

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

**BILL OF QUANTITY OF PROPOSED BOYS HOSTEL BUILDING (75 BEDDED) AND  
GIRLS HOSTEL BUILDING (75 BEDDED) FOR COA-AT PRATAPPUR/ SHANKERGARH/ PAKHANJUR/  
GARIYABAND (C.G.)**

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

### BILL OF QUANTITY OF PROPOSED BOYS HOSTEL BUILDING (75 BEDDED) FOR COA-AT PRATAPPUR/ SHANKERGARH/ PAKHANJUR/ GARIYABAND (C.G.)

#### ABSTRACT SHEET

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

S.NO.	PARTICULARES	AMOUNT
<b>A</b>	<b>BUILDING CIVIL WORKS</b>	
A-1	ESTIMATED COST OF GROUND FLOOR ( AREA - 900 SQM)	
A-2	ESTIMATED COST OF FIRST FLOOR ( AREA - 760 SQM)	
A-3	ESTIMATED COST OF STAIRCASE TOWER AND TERRACE	
A-4	ESTIMATED COST OF PLINTH PROTECTION	
TOTAL-A (RS)		
<b>B</b>	<b>WARDEN QUARTER</b>	
B-1	ESTIMATED COST OF WARDEN QUARTER (G-type)	
TOTAL-B (RS)		
<b>C</b>	<b>DEVELOPMENT WORKS</b>	
C-1	ESTIMATED COST OF APPROCH C.C.ROAD	
C-2	ESTIMATED COST OF RAIN WATER HARVESTING SYSTEM	
C-3	ESTIMATED COST OF TUBE WELL WITH SUBMERSIBLE PUMP	
C-4	ESTIMATED COST OF LAND DEVELOPMENT	
TOTAL-C (RS)		
TOTAL COST-A+B+C (RS)		
SAY COST 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 RAIPUR (C.G.)**  
**PROPOSED BOYS HOSTEL BUILDING (75 BEDDED) FOR COLLEGE OF AGRICULTURE**

**BILL OF QUANTITY OF GROUND FLOOR**

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

S. N.	Code No.	Item Work	Qty.	Unit	Rate	Amount
<b>Excavation and Earth filling</b>						
1	(Page no.9, Code no. 1.2)	Surface dressing of the ground including removing vegetation and making up undulations and in-equalities not exceeding 15 cms in depth/ height including disposal of rubbish upto 1.5 m lift and lead upto 50m (at least 5m away from the dressed area)	900.00	Sqm.		
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 .	881.35	Cu.M.		
2b	(P.NO.-11,C.N.-1.17 )	Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering with a lead upto 50 M. and lift upto 1.5 M.	242.81	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 layer not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete.	1501.71	Cum.		
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).	128.36	Cu.M.		
5	(P.NO.-12,C.N.-1.25 )	Diluting chemical emulsion (Chlorpyrifos/ lindane) in water as per manufacturers recommendation and injecting for preconstructional curative cum preventive anti- ermitetreatment:(Five year service guarantee bond to be signed by contractor) 11CodeNoDescriptionUnitRateRs. 1.24.1 Surface treatment by spreading emulsion under floor, over the plinth area before laying base concrete @ 5 litres / sqm.				
a	(P.NO.-12,C.N.-1.25.1 )	1.22 Supplying chlorpyrifos/ Lindane emulsifiable concentrate of 20% in sealed containers including delivery as specified.	2700.00	ltr.		
b	(P.NO.-12,C.N.-1.25.1 )	1.24.1 Surface treatment by spreading emulsion under floor, over the plinth area before laying base concrete @ 5 litres / sqm.	900.00	Sqm.		

S. N.	Code No.	Item Work	Qty.	Unit	Rate	Amount
c	(P.NO.-11,C.N.-1.24.2 )	Treatment of inside of plinth masonry wall on using diluted chemical emulsion @ 1.5 litre per hole, including drilling 12 mm diameter holes in plinth wall below plinth protection at the intervals of 300 mm and plugging with cement mortar 1 :2 (1cement : 2 Coarse sand).	215.00	Mtr.		
d	(P.NO.-12,C.N.-1.25.3 )	Treatment of outer side of plinth masonry wall using diluted chemical emulsion @ 1.5 litre per hole, including drilling 12 mm diameter holes in plinth wall at the junction of floor at the intervals of 300 mm and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand).	215.00	Mtr.		
<b>Shuttering &amp; Formwork</b>						
6	( 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				
	2.1.1 Foundations, footings, bases of columns plinth beam, curtain wall in anyshape and size ar		1056.06	Sq.M.		
	2.1.5 Columns, Pillars, Piers and likes- rectangular or square in shape		370.92	sqm.		
	2.1.2 Wall of any thickness including attached pilasters, buttresses etc. in superstructure.		1936.15	sqm.		
<b>RCC WORK</b>						
7	Page no.23,Code no. 3.3	3.3 Providing and laying design mix reinforced cement concrete with crushed graded stone aggregate 20mm nominal size using batching plant, transit mixer and concrete pump, in all works upto plinth level excluding cost of form work.				
		(3.4.2) M-20	468.40	cum.		
8	Page no.24,Code no. 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:				
		3.12.2 Thermo-Mechanically treated bars FE 500D	60892.20	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.	5.42	cum.		
10	(P.No.-24,C.N. 3.15)	Applying a coat or not bitumen 30/40 using @ 1.7 kg./sqm on damp froof copurse after cleaning the surface of brushes and finally with a piece of cloth lighty socked in kerosine oil.	107.00	Sqm.		
<b>BRICK WORK</b>						
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)	114.38	Cu.M.		

S. N.	Code No.	Item Work	Qty.	Unit	Rate	Amount
12	(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	274.65	cum.		
<b>PLASTERING WORK</b>						
13	(P.No.- 103,C.N.11.3.4)	15mm thick cement plaster on the rough side of single or half brick wall of mix: Outer side of walls.(1:6)	894.15	sqm.		
14	Page no.103,Code no. 11.2.4	12mm thick cement plaster of inner side of walls.(1:6)	1960.61	sqm.		
15	(P.No.- 103,C.N.11.1.1)	Ceiling plaster 6mm thick cement plaster In Cement mortar 1:3 (1 cement : 3 fine sand)	1047.53	sqm.		
16	(P.No.- 111.C.N.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	1047.53	sqm.		
17	(P.No.- 106,C.N.11.32)	moulded mortar band in cement mortar 1:4 per cm width a(18mm thick)	1290.00	Mtr.		
<b>DOOR &amp; WINDOW</b>						
18	(P.No.-81,C.N.9.16	Providing and fixing M.S. frames of doors, windows and ventilators joints mitred and welded with 15x3 mm lugs 10cm long embedded in cement concrete blocks 15x10x10cm of grade M-10 or with wooden plugs and screws or with dash fastener or rawl plugs and screws or with fixing clips or with bolts and nuts as required including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer. 9.11.2 Angle-iron frames Equal angle size 40x40mm (4mm thick)	1100.64	kg.		
19	(P.No.- 56,C.N.8.12.2.)	Providing and fixing flush door shutters 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 8.10.2 35 mm. thick (single leaf)	66.87	sqm.		
B	8.13.5	8.13.5 25 mm. thick (double leaf for cupboard shutters with piano type hinges	97.02	sqm.		
20	(P.No.- 74,C.N.8.151)	8.157 Providing and fixing factory made P.V.C. door frame of size 50x47mm with a wall thickness of 5mm, made out of extruded .manufacturers specification and direction of Engineer-in-Charge.	68.40	Mtr.		

S. N.	Code No.	Item Work	Qty.	Unit	Rate	Amount
21	(P.No.-74,C.N.8.151)	PVC DOOR Providing and fixing 30mm thick factory made panel PVC door shutter consisting of frame made out of m.s. tubes of 19 gauge th. and size of 19mmx19mm for styles and 15x15mm for top & bottom rails M.S. frame shall have a coat of steel primer of approved make and manufacture M.S. frame covered with 5 mm th. heat	18.90	Sq.M.		
<b>STEEL &amp; ALUMINIUM WORK</b>						
22	(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.	4.50	sqm		
23	(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	3268.80	K.g.		
24	(P.No.-85,C.N.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 and panelling to be paid for separately				
	(C.N. 9.45.2)	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).	1089.60	K.g.		
25	(P.NO-85,C.N.9.48)	Extra for powder coated (minimum 50 micron) aluminium sections instead of anodized.	1089.60	Kg.		
26a	(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	108.96	Sqm.		
26b	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.	108.96	Sqm.		

S. N.	Code No.	Item Work	Qty.	Unit	Rate	Amount
27	8.165 D.3	Two track two panels sliding window made of (big series) frame 67x50mm & sash 46 x 62 mm both having wall thickness of 2.3+0.2mm and single glazing bead/double glazing bead of appropriate dimension (Area of window above 1.75 sqm upto 2.50 sqm)	4.50	sqm		
28	(P-86,C.N. 9.56)	Providing and fixing of floor spring IS: marked (Everite, Door link or any equivalent make) with stainless steel cover plate including cutting and making good the floor etc. complete.	2.00	Each		
29	(P-86,C.N. 9.56)	Providing and fixing of floor spring IS: marked (Everite, Door link or any equivalent make) with stainless steel cover plate including cutting and making good the floor etc. complete.	1.00	Each		
30		door fitting items				
	8.77.1	bult hinges 125x85x5.5mm (heavy)	120.00	Each		
	8.60.1	sliding door bolt 300x16mm	82.00	Each		
	8.80.2	door each 250x16x5mm	82.00	Each		
	8.62.3	tower bolt 150x10mm	82.00	Each		
	8.65.1	handle 125mm	82.00	Each		
	8.76	P/F hanginh door stopper	41.00	Each		
31	(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.	60.00	Kg.		
<b>FLOORING WORK(STONE, TILES)</b>						
32	(P.No.-112,C.N.12.10)	12.10 Providing and laying rectified ceramic glazed tiles of size 300x300mm and above conforming to IS : 15622 of approved make,colour, shade laid on 20 mm thick Cement Mortar 1:4 (1 cement : 4coarse sand) including pointing the joints with white cement mixed withmatching pigment etc., complete. 12.10.1 Size 300x300mm sqm	368.90	sqm.		
33	(P.No.-120,C.N.12.65)	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	33.00	Sq.M.		

S. N.	Code No.	Item Work	Qty.	Unit	Rate	Amount
34	(P.No.-112,C.N.12.13)	12.13 Providing and laying vitrified floor tiles with double charge/ multi charge printing with water absorption less than 0.5% and conforming to IS : 15622 of approved make in all colours and shades and size mentioned below (+/- 10mm), 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. 12.13.1 Size 600x600mm	926.88	Sq.M.		
35a	(P.No.-118,C.N.12.46.2)	(C.N. 12.46.2)15 mm thick table rubbed polished granite stone slab in riser and treads of steps skirting dado and pillars laid on 12mm (average) thick base of cement mortar 1:3	156.90	sqm.		
36b		(C.N. 12.54) Extra for noising in steps and tread of red or white fine dressed and rubbed sand stone.	450.00	Rmt.		
<b>PAINTING WORK</b>						
37	(P.NO-133,C.N.14.13, )	Providing and applying 2mm thick ready mix exterior grade putty (Birla wall care, Alltek Superfine W/R of (NCL), J.K. wall putty) on walls to make the surface smooth and even. ( interior & exterior )	3008.14	sqm.		
38	(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.	3008.14	sqm.		
39	(P.NO-132,C.N.14.9.1. )	Distempering with acrylic washable distemper. 14.5.1 On new work (Two or more coats) for interior	3008.14	sqm.		
40	(P.NO.-133,C.N.14.16.1)	14.16 Painting exterior surface with PREMIUM ACRYLIC SMOOTH exterior paint of required shade as per manufacturer's specifications to give protective and decorative finish including cleaning washing of surface etc.complete with: 14.16.1 On new work (Two or more coats applied @ 1.43 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm) sqm 74.50	894.15	sqm.		
41	(P.NO.-134,C.N.14.22.1)	Satin synthetic enamel paint ( top most approved branded quality)	226.92	Sq.M.		
					<b>Total Rs.</b>	
42	(+) Add	8% (Electrical installation for Internal & External)			<b>Rs.</b>	
43	(+) Add	5% (Sanitary& Water installation for Internal & External)			<b>Rs.</b>	
					<b>Total Rs.</b>	
<b>Total Cost of Ground Floor=A</b>					<b>Say Rs.</b>	



S. N.	Code No.	Item Work	Qty.	Unit	Rate	Amount
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#### **TOTAL LENGTH OF BOUNDARY WALL -**

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

S. N.	Code No.	Item Work	Qty.	Unit	Rate	Amount
<b>Excavation and Earth filling</b>						
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 .	20.74	Cu.M.		
2	(P.NO.-11,C.N.-1.17 )	Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm in depth onsolidating each deposited layer by amming and watering with a lead upto 50 M. and lift upto 1.5 M.	14.52	Cu.M.		
<b>Shuttering &amp; Formwork</b>						
3	(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				
	2.1.1 Foundations, footings, bases of columns plinth beam, curtain wall in anyshape and size ar		55.68	Sq.M.		
	2.1.5 Columns, Pillars, Piers and likes- rectangular or square in shape.		36.00	sqm.		
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.	1.73	Cu.M.		
<b>PCC &amp; RCC WORK</b>						
5	(P.NO.-23,C.N. 3.1.2 )	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., 3.1.2 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size).	1.73	Cu.M.		
5	Page no.23,Code no. 3.2.1	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).-M20 GRADE	9.07	cum.		
6	Page no.24,Code no. 3.14.1	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 - 500 D				
			725.76	K.g.		

