

BILL OF QUANTITY CUM PRICE SCHEDULE**Name of Project :****765/400/220 KV PGCIL SUB-STATION (NEW) AT
BANASKANTHA IN GUJRAT****Name of Work :****CIVIL WORKS FOR 765KV YARD AND SPR**

S. No.	Description of Item	Quantity	Unit	Unit Rate (Rs)	Amount (Rs)
1	Earthwork in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30cm 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 3.5m, disposed earth to be levelled and neatly dressed.				
(a)	All kinds of soil.	31755	cum	129.35	4107509.25
(b)	Ordinary rock	205	cum	197.75	40538.75
(c)	Hard rock (blasting required)	50	cum	347.80	17390.00
2	Earthwork in excavation by mechanical means (Hydraulic excavator)/manual means in foundation trenches or drains (not exceeding 1.5m in width as well as 10sqm on plan) including dewatering as necessary of rain water/subsoil seepage water and dressing of sides and ramming of bottoms, lift upto 3.5m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 100m.				
(a)	All kinds of soil.	8745	cum	130.80	1143846.00
(b)	Ordinary rock	155	cum	212.00	32860.00
(c)	Hard rock (blasting required)	50	cum	378.80	18940.00
3	Filling available excavated earth (including rock) in trenches, plinth, sides of foundations, etc., in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead upto 100m and lift upto 3.5m.	25225	cum	83.80	2113855.00
4	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 3.0 m including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20cm in depth including consolidating each deposited layer by ramming,watering etc.and disposing of surplus excavated soil as directed within a lead of 100m.				
(a)	All kinds of soil				
4.1	Pipes, cables etc, not exceeding 80mm dia.	10	meter	101.40	1014.00
4.2	Pipes, cables etc. exceeding 80mm dia. but not exceeding 300 mm dia.	10	meter	165.60	1656.00
4.3	Pipes, cables etc. exceeding 300mm dia but not exceeding 600mm	10	meter	258.55	2585.50

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5	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.	15730	cum	82.78	1302129.40
(b)	Lead upto 2 km.	30	cum	93.94	2818.20
(c)	Lead upto 3 km.	15	cum	104.98	1574.70
(d)	Lead upto 5 km.	10	cum	125.92	1259.20
6	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work upto plinth level.				
(a)	1:2:4 (1 cement : 2coarse sand : 4 graded stone aggregate 20mm nominal size)	160.5	cum	4514.05	724505.03
(b)	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size)	5.5	cum	3888.20	21385.10
(c)	1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size)	3514	cum	3593.30	12626856.20
7	Extra for providing and mixing water proofing material 'Impermo' or equivalent in cement concrete work in the proportion recommended by the manufacturer.	320	per 50 kg cement	35.35	11312.00
8	Providing and laying in position machine batched, machine mixed and machine vibrated design mix M25 grade cement concrete for reinforced cement concrete work, using cement as per approved design mix, including plumbing of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS 9103 to accelerate, retrard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. (Note:- cement content considered in this item is 330kg/cum. Excess/less cement used as per design mix is payable/ recoverable separately).				
(a)	All works upto plinth level	6580	cum	5242.15	34493347.00
(b)	All works above plinth level upto floor V level	295	cum	5781.50	1705542.50

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S. No.	Description of Item	Quantity	Unit	Unit Rate (Rs)	Amount (Rs)
9	Providing and laying reinforced CC road/ pavement of design mix M-25 grade with readymixed concrete from batching plant. The readymixed concrete shall be laid and finished with screed board vibrator, vacuum dewatering process and finally finished by floating, brooming with wire brush etc. complete as per customer's technical specifications and directions of Engineer-in-charge excluding the cost of panel shuttering and reinforcement steel but including the cost of admixtures in recommended proportions (as per IS 9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability. (Note:- cement content considered in this item is 330kg/cum. Excess/less cement used as per design mix is payable/ recoverable separately).	1750	Cum	6067.10	10617425.00
10	Centering and shuttering including strutting, propping, etc., and removal of form for:				
(a)	Foundations, footings, bases of columns, etc., for mass concrete.	6785	sqm	166.90	1132416.50
(b)	RCC walls at all levels (any thickness).	6815	sqm	285.15	1943297.25
(c)	Lintels, beams, plinth beams and cantilevers.	185	sqm	262.25	48516.25
(d)	Columns, Pillars, Piers, Posts and Struts .	6610	sqm	365.60	2416616.00
(e)	Suspended floors, roofs, landings, balconies, chajjas and access platforms at all levels.	180	sqm	311.20	56016.00
11	Add for using extra cement in the items of design mix over and above the specified cement content therein.	130.50	MT	5077.87	662662.04
12	Steel reinforcement -Cold twisted bars /TMT- Fe 500 (To be procured from SAIL, TISCO, IISCO and RINL only)				
(a)	Excluding supply but including straightening, cutting, bending, binding, (i/c cost of binding wire), placing in position, etc., all labour & material, complete. (Reinforcement steel shall be issued by BHEL free of cost. Unloading, storage and watch & ward is in the scope of the contractor).	775500	kg	9.71	7533672.30
(b)	Including supply, straightening, cutting, bending, binding, (i/c cost of binding wire), placing in position, etc., all labour & material, complete.	5000	kg	62.25	311250.00
13	Brickwork with F.P.S.bricks of class designation 75 in foundation and plinth in:				
	Cement mortar 1:6 (1 cement : 6 coarse sand)	4905	cum	3316.55	16267677.75

