

BILL OF QUANTITY					
Name of Project:		400/220KV SUBSTATION AT BELLARY-III			
Name of Work:		BALANCE CIVIL WORK OF SWITCHYARD & CONTROL ROOM BUILDING			
S No	Description of Item	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
	Earthwork in Excavation				
1	Earthwork in surface excavation not exceeding 60cm in depth but exceeding 1.5 width as well as 10 sqm on plan including disposal of excavated earth up to 50m and lift up to 1.5 m , disposed soil to be levelled and neatly dressed.				
a.	All kind of soil	100sqm	50	5044.15	252207.50
2	Earthwork in excavation by mechanical means (Hydraulic excavator)/manual means over area (exceeding 30 cm in depth 1.5m in width as well as 10sqm on plan) including dewatering as necessary of rain water/subsoil seepage water and disposal of excavated earth upto 100m and lift upto 4.5m, disposed earth to be levelled and neatly dressed.				
2.1	Ordinary rock	cum	88.00	244.60	21524.80
2.2	Hard rock (blasting prohibited)	cum	163.00	618.10	100750.30
3	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	cum	200.00	112.40	22480.00
4	Carriage & disposal of surplus excavated earth/rock beyond initial lead by mechanical means not necessarily all the times on pucca roads, including loading, unloading, dressing of excavated material, etc., complete as per specifications -.				
(a)	Lead upto 1 km.	cum	50	99.44	4972.00
(b)	Lead upto 3 km.	cum	205	127.01	26037.05
5	Providing and laying water proofing treatment to vertical & horizontal surface and depressed portion of WC, Kitchen, and likely consisting of :	sqm	40.00	522.90	20916.00
(i)	Ist Course of applying cement slurry @4.4kg/sqm mixed with water proofing compound conforming to IS 2645 in recommended proportions including rounding off junction of vertical and horizontal surface.				
(ii)	II nd course of 20mm cement plaster 1:3 (1: cement, 3: coarse sand) mixed with water proofing compound in recommended proportions including rounding off junction of vertical and horizontal surface.				
(iii)	III rd course of applying blown or residual bitumen applied hot at 1.7kg . Per sqm of area.				
(iv)	IV course of 400 micron thick PVC sheet should be 100mm wide and pasted to each other with bitumen @ 1.7kg/sqm.				
6	Supplying chemical emulsion in sealed containers including delivery as specified.				
	Chloropyriphos emulsifiable concentrate of 20%	Litre	5.00	185.95	929.75
7	Diluting & injecting chemical emulsion for PRE-CONSTRUCTIONAL ANTI-TERMITE treatment and creating a continuous chemical barrier under and all around the column pits, wall trenches, basement excavation, top surface of plinth filling, junction of wall & floor, along the external perimeter of building, expansion joints, over the top surface of consolidated earth on which apron is to be laid , surroundings of pipes and conduits, etc complete as per specifications (Plinth area of the building at ground floor only shall be measured for payment).	sqm	80.00	118.90	9512.00