S. N.	Code No.	Item Work	Qty.	Unit	Rate	Amount
7	(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 gradedcrushed stone aggregate 20mm nominal size) including formwork.	0.36	CUM		
<b>BRICK WORK</b>						
9	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)	4.68	Cu.M.		
10	(P.No.-45,(C.N. 7.5+7.6)	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	12.96	Cu.M.		
<b>PLASTERING WORK</b>						
11	(P.No.- 103,C.N.11.3.4)	11.3 Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of mix: - 11.3.4 In Cement Mortar 1:6 (1 cement : 6 fine sand)	252.00	sqm.		
<b>STEEL WORK</b>						
12	(P.No.-81,C.N.9.15)	9.16 Providing and fixing M.S. frames of doors, windows, ventilators and cupboards joints mitred and welded with 15x3 mm lugs 10cm long embedded in cement concrete blocks 15x10x10cm of grade M-10 or with wooden plugs and screws or with dash fastener or rawl plugs and screws or with fixing clips or with bolts and nuts as required including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer. 9.16.3 MS tubular frames (GATE)	96.00	K.g.		
13	(P.NO.-84,C.N.9.45)	9.45 Providing and placing in position angle iron post and strut of required size including bottom to be split and bent at right angle in opposite direction for required length and drilling holes upto 10 mm dia as per requirement including priming coat with red oxide zinc chromate primer and placing the post/ strut in cement concrete block.				
		Y shape angle frame	43.20	K.g.		
14	(P.NO.-84,C.N.9.39)	9.39 Providing and fixing in position G.I. barbed wire (93.8gram/m) to concrete/ wooden/ angle iron posts (straight or diagonal) including securing and screwing with G.I. tying wire, G.I. staples, G.I.U-nails or steel pins etc., complete(Cost of posts, struts to be paid for separately) 2+2 row	144.00	mtr		

S. N.	Code No.	Item Work	Qty.	Unit	Rate	Amount
15	(P.NO.-84,C.N.9.4)	9.40 Providing and fixing concertina coil fencing with required dia 610 mm (having 50 nos. round per 6 metre length) up to 3m height of wall with existing angle iron 'Y' shaped placed 2.4 m or 3.00 m apart tied with G.I. staples and G.I. clips to retain horizontal including necessary bolts or G.I. barbed wire tied to angle iron all complete as per direction of Engineer-in-charge with reinforced barbed tape (R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)	72.00	mtr		
<b><u>PAINTING WORK</u></b>						
16	(P.NO.-132,C.N.14.9)	14.9 Distempering with acrylic washable distemper to give an even shade.14.9.1 On new work (Two or more coats)	252.00	sqm.		
17	(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	4.80	Sq.M.		
					<b>Total Rs.</b>	
<b>Total Cost of Boundry wall</b>			<b>B=Grand Total Rs.</b>			
<b>Total Cost Ground floor building</b>				<b>A+B</b>	<b>Rs.</b>	
<b>Say Rs.</b>						

**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 RAIPUR (C.G.)**  
**PROPOSED BOYS HOSTEL BUILDING (75 BEDDED) FOR COLLEGE OF AGRICULTURE**

**BILL OF QUANTITY OF FIRST FLOOR**

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

S. N.	Code No.	Item Work	Qty.	Unit	Rate	Amount
<b>Shuttering &amp; Formwork</b>						
1	( 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				
	2.1.5 Columns, Pillars, Piers and likes- rectangular or square in shape		332.28	sqm.		
	2.1.2 Wall of any thickness including attached pilasters, buttresses etc. in superstructure.		1680.97	sqm.		
<b>RCC WORK</b>						
2	Page no.23,Code no. 3.3	3.3 Providing and laying design mix reinforced cement concrete with crushed graded stone aggregate 20mm nominal size using batching plant, transit mixer and concrete pump, in all works upto plinth level excluding cost of form work.				
		(3.4.2) M-20	213.38	cum.		
3	Page no.24,Code no. 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:	27738.88	K.g.		
		3.12.2 Thermo-Mechanically treated bars FE 500D				
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.	5.29	cum.		
5	(P.No.-24,C.N. 3.15)	Applying a coat or not bitumen 30/40 using @ 1.7 kg./sqm on damp froof copurse after cleaning the surface of brushes and finally with a piece of cloth lightly socked in kerosine oil.	107.00	Sqm.		
<b>BRICK WORK</b>						
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	294.30	cum.		
<b>PLASTERING WORK</b>						
7	(P.No.- 103,C.N.11.3.4)	15mm thick cement plaster on the rough side of single or half brick wall of mix: Outer side of walls.(1:6)	570.83	sqm.		

S. N.	Code No.	Item Work	Qty.	Unit	Rate	Amount
8	Page no.103,Code no. 11.2.4	12mm thick cement plaster of inner side of walls.(1:6)	1747.90	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)	909.50	sqm.		
10	(P.No.-111.C.N.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	909.50	sqm.		
11	(P.No.-106,C.N.11.32)	moulded mortar band in cement mortar 1:4 per cm width a(18mm thick)	1080.00	Mtr.		
<b>DOOR &amp; WINDOW</b>						
12	(P.No.-81,C.N.9.16)	Providing and fixing M.S. frames of doors, windows and ventilators joints mitred and welded with 15x3 mm lugs 10cm long embedded in cement concrete blocks 15x10x10cm of grade M-10 or with wooden plugs and screws or with dash fastener or rawl plugs and screws or with fixing clips or with bolts and nuts as required including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer. 9.11.2 Angle-iron frames Equal angle size 40x40mm (4mm thick)	996.96	kg.		
13	(P.No.-56,C.N.8.12.2.)	Providing and fixing flush door shutters 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 8.10.2 35 mm. thick (single leaf)	61.20	sqm.		
B	8.13.5	8.13.5 25 mm. thick (double leaf for cupboard shutters with piano type hinges)	88.20	sqm.		
14	(P.No.-74,C.N.8.151)	8.157 Providing and fixing factory made P.V.C. door frame of size 50x47mm with a wall thickness of 5mm, made out of extruded ,manufacturers specification and direction of Engineer-in-Charge.	68.40	Mtr.		
15	(P.No.-74,C.N.8.151)	PVC DOOR Providing and fixing 30mm thick factory made panel PVC door shutter consisting of frame made out of m.s. tubes of 19 gauge th. and size of 19mmx19mm for styles and 15x15mm for top & bottom rails M.S. frame shall have a coat of steel primer of approved make and menu facture M.S. frame covered with 5 mm th. heat	18.90	Sq.M.		
<b>STEEL &amp; ALUMINIUM WORK</b>						

S. N.	Code No.	Item Work	Qty.	Unit	Rate	Amount
16	(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.	4.50	sqm		
17	(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	2890.80	K.g.		
2	(P.No.-85,C.N.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 and panelling to be paid for separately				
	(C.N. 9.45.2)	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).	963.60	K.g.		
19	(P.No.-85,C.N.9.48)	Extra for powder coated (minimum 50 micron) aluminium sections instead of anodized.	963.60	Kg.		
20a	(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	96.36	Sqm.		
20b	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.	96.36	Sqm.		
21	8.165 D.3	Two track two panels sliding window made of (big series) frame 67x50mm & sash 46 x 62 mm both having wall thickness of 2.3+0.2mm and single glazing bead/double glazing bead of appropriate dimension (Area of window above 1.75 sqm upto 2.50 sqm)	4.50	sqm		
22	(P-86,C.N. 9.56)	Providing and fixing of floor spring IS: marked (Everite, Door link or any equivalent make) with stainless steel cover plate including cutting and making good the floor etc. complete.	1.00	Each		

S. N.	Code No.	Item Work	Qty.	Unit	Rate	Amount
23		door fitting items				
	8.77.1	bult hings 125x85x5.5mm (heavy)	111.00	Each		
	8.60.1	sliding door bolt 300x16mm	82.00	Each		
	8.80.2	door each 250x16x5mm	82.00	Each		
	8.62.3	tower bolt 150x10mm	82.00	Each		
	8.65.1	handle 125mm	82.00	Each		
	8.76	P/F hanginh door stopper	41.00	Each		
24	(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.	550.00	Kg.		
<b>FLOORING WORK(STONE, TILES)</b>						
25	(P.No.-112,C.N.12.10)	12.10 Providing and laying rectified ceramic glazed tiles of size 300x300mm and above conforming to IS : 15622 of approved make,colour, shade laid on 20 mm thick Cement Mortar 1:4 (1 cement : 4coarse sand) including pointing the joints with white cement mixed withmatching pigment etc., complete.12.10.1 Size 300x300mm	252.74	sqm.		
			18.90	Sqm.		
26	(P.No.-112,C.N.12.13)	12.13 Providing and laying vitrified floor tiles with double charge/ multi chargeprinting with water absorption less than 0.5% and conforming to IS :15622 of approved make in all colours and shades and size mentionedbelow (+/- 10mm), laid on 20mm thick cement mortar 1:4 (1 cement : 4coarse sand) including grouting the joints with white cement andmatching pigments etc. complete.12.13.1 Size 600x600mm	857.19	Sq.M.		
27	(P.No.-118,C.N.12.46.2)	(C.N. 12.46.2)15 mm thick table rubbed polished granite stone slab in riser and treads of steps skirting dado and pillars laid on 12mm (average) thick base of cement mortar 1:3	137.94	sqm.		
b		(C.N. 12.54) Extra for noising in steps and tread of red or white fine dressed and rubbed sand stone.	450.00	Rmt.		
<b>PAINTING WORK</b>						
28	(P.NO-133,C.N.14.13, )	Providing and applying 2mm thick ready mix exterior grade putty (Birla wall care, Alltek Superfine W/R of (NCL), J.K. wall putty) on walls to make the surface smooth and even. ( interior & exterior )	2657.40	sqm.		
29	(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.	2657.40	sqm.		
30	(P.NO-132,C.N.14.9.1. )	Distempering with acrylic washable distemper. 14.5.1 On new work (Two or more coats) for interior	2657.40	sqm.		

