

**"CONSTRUCTION OF CONTROL ROOM BUILDING (G+1) AT ASHOK NAGAR PSS, PATNA."**

SL.	DETAILS OF WORK	Qty	UNIT	RATE
1	Surface dressing of the ground including removing vegetation and inequalities not exceeding 15 cm deep and disposal of rubbish, lead upto 50 m and lift upto	78.07	100 sqm	1355.40
2	Earth work in excavation over areas ( exceeding 30 cm in depth. 1.5 m in width as well es 10 sqm on plan) including disposal of excavated earth , lead upto 50 m and lift upto 1.5 m; disposed earth to be levelled and neatly dressed. All kinds of soils.	49.60	cum	314.90
3	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth: consolidating each deposited layer by ramming and watering lead	22.53	cum	123.90
4	Supplying and Filling in plinth with local sand and under floors including, watering, ramming consolidating and dressing complete.	20.04	cum	287.30
5	Providing designation 100 A one brick flat soling joints filled with local sand including cost of watering, taxes, royalty all complete as per building specification and	109.42	sqm	283.30
6	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering-all work upto plinth level.1:2:4(1 Cement: 2 coarse sand:4 graded stone aggregate 20 mm nominal	7.60	cum	3998.10
7	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement-All work upto plinth level 1:1:5:3(1 cement: 1.5 coarse sand:3 graded stone aggregate 20 mm nominal size)	14.88	cum	4688.30
8	Reinforced cement concrete work in wall (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts, etc. upto floor five level excluding cost of centring, shuttering, finishing and reinforcement 1:1:5:3(1 cement: 1.5 coarse sand:3	10.34	cum	5670.00
9	Reinforced cement conrete work in beams,suspended floors, roofs having slope upto 15, landings, balconies, shelves, chajjas, lintels,bands, plain window sills, staircases and spiral stair cases upto floor five level excluding the cost of centering, shuttering, finishing and reinforcement with 1:1:5:3 (1 cement:2 coarse sand:4 graded stone aggregate 20 mm nominal size)	56.60	CUM	5719.70

10	Brick work with bricks of class designation 100A in foundations and plinth in :Cement mortar 1:6 (1cement: 6 coarse sand )	7.34	cum	4819.90
11	Brick work with bricks of class designation 100A in ABOVE foundations andplinth in :Cement mortar 1:6(1cement: 6coarse sand )	85.11	cum	5662.10
12	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.			
A	Thermo-Mechanically Treated bars TMTC-500-16mm dia.	3077.57	KG	91.70
B	Thermo-Mechanically Treated bars TMTC-500-12mm dia.	959.19	KG	90.80
C	Thermo-Mechanically Treated bars TMTC-500-10mm dia.	1297.63	KG	92.60
D	Thermo-Mechanically Treated bars TMTC-500-8mm dia.	2328.96	KG	94.50
13	Centring and shuttering including strutting,propping etc. and removal of form for. Foundations, footings, bases of columns etc. for mass concrete.	163.49	sqm	211.60
14	Lintels, beams, plinth beams, girders, bressumers and cantilevers with water proof ply 12 mm thick.	149.05	sqm	518.90
15	Columns,Pillars, Piers, Abutments, Posts and Struts	135.43	sqm	494.40
16	Weather shade,Chajjas, corbels etc. including edges	38.15	sqm	550.90
17	Suspended floors, roofs, landings, balconies and access platform with water proof ply 12 mm thick.	97.44	sqm	544.60
18	Extra for additional height in centring, shuttering wherever required with adequate bracing, propping etc. including cost of de-shutering and de centring at all levels over a height of 3.5 m ,for every additional height of 1 metre or part thereof (Plan area to be measured)			
	Suspended floors, roots, laning, beams and balconies (Plan area to be measured)	17.09	sqm	174.00
19	Cement plaster in course sand 12 mm cement plaster of mix: 1:6(1 cement: 6 coarse sand)	573.54	sqm	141.50
20	6 mm cement plaster to ceiling of mix :1:4(1 cement: 4 coarse sand)	187.87	sqm	125.60
21	12 mm cement plaster 1:3( 1 cement: 3 coarse sand) finished with a floating coat of neat cement	38.84	sqm	203.60