S No	Description of Item	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
8	Providing and laying damp proof course 50mm thick cement concrete 1:1.5:3 (1 Cement 1.5 coarse sand : 3 graded stone aggregate 12.5 mm nominal size).	sqm	30.00	337.65	10129.50
9	Applying two layers of residual petroleum bitumen of penetration 85/25 of approved quality using 1.7 kg per sqm on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	sqm	30.00	132.00	3960.00
10	Providing and laying cement concrete of specified grade excluding the cost of shuttering and centring-All work up to plinth level.				
10.1	1:5:10 (1 cement: 5 coarse sand: 10 brick aggregate 40mm nominal size)	cum	8.00	3,506.55	28052.40
11	Providing and placing concrete work including cost of labour, materials and equipment for handling, transportation, batching, mixing, placing, vibrating and curing, (excluding cost of centering, shuttering and reinforcement) with mechanised equipments like batching plant, transit mixer, concrete pump etc. complete as per drawing, specifications and as per direction of engineer in charge for the following.				
(a)	1:4:8 (1Cement : 4 Coarse sand : 8 graded stone aggregate 40 mm nominal size)	cum	4.00	4301.15	17204.60
(b)	1:3:6 (1Cement : 3 Coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	2.00	4672.50	9345.00
(c)	1:2:4 (1Cement : 2 Coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	49.00	5466.30	267848.70
12	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for RCC structural elements including roads excluding the cost of centering and shuttering finishing and reinforcement including admixture in recommended proportions (as per IS 9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability. M25 grade reinforced cement concrete by using min, 410 kg of cement per cum of concrete.				
(a)	All work upto floor V level.	cum	39.00	7608.75	296741.25
13	Providing & fixing in position precast cement concrete trench covers or perforated covers wherever necessary at various elevations in all kinds of work including moulding, formwork, mixing, laying out, compacting and curing, storing, transportation, erection without damage, setting in position with cement and sand mortar, grouting etc all as per specs, drawings and directions of Engr-in-Charge but excluding the cost of reinforcement, inserts, edge angles, etc.	cum	25	6242.60	156065.05
14	Centering and shuttering including strutting, propping, etc. and removal of form work for:				
(a)	Foundation, footings, bases of columns etc for mass concrete.	Sqm	50.00	196.45	9822.50
(b)	RCC wall at all levels (any thickness).	Sqm	130.00	360.8	46904.00
(e)	Column, pillars, piers, posts and struts.	Sqm	40.00	453.35	18134.00
15	Steel reinforcement - Cold twisted bars /TMT-Fe 500, preferably SAIL, TISCO, IISCO and RINL only				
(a)	Including supply and bending, binding (i/c cost of binding wire), placing in position, etc., all labour & material, complete.	kg	6,000.00	44.50	267000.00
16	Providing and fixing single or double steel door shutters with 45mm thk flush design shutter comprising of two outer sheets of 18 gauge steel sheets rigidly connected and reinforced inside with continuous vertical 20 gauge stiffeners, spot welded in position at not more than 150mm on centres including void filled with mineral wool (density as per specification), all fittings, Godrej or equivalent make mortice lock with handle on both sides, shop and final painting etc all complete.	SQM	3.00	5400	16200.00

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17	Providing and fixing fire proof steel doors (single or double shutter) with panic devices shall be 45mm thk flush design comprising of two outer sheets of 18 gauge steel sheets rigidly connected and reinforced inside with continuous vertical 20 gauge stiffeners, spot welded in position at not more than 150mm on centers including all fittings, shop painting with approved post office/signal red color fire resistant paint and mineral wool insulation (64 kg/cum density) complete and shall be fire proof as per IS:3614, TAC requirements and as per specification. Minimum ratings shall be 2 Hrs.	SQM	6.00	8933.33	53599.98
18	Steelwork welded in built up sections/framed work including providing ,cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc., as required.				
(a)	In covering of floors/trenches of control room buildings with chequered plates, stringers, treads, landings etc of staircases involving use of chequered plates, wherever required, all complete.	kg	200.00	57.00	11400.00
(b)	In gratings, frames, ladders, stair railings, gates (including pipes), rails, ISMB, ISMC and similar works.	kg	2,000.00	73.15	146300.00
19	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade: Two or more coats on new work.	sqm	160.00	74.40	11904.00
					0.00
20	Providing and laying of 10mm minimum thick pre polished vitrified tiles 600 X 600 mm of approved make and colours laid over 40mm thick bed of cement mortar 1:3 (1 Cement:3 coarse sand) including pointing in white cement mixed with pigment of matching shade complete as per direction of Engineer-In-Charge.	sqm	58	1,568.50	90973.00
21	Providing and fixing approved quality pre polished vitrified tiles minimum thickness 10 mm of approved make and colours in skirting,risers of steps and dados over 12 mm thick bed of Cement mortar 1:3 (1 Cement:3 coarse sand) and jointing with grey cement slurry @3.3 kg/sqm including pointing in white cement mixed with pigment of matching shade complete.	sqm	10	1,415.40	14154.00
22	Providing and fixing 1st quality ceramic glazed tiles conforming to IS:13753 of minimum thickness 7 mm of approved make and colours in skirting, risers of steps and dados over 12 mm thick bed of Cement mortar 1:3 (1 Cement:3 coarse sand) and jointing with grey cement slurry @3.3 kg/sqm including pointing in white cement mixed with pigment of matching shade complete.	sqm	50.00	836.65	41832.50
23	Providing and laying cement concrete chequered flooring tiles of 22 mm thickness and size 250x250 mm / 300x300 mm conforming to IS 13801 with 8 mm thick 1:4 cement mortar over the top most layer of roofing treatment in pathway and entire equipment area with fine joints including sealing of joints (silicon/elastomeric sealant) etc all complete. (Water proofing paid elsewhere)	sqm	50.00	878.50	43925.00
24	Providing and laying polished Granite stone 18-20mm thk in skirting and dado with 6mm thick projection from adjacent plaster including mortar ,cement slurry ,pigments, curing, grinding,moulding, granite polishing etc. all complete.	SQM	85.00	3,866.00	328610.00
25	Providing and fixing water closet squatting pan (Indian type WC pan) with 100mm sand cast iron P Or S trap , 10 litre low level white P.V.C flushing cistern, including flush pipe,with manullaly controlled device (handle lever) confirmin g to IS :7231 , with all fittings and fixtures complete , including cutting and making good the walls and floors wherever required: White vitreous china Orrisa patern WC pan of size 580x440 mm with integral type foot rest:	each	2.00	3,392.80	6785.60
26	Providing and fixing white vitreous china pedestal type water closet (European type W.C. Pan) with seat and lid, CP. Brass hinges and rubber buffers, 10 litre low level flushing cistern with fittings & CI/MS brackets 40mm dia flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design compete including painting of fittings and brackets, cutting and making good the walls and floors wherever required:				
26.1	W.C pan with IS marked white solid plastic seat and lid.	each	2.00	4,784.60	9569.20

