

Sl. No	Code	Description	Unit	Qty	Rate	Amount
Bill of Quantity for Civil Works						
EARTHWORK						
1	EW0031	Earth work in excavation over areas, depth >300mm, width >1.5m, area >10 Sq.m on plan, including disposal of excavated earth within 50m lead and 1.5m lift & disposed soil to be neatly dressed-Hard Soil	Cum	560.00		
2	EW0105 +EW0115	Excavation in foundation trenches or drains not exceeding 1.5m in width or area 10 sq.m on plan, including dressing & ramming, disposal of surplus soil within 50m lead & 1.5m lift- all kinds of soil	Cum	700.68		
3	EW0040	Extra for transportation of soil, every additional lead of 250m beyond 50m up to 1000m and deposit to a level up to 1.5m-3kms	Cum	888.37		
4	EW0195	Filling of trenches, sides of foundations etc. in layers <200mm using selected excavated earth, ramming etc. within lead 50 m & lift 1.5m	Cum	372.31		
RCC/PCC WORK						
5	CW0006	Providing and laying in position plain cement concrete excluding the cost of centering and shuttering - All work upto plinth level. 1:3:6 (1 cement : 3 sand : 6 graded crushed rock 40 mm nominal size)-Under Column footings.	Cum	42.14		
6	RC0002	Providing & laying in position reinforced cement concrete excluding the cost of centering, shuttering and reinforcement all work upto plinth level-1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size)	Cum	249.16		
7	RC0010	Providing & laying in position reinforced cement concrete work in plinth and skirting courses, fillets, columns , pillars, posts and struts upto floor five level excluding the cost of centering, shuttering and reinforcement-1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size)	Cum	21.00		

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8	RC0018	Providing & laying in position reinforced cement concrete work in beams, lintels, bands, plain window sills, staircases, spiral staircases upto floor five level excluding the cost of centering, shuttering and reinforcement-1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size)	Cum	125.78		
9	RC0010	Providing & laying in position reinforced cement concrete work in plinth and skirting courses, fillets, columns , pillars, posts and struts upto floor five level excluding the cost of centering, shuttering and reinforcement-1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size)	Cum	108.66		
10	RC0014	Providing & laying in position reinforced cement concrete work in suspended floor, roofs having slope upto 15o, landings, balconies, shelves and chajjas upto floor five level excluding the cost of centering, shuttering and reinforcement-1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size)	cum	138.51		
11		Bhutan type Traditional Cornices in R.C.C 1:2:4, 20 mm aggregate including cost of formwork including finishing with 6mm thick plaster on the exposed surface with cement mortar 1:3, excluding reinforcement & decorative painting cost as per standard design (Measurement to be taken along the cornice and wall junction)	m			
11.1	RC0041	Multi-Storied building at floor 2 level and at other floors where Lhanglag is provided including the cost of lhanglag		46.42		
11.2	RC0043	Phana		26.21		
11.3	RC0044	Lintel cornice (only cornice portion at external face)		111.35		
TMT BAR						
12	RC0083	Providing & fixing Thermo-Mechanically Treated reinforcement bar (Yield Strength 500 MPa) for R.C.C work including cutting, bending, binding and placing in position complete	kg	113,833.25		
FORMWORK						