S. N.	Code No.	Item Work	Qty.	Unit	Rate	Amount
31	(P.NO.- 133,C.N.14.16.1)	14.16 Painting exterior surface with PREMIUM ACRYLIC SMOOTH exterior paint of required shade as per manufacturer's specifications to give protective and decorative finish including cleaning washing of surface etc.complete with: 14.16.1 On new work (Two or more coats applied @ 1.43 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm) sqm 74.50	570.83	sqm.		
32	(P.NO.- 134,C.N.14.22.1)	Satin synthetic enamel paint ( top most approved branded quality)	201.72	Sq.M.		
					Total Rs.	
33	(+) Add	8% (Electrical installation for Internal & External)			Rs.	
34	(+) Add	5% (Sanitary& Water installation for Internal & External)			Rs.	
					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**



**INDIRA GANDHI AGRICULTURE UNIVERSITY RAIPUR (C.G.)**  
**PROPOSED BOYS HOSTEL BUILDING (75 BEDDED) FOR COLLEGE OF AGRICULTURE**

**BILL OF QUANTITY OF STAIRCASE TOWER AND TERRACE FLOORING**

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

S. N.	Code No.	Item Work	Qty.	Unit	Rate	Amount
<b>Shuttering &amp; Formwork</b>						
1	( 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				
	2.1.5 Columns, Pillars, Piers and likes- rectangular or square in shape		112.40	sqm.		
	2.1.2 Wall of any thickness including attached pilasters, buttresses etc. in superstructure.		96.15	sqm.		
<b>RCC WORK</b>						
2	Page no.23,Code no. 3.3	3.3 Providing and laying design mix reinforced cement concrete with crushed graded stone aggregate 20mm nominal size using batching plant, transit mixer and concrete pump, in all works upto plinth level excluding cost of form work. M-20	19.93	cum.		
3	Page no.24,Code no. 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:				
		3.12.2 Thermo-Mechanically treated bars FE 500D	2590.25	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.	3.18	cum.		
5	(P.No.-24,C.N. 3.15)	Applying a coat or not bitumen 30/40 using @ 1.7 kg./sqm on damp proof copurse after cleaning the surface of brushes and finally with a piece of cloth lighty socked in kerosine oil.	65.00	Sqm.		
<b>BRICK WORK</b>						
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:	73.82	cum.		
<b>PLASTERING WORK</b>						
7	(P.No.- 103,C.N.11.3.4)	15mm thick cement plaster on the rough side of single or half brick wall of mix: Outer side of walls.(1:6)	445.19	sqm.		
8	Page no.103,Code no. 11.2.4	12mm thick cement plaster of inner side of walls.(1:6)	78.19	sqm.		

S. N.	Code No.	Item Work	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)	58.80	sqm.		
10	(P.No.-111.C.N.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	58.80	sqm.		
11	(P.No.-106,C.N.11.32)	moulded mortar band in cement mortar 1:4 per cm width a(18mm thick)	1260.00	Mtr.		
<b>DOOR &amp; WINDOW</b>						
12	(P.No.-81,C.N.9.16)	Providing and fixing M.S. frames of doors, windows and ventilators joints mitred and welded with 15x3 mm lugs 10cm long embedded in cement concrete blocks 15x10x10cm of grade M-10 or with wooden plugs and screws or with dash fastener or rawl plugs and screws or with fixing clips or with bolts and nuts as required including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer. 9.11.2 Angle-iron frames .Equal angle size 40x40mm (4mm thick)	15.36	kg.		
13	(P.No.-56,C.N.8.12.2.)	Providing and fixing flush door shutters 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 8.10.2 35 mm. thick (single leaf)	48.51	sqm.		
<b>STEEL &amp; ALUMINIUM WORK</b>						
14	(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.	2.52	sqm		
15		door fitting items				
	8.77.1	bult hinges 125x85x5.5mm (heavy)	3.00	Each		
	8.60.1	sliding door bolt 300x16mm	2.00	Each		
	8.80.2	door each 250x16x5mm	2.00	Each		
	8.62.3	tower bolt 150x10mm	2.00	Each		
	8.65.1	handle 125mm	2.00	Each		
	8.76	P/F hanginh door stopper	1.00	Each		
<b>FLOORING WORK( WATER PROOFING</b>						
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 affectedleakage area.	900.00	sqm.		
<b>PAINTING WORK</b>						

S. N.	Code No.	Item Work	Qty.	Unit	Rate	Amount
17	(P.NO-133,C.N.14.13, )	Providing and applying 2mm thick ready mix exterior grade putty (Birla wall care, Alltek Superfine W/R of (NCL), J.K. wall putty) on walls to make the surface smooth and even. ( interior & exterior )	136.99	sqm.		
18	(P.NO-133,C.N.14.12)	14.12 Applying one coat of cement primer on wall surface (applied @ 0.80 litres/10 sqm) complete.	136.99	sqm.		
19	(P.NO-132,C.N.14.9.1. )	Distempering with acrylic washable distemper. 14.5.1 On new work (Two or more coats) for interior	136.99	sqm.		
20	(P.NO.-133,C.N.14.16.1)	14.16 Painting exterior surface with PREMIUM ACRYLIC SMOOTH exterior paint of required shade as per manufacturer's specifications to give protective and decorative finish including cleaning washing of surface etc.complete with: 14.16.1 On new work (Two or more coats applied @ 1.43 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm) sqm 74.50	445.19	sqm.		
					<b>Total Rs.</b>	
21	(+) Add	8% (Electrical installation for Internal & External)			<b>Rs.</b>	
22	(+) Add	5% (Sanitary& Water installation for Internal & External)			<b>Rs.</b>	
					<b>Total Rs.</b>	
<b>Total Cost of Terrace Floor</b>					<b>Say Rs.</b>	

**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 RAIPUR (C.G.)**  
**PROPOSED BOYS HOSTEL BUILDING (75 BEDDED) FOR COLLEGE OF AGRICULTURE**

**BILL OF QUANTITY OF PLINTH PROTECTION**

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

S.N.	Code No.	Item Work	Qty.	Unit	Rate	Amount
1	(P.N-142,CN.. 1.2)	15.1 Providing, driving and installing driven cast-in-situ reinforced cement concrete piles of specified diameter and length below the pile cap M 35 in cement concrete, to carry safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of shoe and the length of pile to be embedded in the pile cap etc. all complete. (Length of pile for payment shall be measured from top of shoe to the bottom of pile cap) : 15.1.1 - 400 mm dia piles	97.50	Mtr.		
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.	129.60	Cum.		
<b>Shuttering &amp; Formwork</b>						
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	72.00	Sq.M.		
<b>PCC &amp; RCC WORK</b>						
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).	21.60	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	7.20	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	1948.50	K.g.		
<b>BRICK WORK</b>						
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)	21.60	Cu.M.		

<b>PLASTERING WORK</b>						
<b>8</b>	<b>(P.No.- 103,C.N.11.3.3)</b>	15mm thick cement plaster on the rough side of single or half brick wall of mix: Outer side of walls.(1:5)	<b>144.00</b>	<b>sqm.</b>		
<b>9</b>	<b>(P.No.- 116,C.N.12...36)</b>	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	<b>216.00</b>	<b>Sq.M.</b>		
					<b>Total Rs.</b>	
<b>Total Cost of Plinth Protection</b>					<b>Say Rs.</b>	

**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 RAIPUR (C.G.)**

## **PROPOSED WARDEN QUARTER (G- TYPE)**

### **BILL OF QUANTITY OF GROUND FLOOR**

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

S. N.	Code No.	Item Work	Qty.	Unit	Rate	Amount
<b>Excavation and Earth filling</b>						
<b>1</b>	<b>(Page no.9,Code no. 1.2)</b>	Surface dressing of the ground including removing vegetation and making up undulations and in-equalities not exceeding 15 cms in depth/ height including disposal of rubbish upto 1.5 m lift and lead upto 50m (at least 5m away from the dressed area)	<b>134.38</b>	<b>Sqm.</b>		
<b>2 a</b>	<b>( Page No.-09, Code No.-1.1.1)</b>	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 .	<b>103.50</b>	<b>Cu.M.</b>		
<b>2b</b>	<b>(P.NO.-11,C.N.-1.17 )</b>	Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm in depth onsolidating each deposited layer by amming and watering with a lead upto 50 M. and lift upto 1.5 M.	<b>81.00</b>	<b>Cu.M.</b>		
<b>3</b>	<b>(P.No.-11,C.N. 1.18)</b>	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.	<b>89.2</b>	<b>Cum.</b>		
<b>4a</b>	<b>(P.NO.-11,C.N.- 1.24.1 )</b>	1.22 Supplying chlorpyrifos/ Lindane emulsifiable concentrate of 20% in sealed containers including delivery as specified. litre 208.00	<b>50.00</b>	<b>Ltr.</b>		
<b>b</b>	<b>(P.NO.-12,C.N.-1.25 )</b>	Diluting chemical emulsion (Chlorpyriphos/ lindane) in water asper manufacturers ecommendation and injecting for preconstructional curative cum preventive anti- ermitetreatment:(Five year service guarantee bond to be signed bycontractor) 11CodeNoDescriptionUnitRateRs.1.24.1 Surface treatment by spreading emulsion under floor, over the plinth area before laying base concrete @ 5 litres / sqm.	<b>134.4</b>	<b>sqm</b>		
<b>b</b>	<b>(P.NO.-11,C.N.- 1.24.2 )</b>	Treatment of inside of plinth masonry wall on using diluted chemical emulsion @ 1.5 litre per hole, including drilling 12 mm diameter holes in plinth wall below plinth protection at the intervals of 300 mm and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand).	<b>100.00</b>	<b>Mtr.</b>		

S. N.	Code No.	Item Work	Qty.	Unit	Rate	Amount
c	(P.NO.-12,C.N.-1.25.3)	Treatment of outer side of plinth masonry wall using diluted chemical emulsion @ 1.5 litre per hole, including drilling 12 mm diameter holes in plinth wall at the junction of floor at the intervals of 300 mm and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand).	100.00	Mtr.		
<b>Shuttering &amp; Formwork</b>						
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				
	2.1.1 Foundations, footings, bases of columns plinth beam, curtain wall in anyshape and size and all t		134.65	Sq.M.		
	2.1.5 Columns, Pillars, For Column's upto slab IV.		66.00	sqm.		
	2.1.2 Wall of any thickness including attached pilasters, buttresses etc. in superstructure.		266.01	sqm.		
<b>PCC &amp; RCC WORK</b>						
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).	17.58	Cu.M.		
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).- M-20	52.59	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 - 500 D	5784.71	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.	1.20	cum.		
10	(P.No.-24,C.N. 3.15)	Applying a coat or not bitumen 30/40 using @ 1.7 kg/sqm on damp froof copurse after cleaning the surface of brushes and finally with a piece of cloth lightly socked in kerosine oil.	30.00	Sqm.		
<b>BRICK WORK</b>						
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)	18.45	Cu.M.		

S. N.	Code No.	Item Work	Qty.	Unit	Rate	Amount
12	(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	55.56	cum.		
<b>PLASTERING WORK</b>						
13	(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)	378.76	sqm.		
14	Page no.103,Code no. 11.2.3	12mm thick cement plaster of inner side of walls.(1:5)	340.13	sqm.		
15	(P.No.- 103,C.N.11.1.1)	Ceiling plaster 6mm thick cement plaster In Cement mortar 1:3 (1 cement : 3 fine sand)	121.33	sqm.		
16	(P.No.- 111.C.N.12.10)	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.	121.33	sqm.		
17	(P.No.- 106,C.N.11.32)	moulded mortar band in cement mortar 1:4 per cm width a(18mm thick)	125.00	Mtr.		
<b>DOOR &amp; WINDOW</b>						
18	(P.No.-81,C.N.9.18	9.18 Providing and fixing in position doors, windows and ventilators frames made of cold rolled pressed steel sheet framed profiles made from commercial M.S. Sheets conforming to I.S. 513 of 1973 and as per general specifications of I.S 4351 including hinges jamb, lock jamb, steel butt hinges, base tie, joints mitred and welded with 10cm long legs of size 15x3mm M.S. flat, embedded in cement concrete blocks 15x10x10cm size of grade M-10 or rawl plugs and screws or with fixing clips or with bolts and nuts including neatly compacted filling M-10 cement concrete in profile section applying a priming coat of red oxide zinc chromate primer. <b>9.18.4 Single rebate/ mullion 100mmx50mm size, 1.6mm thick sheet.</b>	31.40	Mtr.		
19	(P.No.- 56,C.N.8.12.2.)	Providing and fixing flush door confirming 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 8.10.2 35 mm. thick (single leaf)	10.08	sqm.		