S No	Description of Item	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
27	Providing and fixing white vitreous china battery based infrared sensor operated urinal of approx. size 610 x 390 x 370 mm having pre & postflushing with water (250 ml & 500 ml consumption), having water inlet from back side, including fixing to wall with suitable brackets all as per manufacturers specification and direction of Engineer-in-charge.	each	2.00	16,724.95	33449.90
28	Providing and fixing wash basin of approved colour and size with CI bracket , 15 mm CP. brass pillar taps, 32 mm CP. brass waste of standard pattern, including painting of fittings etc. cutting and making good the walls wherever required:				
28.1	Vitreous China wash basin size 630mm X 450mm with a pair of 15mm C.P brass pillar taps.	each	3.00	2,331.15	6993.45
29	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 aggregate 6 mm nominal size) as per direction of Engineer-in-charge and finished smooth.				
29.1	Granite Stone of approved shade	sqm	1.00	3,263.50	3263.50
30	Providing and fixing 600 x 450 x 5.5 mm bevelled edge mirror of float glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with CP. Brass screws and washers complete.	each	6.00	793.95	4763.70
31	Providing and fixing 600 x 120 x 5 mm glass shelf with edges rounded off supported on anodised aluminium angle frame with CP. Brass brackets and guard rail complete fixed with 40 mm long screws, rawl plugs etc. complete.	each	2.00	543.80	1087.60
32	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP. Brass screws with concealed fitting arrangement of approved quality and make.				
	600 mm long towel rail with total length of 645mm, width 78mm and effective height 88mm, weighing not less than 190gms.	each	3.00	541.50	1624.50
33	Providing and fixing PTMT liquid soap container 109mm wide, 125mm high and 112mm distance from wall of standard shape with bracket of same materials with snap fittings of approved quality, colour and make, weighing not less than 105 gm (Prayag or equivalent).	each	3.00	228.85	686.55
34	Providing and fixing M.S holder-bat clamps of approved design to Sand Cast iron/ cast iron (spun) pipe embedded in and including cement concrete blocks 10 x 10 cm of 1:2:4 mix (1 cement: 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including cost of cutting holes and making good the walls etc.				
34.1	For 100mm dia pipe	each	20.00	152.90	3058.00
35	Providing lead caulked joints to SCI pipes and fittings of diameter				
35.1	100mm	each	10.00	243.75	2437.50
36	Providing and fixing SCI trap of self cleansing design with SCI screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors:				
	100mm inlet and 100mm outlet.	each	6.00	982.55	5895.30
37	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS: 13983 with C.I. brackets and stainless steel plug 40mm, including painting of fittings and brackets, cutting and making good the walls wherever required				
	510x1040 mm bowl depth 250 mm	each	1.00	7,052.15	7052.15
40	Providing and fixing toilet paper holder :				
	C.P Brass	each	5.00	415.90	2079.50
41	Providing and fixing G.I. Pipes (medium grade) complete with G.I. Fitting and clamps, including cutting and making good the walls etc. (internal work).				
41.1	15mm dia nominal bore.	meter	12.00	215.10	2581.20