Sl. No	Code	Description	Unit	Qty	Rate	Amount
13		Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork	Sqm			
13.1	RC0090	Foundations and plinth etc		388.30		
13.2	RC0092	Lintels, beams, girders, bresummers, cantilevers etc.		1,135.96		
13.3	RC0093	Columns, pillars, post, struts etc.		986.52		
13.4	RC0094	Staircase (except spiral staircase) excluding landing		1,205.56		
13.5	RC0091	Walls, pilasters, buttresses, string course etc.		172.50		
STONE/BRICKWORK						
14	SM0072	Providing and laying Hand packed stone filling or soling with stones	Cum	114.08		
15	SM0006	Providing & laying Random Rubble Masonry with hard stone in foundation & plinth in CM 1:4	Cum	36.91		
16	A/R	Providing & laying Aerated Concrete Efficiency (ACE) Block manufactured as per IS 2185 (III)-1984 and IS 6041-1985 and IS 1905-1987, laid in 3mm- 5mm thick layer jointing mortar(self curing containing washed sand particle of size less than 660 micron and without any mica confirming to EN 1384 and capable of imparting splitting tensile strength and masonry specification conforming to ASTM C1660-09, when tested in accordance with ASTM C1006 in all floors. Size of block - 600 x 200 x 230mm. (GREEN/ACON/Instablocks)	Cum	269.28		
17	A/R	Providing & laying Aerated Concrete Efficiency (ACE) Block manufactured as per IS 2185 (III)-1984 and IS 6041-1985 and IS 1905-1987, laid in 3mm- 5mm thick layer jointing mortar(self curing containing washed sand particle of size less than 660 micron and without any mica confirming to EN 1384 and capable of imparting splitting tensile strength and masonry specification conforming to ASTM C1660-09, when tested in accordance with ASTM C1006 in all floors. Size of block - 600 x 200 x 125mm (GREEN/ACON/Instablocks)	sqm	614.27		
18	BW0002	Providing & laying Second-Class Brick work (250mm) in superstructure (From Ground floor till Jamthog level) in CM 1:4	Cum	16.50		

Sl. No	Code	Description	Unit	Qty	Rate	Amount
19	BW0021	Providing & laying Second-Class Half-brick Masonry (125 mm) in superstructure from ground floor level to Jamthog in CM 1:4	sqm	45.00		
DOORS & WINDOWS						
20	WW0506	Providing & fixing pelmet 100x12mm, with 25mm dia. wooden curtain rod & brackets including M.S.flats 25x3x100mm & plugs etc. complete - Mixed Conifer	m	75.30		
21	A/R	Providing and fixing Doors (all fittings - stainless steel hinges and fittings and accessories of heavy duty subject to sample approval. wood preservatives on unexposed surfaces, surface paintings.complete -Mixed conifer as per drawings attached.Kohli-G/ Jal /Royal fittings	Each			
21.1		D120		10		
21.2		D105		19		
21.3		D85		29		
22	WW0630	Providing & fixing anodised aluminium kicking plate, 4mm thick with necessary aluminium screws etc. complete	Sqm	19.38		
PLASTERING WORKS						
23	PL0020	Providing & laying 12mm cement plaster in CM 1:3 for internal walls	Sqm	2,634.39		
24	PL0040	Providing & laying 20mm cement plaster in CM 1:3 for external walls complete.	Sqm	743.68		
25	PL0041	Providing & laying cement plaster, finished with floating coat of neat cement - 20mm plaster in C.M 1:4 in plinth walls	Sqm	29.84		
26	PL0010	Providing & laying 6mm cement plaster (in ceilings) in CM 1:3	Sqm	781.10		
27	PL0125	Providing & applying putty of thickness 2mm or more over plastered surface to prepare the surface even and smooth complete.	Sqm	3,415.48		
FLOORING						
28	SM0072	Providing and laying Hand packed stone filling or soling with stones-150mm for ground floor area.	cum	39.59		
29	CW0008	Providing and laying in position plain cement concrete excluding the cost of centering and shuttering - All work upto plinth level.-1:4:8 (1 cement : 4 sand : 8 graded crushed stone 40 mm nominal size)-100mm Thick	cum	13.20		