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S. No.	Description of Item	Quantity	Unit	Unit Rate (Rs)	Amount (Rs)
14	Brickwork with F.P.S.bricks of class designation 75 in superstructure above plinth level to floor V level in all shapes and sizes in:				
	Cement mortar 1:6 (1 cement : 6 coarse sand)	1940	cum	3876.15	7519731.00
15	Structural steelwork welded in built up sections like edge protection angles, pipes, insert plates with lugs & framed work including providing, cutting, hoisting, fixing in position/ embedding in concrete and applying a priming coat of approved steel primer all complete.	81570	kg	59.90	4886043.00
16	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 building with chequered plates, stringers, treads, landings, etc., of staircases involving use of chequered plates, wherever required, all complete.	260	kg	67.20	17472.00
(b)	In gratings, frames, ladders, stair railings (including pipes), rails, ISMB, ISMC and similar works.	6900	kg	77.90	537510.00
17	Applying priming coat				
(a)	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/ steel works.	810	sqm	20.70	16767.00
(b)	With water thinable cement primer of approved brand and manufacture on plastered wall/ concrete surfaces.	270	sqm	27.55	7438.50
18	Painting with approved required shade				
a)	Finishing walls with water proofing cement paint - new work (02 or more coats applied @3.84kg/10sqm)	100	Sqm	44.95	4495.00
b)	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade (02 or more coats on new work).	820	Sqm	53.85	44157.00
c)	Painting with black anti-corrosive bitumastic paint of approved brand and manufacture to give an even shade (02 or more coats on new work).	185	Sqm	44.55	8241.75
d)	Painting of all steel works used for grating and supports in transformer/ reactor foundations with epoxy based zinc phosphate primer (two packs) confirming to IS: 13238-1991 as per manufacturer's specifications including preparation of surface..	50	Sqm	105.50	5275.00

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S. No.	Description of Item	Quantity	Unit	Unit Rate (Rs)	Amount (Rs)
19	Providing and laying Non Pressure NP-3 (Medium duty) R.C.C. hume pipe including collars/spigot jointed with stiff mixture of cement mortar of mix 1:2 (1 cement : 2 fine sand) including testing of joints etc all complete as per drawing and specification excluding the cost of concrete, shuttering, reinforcement, brickwork, plaster on brickwork and painting.				
a)	100mm dia	250	RM	576.60	144150.00
b)	250mm dia	50	RM	848.40	42420.00
c)	300mm dia	30	RM	916.70	27501.00
d)	450mm dia	30	RM	1632.40	48972.00
e)	600mm dia	12	RM	2128.90	25546.80
20	Providing and fixing in position in culvert/road crossing/building PVC pipes conforming to IS : 12818 including jointing with seal all complete as per drawing and specification.				
	150mm diameter	125	RM	206.9	25862.50
21	Supplying and erection of dewatering pumps at desired location including all cable and pipe connections alongwith auto starter and necessary shed all complete as per customer's specification and instruction of engineer in charge.				
(a)	5 HP	3	Nos	37008.00	111024.00
(b)	0.5 HP	11	Nos	14988.24	164870.64
22	Supplying & fixing (all dia & length) foundation bolts in position with help of proper templates (to be supplied by contractor) including nuts, washers and template all complete as per drawings & directions of Engr-in-Charge. Weight of the template shall not be measured for payment purpose.	25	Kg	86.55	2163.75
23	Extra over Item above for providing galvanised bolts (Mass of zinc coating = 610gms/sqm), nuts & washer .	25	kg	9.15	228.75
24	Fixing (all dia & length) foundation bolts in position with help of proper templates including nuts, washers and template (to be supplied by contractor) all complete as per drawings & directions of Engr-in-Charge. Weight of the template shall not be measured for payment purpose.	109000	Kg	11.45	1248050.00