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41.2	20 mm dia nominal bore.	meter	10.00	249.30	2493.00
41.3	25 mm dia nominal bore.	meter	10.00	304.15	3041.50
42	Providing and fixing G.I. Pipes (medium grade) complete with G.I. Fitting and clamps, including trenching and refilling, etc. (external work).				
42.1	25 mm dia nominal bore.	meter	20.00	257.30	5146.00
42.2	40 mm dia nominal bore.	meter	30.00	334.15	10024.50
42.3	50 mm dia nominal bore.	meter	18.00	399.50	7191.00
42.4	100mm dia nominal bore	meter	50.00	637.05	31852.50
43	Making connection of GI distribution branch with GI main of following sizes by providing and fixing tee, including cutting and threading the pipe etc., complete.				
43.1	25 to 40mm nominal bore.	each	3.00	367.75	1103.25
44	Providing and fixing brass bib cock of approved quality	each			
	15mm nominal bore		6.00	260.60	1563.60
45	Providing and fixing brass stop cock of approved quality	each	4.00	260.60	1042.40
45.1	15mm nominal bore				
46	Providing and fixing brass gate valve with CI wheel of approved quality (screwed end)				
46.1	25mm nominal bore	each	1.00	428.85	428.85
46.2	40mm nominal bore	each	1.00	585.50	585.50
47	Providing and fixing ball valve (brass) of approved quality, high or low pressure with plastic floats complete.	each	2.00	449.95	899.90
	25mm nominal bore				
48	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.				
	15mm nominal bore	each	2.00	610.65	1221.30
49	Providing and fixing square-mouth S.W. Gully trap grade 'A' complete with C.I. Grating brick masonry chamber with bricks of class designation 75 and water tight C.I. Cover with frame of 300 x 300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as standard design.:				
49.1	100 x 100 mm size P type	each	4.00	1,571.25	6285.00
	With F.P.S bricks				
50	Constructing brick masonry manhole with 75 class designation bricks in cement mortar 1:4 (1 cement: 4 coarse sand) RCC top slab with 1:2:4 mix(1 cement:2 coarse sand: 4 graded stone aggregate 20mm nominal size) foundation concrete 1:4:8 (1 cement: 4 coarse sand: 8 graded stone aggregate 40mm nominal size) inside plastering 12mm thick with cement mortar 1:3 (1 cement: 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 mix(1 cement:2 coarse sand: 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement complete as per standard design.				
	Inside size 90X80cm and 45cm deep including CI cover with frame (light duty) 455X610mm internal dimensions total weight of cover and frame to be not less than 38kg (weight of cover 23kg and weight of frame 15kg)				
	With FPS bricks	each	10.00	8,507.00	85070.00
51	Extra for depth for manholes				
	Size 90X80cm	meter	5.00	5,638.20	28191.00
	With FPS bricks				
52	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :				
	250mm dia RCC Pipe	meter	200.00	468.60	93720.00
53	Providing and placing on terrace (at all floor levels) polyethylene water storage tank of approved brand and manufacture with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank. The tank should be ISI marked .	per litre capacity	4000	7.25	29000.00

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54	Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance ± 1 mm), with wall thickness 2.0 mm (± 0.2 mm), corners of the door frame to be jointed with galvanized brackets and stainless steel screws, joints mitred and Plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 X 19 mm and 1mm (± 0.1 mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineer-in-charge				
	Extruded Section Profile Size-48x40mm	meter	31.00	213.75	6626.25
55	24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanized/plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanized M.S. tube of size 20x20mm and 1 mm (± 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2mm (± 0.2 mm) wall thickness, fixed to the shutter styles by means of plastic/ galvanized M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (± 0.1 mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanized M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter).	sqm	12.00	2,718.60	32623.20
56	Providing and fixing anodised aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular and other section of approved make conforming to IS: 733 and IS: 1285, anodised transparent or dyed to required shade according to IS: 1868. (Minimum anodic coating of grade AC 15), fixed with rawl plugs and screws or with fixing clips or with expansion fasteners including necessary filling up of gaps at junctions at top, bottom and sides with required PVC/neoprene felt, etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, aluminium snap beading for glazing/panelling, CP brass/stainless steel screws, all complete as per architectural drawings and direction of Engineer-in-charge. (Glazing and panelling to be paid for separately).				
56.1	For fixed portion	kg	52.00	348.50	18122.00
56.2	For shutters of doors, windows & ventilators including providing and fixing hinges/pivots and fittings wherever required including the cost of PVC/neoprene gasket required .	kg	55.00	405.90	22324.50
57	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Gradel Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge				
	Pre-laminated particle board with decorative lamination on one side and balancing lamination on other side	sqm	10.00	1,040.95	10409.50
58	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions, etc., with PVC/neoprene gasket, etc., complete as per the architectural drawings and directions of Engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item).				