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30	CW0005	Providing and laying in position plain cement concrete excluding the cost of centering and shuttering - All work upto plinth level.-1:3:6 (1 cement : 3 sand : 6 graded crushed stone 20 mm nominal size)-100mm Thick	cum	26.39		
31	DP0030	Providing and laying Bitumen felt Type 3 in wall bases etc.-Grade 2	Sqm	263.93		
32	A/R	Providing & fixing coloured glazed tiles in flooring laid on bed of 12mm thick cement mortar 1:3 finished with flush pointing in white cement:600mm x 600mm x 12mm. Somany/Kajaria Note: Approval for the brand have to be sought from the employer before purchase of the item	Sqm	1,040.96		
33	FL0151	Providing & laying marble stone flooring over 20mm thick base of cement mortar 1:4, jointed with grey cement slurry mixed with pigment where necessary, rubbing & polishing complete-20mm thick marble-stairs and landings including 150mm skirting. Somany /Kajaria -Note: Approval for the brand have to be sought from the employer before purchase of the item	Sqm	166.35		
34	GL0001	Providing & fixing white/ coloured Glazed tiles, 150 x 150 mm in skirting, dado, finished with flushpointing in white cement. Somany /Kajaria -Note: Approval for the brand have to be sought from the employer before purchase of the item	Sqm	128.59		
35	GL0009	Providing & fixing coloured glazed anti skid tiles in flooring, treads of steps and landings laid on bed of 12mm thick cement mortar 1:3 finished with flush pointing in white cement:for 600 x 600 x 12mm - All toilet floors (Somany/Kajaria) Note: Approval for the brand have to be sought from the employer before purchase of the item	Sqm	66.83		

Sl. No	Code	Description	Unit	Qty	Rate	Amount
36	A/R	Providing & fixing coloured glazed tiles on walls laid on bed of 12mm thick cement mortar 1:3 finished with flush pointing in white cement: 200 x 300 x 10mm - Toilet walls. (Somany / Kajaria) Note: Approval for the brand have to be sought from the employer before purchase of the item	sqm	115.32		
CEILING AND ROOFING						
37	RF0001	Providing and fixing PPGI roof sheets, 0.45mm thickness including all the necessary fittings for connections, excluding the cost of purlins, rafters and trusses. CRIL /TATA Durashine /Everest.- Note: Approval for the brand have to be sought from the employer before purchase of the item	sq.m	700.54		
38	RF0005	Providing and fixing 600mm ridges or hips for the cril roofing including all necessary fittings complete. CRIL/TATA Durashine/Everest.	m	64.42		
39	SW0022	Steel work welded, in built up sections, trusses, frameworks including cutting, hoisting, fixing and appl. Priming coat of red lead paint. in tubular sections	kg	5,836.95		
40	SW0080	Providing & fixing M.S. round hold-down bolts with nuts and washer plates, 18mm dia x 300m long	kg	230.64		
41	SW0090	Providing, making & fixing M.S. cleat /straps for connection of purlin to truss, flats to connect eaves board, sole plates etc.- 150 x 65 x 8mm	kg	360.62		
42	RF0010	Providing & fixing 450mm over all semi-circular plain G.I gutter, including brackets, bolts, nuts, washers & rain water pipes connections, excluding the cost of pipes	m	91.00		
43	RF0192	Providing and fixing on wall face single socketed rigid PVC (Working Pressure 4kgf per sq.cm) rain water pipes including jointing with seal ring leaving 10 mm gap for thermal expansion-complete-110mm	m	50.10		
44	RF0197	Providing and fixing on wall face PVC coupler for rigid rain water pipes including jointing with seal ring leaving 10 mm gap for thermal expansion - complete-110mm	each	16.00		

Sl. No	Code	Description	Unit	Qty	Rate	Amount
45	RF0212	Providing and fixing on wall face PVC bend for rigid rain water pipes including jointing with seal ring leaving 10 mm gap for thermal expansion - complete-110mm	each	6.00		
46	WW0030	Providing & fixing Eaves board (225x25mm) with moulding fitted and fixed with necessary screws-Mixed Conifer	m	149.10		
47	WW0110	Providing & fixing Pre-laminated Particle Board Lining with necessary nails etc. complete (excluding cost of frame)-8mm	sqm	208.91		
48	WW0055	Providing & fixing Mixed Conifer (undressed) in wall frames etc. for top floor ceiling	cum	1.06		
49	WW0100	Providing & fixing to frames (wall or ceiling) Plain Particle Board Lining with necessary nails etc. complete (excluding cost of frames)-6mm	sqm	246.25		
50	WW0055	Providing & fixing Mixed Conifer (undressed) in wall frames etc. for eaves ceiling	cum	1.56		
51	WW0010	Providing & fixing blue pine moulded beading to ceiling with iron screws including plugs, priming coat on unexposed surfaces - 50 x 12mm	m	1,054.27		
DRAINAGE WORKS						
52	DR0001	Providing and laying Plinth Protection grouted with fine sand mix including well rammed, finishing the top with 50mm thick precast cement concrete slab 1:1:2, 20mm aggregates, laid over 75mm thick layer of PCC (1:2:4), 40mm aggregates (600mm x 450mm)	sq.m	180.00		
53	DR0012	Constructing second class brick masonry open surface drain in cement mortar 1:4 including earth work in excavation 100 mm thick concrete bed 1:5:10, 40mm aggregate and 25mm thick cement concrete 1:2:4, 12 mm aggregate for filling haunches including 12mm cement plastering 1:4 with a floating coat of neat cement and disposal of surplus earth etc. complete-250mm x 300mm depth	m	180.00		