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S. No.	Description of Item	Quantity	Unit	Unit Rate (Rs)	Amount (Rs)
25	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.				
	Grade of concrete shall be M25	115.0	Cum	6242.60	717899.23
26	Grouting of block outs, pockets, foundations, bolts holes and underside of base plates with cement, sand aggregate (of size 6 mm and down) grout 1:1:2 with non-shrink additive and shall be of strength not less than M30 including placing, curing, cleaning, surface preparation, testing, etc. complete with labour, materials, equipment, handling, testing, etc. all complete as per specifications, drawings and instructions of the Engineer.	35	cum	16422.30	574780.50
27	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc and re-rolling the sub grade and disposal of surplus earth lead upto 50 metres.	24500	sqm	61.25	1500625.00
28	Extra for compaction of earthwork in embankment under optimum moisture conditions to give at least 95% of the maximum dry density (Proctor density)	24500	sqm	7.75	189875.00
29	Suppling and stacking at site				
(a)	90 mm to 45 mm size stone aggregate	2750	cum	1010.75	2779562.50
(b)	63 mm to 45 mm size stone aggregate	2100	cum	1100.80	2311680.00
(c)	53 mm to 22.5 mm size stone aggregate	2100	cum	1190.80	2500680.00
(d)	Stone screening 13.2 mm nominal size (type A)	900	cum	1338.75	1204875.00
(e)	Stone screening 11.2 mm nominal size (type B)	350	cum	1425.85	499047.50
(f)	moorum	550	cum	624.45	343447.50

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S. No.	Description of Item	Quantity	Unit	Unit Rate (Rs)	Amount (Rs)
30	Laying, spreading and compacting stone aggregates of specified sizes to WBM specifications in uniform thickness, hand picking, rolling with 3-wheeled road / vibratory roller 8-10 tonne capacity in stages to proper grade and camber, applying and brooming requisite type of screening/ binding materials to fill up interstices of coarse aggregate, watering and compacting to the required density etc., all complete. (Payment will be made for compacted layers only. Stone aggregates, screenings & moorum to be paid separately.).				
(a)	Subbase with stone aggregate 90mm to 45mm including stone screening 13.2mm size and moorum/blinding material.	2100	cum	330.15	693315.00
(b)	Base course with stone aggregate 63mm to 45mm including stone screening 13.2mm size and moorum/blinding material.	2100	cum	330.15	693315.00
(c)	Base course with stone aggregate 53mm to 22.4 mm including stone screening 11.2mm size and moorum/blinding material.	2100	cum	330.15	693315.00
31	Dismantling of RCC Foundations including necessary excavation, stacking of steel bars and disposal of unservicable material within the substation boundary as per direction of site-in-charge.	1	cum	1075.90	1075.90
32	12mm cement plaster on the wall/ concrete surface in the mix:				
	1:6 (1cement :6 coarse sand)	100	Sqm	121.05	12105.00
33	12mm cement plaster finished with a floating coat of neat cement in the mix:				
	1:4 (1cement :4 fine sand)	23600	Sqm	153.45	3621420.00
34	Providing and placing in position suitable PVC water stops conforming to IS 12200 or equivalent for construction/expansion joints between two RCC members and fixed to the reinforcement with binding wire before pouring concrete etc. complete.				
	Serrated with central bulb (230mm wide, 8-11mm thick)	50	RM	459.15	22957.50
35	Supplying, filling and compacting CNS materials as per IS: 9451 at the site under floors, foundations, roads, cable trenches, drains, etc. including royalty, carriage etc. all complete, for all leads and lift with all labour, material, tools, tackles, equipments, safeguards & incidentals as necessary as per specification and direction - of - Engineer -in- charge.	13860	Cum	260.70	3613302.00

