc. complete.								
	Terms and Conditions 1. All the civil work required for the Installation, testing & trial and commissioning of Motorized Sliding Door is in the scope of the firm. 2. The Bidders need to study & design the Sliding Doors, they may visit CNP (if required). 3. The firm shall guarantee the material & workmanship of the Motorized Sliding Doors for a period of 12 months from the date of acceptance by the CNP.								
	entrance - front and back door	4	1.20	-	2.50	12.00	sqm		
	side fix part in 12mm thk toughened glass with SS patch fittings	4	3.30	-	3.00	39.60	sqm		
3	Providing and fixing 25mm thk Wood Polymer Composite (WPC) door with 75mmx50mm section door frame including all labour material, fitting like hinges, handle, tower bolt, slide bolt etc								
	TOILET DOOR -G.F.	25	0.75	-	2.10	39.38			
	TOILET DOOR -F.F.	21	0.75	-	2.10	33.08			
	TOILET DOOR -S.F.	13	0.75	-	2.10	20.48			
						92.93	sqm		

4	Providing and fixing water proof flush door condfirming to is: 2202 (part-i) decorative type, core of block board construction with frame of first class hard wood and well matched teak ply veneering with vertical grains or cross bands and face veneers on both faces of shutters excluding hinges 30 mm. thick (single leaf) -Only for directors cabin								
	TOILET DOOR -G.F.	7	0.75	-	2.10	11.03			
	TOILET DOOR -F.F.	6	0.75	-	2.10	9.45			
	TOILET DOOR -S.F.	7	0.75	-	2.10	11.03			
						31.50	sqm		
5	Providing and fixing flush door condfirming to is: 2202 (part-i) decorative type, core of block board construction with frame of first class hard wood and well matched teak ply veneering with vertical grains or cross bands and face veneers on both faces of shutters excluding hinges 8.12.1 40 mm. thick (single leaf)								
G.F.	D	12	1.50	-	2.50	45.00			
	D1	23	1.20	-	2.50	69.00			
	D2	9	1.00	-	2.50	22.50			
	D3	11	0.90	-	2.50	24.75			
F.F. EXTENSION									
	D	4	1.50	-	2.50	15.00			
	D1	3	1.20	-	2.50	9.00			
	D2	4	1.00	-	2.50	10.00			
	D3	4	0.90	-	2.50	9.00			
F.F. REMAINING									
	D	8	1.50	-	2.50	30.00			
	D1	20	1.20	-	2.50	60.00			
	D2	5	1.00	-	2.50	12.50			
	D3	7	0.90	-	2.50	15.75			
S.F.+tower									
	D	2	1.50	-	2.50	7.50			
	D1	13	1.20	-	2.50	39.00			
	D2	2	1.00	-	2.50	5.00			
	D3	6	0.90	-	2.50	13.50			
					Total	387.50	sqm.		
		G.F.	F.F.EXTENSION	F.F.REMAINING	S.F.	TOTAL			

6	Providing and fixing of floor spring IS: marked (Godrej, Ozone, Enox or any equivalent make) with stainless steel cover plate including cutting and making good the floor etc. complete.	8	4.00	8.00	2.00	22.00	Each		
7	door fitting items (Godrej or any equivalent make								
a	Providing and fixing bright finished brass butt hinges with brass polished MS screws complete:								
	bult hinges 125x85x5.5mm (heavy)	348	168	360	92	968.00	Each		
b	Providing and fixing bright finished brass sliding door bolt with nuts and brass polished MS screws complete:								
	sliding door bolt 300x16mm	116	56	120	30.667	322.67	Each		
c	Providing and fixing brass door latch with brass polished MS screws complete:								
	door each 250x16x5mm	116	56	120	30.667	322.67	Each		
d	Providing and fixing bright finished brass tower bolts (barrel type) with brass polished MS screws complete:								
	tower bolt 150x10mm	116	56	120	30.667	322.67	Each		
e	Providing and fixing bright finished brass door handles with brass polished MS screws complete:								
	handle 125mm	116	56	120	30.667	322.67	Each		
f	Providing and fixing bright finished brass hanging door stopper with necessary brass finished MS steel screws complete.								
	P/F hanginh door stopper	58	28	60	15.333	161.33	Each		
7	Scrubbing of existing wall putty before aplication of paint including all labour etc								
	G.F.					8839.49			
	F.F.					3252.37			
	F.F.					2882.18			
						14974.04	sqm		

8	Providing and fixing fiber glass reinforced polymer (FRP) decorative type moulding/ cornice work 200x200mmx4mm thk as per given design.					50.00	rmt		
9	Providing and fixing RCC decorative type moulding/ cornice work 300x200mmthk including shuttering, reinforcement, cement concrete complete labour and material. as per given design.					100.00	rmt		
								Total Rs.	