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54	DR0105	Constructing Brick masonry manhole in cement mortar 1:5, R.C.C top slab with 1:2:4 20mm aggregates, foundation concrete 1:4:8 40mm aggregates, 12mm plaster in CM 1:3 finished with floating coat of neat cement and making channels in cement concrete 1:2:4 20mm aggregates, neatly finished complete. Inside dimension 900 x 800mm & 450mm deep including C.I. cover & frame (weight >38 kg)	each	2.00		
PAINTING WORKS						
55	PT0012	Providing & applying one coat of primers Wood work - pink primer for eaves boards and pelmets.	sq.m	36.02		
56	PT0047	Providing and applying finishing coats- Synthetic enamel, for steel & wood work, two coats on new work	sq.m	36.02		
57	PT0010	Providing & applying one coat of primers (on external wall surface) - Cement primer	sq.m	743.68		
58	PT0052	Providing and applying finishing coats Vinyl plastic emulsion paint, for cement, masonry, plaster, two coats on new work- Dulux/Nerolac/Asian Paints/Berger	sq.m	743.68		
59	PT0042	Providing & applying finishing coats- Acrylic washable distemper, two coats on new work, including cement primer coat-internal walls- Dulux/Nerolac/Asian Paints/Berger	sq.m	3,415.48		
60	PT0111	Providing, preparing and applying Sumdang Traditional Bhutanese painting (Washable) - Ding quality. (Rate quoted should be able to cover the cost of applying paints to all the cornices, external window portions, etc)	L/S	1.00		
61	AR	Providing and fixing false ceiling by anchoring 6mm thick MS Flat on the ceiling walls and fixing 50x50mm thick MS frames to the flat. The rate should include all the necessary fittings required to complete the false ceiling work complete including the 10mm gypsum board.	sq.m	303.66		

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62	SW0110	Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and appl. priming coat of red and two coats of synthetic enamel paint complete.	kg	1,244.71		
63	A/R	Providing & fixing anodised Aluminium section for doors, windows, ventilators, partitions framing, false ceiling framing of specified sections including all accessories such as U-rubber gasket for fixing 6mm glass panes, weather strips or weather seals, roller, springs, etc complete (including the cost of glass panes or boards in case of partitions/doors/windows and ceiling boards in case of ceiling)	Sqm	10.62		
PLUMBING AND SANITARY						
64	PO0004	Providing & laying G.I. pipes including G.I. fittings (excluding trenching, refilling & thrust block)-32mm (External Piping)	m	50.00		
65	A/R	Providing & fixing CPVC (astral) pipes incl. fittings & clamps & repair walls (Internal piping)	m			
65.1		32mm		156.20		
65.2		25mm		76.00		
65.3		20mm		342.00		
66	PI0050	Providing & fixing European-type vitreous china w.c pedestal including seat and lid with c.p brass hinges, 15 lit white vitreous china low level cistern, fittings, brackets, repair walls etc.-white, with plastic seat & lid . Somany/Hindware/Cera. Note : Approval for the brand have to be sought from the employer before purchase of the item	each	19.00		
67	PI0085	Providing & fixing white vitreous china wash basin, including C.I brackets, 15mm C.P. brass pillar taps, c.p. chain & rubber plug, 32mm pvc waste, 32mm dia. trap & union, repair walls.Flat back wash basin 630 x 450mm with a pair of 15mm c.p. brass pillar taps.Somany/Hindware/Cera. Note: Approval for the brand have to be sought from the employer before the purchase of the items.	each	12.00		