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S. No.	Description of Item	Quantity	Unit	Unit Rate (Rs)	Amount (Rs)
36	Supplying, filling and compacting stone boulders mixed with sand at the site under floors, foundations, roads, cable trenches, drains, etc. in layers not exceeding 250mm thickness including royalty, carriage etc. all complete, for all leads and lift with all labour, material, tools, tackles, equipments, safeguards & incidentals as necessary as per specification and direction - of - Engineer -in- charge.	3465	Cum	1340.00	4643100.00
37	Providing and fixing at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1 : 3 (1 Cement : 3 coarse sand) including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete tec. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for calculation of qty. for payment).	15	Cum	5046.80	75702.00
38	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M-30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge.	350	Sqm	536.65	187827.50
39	Providing and laying 75mm thick PCC 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size) shoulder over well compacted earth on both sides of the road including smooth finished top surface all complete as per drawing, customer's Technical Specifications and directions of Engineer-in-charge. (Rate shall be inclusive of all labours, materials, well compacted earth, T&P, etc.)	7165	Sqm	249.34	1786531.13
40	Providing and fixing in position 12mm thick bitumen impregnated fibre board conforming to IS: 1838, including the cost of primer, sealing compound in expansion joints.	310	per cm depth per 100 m	430.30	133393.00
41	Providing and laying polythene sheet of 125 microns between the PCC and RCC slab in road/ pavement works all complete as per direction of Engineer-in-Charge)	17250	sqm	15.00	258750.00
42	Providing and fixing in position pre moulded joint filler in expansion joints	50	per cm depth per cm width per m	2.40	120.00

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S. No.	Description of Item	Quantity	Unit	Unit Rate (Rs)	Amount (Rs)
43	Providing and laying in position bitumen hot sealing compound for expansion joints etc.				
	Using grade A ceiling compound	50	per cm depth per cm width per m length	1.65	82.50
44	Providing & fixing galvanised chain link fencing including all allied activities, all complete as per POWERGRID Technical Specifications Clause No. 9.0, Drawing (C/ENGG/CVL/SYD/FENCE/101) and directions of Engr-in-Charge. (The rate shall be inclusive of all the labour, materials, earthwork, brickwork, plaster, cement painting, CC, PCC & shuttering and erection all complete)	200	RM	3509.61	701922.00
45	Providing & fixing gate made of medium duty MS pipes, ISMC, Plates, Cleat Angle, Gate Stopper, Drop Bolt, Roller, etc including all allied activities, all complete as per POWERGRID Technical Specifications Clause No. 9.0, Drawing (C/ENGG/CVL/SYD/GATE/002) and directions of Engr-in-Charge. (The rate shall be inclusive of all the labour, materials, earthwork, CC, PCC, shuttering, fabrication, welding, steel primer, painting and erection all complete.) (Only weight of structural steels used shall be measured for payment purpose).	1200	Kg	72.07	86487.70
46	Construction of Rain Water Harvesting as per Technical Specification and Drawings including all labour, material, tools, tackles, equipments, safeguards & incidentals as necessary as per specification and direction - of - Engineer -in- charge.	1	Nos	218700.00	218700.00
47	Supplying and filling in plinth with Jamuna/local sand under floors including watering, ramming, consolidating and dressing complete.	5	cum	749.30	3746.50
48	Supplying chemical emulsion in sealed containers including delivery as specified.				
	Chloropyriphos emulsifiable concentrate of 20%	25	litre	185.95	4648.75

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S. No.	Description of Item	Quantity	Unit	Unit Rate (Rs)	Amount (Rs)
49	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).	450	sqm	88.25	39712.50
50	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) .	20	sqm	254.70	5094.00
51	Applying a coat of residual petroleum bitumen of penetration 80/100 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.	20	sqm	96.65	1933.00
52	Providing and fixing 1st quality ceramic glazed tiles conforming to IS:15622 (thickness to be specified by manufacture) of approved make in all colours (shades as approved by Engineer-in-Charge) in skirting, risers of steps and dados upto ceiling on wall 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.	220	sqm	724.25	159335.00
53	Providing and laying 1st quality ceramic glazed floor tiles 300X300 mm (thickness to be specified by manufacturer) conforming to IS:15622 of approved make in colours as approved by Engineer in Charge laid on 20mm mm thick bed of cement mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with white cement mixed with pigment of matching shade complete.	5	sqm	764.55	3822.75
54	Providing and laying polished vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption's less than 0.08% and conforming to IS: 15622 of approved make in all colours and shades laid over 20mm thick cement mortar 1:4 (1 Cement:4 coarse sand) including grouting the joints with white cement and matching pigments etc. complete as per direction of Engineer-in charge.				
	Size of tile 60 x 60 cm	40	sqm	1337.10	53484.00