S. N.	Code No.	Item Work	Qty.	Unit	Rate	Amount
20	(P.No.-73,C.N.8.151)	8.157 Providing and fixing factory made P.V.C. door frame of size 50x47mm with a wall thickness of 5mm, made out of extruded .manufacturers specification and direction of Engineer-in-Charge.	11.40	Mtr.		
21	(P.No.-74,C.N.8.151)	PVC DOOR Providing and fixing 30mm thick factory made panel PVC door shutter consisting of frame made out of m.s. tubes of 19 gauge th. and size of 19mmx19mm for styles and 15x15mm for top & bottom rails M.S. frame shall have a coat of steel primer of approved make and manufacture M.S. frame covered with 5 mm th. heat (PVC door shutter)	3.15	Sq.M.		
<b>STEEL &amp; ALUMINIUM WORK</b>						
23	(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	561.60	K.g.		
24	(P.No.-85,C.N.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 and panelling to be paid for separately				
	(C.N. 9.45.2)	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).	149.76	K.g.		
25	(P.NO-85,C.N.9.48)	Extra for powder coated (minimum 50 micron) aluminium sections instead of anodized.	149.76	Kg.		
26	(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	18.72	Sqm.		
27						
	8.77.1	bult hinges 125x2.5mm (heavy)	40.00	Each		
	8.60.1	sliding door bolt 300x16mm	14.00	Each		
	8.80.2	door each 250x12mm	14.00	Each		
	8.62.3	tower bolt 150x10mm	14.00	Each		

S. N.	Code No.	Item Work	Qty.	Unit	Rate	Amount
	8.65.1	handle 125mm	14.00	Each		
	8.76	P/F hanginh door stopper	10.00	Each		
28	(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.	50.00	Kg.		
<b>FLOORING WORK(STONE, TILES)</b>						
29	(P.No.-112,C.N.12.10.1)	Providing and laying ceramic glazed floor tiles 300x300mm conforming to IS : 15622 of approved make, colour, shade laid on 20 mm thick Cement Mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with white cement mixed with matching pigment etc., complete. 12.7.1 In all colours except White, Ivory, Grey, Fume Red Brown,	13.50	Sqm.		
30	(P.No.-112,C.N.12.10.1)	Providing and fixing ceramic glazed wall tiles conforming to IS : 15622 of approved make, colours, shades and size on wall and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with matching pigment complete.	26.10	sqm.		
31	(P.No.-118,C.N.12.49)	25 mm thick KOTA stone slab flooring over 20mm (average) thick base of cement mortar 1:4 laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including grinding rubbing and polishing etc. complete (Area of slab to be over 0.20 sq.m and upto 0.50 sq.m)	36.24	Sq.M.		
32	(P.No.-112,C.N.12.12)	Providing and laying vitrified floor tiles with soluble salt 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:	71.77	Sq.M.		
33	(P.No.-118,C.N.12.46.3)	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). 12.46.1 Granite stone grey/pink				
		door & window sill	2.34	sqm.		

S. N.	Code No.	Item Work	Qty.	Unit	Rate	Amount
34		(C.N. 12.54) Extra for noising in steps and tread of red or white fine dressed and rubbed sand stone.	11.70	Rmt.		
<b>PAINTING WORK</b>						
35	(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.	461.46	sqm.		
36	(P.NO-133,C.N.14.12 )	14.12 Applying one coat of cement primer on wall surface (applied @ 0.80 litres/10 sqm) complete. sqm 23.00	461.46	sqm.		
37	(P.NO-132,C.N.14.9.1. )	Distempering with acrylic washable distemper. 14.5.1 On new work (Two or more coats) for interior	461.46	sqm.		
38	(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	378.76	sqm.		
39	(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	37.44	Sq.M.		
					<b>Total Rs.</b>	
40	(+) Add	8% (Electrical installation for Internal & External)			<b>Rs.</b>	
41	(+) Add	5% (Sanitary& Water installation for Internal & External)			<b>Rs.</b>	
					<b>Total Rs.</b>	
<b>Total Cost of Ground Floor</b>					<b>Say Rs.</b>	

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 RAIPUR (C.G.)

### BILL OF QUANTITY OF PROPOSED C.C.ROAD

Estimate based on SOR for Road Works, C.G., P.W.D. w.e.f 01-01-2015

S.No.	C.NO.	Perticular's of Item	Quantity	Unit	Rate	Amount
1	{Page.No.- 11, Item No.- 3.1}.	3.1 Excavation for roadway in soil using including loading in truck for carrying of cut earth to embankment site with all lifts and lead upto 1000 meters as per relevant clauses of section 300.	270.00	CUM		
2	{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.	600.00	Cum		
3	{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)				
bottom	(iii)	PCC M-10	60.00	Cum		
top	(iv)	PCC M-30	120.00	Cum		
4	(P.No.- 120,C.N.12.6 5) BUILDING SOR	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	600.00	SQM		
					<b>Total Rs.</b>	
					<b>Total Cost of Road &amp; pathway Say Rs.</b>	

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 RAIPUR (C.G.)****BILL OF QUANTITY OF RAINWATER HARVESTING SYSTEM**

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

S.N.	Code No.	Item Work	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 & lift up to 1.5 m including dressing and levelling of pits and disposed stuff as directed by Engineer .	27.00	Cu.M.		
2	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).				
3		21.14.1 Stone boulders of size range 5 cm to 20 cm, in recharge pit	9.0	cum		
		21.14.2 Gravels of size range 5 mm to 10 mm, over the existing layer of boulders	9.0	cum		
		21.14.3 Coarse sand of size range 1.5 mm to 2 mm over existing layer of gravel	9.0	cum		
6	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.	2.0	Each		
7	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 pieces in the bottom of tank to support the above layer including fixing of inlet and outlet P.V.C. pipe of required diameter upto 2 metre length on each side, Cement Concrete platform of required size complete as directed by Engineer in charge. (excluding cost of tubewell and inlet and outlet pipe beyond 2 metre)	100	ltr		
					Total Rs.	
					Say Total 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 RAIPUR (C.G.)

## BILL OF QUANTITY 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	Qty.	UNIT	RATE	AMOUNT
	<b>(P.No.-201,C.N.21.17)</b>				
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)	3.00	point		
	<b>(P.No.-198,C.N.21.20)</b>				
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.	125.00	mtr		
	<b>(P.No.-199,C.N.21.50)</b>				
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	30.00	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:	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 necessarybolts & nuts of required size complete. 21.12.3 150 mm clamp.	2.00	Each		
	<b>Electrical sor 2015</b>				
6	<b>P-88.C.N.-26.3</b> Supplying, installation, testing and commissioning of submersible pump set for water supply system withsubmersible 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	1.00	Each		
			1 nos	Total Rs.	
				Say Rs.	

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

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

**BILL OF QUANTITY OF LAND DEVELOPMENT WORK**

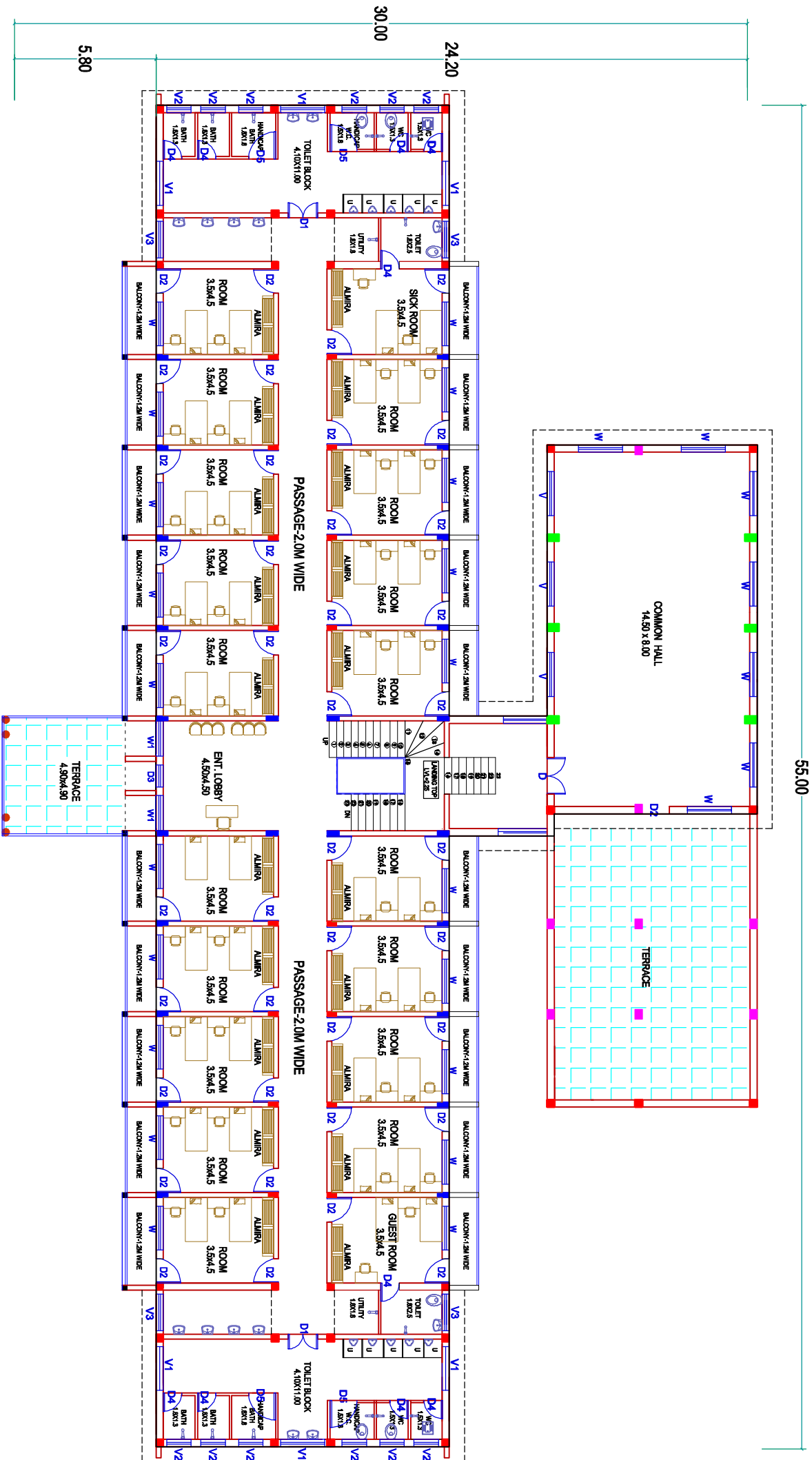
[As per P.W.D.- S.O.R. in Force From 1Jan 2015]

S.N.	Code No.	Item Work	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 .	282.00	Sqm.		
2	(P.NO.-11,C.N.-1.17 )	Filling from available excavated stuff (Excluding rock) intrenches, plinth, sides of foundation etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering with a lead upto 50 M. and lift upto 1.5 M.	282.00	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.	512.30	Cu.M.		
					Total Rs.	
Total Cost of Land Development work					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**







FIRST FLOOR PLAN (BUILT UP AREA - 760 SQM)

SUB.Eng.

S.P.P.