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68	PI0095	Providing & fixing white vitreous china angle back wash basin 400x400mm including brackets, 15mm c.p brass pillar taps, c.p brass chain & rubber plug, 32mm c.p brass waste, 32mm dia c.p brass trap and M.I union and repair walls-With single 15mm c.p. brass pillar tap. .Somany/Hindware/Cera. Note: Approval for the brand have to be sought from the employer before the purchase of the items.	each	7.00		
69	PI0115	Providing & fixing pedestals for basins, white vitreous china, recessed back for pipes and necessary fittings	each	19.00		
70	PI0122	Providing & fixing Kitchen Sinks including all connections and fittings- Stainless steel, 580 x 480 x 175 mm, single bowl	each	6.00		
71	PI0141	Providing & fixing c.p. brass chain & rubber plug for basin and sink	each	6.00		
72	PI0150	Providing & fixing 32mm dia pvc. Waste	each	6.00		
73	PI0164	Providing & fixing Electric water heater including necessary fittings 50 litres for master bedroom. Havells/Bajaj/Venus. Note: Approval for the brand have to be sought from the employer before purchase of the item	each	6.00		
74	PI0163	Providing & fixing Electric water heater including necessary fittings 35 litres for common toilet. Havells /Bajaj /Venus. Note: Approval for the brand have to be sought from the employer before purchase of the item	each	6.00		
75	PI0161	Providing & fixing Electric water heater including necessary fittings 15 litres for kitchen. Havells/ Bajaj / Venus. Note: Approval for the brand have to be sought from the employer before purchase of the item	each	6.00		
76	PI0175	Providing & fixing C.P. Brass shower fittings-Shower with revolving joint, 20mm,	each	12.00		
77	PI0186	Providing & fixing c.p. brass stop cock - 20mm, standard, c.p knob	each	38.00		
78	PI0195	Providing & fixing c.p. brass pillar-cock - 20mm, standard, c.p knob	each	19.00		

Sl. No	Code	Description	Unit	Qty	Rate	Amount
79	PI0208	Providing & fixing c.p. brass bibcock - 20mm, long body, c.p. knob	each	25.00		
80	PI0226	Providing & fixing c.p. brass mixers, 20mm - For wall, telephonic type with C.P bend & flanges	each	12.00		
81	PI0250	Providing & fixing 600x450mm bevelled edge mirror (superior glass) incl.4mm A.C sheet base fixed to wooden cleats	each	19.00		
82	PI0251	Providing & fixing 450x120mm glass shelf, including c.p brass brackets fixed to wooden cleats	each	19.00		
83	PI0253	Providing & fixing c.p. towel rail 600 x 20mm with c.p brass brackets fixed to wooden cleats	each	12.00		
84	PI0254	Providing & fixing c.p. towel rail 450 x 20mm with c.p brass brackets fixed to wooden cleats	each	7.00		
85	PI0260	Providing & fixing toilet paper holder - C.P. brass	each	19.00		
86	PI0275	Providing & fixing soap dish including brackets, wooden cleats, c.p. brass screws	each	19.00		
87	PI0286	Providing & fixing c.p coat hook - double	each	19.00		
88	PI0033	Providing & fixing plastic tank including all accessories complete - 2000 litre capacity	each	4.00		
89	PI0034	Providing & fixing plastic tank including all accessories complete - 3000 litre capacity	each	2.00		
90	PO0372	Providing & fixing P.V.C soil waste and vent pipes, single or double socketed, including pipe clip complete (excluding the cost of PVC fittings) - 110mm dia (Soil Pipe)	m	72.20		
91	PO0370	Providing & fixing P.V.C soil waste and vent pipes, single or double socketed, including pipe clip complete (excluding the cost of PVC fittings) - 75mm dia (Sewerege pipe)	m	121.35		
92	PO0036	Providing & laying H.D.P.E Pipes, 6 PN, including H.D.P.E fittings (excluding trenching, refilling & thrust block) - 110mm dia - Bhutan Polythene	m	63.00		
93	PO0034	Providing & laying H.D.P.E Pipes, 6 PN, including H.D.P.E fittings (excluding trenching, refilling & thrust block) - 75 mm dia. Bhutan Polythene	m	10.00		