22	Providing and applying white cement based putty of average thickness 2 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete	761.42	sqm	105.40
23	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturersTwo or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of special primer applied @ 0.75 ltr /10 sqm.	761.42	sqm	117.30
24	Painting with ready mixed paint of approved brand and manufacture in all shades to give an even shade NEW steel work (one or more coats)	32.16	sqm	83.50
25	Providing and laying vitrified floor tiles in different sizes {thickness to be specified by the manufactruer) with water absorption's less than 0.08 %and conforming to IS : 15622 of approved make in all colours andshades, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand ) including grouting the joint with white cement and matching pigments etc., complete.Size of Tile 60x60 cm	139.94	sqm	1638.80
26	Providing and fixing stone slab with table rubbed, edges rounded and polished, of size 75x50 cm deep and 1.8 cm thick, fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone finished smooth.aggregate 6 mm nominal size) as per direction of Engineer-in-Charge and	139.94	sqm	1638.80
27	52mmthickcementconcreteflooringwithmetallicconcretehardener toppingunder layer 40mmthickcement concrete1:2:4(1cement:2 coarsesand:4gradedstoneaggregate20mmnominal size)andtop layer12mmthickmetallicconcretehardenerconsistingof mix1:2(1 cement hardener mix:2 stone aggregate 6 mm nominal size) by volume @2literper50kgofcementoraspermanufacturespecificat ion.This includescostofcementslurry,etc.butexcludingthecostofn osingof steps etc. complete.	75.24	sqm	472.00

	<b>STEEL WORK</b>			
28	providing 40x5 mm flat iron hold fast 40 cm long including fixing to frame with 10 mm diameter bolts,nuts and wooden plugs and embeddings in cement concrete block 30x10x15 cm 1:3:6 mix (1 cement :3 coarse sand :6 graded stone aggregate 20 mm nominal size)	140	each	130.80
29	Providing and fixing 1 mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3mm MS gusset plates at the junction and corners.all necessary fittings completeincluding applying a priming coat of approved steel primer. Using M.S. angle 40x40x6 mm for diagonal braces	7.81	sqm	3653.00
30	Providing and fixing M.S. grills of requirement pattern in frames of windows etc. with M.S. flats, square or round bars etc.all completeFixed to steel windows by welding	497.03	kg	161.10
31	Providing and fixing in position collapsible steel shutters with vertical channes 20x10x2 mm and braced with flat iron diagonals 20x5 mm size with top and bottom rail of T-tron 40x40x6 mm with 40 mm dia steel pulleys complete with bolts.nuts locking arrangement stoppers handles including applying a priming coat of approved steel primer.	5.95	sqm	6303.40
	<b>aluminium work</b>			
32	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and			
A	For fixed portion Powder coated aluminium (minimum thickness of powder coating 50 micron)	231.39	kg	418.40

B	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)	198.54	kg	480.20
33	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item): With float glass panes of 8 mm thickness	40.45	sqm	1285.60
34	Providing and fixing stainless steel ( Grade 304) railing made of Hollow tubes,channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories &	166.341	kg	546.80
35	STEEL CHANNEL (150X75)Channel for electric panel	204.88	kg	73.37
36	Providing 150mm wide brick drain in cement mortar (1:6) with av. 150mm clear depth and 125mm apron concrete (1: 4:8), over one brick designation 100-A flat soling in proper grade and slope at the base, the drain duly plastered in CM. (1:3) with punning over exposed surface all complete as per building specification and direction of E/I,	30.00	mtr	582.50
37	Providing and fixing on wall face unplastidsed-PVC.110 mm diameter pipe...do.....do.....E/I	60.00	mtr	257.50
38	110 mm bend...do.....do.....E/I	8	each	132.00
39	110mm pipe clamp...do.....do.....E/I	50	each	182.72
40	<b>CARRIAGE OF MATERIALS</b>			
	Sone sand (45 km lead)	54.45	cum	1132.90
	Stone chips (115 km lead)	29.06	cum	2551.87
	Bricks (8 km lead)	42038	1000 nos	1140.58
	Local sand (3 km lead)	23.50	cum	310.47
41	<b>EXTRA COST OF MATERIALS</b>			
	Cement	459	bag	12.57
	Bricks	42038	1000 nos	1521.80
42	<b>SEINORAGE FEE</b>			
	Sone sand	54.45	cum	18.46
	Stone chips	29.06	cum	62.51