Manish Rathod (B.Arch, A.I.I.A)

Architect Interior Designer

Geeta Nagar, Himmat Steels,

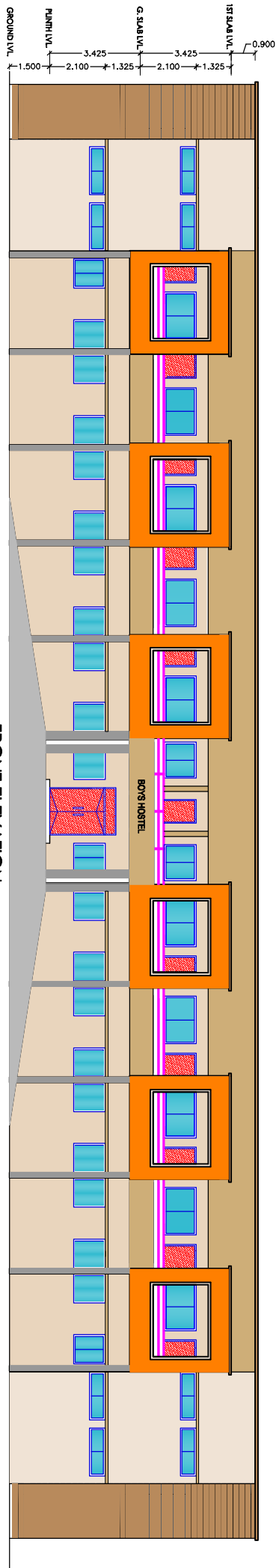
G.E.Road, Raipur (CG) - 492001

Cell No.- 09822613271

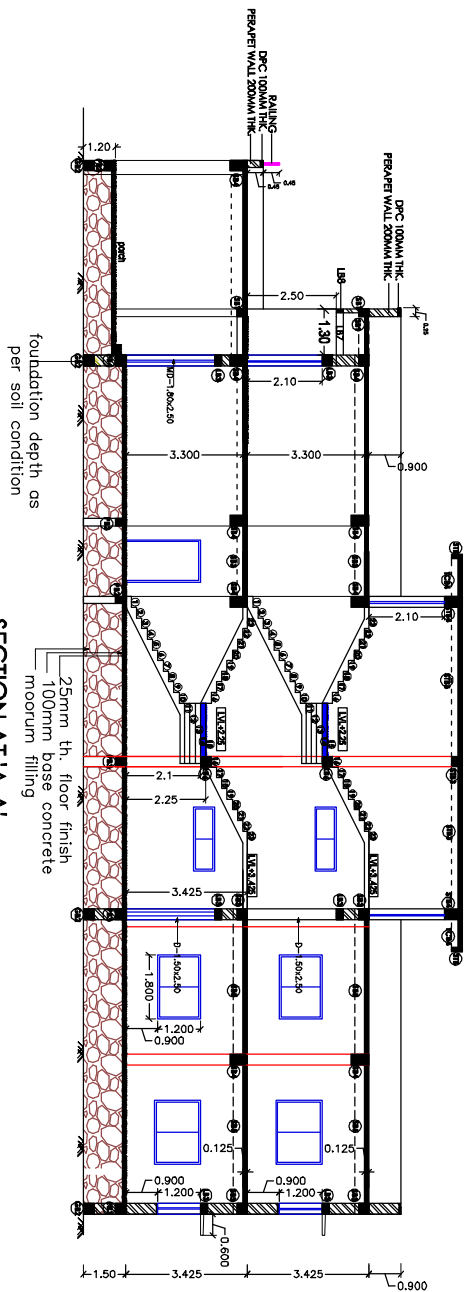
PROPOSED BOYS HOSTEL BUILDING

(75 BEDED) FOR COA AT PRATAPPUR/ SHANKERGARI/ PAKHANJUR/

GARIYABAND (C.G.)UNDER I.G.K.V-RAIPUR



FRONT ELEVATION



SECTION A-A'

SUB. ENG.

S.P.P.

PROPOSED BOYS HOSTEL BUILDING  
(75 BEDDED) FOR COA AT PRATAPPUR SHANKERGARI/ PAKHANJURI  
GARIYABAND (C.G.) UNDER I.G.K.V-RAIPUR

**Manish Rathod** (B.Arch, ALIA)  
Architect Interior Designer  
Geeta Nagar, Himmat Shah,  
G.E. Road, Raipur (CG) - 492001  
Cell No. - 98259513271

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

**PROPOSED GIRLS HOSTEL BUILDING (75 BEDDED) FOR FOR COA-AT PRATAPPUR/  
SHANKERGARH/ PAKHANJUR/ GARIYABAND (C.G.)**

**ABSTRACT SHEET**

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

<b>S.NO.</b>	<b>PARTICULARES</b>	<b>AMOUNT</b>
<b>A</b>	<b>BUILDING CIVIL WORKS</b>	
A-1	ESTIMATED COST OF GROUND FLOOR ( AREA - 900 SQM)	
A-2	ESTIMATED COST OF FIRST FLOOR ( AREA - 800 SQM)	
A-3	ESTIMATED COST OF STAIRCASE TOWER AND TERRACE	
A-4	ESTIMATED COST OF PLINTH PROTECTION	
<b>TOTAL-A (RS)</b>		
<b>B</b>	<b>WARDEN QUARTER</b>	
B-1	ESTIMATED COST OF WARDEN QUARTER ( G-type)	
<b>TOTAL-B (RS)</b>		
<b>C</b>	<b>DEVELOPMENT WORKS</b>	
C-1	ESTIMATED COST OF APPROCH C.C.ROAD (100 RMT.X6M)	
C-2	ESTIMATED COST OF RAIN WATER HARVESTING SYSTEM	
C-3	ESTIMATED COST OF TUBE WELL WITH SUBMERSIBLE PUMP	
C-4	ESTIMATED COST OF LAND DEVELOPMENT	
<b>TOTAL- C (RS)</b>		
<b>TOTAL COST-A+B+C (RS)</b>		
<b>SAY COST RS.</b>		

INDIRA GANDHI AGRICULTURE UNIVERSITY RAIPUR (C.G.)						
PROPOSED GIRLS HOSTEL BUILDING (75 BEDDED) FOR COLLEGE OF AGRICULTURE						
BILL OF QUANTITY OF GROUND FLOOR						
[As per P.W.D.- Building S.O.R. in Force From 1 Jan. 2015]						
S. N.	Code No.	Item Work	Qty.	Unit	Rate	Amount
<b>Excavation and Earth filling</b>						
1	(Page no.9, Code no. 1.2)	Surface dressing of the ground including removing vegetation and making up undulations and in-equalities not exceeding 15 cms in depth/ height including disposal of rubbish upto 1.5 m lift and lead upto 50m (at least 5m away from the dressed area)	900.00	Sqm.		
2	( 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 .	621.83	Cu.M.		
2b	(P.NO.-11,C.N.-1.17 )	Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering with a lead upto 50 M. and lift upto 1.5 M.	164.95	Cu.M.		
3	(P.NO.-12,C.N.-1.25 )	Diluting chemical emulsion (Chlorpyriphos/ lindane) in water as per manufacturers recommendation and injecting for preconstructional curative cum preventive anti- ermitetreatment:(Five year service guarantee bond to be signed bycontractor) 11CodeNoDescriptionUnitRateRs.1.24.1 Surface treatment by spreading emulsion under floor, over the plinth area before laying base concrete @ 5 litres / sqm.				
a	(P.NO.-12,C.N.-1.25.1 )	1.22 Supplying chlorpyrifos/ Lindane emulsifiable concentrate of 20% in sealed containers including delivery as specified.	2700.00	ltr.		
b	(P.NO.-12,C.N.-1.25.1 )	1.24.1 Surface treatment by spreading emulsion under floor, over the plinth area before laying base concrete @ 5 litres / sqm.	900.00	Sqm.		
c	(P.NO.-11,C.N.-1.24.2 )	Treatment of inside of plinth masonry wall on using diluted chemical emulsion @ 1.5 litre per hole, including drilling 12 mm diameter holes in plinth wall below plinth protection at the intervals of 300 mm and plugging with cement mortar 1 :2 (1cement : 2 Coarse sand).	510.00	Mtr.		
d	(P.NO.-12,C.N.-1.25.3 )	Treatment of outer side of plinth masonry wall using diluted chemical emulsion @ 1.5 litre per hole, including drilling 12 mm diameter holes in plinth wall at the junction of floor at the intervals of 300 mm and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand).	510.00	Mtr.		

S. N.	Code No.	Item Work	Qty.	Unit	Rate	Amount
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.	1714.82	Cum.		
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).	101.91	Cu.M.		
<b>Shuttering &amp; Formwork</b>						
5	( 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, Footing, base of columns and plinth beam in any shape and size upto plint level.				
	2.1.1 Foundations, footings, bases of columns plinth beam, curtain wall in anyshape and size an		1093.20	Sq.M.		
	2.1.5 Columns, Pillars, Piers and likes- rectangular or square in shape		402.60	sqm.		
	2.1.2 Wall of any thickness including attached pilasters, buttresses etc. in superstructure.		1741.20	sqm.		
<b>RCC WORK</b>						
7	Page no.23,Code no. 3.3	3.3 Providing and laying design mix reinforced cement concrete with crushed graded stone aggregate 20mm nominal size using batching plant, transit mixer and concrete pump, in all works upto plinth level excluding cost of form work.				
		(3.4.2) M-20	454.22	cum.		
8	Page no.24,Code no. 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:				
		3.12.2 Thermo-Mechanically treated bars FE 500D	59048.02	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.	8.37	cum.		
10	(P.No.-24,C.N. 3.15)	Applying a coat or not bitumen 30/40 using @ 1.7 kg./sqm on damp froof copurse after cleaning the surface of brushes and finally with a piece of cloth lighty socked in kerosine oil.	181.00	Sqm.		
<b>BRICK WORK</b>						
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)	151.70	Cu.M.		

S. N.	Code No.	Item Work	Qty.	Unit	Rate	Amount
12	(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	374.03	cum.		
<b>PLASTERING WORK</b>						
13	(P.No.- 103,C.N.11.3.4)	15mm thick cement plaster on the rough side of single or half brick wall of mix: Outer side of walls.(1:6)	1129.03	sqm.		
14	Page no.103,Code no. 11.2.4	12mm thick cement plaster of inner side of walls.(1:6)	2555.49	sqm.		
15	(P.No.- 103,C.N.11.1.1)	Ceiling plaster 6mm thick cement plaster In Cement mortar 1:3 (1 cement : 3 fine sand)	980.96	sqm.		
16	(P.No.-111.C.N.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	980.96	sqm.		
17	(P.No.- 110,C.N.11.31)	moulded mortar band in cement mortar 1:4 per cm width a(18mm thick)	255.00	Rm		
<b>DOOR &amp; WINDOW</b>						
17	(P.No.-81,C.N.9.16	Providing and fixing M.S. frames of doors, windows and ventilators joints mitred and welded with 15x3 mm lugs 10cm long embedded in cement concrete blocks 15x10x10cm of grade M-10 or with wooden plugs and screws or with dash fastener or rawl plugs and screws or with fixing clips or with bolts and nuts as required including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer. 9.11.2 Angle-iron frames Equal angle size 40x40mm (4mm thick)	1080.96	kg.		
18	(P.No.- 56,C.N.8.12.2.)	Providing and fixing flush door shutters 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 8.10.2 35 mm. thick (single leaf)	64.44	sqm.		
19	8.13.5	8.13.5 25 mm. thick (double leaf for cupboard shutters with piano type hinges	97.02	sqm.		

S. N.	Code No.	Item Work	Qty.	Unit	Rate	Amount
20	(P.No.-74,C.N.8.151)	8.157 Providing and fixing factory made P.V.C. door frame of size 50x47mm with a wall thickness of 5mm, made out of extruded .manufacturers specification and direction of Engineer-in-Charge.	66.50	Mtr.		
21	(P.No.-74,C.N.8.151)	PVC DOOR Providing and fixing 30mm thick factory made panel PVC door shutter consisting of frame made out of m.s. tubes of 19 gauge th. and size of 19mmx19mm for styles and 15x15mm for top & bottom rails M.S. frame shall have a coat of steel primer of approved make and manufacture M.S. frame covered with 5 mm th. heat	22.05	Sq.M.		
<b>STEEL &amp; ALUMINIUM WORK</b>						
22	(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	4.5	sqm		
23	(P.No.-86,C.N.9.10)	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	2519.10	K.g.		
24	(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.	60.00	K.g.		
25	(P.No.-85,C.N.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 and panelling to be paid for separately				

S. N.	Code No.	Item Work	Qty.	Unit	Rate	Amount
	(C.N. 9.45.2)	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).	839.70	K.g.		
26	(P.NO-85,C.N.9.48)	Extra for powder coated (minimum 50 micron) aluminium sections instead of anodized.	839.70	Kg.		
27a	(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	83.97	Sqm.		
27B	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.	83.97	Sqm.		
C	8.165 D.3	Two track two panels sliding window made of (big series) frame 67x50mm & sash 46 x 62 mm both having wall thickness of 2.3+0.2mm and single glazing bead/double glazing bead of appropriate dimension (Area of window above 1.75 sqm upto 2.50 sqm)	4.50	sqm		
29	(P-86,C.N. 9.56)	Providing and fixing of floor spring IS: marked (Everite, Door link or any equivalent make) with stainless steel cover plate including cutting and making good the floor etc. complete.	2.00	Each		
30		DOOR WINDOW FITTINGS				
	8.77.1	bult hinges 125x85x5.5mm (heavy)	126.00	Each		
	8.60.1	sliding door bolt 300x16mm	90.00	Each		
	8.80.2	door each 250x16x5mm	90.00	Each		
	8.62.3	tower bolt 150x10mm	90.00	Each		
	8.65.1	handle 125mm	90.00	Each		
	8.76	P/F hanginh door stopper	45.00	Each		
<b>FLOORING WORK(STONE, TILES)</b>						
31	(P.No.-112,C.N.12.10)	12.10 Providing and laying rectified ceramic glazed tiles of size 300x300mm and above conforming to IS : 15622 of approved make, colour, shade laid on 20 mm thick Cement Mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with white cement mixed with matching pigment etc., complete. 12.10.1 Size 300x300mm sqm	526.17	sqm.		