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94	PO0387	Providing & fixing P.V.C Coupler - 110mm dia	each	19.00		
95	PO0385	Providing & fixing P.V.C Coupler -75mm dia	each	25.00		
96	PO0407	Providing & fixing P.V.C plain bend - 110mm dia	each	19.00		
97	PO0405	Providing & fixing P.V.C plain bend - 75mm dia	each	25.00		
98	PO0415	Providing & fixing P.V.C door bend- 75mm dia	each	25.00		
99	PO0507	Providing & fixing P.V.C Double Y, with door - 110mm dia	each	9.00		
100	PO0487	Providing & fixing P.V.C single Y, with door - 110mm dia	each	1.00		
101	PO0565	Providing & fixing P.V.C Nahani Trap - 110mm inlet & 75mm outlet	each	25.00		
102	PO0600	Constructing Soak Pit filled with brick bats including 100mm S.W drain-pipe - As per the drawing	each	1.00		
103	PO0623	Constructing Septic Tanks, in 2nd class brick masonry in cement mortar 1:4, including fittings, C.I cover with frame, 40mm thick concrete flooring (40mm aggregates) cement plaster concrete base in C.C 1:4:8 etc. complete as per standard design-75 users	each	1.00		
TOTAL COST FOR CIVIL WORKS						

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Bill of Quantity for Electrical works

A Wiring and Accessories						
A1		Provide & Draw Single Core 1.1KV grade PVC insulated copper conductor cable of RR Kabel, Havells or Royal cable make in existing HDPE pipe,				
a	WC0049	2x1.5 sq.mm	m	3352.88		
b	WC0061	2x2.5 sq.mm(including 6A socket outlet wiring for sign board)	m	1553.86		
c	WP0066	2x4 sq.mm	m	3451.58		
d	WP0040	1X1sqmm	m	1725.79		
A2	ARE0001	Providing and fixing of power point socket with cover plate with switch and socket of 3 module, Honeywell, Schnider or Legrand make, in existing recessed HDPE pipe earthing the third pin, connections, painting, testing and commissioning etc. as required	each	90		
A3	ARE0002	Providing and fixing for metal boxes suitable for power point socket of 16A of Honeywell, Schnider or Legrand make, make, 3 module	each	99		
A4	ARE0003	Providing and fixing of floor mounted power point socket of 16A , Honeywell, Schnider or Legrand make, make, in existing recessed HDPE pipe earthing the third pin, connections, painting, testing and commissioning etc. as required	each	9		
A5	ARE0004	Providing and fixing of 6A 1-way switch of Honeywell, Schnider or Legrand make	each	273		
A6	ARE0005	Providing and fixing of front plate assembly of Honeywell, Schnider or Legrand make of following module;				
		1 mdoule	each	15		
		2 mdoule	each	13		
		3 mdoule	each	11		
		4 mdoule	each	18		
		5 mdoule	each	14		
		6 mdoule	each	2		
		7 mdoule	each	1		
		8 mdoule	each	3		
		9 mdoule	each	1		
A7	ARE0007	Providng and fixing of bell switch 6A, Honeywell, Schnider or Legrand make	each	6		