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55	Providing and fixing approved quality polished vitrified tiles (thickness to be specified by the manufacturer) 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.				
	Size of tile 60 x 60 cm	5	sqm	1339.20	6696.00
56	Providing and laying pressed clay tile (Mangalore tile), as per approved pattern, of 20mm nominal thickness of approved size on roofs jointed with cement mortar 1:4 (1 cement : 4 coarse sand) mixed with 2% integral water proofing compound, laid over a bed of 20mm thick cement mortar 1:4 (1 cement: 4 coarse sand) and finished neat, all complete as per direction of Engineer-in-Charge.	170	sqm	431.90	73423.00
57	12mm cement plaster on even side of the walls in the mix:				
	1:6 (1cement :6 fine sand)	220	sqm	112.50	24750.00
58	15mm cement plaster on rough side of the walls in the mix:				
	1:6 (1cement :6 fine sand)	20	sqm	130.20	2604.00
59	6mm cement plaster to ceiling of mix				
	1:3 (1 cement : 3 fine sand)	165	sqm	101.00	16665.00
60	18mm cement plaster on external face of walls in two coats with under layer 12mm thick cement plaster 1:5 (1 cement :5 coarse sand) finished with a top layer of 6mm thick 1:6 cement plaster (1cement : 6 fine sand)	250	sqm	182.90	45725.00
61	Providing an fixing chicken wire mesh on wall, floor & ceiling surface all complete as per drawing/specification and direction of Engineer-in charge.	675	sqm	51.75	34931.25
62	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade				
	New work (two or more coats) over and including priming coat with cement primer.(Work to be carried as per relevant IS codes.)	160	sqm	66.70	10672.00
63	Distempering with first quality acrylic washable distemper (ready mixed) of approved manufacturer and of required shade and colour complete as per manufacturer's specification				
	New work (two or more coats)	5	sqm	37.35	186.75

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64	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacture, over the plaster wall surface to prepare the surface even and smooth complete.	55.00	sqm	76.05	4182.75
65	Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams per litre of approved brand and manufacturer, including applying additional coats whenever required to achieve even shade and colour.				
	New work : (Two or more coat).	120	sqm	61.45	7374.00
66	Finishing walls with Premium Acrylic Smooth exterior flat paint with Silicone additives of required shade over an under coat of suitable primer on new cement plaster surface:				
	New work : (Two or more coat).	250	sqm	80.45	20112.50
67	Making plinth protection of 50mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) laid over 75mm thick bed of dry brick balast 40mm nominal size well rammed and consolidated and grouted with fine sand including finishing the top smooth.	55.00	sqm	338.75	18631.25
68	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded builtup standard tubular and other sections of approved make conforming to IS: 733 and IS:1285, fixed with rawl plugs and screws or with fixing clips or with expansion hold 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).				
(a)	For fixed portion				
	Powder coated aluminium (minimum thickness of powder coating 50 micron)	100	kg	387.60	38760.00
(b)	For shutters of doors, windows & ventilators including providing and fixing hinges/pivots and fittings wherever required including the cost of PVC/neoprene gasket required .				
	Powder coated aluminium (minimum thickness of powder coating 50 micron)	20	kg	436.35	8727.00

BILL OF QUANTITY CUM PRICE SCHEDULE**Name of Project :****765/400/220 KV PGCIL SUB-STATION (NEW) AT
BANASKANTHA IN GUJRAT****Name of Work :****CIVIL WORKS FOR 765KV YARD AND SPR**

S. No.	Description of Item	Quantity	Unit	Unit Rate (Rs)	Amount (Rs)
69	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).				
	With float glass panes of 5.5mm thickness (weight not less than 13.75kg/sqm)	15	sqm	905.75	13586.25
70	Providing and fixing chromium plated brass 100mm mortice latch and lock with 6 levers and a pair of lever handles with necessary screws etc. complete (best make of approved quality).	6	each	646.50	3879.00
71	Providing and fixing aluminium sliding door bolts anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade with nuts and screws etc., complete.				
	300 X 16mm	12	each	203.80	2445.60
72	Providing and fixing aluminium tower bolts anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade with necessary screws etc., complete.				
	300 X 10mm	6	each	100.40	602.40
	150 X 10mm	6	each	59.00	354.00
73	Providing and fixing aluminium handles anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade with necessary screws etc., complete.				
	125mm	6	each	62.50	375.00
74	Providing and fixing double action hydraulic floor spring of approved brand and manufacture IS 6315 marked "hardwyn" make (Model 3000) or equivalent for doors including cost of cutting floors as required, embedding in floors and cover plates with brass pivot and single piece M. S. sheet outer box with slide plate etc. complete as per direction of Engineer-in-charge.				
	With Stainless steel cover plate	6	each	1953.10	11718.60
TOTAL (Rs)					144932464