S. N.	Code No.	Item Work	Qty.	Unit	Rate	Amount
32	(P.No.- 112,C.N.12.13)	12.13 Providing and laying vitrified floor tiles with double charge/ multi charge printing with water absorption less than 0.5% and conforming to IS : 15622 of approved make in all colours and shades and size mentioned below (+/- 10mm), 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. 12.13.1 Size 600x600mm	871.65	Sq.M.		
33	(P.No.- 124,C.N.12.58)	Providing & laying 60mm thick precast interlocking concrete blocks of approved size (approx 305 sqcm) and shape/ pattern, over 40 mm thick average complete coarse sand bed with joints of 3mm thick filled by fine sand including leveling with surface vibrator, temping and sweeping etc. complete of minimum compressive strength of 250 kg/sq.cm 12.58.1 Plain precast interlock concrete block	258.96	sqm.		
34A	(P.No.- 118,C.N.12.46.2)	(C.N. 12.46.2)15 mm thick table rubbed polished granite stone slab in riser and treads of steps skirting dado and pillars laid on 12mm (average) thick base of cement mortar 1:3	115.65	sqm.		
34B		(C.N. 12.54) Extra for noising in steps and tread of red or white fine dressed and rubbed sand stone.	400.00	Rmt.		
<b>PAINTING WORK</b>						
35	(P.NO- 133,C.N.14.13, )	Providing and applying 2mm thick ready mix exterior grade putty (Birla wall care, Alltek Superfine W/R of (NCL), J.K. wall putty) on walls to make the surface smooth and even. ( interior & exterior )	3536.45	sqm.		
36	(P.NO- 133,C.N.14.12)	14.12 Applying one coat of cement primer on wall surface (applied @ 0.80 liters/10 sqm) complete.	3536.45	sqm.		
37	(P.NO- 132,C.N.14.9.1. )	Distempering with acrylic washable distemper to give an even shade. On new work (Two or more coats) for interior	3536.45	sqm.		
38	(P.NO.- 133,C.N.14.16.1)	14.16 Painting exterior surface with PREMIUM ACRYLIC SMOOTH exterior paint of required shade as per manufacturer's specifications to give protective and decorative finish including cleaning washing of surface etc.complete with: 14.16.1 On new work (Two or more coats applied @ 1.43 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm) sqm 74.50	1129.03	sqm.		
39	(P.NO.- 134,C.N.14.22.1)	Satin synthetic enamel paint ( top most approved branded quality)	176.94	Sq.M.		
					<b>Total Rs.</b>	

S. N.	Code No.	Item Work	Qty.	Unit	Rate	Amount
40	(+) Add	8% (Electrical installation for Internal & External)			Rs.	
41	(+) Add	5% (Sanitary & Water installation for Internal & External)			Rs.	
					Total Rs.	
Total Cost of Ground Floor=A					Say Rs.	
<b>TOTAL LENGTH OF BOUNDRY WALL -</b>						
[As per P.W.D.- S.O.R. in Force From 1Jan 2015]						
S. N.	Code No.	Item Work	Qty.	Unit	Rate	Amount
<b>Excavation and Earth filling</b>						
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 .	118.80	Cu.M.		
2	(P.NO.-11,C.N.-1.17 )	Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm in depth onsolidating each deposited layer by amming and watering with a lead upto 50 M. and lift upto 1.5 M.	83.16	Cu.M.		
<b>Shuttering &amp; Formwork</b>						
3	(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				
	2.1.1 Foundations, footings, bases of columns plinth beam, curtain wall in anyshape and size an		255.20	Sq.M.		
	2.1.5 Columns, Pillars, Piers and likes- rectangular or square in shape		165.00	sqm.		
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.	7.92	Cu.M.		
<b>PCC &amp; RCC WORK</b>						
5	(P.NO.-23,C.N. 3.1.2 )	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., 3.1.2 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size).	7.92	Cu.M.		
5	Page no.23,Code no. 3.2.1	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).-M-20	41.58	cum.		

S. N.	Code No.	Item Work	Qty.	Unit	Rate	Amount
6	Page no.24,Code no. 3.14.1	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				
			3742.20	K.g.		
7	(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 gradedcrushed stone aggregate 20mm nominal size) including formwork.	1.65	CUM		
<b>BRICK WORK</b>						
9	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)	29.70	Cu.M.		
10	(P.No.-45,(C.N. 7.5+7.6)	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	59.40	Cu.M.		
<b>PLASTERING WORK</b>						
11	(P.No.- 103,C.N.11.3.4)	11.3 Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of mix: - 11.3.4 In Cement Mortar 1:6 (1 cement : 6 fine sand)	1155.00	sqm.		
<b>STEEL WORK</b>						
12	(P.No.-81,C.N.9.15)	9.16 Providing and fixing M.S. frames of doors, windows, ventilators and cupboards joints mitred and welded with 15x3 mm lugs 10cm long embedded in cement concrete blocks 15x10x10cm of grade M-10 or with wooden plugs and screws or with dash fastener or rawl plugs and screws or with fixing clips or with bolts and nuts as required including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer. 9.16.3 MS tubular frames (GATE)	400.00	K.g.		
13	(P.NO.-84,C.N.9.45)	9.45 Providing and placing in position angle iron post and strut of required size including bottom to be split and bent at right angle in opposite direction for required length and drilling holes upto 10 mm dia as per requirement including priming coat with red oxide zinc chromate primer and placing the post/ strut in cement concrete block.	198.00	K.g.		

S. N.	Code No.	Item Work	Qty.	Unit	Rate	Amount
14	(P.NO.-84,C.N.9.39)	9.39 Providing and fixing in position G.I. barbed wire (93.8gram/m) to concrete/ wooden/ angle iron posts (straight or diagonal) including securing and screwing with G.I. tying wire, G.I. staples, G.I.U-nails or steel pins etc., complete(Cost of posts, struts to be paid for separately) 2+2 row	660.00	mtr		
15	(P.NO.-84,C.N.9.4)	9.40 Providing and fixing concertina coil fencing with required dia 610 mm (having 50 nos. round per 6 metre length) up to 3m height of wall with existing angle iron 'Y' shaped placed 2.4 m or 3.00 m apart tied with G.I. staples and G.I. clips to retain horizontal including necessary bolts or G.I. barbed wire tied to angle iron all complete as per direction of Engineer-incharge with reinforced barbed tape (R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)	330.00	mtr		
<b>PAINTING WORK</b>						
16	(P.NO.-132,C.N.14.9)	14.9 Distempering with acrylic washable distemper to give an even shade.14.9.1 On new work (Two or more coats)	1155.00	sqm.		
17	(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	20.00	Sq.M.		
<b>Total Cost of Boundry wall=B</b>					<b>Total Rs.</b>	
<b>Total Cost of Ground Floor Building=A+B</b>					<b>Rs.</b>	
					<b>SAY Rs.</b>	
<b>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</b>						

INDIRA GANDHI AGRICULTURE UNIVERSITY RAIPUR (C.G.)						
PROPOSED GIRLS HOSTEL BUILDING (75 BEDDED) FOR COLLEGE OF AGRICULTURE						
BILL OF QUANTITY OF FIRST FLOOR						
[As per P.W.D.- Building S.O.R. in Force From 1 Jan. 2015]						
S. N.	Code No.	Item Work	Qty.	Unit	Rate	Amount
<b>Shuttering &amp; Formwork</b>						
1	( 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				
	2.1.5 Columns, Pillars, Piers and likes- rectangular or square in shape		370.40	sqm.		
	2.1.2 Wall of any thickness including attached pilasters, buttresses etc. in superstructure.		1495.31	sqm.		
<b>RCC WORK</b>						
2	Page no.23,Code no. 3.3	3.3 Providing and laying design mix reinforced cement concrete with crushed graded stone aggregate 20mm nominal size using batching plant, transit mixer and concrete pump, in all works upto plinth level excluding cost of form work.				
		(3.4.2) M-20	206.17	cum.		
3	Page no.24,Code no. 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:				
		3.12.2 Thermo-Mechanically treated bars FE 500D	26801.52	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.	5.74	cum.		
5	(P.No.-24,C.N. 3.15)	Applying a coat or not bitumen 30/40 using @ 1.7 kg./sqm on damp froof copurse after cleaning the surface of brushes and finally with a piece of cloth lightly socked in kerosine oil.	115.00	Sqm.		
<b>BRICK WORK</b>						
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	285.51	cum.		
<b>PLASTERING WORK</b>						
7	(P.No.- 103,C.N.11.3.4)	15mm thick cement plaster on the rough side of single or half brick wall of mix: Outer side of walls.(1:6)	809.80	sqm.		

S. N.	Code No.	Item Work	Qty.	Unit	Rate	Amount
8	Page no.103, Code no. 11.2.4	12mm thick cement plaster of inner side of walls.(1:6)	2403.44	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)	884.59	sqm.		
10	(P.No.- 111.C.N.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	884.59	sqm.		
11	(P.No.- 110,C.N.11.31)	moulded mortar band in cement mortar 1:4 per cm width a(18mm thick)	240.00	Rm		
<b>DOOR &amp; WINDOW</b>						
12	(P.No.-81,C.N.9.16)	Providing and fixing M.S. frames of doors, windows and ventilators joints mitred and welded with 15x3 mm lugs 10cm long embedded in cement concrete blocks 15x10x10cm of grade M-10 or with wooden plugs and screws or with dash fastener or rawl plugs and screws or with fixing clips or with bolts and nuts as required including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer. 9.11.2 Angle-iron frames Equal angle size 40x40mm (4mm thick)	975.36	kg.		
13	(P.No.- 56,C.N.8.12.2.)	Providing and fixing flush door shutters 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 8.10.2 35 mm. thick (single leaf)	56.04	sqm.		
13b	8.13.5	8.13.5 25 mm. thick (double leaf for cupboard shutters with piano type hinges)	88.20	sqm.		
14	(P.No.- 74,C.N.8.151)	8.157 Providing and fixing factory made P.V.C. door frame of size 50x47mm with a wall thickness of 5mm, made out of extruded .manufacturers specification and direction of Engineer-in-Charge.	66.50	Mtr.		
15	(P.No.- 74,C.N.8.151)	PVC DOOR Providing and fixing 30mm thick factory made panel PVC door shutter consisting of frame made out of m.s. tubes of 19 gauge th. and size of 19mmx19mm for styles and 15x15mm for top & bottom rails M.S. frame shall have a coat of steel primer of approved make and manufacture M.S. frame covered with 5 mm th. heat	22.05	Sq.M.		
<b>STEEL &amp; ALUMINIUM WORK</b>						

S. N.	Code No.	Item Work	Qty.	Unit	Rate	Amount
16	(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.	4.5	sqm		
17	(P.No.-86,C.N.9.10)	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	2376.00	K.g.		
19	(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.	60.00	K.g.		
20	(P.No.-85,C.N.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 and panelling to be paid for separately)				
	(C.N. 9.45.2)	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).	792.00	K.g.		
21	(P.NO.-85,C.N.9.48)	Extra for powder coated (minimum 50 micron) aluminium sections instead of anodized.	792.00	Kg.		
22A	(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	79.20	Sqm.		
22B	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.	79.20	Sqm.		