INDIRA GANDHI AGRICULTURE UNIVERSITY

**ESTIMATES OF SANITARY WORKS (GROUND , FIRST & SECOND FLOOR) OF ADMINISTRATIVE
BUILDING FOR I.G.K.V. AT RAIPUR (C.G.)**

ABSTRACT SHEET

[As p **NON SOR ITEMS**

S.N	PARTICULARES	AMOUNT	
1	ESTIMATED COST OF SANITARY WORK	Rs.	
	GROUND FLOOR+FIRST FLOOR+SECOND FLOOR BUILDING		
	TOTAL ESTIMATED COST	Rs.	

DETAILED ESTIMATE OF REMAINING SANITARY WORKS OF ADMINISTRATIVE BUILDING AT RAIPUR

Note- All sanitary and plumbing fixtures should be of (Hindware, cera, parryware,jaguar) and pvc pipes should be of Astral, Finolax, Ashirwad, supreme or equivalent brand as per instructions of engineer in charge

S.N.	Item Work	G.F.- Qty.	F.F.- Qty.	S.F.- Qty.	Total Qty.	Unit	Rate	Amount
1-a	Providing and fixing vitreous china water closet (Europeantype W.C. pan) with white ISI marked plastic seat and lid, with all fittings and fixtures completeincluding cutting and making good the walls and floorswherever required : White wall hung type	16.00	14.00	15.00	45.00	each		
1-b	Providing and fixing metro pole flush valve made up of brass and chrome foated.	16.00	14.00	15.00	45.00	each		
1-c	Providing and fixing Health Faucets with SS-304 Grade 1 Meter Flexible Hose Pipe and Wall Hook, Chrome Finish.	16.00	14.00	15.00	45.00	each		
1-d	Providing and fixing Toilet Seat/Commode Jet Spray (Multi Type) (1 Meter) Stainless Steel Grade 304 Jet Spray.	16.00	14.00	15.00	45.00	each		
1-e	Toilet paper holder	16.00	14.00	15.00	45.00	each		
2-a	Providing and fixing white vitreous china urinal basin with waste fitting as per IS : 2556, and other couplings in C.P. brass complete: Flat back half stall urinal of size 460x380x250mm	26.00	26.00	8.00	60.00	each		
2-a	Providing and fixing one piece construction white vitreous china squatting plate urinal with an integral rim longitudinal flushing pipe, standard size G.I. flush pipe for back and front flush, C.P. brass coupling complete including cutting and making good the walls and floors etc. wherever required :	0.00	0.00	0.00	0.00	each		
3	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 :							
3-a	White Size 550x450 mm	10.00	10.00	6.00	26.00	each		
3-b	White Oval or round size 550x400mm.	26.00	20.00	12.00	58.00	each		

4-a	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink with drain board as per IS 13983 with C.I. brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required : 915x460 mm bowl size 410x355x175 mm	1.00	2.00	2.00	5.00	each		
5	19.14 Providing and fixing 15 mm nominal bore C.P. brass fittings of approved make and conforming to IS:8931 including C.P. brass extension if required:							
5-a	bib cock (500 grams)	40.00	40.00	15.00	95.00	each		
5-b	Two way bib cock (800 grams)	25.00	25.00	15.00	65.00	each		
5-c	Stop cock (concealed) (600 grams)	70.00	70.00	15.00	155.00	each		
5-d	Pillar Cock (400 grams)	35.00	35.00	18.00	88.00	each		
5-e	Soap dish plate	20.00	20.00	12.00	52.00	each		
5-f	Towel rail (600mm long x 20mm dia)	20.00	20.00	12.00	52.00	each		
6	18.25 Providing and fixing flexible P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. 18.25.1 32 mm dia	25.00	25.00	15.00	65.00	each		
7	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing : 15mm thick mirror size - 450x750mm	20.00	20.00	15.00	55.00	each		
8	Providing and fixing on wall face UV stabilized Unplasticised - PVC moulded fittings/ accessories having 3.2mm wall thickness for Rigid PVC pipes conforming to IS : 13592 (heavy) jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion.							
8-a	"P" trap 110mmx110mm long	10.00	10.00	10.00	30.00	each		
8-b	Nahani trap 110x75mm	10.00	10.00	10.00	30.00	each		
8-c	Multi floor trap 110	10.00	10.00	10.00	30.00	each		
8-d	Plain reducing Tee 110x75mm	10.00	10.00	10.00	30.00	each		
8-e	Tee/ Tee with door/ Bend 45°/ Bend 90° -75MM	10.00	10.00	10.00	30.00	each		
8-f	Double "Y" with or without door	10.00	10.00	10.00	30.00	each		
8-g	Vent cover - 75 mm	10.00	10.00	10.00	30.00	each		
8-g	Access door cap 75 mm	10.00	10.00	10.00	30.00	each		
9	RAIN WATER PIPE LINE WORK - Providing and fixing on wall face and along the ground 110 mm diameter unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes with all necessary fixtures like Coupler, bend, tee, shoe complete as per direction of Engineer in Charge.	20.00	20.00	15.00	55.00	Mtr		