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A8	ARE0008	Providng and fixing of step fan speed controller 6A,2 module , Honeywell, Schnider or Legrand make	each	40		
A9	ARE0009	Providing and fixing of metal boxes sutiable for switches, regulators, Honeywell, Schnider or Legrand make				
		1 mdoule	each	43		
		2 mdoule	each	13		
		3 mdoule	each	11		
		4 mdoule	each	18		
		5 mdoule	each	14		
		6 mdoule	each	2		
		7 mdoule	each	1		
		8 mdoule	each	3		
		9 mdoule	each	1		
A10	ARE0010	Supply and fixing of T6 RJ45 Computer Jack - 1M of Honeywell, Schnider or Legrand make	each	15		
A11	ARE0011	Supply and fixing of T6 RJ45 Computer Jack - 1M floor mounted of Honeywell, Schnider or Legrand make	each	9		
A12	ARE0012	Supply and fixing RJ11 Telephone Jack - 1M of Honeywell, Schnider or Legrand make	each	13		
A13		Supplying and fixing of HDPE pipe on recessed including all accessories such as screws, bends, elbows, Tees, corners, etc. complete as required				
a	CD0221	25mm	m	1492.72		
A14		Provide and draw high density polythene insulated & sheathed copper conductor 0.5mm dia telephone wire in existing surface/ recessed conduit wiring system complete as required				
a	TC0001	2 pair	m	150		
A15		Supplying and drawing of LAN wire in HPDE recessed conduit including cable termination, testing, working demo,clipping/clamping, etc as required and as shown in drawing				
	ARE0013	UTP Cable, CAT6	m	1350		
Sub Total(A)						
B		Lighting Fixtures and Accessories				
B1		Supply of recess mounted high performance Space downlight with high reflectivity reflector and with .remote gearbox and 2XPLT/ 4P26W lamp with all its accessories, Philips, Havells or jaquar make				

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a	ARE0014	2XPL-T/4P-8W	each	29		
B2		Supply of pre wire recess mounted decorative direct-indirec lighting Wing LX with its accessories, made' of Philips or equivalent, lumininaire suitable for compact fluorescent lamp PLL36W, anti glare D6 optics in Fiery amber colour'and housing of CRCA sheet steel rail with housing dimension of 595mrnX595mm for mounting on false ceiling with lamp and its accessories, Philips, Havells or jaquar make				
a	ARE0015	2xPLL-36W	each	12		
B3	LS0131	Supplying of LED tube light 240 volts A.C, 18W,Philips, Havells or jaquar make	each	100		
B4	LS0130	Supplying of LED tube light 240 volts A.C,9W, Philips, Havells or jaquar make	each	55		
B5	IL0052	Supplying of prewired indoor rails and wall brackets on surface / ceiling mounted luminaires suitable for LED lamps for maximum wattage upto 1x60 watts complete with all accessories such as base, holder, reflector, rails, glass globe, etc etc. but without lamp:Wall bracket projection 225mm, height 240mm finish painted, glass frosted, 1x60W	each	55		
B6	FN0001	Supplying of ceiling fan 240 volt A.C 1400 rpm with all accessories such as down rod, sweep 3 Nos.,canopy 2 Nos., condenser and fan body etc. complete as required:900mm sweep, Philips, Havells or jaquar make	each	42		
B7	FN0017	Supplying of exhaust fan 240 volt A.C 900 rpm with all accessories such as frame with arm 3 Nos., sweep 3 Nos., condenser and fan body etc. complete as required:450mm sweep, Philips, Havells or jaquar make	each	6		
Sub Total (B)						
C		Control Gear and Protection				
C1		Supplying of panel moulded case circuit breaker (MCCB) with electronic release, breaking capacity 70KA, 4 pole 415 volt A.C complete with all accessoriesetc. as requirede line diagram and specification complete as required.				
a	GB0241	400A	each	1		