S. N.	Code No.	Item Work	Qty.	Unit	Rate	Amount
23	(P-86,C.N. 9.56)	Providing and fixing of floor spring IS: marked (Everite, Door link or any equivalent make) with stainless steel cover plate including cutting and making good the floor etc. complete.	1.00	Each		
24		DOOR WINDOW FITTINGS				
	8.77.1	bult hings 125x85x5.5mm (heavy)	114.00	Each		
	8.60.1	sliding door bolt 300x16mm	90.00	Each		
	8.80.2	door each 250x16x5mm	90.00	Each		
	8.62.3	tower bolt 150x10mm	90.00	Each		
	8.65.1	handle 125mm	90.00	Each		
	8.76	P/F hanginh door stopper	45.00	Each		
<b>FLOORING WORK(STONE, TILES)</b>						
25	(P.No.- 112,C.N.12.10)	12.10 Providing and laying rectified ceramic glazed tiles of size 300x300mm and above conforming to IS : 15622 of approved make, colour, shade laid on 20 mm thick Cement Mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with white cement mixed with matching pigment etc., complete. 12.10.1 Size 300x300mm	537.72	sqm.		
26	(P.No.- 112,C.N.12.13)	12.13 Providing and laying vitrified floor tiles with double charge/ multi charge printing with water absorption less than 0.5% and conforming to IS : 15622 of approved make in all colours and shades and size mentioned below (+/- 10mm), 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. 12.13.1 Size 600x600mm	796.10	Sq.M.		
27	(P.No.- 118,C.N.12.46.2)	(C.N. 12.46.2)15 mm thick table rubbed polished granite stone slab in riser and treads of steps skirting dado and pillars laid on 12mm (average) thick base of cement mortar 1:3	77.13	sqm.		
27 b		(C.N. 12.54) Extra for noising in steps and tread of red or white fine dressed and rubbed sand stone.	273.00	Rmt.		
<b>PAINTING WORK</b>						
28	(P.NO- 133,C.N.14.13, )	Providing and applying 2mm thick ready mix exterior grade putty (Birla wall care, Alltek Superfine W/R of (NCL), J.K. wall putty) on walls to make the surface smooth and even. ( interior & exterior )	3288.03	sqm.		
29	(P.NO- 133,C.N.14.12)	14.12 Applying one coat of cement primer on wall surface (applied @ 0.80litrs/10 sqm) complete.	3288.03	sqm.		
30	(P.NO- 132,C.N.14.9.1. )	Distempering with acrylic washable distemper to give an even shade. On new work (Two or more coats) for interior	3288.03	sqm.		



S. N.	Code No.	Item Work	Qty.	Unit	Rate	Amount
31	(P.NO.- 133,C.N.14.16.1)	14.16 Painting exterior surface with PREMIUM ACRYLIC SMOOTH exterior paint of required shade as per manufacturer's specifications to give protective and decorative finish including cleaning washing of surface etc.complete with: 14.16.1 On new work (Two or more coats applied @ 1.43 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm) sqm 74.50	809.80	sqm.		
30	(P.NO.- 134,C.N.14.22.1)	Satin synthetic enamel paint ( top most approved branded quality)	167.40	Sq.M.		
					Total Rs.	
32	(+) Add	8% (Electrical installation for Internal & External)			Rs.	
33	(+) Add	5% (Sanitary& Water installation for Internal & External)			Rs.	
					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						

INDIRA GANDHI AGRICULTURE UNIVERSITY RAIPUR (C.G.)						
PROPOSED GIRLS HOSTEL BUILDING (75 BEDDED) FOR COLLEGE OF AGRICULTURE						
BILL OF QUANTITY OF STAIRCASE TOWER AND TERRACE FLOOR						
[As per P.W.D.- Building S.O.R. in Force From 1 Jan. 2015]						
S. N.	Code No.	Item Work	Qty.	Unit	Rate	Amount
<b>Shuttering &amp; Formwork</b>						
1	( 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				
	2.1.5 Columns, Pillars, Piers and likes- rectangular or square in shape		121.80	sqm.		
	2.1.2 Wall of any thickness including attached pilasters, buttresses etc. in superstructure.		77.75	sqm.		
<b>RCC WORK</b>						
2	Page no.23,Code no. 3.3	3.3 Providing and laying design mix reinforced cement concrete with crushed graded stone aggregate 20mm nominal size using batching plant, transit mixer and concrete pump, in all works upto plinth level excluding cost of form work.				
		(3.4.2) M-20	18.80	cum.		
3	Page no.24,Code no. 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:				
		3.12.2 Thermo-Mechanically treated bars FE 500D	2444.00	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.	0.48	cum.		
5	(P.No.-24,C.N. 3.15)	Applying a coat or not bitumen 30/40 using @ 1.7 kg./sqm on damp froof copurse after cleaning the surface of brushes and finally with a piece of cloth lightly socked in kerosine oil.	10.00	Sqm.		
<b>BRICK WORK</b>						
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	90.77	cum.		
<b>PLASTERING WORK</b>						
7	(P.No.- 103,C.N.11.3.4)	15mm thick cement plaster on the rough side of single or half brick wall of mix: Outer side of walls.(1:6)	550.38	sqm.		
8	Page no.103,Code no. 11.2.4	12mm thick cement plaster of inner side of walls.(1:6)	87.38	sqm.		

S. N.	Code No.	Item Work	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)	50.00	sqm.		
10	(P.No.-111.C.N.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	50.00	sqm.		
11	(P.No.-110,C.N.11.31)	moulded mortar band in cement mortar 1:4 per cm width a(18mm thick)	240.00	Rm		
<b>DOOR &amp; WINDOW</b>						
12	(P.No.-81,C.N.9.16)	Providing and fixing M.S. frames of doors, windows and ventilators joints mitred and welded with 15x3 mm lugs 10cm long embedded in cement concrete blocks 15x10x10cm of grade M-10 or with wooden plugs and screws or with dash fastener or rawl plugs and screws or with fixing clips or with bolts and nuts as required including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer. 9.11.2 Angle-iron frames Equal angle size 40x40mm (4mm thick)	30.72	kg.		
13	(P.No.-56,C.N.8.12.2.)	Providing and fixing flush door shutters 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 8.10.2 35 mm. thick (single leaf)	4.62	sqm.		
<b>STEEL &amp; ALUMINIUM WORK</b>						
14	(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.	5.50	sqm		
15		DOOR WINDOW FITTINGS				
	8.77.1	bult hinges 125x85x5.5mm (heavy)	6.00	Each		
	8.60.1	sliding door bolt 300x16mm	2.00	Each		
	8.80.2	door each 250x16x5mm	2.00	Each		
	8.62.3	tower bolt 150x10mm	2.00	Each		
	8.65.1	handle 125mm	2.00	Each		
	8.76	P/F hanginh door stopper	2.00	Each		
<b>FLOORING WORK( WATER PROOFING</b>						
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 affectedleakage area.	900.00	sqm.		
<b>PAINTING WORK</b>						

S. N.	Code No.	Item Work	Qty.	Unit	Rate	Amount
17	(P.NO-133,C.N.14.13, )	Providing and applying 2mm thick ready mix exterior grade putty (Birla wall care, Alltek Superfine W/R of (NCL), J.K. wall putty) on walls to make the surface smooth and even. ( interior & exterior )	137.38	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.	137.38	sqm.		
19	(P.NO-132,C.N.14.9.1. )	Distempering with acrylic washable distemper to give an even shade. On new work (Two or more coats) for interior	137.38	sqm.		
20	(P.NO.-133,C.N.14.16.1)	14.16 Painting exterior surface with PREMIUM ACRYLIC SMOOTH exterior paint of required shade as per manufacturer's specifications to give protective and decorative finish including cleaning washing of surface etc.complete with: 14.16.1 On new work (Two or more coats applied @ 1.43 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm) sqm 74.50	550.38	sqm.		
					Total Rs.	
21	(+) Add	8% (Electrical installation for Internal & External)			Rs.	
22	(+) Add	5% (Sanitary& Water installation for Internal & External)			Rs.	
					Total Rs.	
Total Cost of 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						

**INDIRA GANDHI AGRICULTURE UNIVERSITY RAIPUR (C.G.)**  
**PROPOSED GIRLS HOSTEL BUILDING (75 BEDDED) FOR COLLEGE OF AGRICULTURE**

**BILL OF QUANTITY OF PLINTH PROTECTION**

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

S.N.	Code No.	Item Work	Qty.	Unit	Rate	Amount
1	(P.N-142,CN.. 1.2)	15.1 Providing, driving and installing driven cast-in-situ reinforced cement concrete piles of specified diameter and length below the pile cap M 35 in cement concrete, to carry safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of shoe and the length of pile to be embedded in the pile cap etc. all complete. (Length of pile for payment shall be measured from top of shoe to the bottom of pile cap) : 15.1.1 - 400 mm dia piles	97.50	Mtr.		
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.	129.60	Cum.		
<b>Shuttering &amp; Formwork</b>						
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	72.00	Sq.M.		
<b>PCC &amp; RCC WORK</b>						
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).	21.60	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	7.20	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	1948.50	K.g.		
<b>BRICK WORK</b>						
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)	21.60	Cu.M.		
<b>PLASTERING WORK</b>						

8	(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)	144.00	sqm.		
9	(P.No.- 116,C.N.12...3 6)	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	216.00	Sq.M.		
					Total Rs.	
Total Cost of Plinth Protection					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**

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

## PROPOSED WARDEN QUARTER (G- TYPE)

### BILL OF QUANTITY OF GROUND FLOOR

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

S. N.	Code No.	Item Work	Qty.	Unit	Rate	Amount
<b>Excavation and Earth filling</b>						
1	(Page no.9,Code no. 1.2)	Surface dressing of the ground including removing vegetation and making up undulations and in-equalities not exceeding 15 cms in depth/ height including disposal of rubbish upto 1.5 m lift and lead upto 50m (at least 5m away from the dressed area)	134.38	Sqm.		
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 .	103.50	Cu.M.		
2b	(P.NO.-11,C.N.-1.17 )	Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm in depth onsolidating each deposited layer by amming and watering with a lead upto 50 M. and lift upto 1.5 M.	81.00	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.	89.2	Cum.		
4a	(P.NO.-11,C.N.- 1.24.1 )	1.22 Supplying chlorpyrifos/ Lindane emulsifiable concentrate of 20% in sealed containers including delivery as specified. litre 208.00	50.00	Ltr.		
b	(P.NO.-12,C.N.-1.25 )	Diluting chemical emulsion (Chlorpyriphos/ lindane) in water asper manufacturers ecommendation and injecting for preconstructional curative cum preventive anti- ermitetreatment:(Five year service guarantee bond to be signed bycontractor) 11CodeNoDescriptionUnitRateRs.1.24.1 Surface treatment by spreading emulsion under floor, over the plinth area before laying base concrete @ 5 litres / sqm.	134.4	sqm		
b	(P.NO.-11,C.N.- 1.24.2 )	Treatment of inside of plinth masonry wall on using diluted chemical emulsion @ 1.5 litre per hole, including drilling 12 mm diameter holes in plinth wall below plinth protection at the intervals of 300 mm and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand).	100.00	Mtr.		

S. N.	Code No.	Item Work	Qty.	Unit	Rate	Amount
c	(P.NO.-12,C.N.-1.25.3)	Treatment of outer side of plinth masonry wall using diluted chemical emulsion @ 1.5 litre per hole, including drilling 12 mm diameter holes in plinth wall at the junction of floor at the intervals of 300 mm and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand).	100.00	Mtr.		
<b>Shuttering &amp; Formwork</b>						
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				
	2.1.1 Foundations, footings, bases of columns plinth beam, curtain wall in anyshape and size and all t		134.65	Sq.M.		
	2.1.5 Columns, Pillars, For Column's upto slab IV.		66.00	sqm.		
	2.1.2 Wall of any thickness including attached pilasters, buttresses etc. in superstructure.		266.01	sqm.		
<b>PCC &amp; RCC WORK</b>						
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).	17.58	Cu.M.		
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).- M-20	52.59	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 - 500 D	5784.71	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.	1.20	cum.		
10	(P.No.-24,C.N. 3.15)	Applying a coat or not bitumen 30/40 using @ 1.7 kg/sqm on damp froof copurse after cleaning the surface of brushes and finally with a piece of cloth lightly socked in kerosine oil.	30.00	Sqm.		
<b>BRICK WORK</b>						
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)	18.45	Cu.M.		