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	With float glass panes of 6mm thickness(weight not less than 13.75kg/sqm).	sqm	15.00	1,054.20	15813.00
59	Providing and fixing double action hydraulic floor spring of approved brand and manufacture (conforming to IS:6315) for aluminium door including cost of cutting floors as required, embedding in floors and cover plates with brass pivot and single piece MS sheet outer box with slide plate etc., complete as per the directions of Engineer-in-charge. (SS cover plate.)				
	With stainless steel cover plate minimum 1.25 mm thickness	each	4.00	2,039.00	8156.00
60	Providing and fixing bright finished brass 100 mm mortice latch and lockwith 6 levers and a pair of lever handles of approved quality with necessaryscrews etc. complete.	each	2.00	546.40	1092.80
61	Providing and fixing aluminium handles, ISI marked, anodised (anodicoating not less than grade AC 10 as per IS: 1868) transparent or dyed torequired colour or shade, with necessary screws etc. complete :				
	125mm	each	6.00	69.80	418.80
62	Providing and fixing aluminum grills of required pattern in frames of windows etc. with aluminium flats square or round bars etc. all complete.	sqm	200.00	715.90	143180.00
63	18mm cement plaster 1:6 (1 cement :6 coarse sand) on uneven sides of internal walls and surfaces of roof as required.	sqm	1,000.00	211.70	211700.00
64	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5cm depth, dressing to camber and consolidating with road roller including making good the undulations etc and rerolling the sub-grade and disposal of surplus earth lead upto 50m.	sqm	126	81.29	10242.54
65	Providing and laying well compacted under bed dry rubble soling of compacted thickness 230mm with interstices properly filled with grits, (Rate shall include of labour, materials like rubble soling with grits, PCC etc)	sqm	170	572.15	97265.50
66	Providing and laying stone aggregate in switch yard areas in 75mm thick layer using 40mm aggregate size on top and 75mm thick layer using 20mm size aggregate below making overall thickness of stone aggregate as 150mm. Before laying the stone aggregate, the yard surface shall be treated with antiweed treatment all complete as per direction of Engineer-in-charge. (The rate shall be inclusive of all materials, labour, loading, unloading and surface preparation etc. required for aggregate laying and antiweed treatment)	sqm	15000.00	301.50	4522500.00
67	Providing and fixing chain link fencing, all as per specification, dwg no. TB-1-333-607-614 & direction of Engineer-in-charge. (The cost shall include all labour materials like GI chainlink fencing, fence post and angles, barbed wire, flats, tension wire, RCC, CC, PCC, Shuttering etc.)	RM	200.00	6819.40	1363880.00
68	Grouting of block outs, pockets, foundations, bolts holes and under side of base plates with cement, sand aggregate (of size 6mm and down) grout 1:1:2 with non shrink additive and shall be of strength not less than M30 including placing, complete with labour, materials, equipment, handling, testing, etc. all complete as per specifications, drawing and instruction of the Engineer.	cum	0.50	16422.30	8211.15
69	Providing and Fixing Health faucet of approved make including all fittings of make jaguar, cera etc	each	3.00	1,040.00	3120.00
70	Providing and Fixing Bottle trap fittings for Wash basis, Kitchen Sink etc.	each	4.00	518.15	2072.60
71	Supply, laying and jointing UPVC pipes of class 3 as per IS:4985 including bends, branches and all other necessary fittings, M.S holder bats/clamps, cutting and making good the walls and floors, jointing, testing etc all complete for following.				
	Size 150mm	meter	26.00	272.00	7072.00