	Bricks	42038	1000 nos	9.14
	Local sand	23.50	cum	14.89
	<b>ELECTRIFICATION</b>			
43	Wiring for light point/fan point/exhaust fan point/call bell point with 1.5 sq.mm FR PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit with piano type switch, phenolic laminated sheet, suitable size M.S./PVC box etc as required	58.00	point	1120.00
44	Wiring for circuit/submain wiring along with earth wire with the following sizes of FR PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required			
45	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	200.00	m	246.00
46	2*4 sq.mm +1*4 sq.mm earth wire	100.00	m	309.00
47	Supplying and fixing metal/pvc box of 180mm X 100mm X 60 mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including providing and fixing 6 pin 5/6 & 15/16 amps socket outlet and 15/16 amps piano type switch, connections, painting etc. as required.	30.00	each	424.00
48	Supply of batten suitable for double, T8 LED tube light	40.00	each	180.00
49	Supplying and fixing following rating , 240 / 415 volts, C series , miniature circuit breaker suitable for inductive loads of following poles in the existing MCB DB complete with connection , testing and commissioning etc as required			
50	6 A to 32 A, double pole	10.00	each	667.00
51	Supplying and fixing 2 pin, 6 amp ceiling rose on the existing junction box/ wooden block including connection etc as required	30.00	each	64.00
52	Supplying and fixing batten/ angle holder including connection etc. as required.	12.00	each	80.00
53	Supply and installation of regular/standard model A.C. ceiling fan of 1200 mm sweep with service value (CM/MM) minimum 4.00, Air delivery minimum 270 cum/min including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated copper conductor etc as required.	10.00	each	1758.00

54	Supply and installation of 300 mm, 230 v A.C. exhaust fan in the existing opening including making good the damage, connection testing, commissioning etc as required	4.00	each	2482.00
55	Supplying and fixing stepped type electronic fan regulator on the existing modular plate/ switch box including connections but excluding modular plate etc. as required	10.00	each	359.00
56	Supplying and fixing following way single pole & neutral, sheet steel, MCB distribution board, 240 volts, on surface/ recess, complete with tinned copper bus bar, neutral busbar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCBisolator)			
	5 way, Double door	2.00	EACH	2197.00
57	Supptying and fixing following rating, 24A/4L5 volts, "C" curve, miniature circuit breaker suitable for inductive loads of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required'			
	40 A to 63 A, TP&N	2.00	each	2379.00

**CONSTRUCTION OF CABLE TRENCH INSIDE OF CONTROL ROOM at ashok nagar pss, PATNA.**

**PART-2**

SL.	DETAILS OF WORK	QUANTITY	UNIT	RATE
1	Supplying and Filling in plinth with local sand and under floors including, watering, ramming consolidating and dressing complete.	1.34	cum	287.30
2	Providing designation 100 A one brick flat soling joints filled with local sand including cost of watering, taxes, royalty all complete as per building specification and direction of E/I.	17.825	sqm	283.30
3	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering-all work upto plinth level.1:2:4(1 Cement: 2 coarse sand:4 graded stone aggregate 20 mm nominal size)	1.78	cum	3998.10

4	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring,shuttering,finishing and reinforcement-All work upto plinth level 1:1:5:3(1 cement: 1.5 coarse sand:3 graded stone aggregate 20 mm nominal size)	4.572	cum	4688.30
	<b>Reinforcement</b>			
5	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete. Thermo-Mechanically Treated bars TMTC-500-10mm dia.	4.38.9	kg	92.60
6	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete. Thermo-Mechanically Treated bars TMTC-500-8mm dia.	341.77	kg	94.50
	<b>Centring and shuttering</b>			
7	Centring and shuttering including strutting,propping etc. and removal of form for. Foundations, footings, bases of columns etc. for mass concrete.	34.10	sqm	211.60
	<b>STEEL WORK</b>			
8	Structural steel work in singal section fixed without connecting plate including cutting. hoisting,fixing in position and applying a priming coat of approved steel primer all complete.			
	for cable trench tray holder base 600mm c/c	385.20	kg	88.30
9	Painting with ready mixed paint of approved brand and manufacture in all shades to give an even shade NEW steel work (one or more coats)			
10	<b>CARRIAGE OF MATERIALS</b>			
	Sone sand (45 km lead)	2.76	cum	1132.90
	Stone chips (115 km lead)	5.47	cum	2551.87
	Bricks (8 km lead)	570	1000 nos	1140.59
	Local sand (3 km lead)	1.87	cum	310.47
11	<b>EXTRA COST OF MATERIALS</b>			
	Cement	48	bag	12.57
	Bricks	570	1000 nos	1521.80
12	<b>SEINORAGE FEE</b>			
	Sone sand	2.76	cum	18.46
	Stone chips	5.47	cum	62.51
	Bricks	570	1000 nos	9.14
	Local sand	1.88	cum	14.89