S. N.	Code No.	Item Work	Qty.	Unit	Rate	Amount
12	(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	55.56	cum.		
<b>PLASTERING WORK</b>						
13	(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)	378.76	sqm.		
14	Page no.103,Code no. 11.2.3	12mm thick cement plaster of inner side of walls.(1:5)	340.13	sqm.		
15	(P.No.- 103,C.N.11.1.1)	Ceiling plaster 6mm thick cement plaster In Cement mortar 1:3 (1 cement : 3 fine sand)	121.33	sqm.		
16	(P.No.- 111.C.N.12.10)	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.	121.33	sqm.		
17	(P.No.- 106,C.N.11.32)	moulded mortar band in cement mortar 1:4 per cm width a(18mm thick)	125.00	Mtr.		
<b>DOOR &amp; WINDOW</b>						
18	(P.No.-81,C.N.9.18	9.18 Providing and fixing in position doors, windows and ventilators frames made of cold rolled pressed steel sheet framed profiles made from commercial M.S. Sheets conforming to I.S. 513 of 1973 and as per general specifications of I.S 4351 including hinges jamb, lock jamb, steel butt hinges, base tie, joints mitred and welded with 10cm long legs of size 15x3mm M.S. flat, embedded in cement concrete blocks 15x10x10cm size of grade M-10 or rawl plugs and screws or with fixing clips or with bolts and nuts including neatly compacted filling M-10 cement concrete in profile section applying a priming coat of red oxide zinc chromate primer. <b>9.18.4 Single rebate/ mullion 100mmx50mm size, 1.6mm thick sheet.</b>	31.40	Mtr.		
19	(P.No.- 56,C.N.8.12.2.)	Providing and fixing flush door confirming 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 8.10.2 35 mm. thick (single leaf)	10.08	sqm.		

S. N.	Code No.	Item Work	Qty.	Unit	Rate	Amount
20	(P.No.-73,C.N.8.151)	8.157 Providing and fixing factory made P.V.C. door frame of size 50x47mm with a wall thickness of 5mm, made out of extruded .manufacturers specification and direction of Engineer-in-Charge.	11.40	Mtr.		
21	(P.No.-74,C.N.8.151)	PVC DOOR Providing and fixing 30mm thick factory made panel PVC door shutter consisting of frame made out of m.s. tubes of 19 gauge th. and size of 19mmx19mm for styles and 15x15mm for top & bottom rails M.S. frame shall have a coat of steel primer of approved make and manufacture M.S. frame covered with 5 mm th. heat (PVC door shutter)	3.15	Sq.M.		
<b>STEEL &amp; ALUMINIUM WORK</b>						
23	(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	561.60	K.g.		
24	(P.No.-85,C.N.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 and panelling to be paid for separately				
	(C.N. 9.45.2)	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).	149.76	K.g.		
25	(P.NO-85,C.N.9.48)	Extra for powder coated (minimum 50 micron) aluminium sections instead of anodized.	149.76	Kg.		
26	(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	18.72	Sqm.		
27						
	8.77.1	bult hinges 125x2.5mm (heavy)	40.00	Each		
	8.60.1	sliding door bolt 300x16mm	14.00	Each		
	8.80.2	door each 250x12mm	14.00	Each		
	8.62.3	tower bolt 150x10mm	14.00	Each		

S. N.	Code No.	Item Work	Qty.	Unit	Rate	Amount
	8.65.1	handle 125mm	14.00	Each		
	8.76	P/F hanginh door stopper	10.00	Each		
28	(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.	50.00	Kg.		
<b>FLOORING WORK(STONE, TILES)</b>						
29	(P.No.-112,C.N.12.10.1)	Providing and laying ceramic glazed floor tiles 300x300mm conforming to IS : 15622 of approved make, colour, shade laid on 20 mm thick Cement Mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with white cement mixed with matching pigment etc., complete. 12.7.1 In all colours except White, Ivory, Grey, Fume Red Brown,	13.50	Sqm.		
30	(P.No.-112,C.N.12.10.1)	Providing and fixing ceramic glazed wall tiles conforming to IS : 15622 of approved make, colours, shades and size on wall and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with matching pigment complete.	26.10	sqm.		
31	(P.No.-118,C.N.12.49)	25 mm thick KOTA stone slab flooring over 20mm (average) thick base of cement mortar 1:4 laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including grinding rubbing and polishing etc. complete (Area of slab to be over 0.20 sq.m and upto 0.50 sq.m)	36.24	Sq.M.		
32	(P.No.-112,C.N.12.12)	Providing and laying vitrified floor tiles with soluble salt 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:	71.77	Sq.M.		
33	(P.No.-118,C.N.12.46.3)	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). 12.46.1 Granite stone grey/pink				
		door & window sill	2.34	sqm.		

S. N.	Code No.	Item Work	Qty.	Unit	Rate	Amount
34		(C.N. 12.54) Extra for noising in steps and tread of red or white fine dressed and rubbed sand stone.	11.70	Rmt.		
<b>PAINTING WORK</b>						
35	(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.	461.46	sqm.		
36	(P.NO-133,C.N.14.12 )	14.12 Applying one coat of cement primer on wall surface (applied @ 0.80 litres/10 sqm) complete. sqm 23.00	461.46	sqm.		
37	(P.NO-132,C.N.14.9.1. )	Distemping with acrylic washable distemper. 14.5.1 On new work (Two or more coats) for interior	461.46	sqm.		
38	(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	378.76	sqm.		
39	(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	37.44	Sq.M.		
					<b>Total Rs.</b>	
40	(+) Add	8% (Electrical installation for Internal & External)			<b>Rs.</b>	
41	(+) Add	5% (Sanitary& Water installation for Internal & External)			<b>Rs.</b>	
					<b>Total Rs.</b>	
<b>Total Cost of Ground Floor</b>					<b>Say Rs.</b>	

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 RAIPUR (C.G.)

## BILL OF QUANTITY OF PROPOSED C.C.ROAD

Estimate based on SOR for Road Works, C.G., P.W.D. w.e.f 01-01-2015

S.No.	C.NO.	Perticular's of Item	Quantity	Unit	Rate	Amount
1	{Page.No.-11, Item No.-3.1].	3.1 Excavation for roadway in soil using including loading in truck for carrying of cut earth to embankment site with all lifts and lead upto1000 meters as per relevant clauses of section 300.	270.00	CUM		
2	{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.	600.00	Cum		
3	{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)				
bottom	(iii)	PCC M-10	60.00	Cum		
top	(iv)	PCC M-30	120.00	Cum		
4	(P.No.- 120,C.N.12.65) BUILDING SOR	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	600.00	SQM		
					Total Rs.	
Total Cost of Road & pathway					Say Rs.	

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

## BILL OF QUANTITY OF RAINWATER HARVESTING SYSTEM

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

S.N.	Code No.	Item Work	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 .	27.00	Cu.M.		
2	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).				
3		21.14.1 Stone boulders of size range 5 cm to 20 cm, in recharge pit	9.0	cum		
		21.14.2 Gravels of size range 5 mm to 10 mm, over the existing layer of boulders	9.0	cum		
		21.14.3 Coarse sand of size range 1.5 mm to 2 mm over existing layer of gravel	9.0	cum		
6	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.	2.0	Each		
7	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 tubewelland inlet and outlet pipe beyond 2 metre)	100	ltr		
					Total Rs.	
					Say Total Rs.	

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

## BILL OF QUANTITY 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	Qty.	UNIT	RATE	AMOUNT
	<b>(P.No.-201,C.N.21.17)</b>				
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)	3.00	point		
	<b>(P.No.-198,C.N.21.20)</b>				
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.	125.00	mtr		
	<b>(P.No.-199,C.N.21.50)</b>				
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	30.00	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	2.00	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.	2.00	Each		
	<b>Electrical sor 2015</b>				

S. No.	Item	Qty.	UNIT	RATE	AMOUNT
6	<b>P-88.C.N.-26.3</b> 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	1.00	Each		
			1 nos	Total Rs.	
				Say Rs.	



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

### BILL OF QUANTITY OF LAND DEVELOPMENT WORK

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

S.N.	Code No.	Item Work	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 .	282.00	Sqm.		
2	(P.NO.-11,C.N.-1.17 )	Filling from available excavated stuff (Excluding rock) intrenches, plinth, sides of foundation etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering with a lead upto 50 M. and lift upto 1.5 M.	282.00	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.	512.30	Cu.M.		
					Total Rs.	
Total Cost of Land Development work					Say Rs.	



GROUND FLOOR PLAN (BUILT UP AREA - 900 SQM)

PROPOSED GIRLS HOSTEL BUILDING  
(75 BEDDED) FOR COA AT  
PRATAPPUR/ SHANKERGARH/ PAKHANJUR/ GARIYABAND (C.G.)  
UNDER I.G.K.V-RAIPUR

SUB.Eng.

S.P.P.

Manish Rathod (B.Arch, A.I.A.)  
Architect Interior Designer  
Geeta Nagar, Himmat Steels,  
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Cell No. - 98328513271



**FIRST FLOOR PLAN (BUILT UP AREA - 800 SQM)**

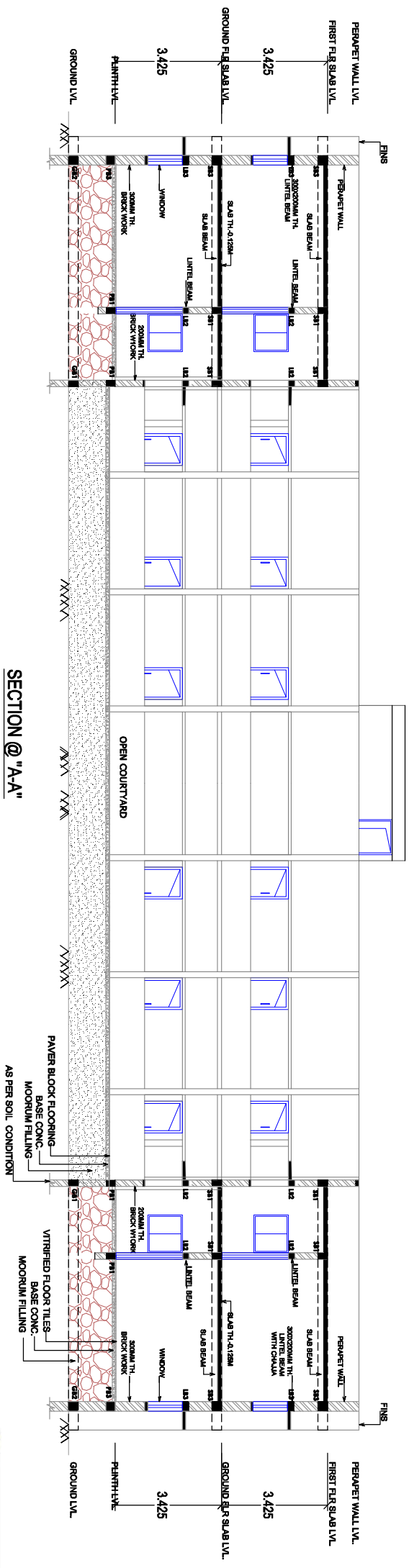
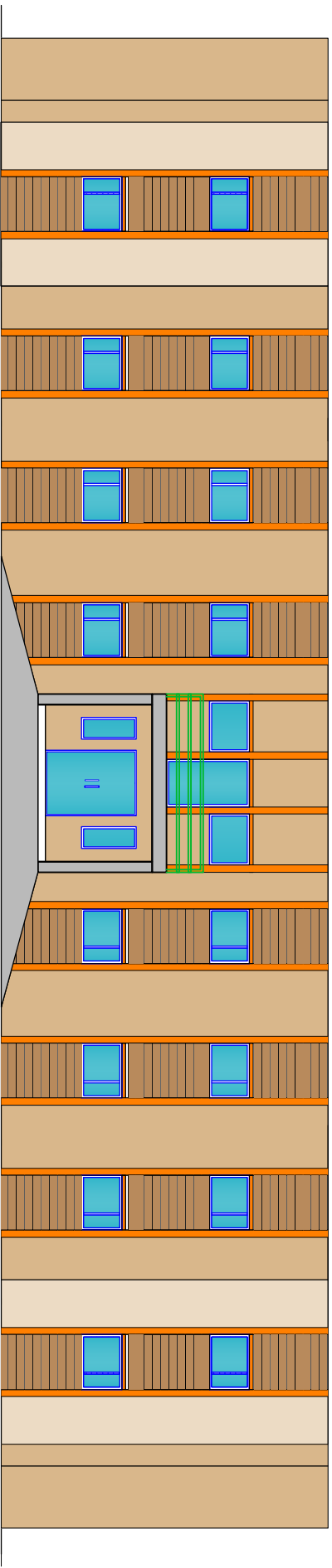
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