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72	Providing and laying Heavy Duty dust pressed (grade-5) Ceramic Tiles (Matt Finish) of size 300x300mm (approved size) and 7mm thick of reputed / approved manufacturer (Kajaria,Johnson,Spartek or equivalent) of approved finish, shade and colour. The tiles shall be scratch resistance of minimum 5 on Mohr's scale and shall have a bending strength of 350 Kg./sqm,with Under bed shall average 43mm thk of 1 cement : 2 sand : 4 stone aggregates by volume and brought to proper level including cement mortar all complete.	sqm	55.00	1,288.00	70840.00
73	Providing and laying Granolithic flooring (cement concrete flooring in M25 with non-metallic hardener topping 12mm thick with a total thickness of 50mm. Including cement slurry, rounding off edges, aluminium strips etc. all complete for following (Quoted item rate shall be inclusive of providing glass joint strips):	sqm	45.00	556.15	25026.75
74	Providing and fixing glass strips in cement concrete floors 40 mm wide and 4 mm thick	meter	5.00	50.05	250.25
75	Making plinth protection of 100mm thick cement concrete M15 laid over 230mm thick compacted rubble soling well rammed and consolidated and grouted with fine sand including finishing the top smooth.	sqm	75.00	917.70	68827.50
	False Ceiling work in Switchyard Control room.				
76	Providing and fixing insulation of resin bonded mineral wool of 50 mm nominal thickness conforming to IS 8183 having a density of 32 kg/cum glass wool or 48 kg/cum for rock wool. This mat shall be backed with 0.05mm thick aluminium foil and 24Gx12.5mm wire mesh netting. They shall be fixed to ceiling or wall as the case may be with 100x50x6 slotted mild steel plate welded to M.S. plate inserts embedded at the soffit of the slab at 600 mm c/c and 14 G steel wire down through slots and fixed to wire netting.	sqm	100	490.60	49060.00
77	Providing, fixing and laying anodised natural colour matt finished aluminium false ceiling comprise of 84mm wide, 12.5 mm deep closed type panels of approved colour of Jindal/Hindalco make with corrosion resistance aluminium alloys panels AA 5050 of minimum thickness 0.5mm fixed on roll formed carriers. Additional hangers and height adjustment clips shall be provided for return air grills, supply air diffusers, light fixtures. A.C. ducts etc.The work to be complete as per specifications, drawings and direction of engineer.	sqm	260.00	2,440.00	634400.00
78	Demolishing RCC work manually /by mechanical mence including stacking of steel bars and disposal of unserviceable material within 50m leads as per direction of Engineer in charge	cum	10	1302.3	13023.00
79	Dismantling of existing fencing and connected item such as angles post, kerb wall, foundations etc. and stacking the serviceable materials at specified location and disposing the unserviceable materials as per direction of Engineer-in-charge.	m	80	598.6	47888.00
80	Providing and fixing (all dia & length) foundation bolts in position with help of proper templates including supply of templates, nuts and washers all complete as per specifications, drawings and direction of Engr-in-charge.	kg	170	66.05	11228.50
81	Extra over item above for providing galvanised bolts (Mass of zinc coating = 610gms/sqm), nuts & washer.	kg	170	9.15	1555.50
82	Providing and filling in position, blown bitumen in expansion joints	per cm depth per cm width per 100 m	650	698.2	453830.00
	TOTAL (Rs)				10610381.17

**TRANSMISSION BUSINESS GROUP
(SUB- CONTRACTS MANAGEMENT)**

Annexure – A

PRICE SCHEDULE FORMAT

**SUB: EXECUTION AND HANDING OVER OF BALANCE CIVIL
WORKS OF 400/220 KV SWITCHYARD AND CONTROL
ROOM BUILDING AT BELLARY TPS, STAGE-III IN
KARNATAKA**

I/ We hereby agree to execute the above work at ----- % (in figure)
----- (in words) Above/ Below the rates as given in 'Bill of
Quantity cum Price Schedule' for Civil Works of Switchyard and Control Room
Building (Annexure-I) of subject tender.

NOTE:

1. In case of discrepancy in rates in figure and words, the minimum will be taken into account by BHEL.

Date:

Place:

Signature of tenderer with seal
Name & Designation of authorized person(s)