Sl. No	Code	Description	Unit	Qty	Rate	Amount
C2	ARE00	Supply and installation of automatic transfer switch 100A, 4 pole make legrand/equivalent	each	1		
C3		Supply of miniature circuit breaker (MCB) triple pole & neutral, 415 volt A.C complete with all accessories suitable to to fix on a din-bar etc. as required				
a	GB0355	63A	each	1		
b	GB0353	40A	each	2		
c	GB0352	32A	each	7		
C4		Supply of miniature circuit breaker (MCB) of Havells/legrand/schnider make, double pole, 230 volt A.C complete with all accessories suitable to fix on a din-bar etc. as required				
	GB0315	32A	each	6		
C5		Supplying of pre-fabricated MS busbar chamber with copper busbar complete with all accessories etc. as required of Havells/legrand/schnider make	each			
a	GB0009	4 strips, 600mm bar, 300A	each	1		
b	GB0001	2 strips, 300mm bar, 100A	each	1		
C6		Supply of SPN distribution board (DIN type) with metal door, 230 volt A.C complete with all accessories without MCB/isolator/RCCB out going or incoming etc. as required of Havells/legrand/schnider make				
a	GB0522	6 way	each	5		
C7		Supply of TPN distribution board (DIN type, horizontal) with metal door, 415 volt A.C complete with all accessories without MCB/isolator/RCCB out going or incoming etc. as required of Havells/legrand/schnider make				
a	GB0543	16way	each	9		
C8		Supply of miniature circuit breaker (MCB) single pole, 230 volt A.C complete with all accessories suitable to fix on a din-bar etc. as required				
a	GB0270	6A	each	59		
b	GB0272	16A	each	96		

Sl. No	Code	Description	Unit	Qty	Rate	Amount
C9		Supply of residual current circuit breaker (RCCB) Havells/legrand/schnider make 4 pole, sensitivity 30mA, 415 volt A.C complete with all accessories suitable to to fix on a din-bar etc. as required				
a	GB0472	32A	each	5		
C10		Supply of residual current circuit breaker (RCCB) of Havells/ legrand /schnider make,4 pole, sensitivity 30mA, 415 volt A.C complete with all accessories suitable to to fix on a din-bar etc. as required				
b	GB0473	40A	each	9		
C11		Supplying of 3.5-Core 1.1KV grade PVC insulated and sheathed Aluminium conductor armoured power cables of havells, RR kable or royal cables make				
a	PC0157	225 sqmm	m	100		
C12		Wiring for sub-main with 1.1kv grade, PVC insulated copper conductor cable of Rrkables, havells or roual cable make in PVC surface conduit including connections, painting, testing and commissioning etc. as required				
a	WC0274	4x10 sqmm	m	150		
b	WC0275	4x16 sqmm	m	150		
c	ARE00	4x25 sqmm	m	150		
C13		Supplying of heavy duty brass single compression gland for 3.5- Core 1.1KV grade PVC insulated and sheathed Copper/ Aluminium conductor armoured/ un-armoured power cables				
a	PC0257	60mm dia, 225sq.mm	each	1		
C14	ARE0006	Supply and install Tempra Plug and socket DBs with MCB 32 A, 415V, 3P+N+E and mobile socket 415V AC, 50 Hz, 32A, 3P+N+E	each	1		

Sl. No	Code	Description	Unit	Qty	Rate	Amount
C15	ARE0007	Providing and fixing of prefabricated panel board with minimum 50x50x6,, angle iron frame work with horizontal and vertical intermediate members of GI flat iron 40X6mm and 12SWG sheet cover with gasket for mounting of switch hears incoming/outgoing bus bar chmabers including drilling holes, insulator, painting, denting, grouting etc as required, indoor panel board of welded construction for all main control panel as per the typical drawing manufacture from the standard manufacture	each	1		
Sub total (C)						
D		Erection and Installation				
D1		Erection of all indoor/outdoor surface type wall bracket (single or double)/ surface ceiling fittings GLS lamps/ bulk head GLS lamp / all types call bell / all type picture or mirror lighting luminaries fittings with all accessories, fixing of lamp, testing etc. as required including connection with PVC insulated copper conductor				
a	EI0002	1.5 sq.mm single core cable 1.1 KV grade	each	293		
D2		Installation, testing and commissioning of all size ceiling fan and regulator including wiring the down rod of standard length upto 300mm with PVC insulated copper conductor				
	EI0096	1.5 sq.mm single core cable 1.1 KV grade	each	42		
D3		Installation, testing and commissioning of SPN/DP miniature circuit breaker DIN type complete with all accessories to accommodate on/in prefabricated MS surface /MS cubical control panel board including drilling holes, connections etc as required				
a	EI0380	6/16A	each	155		

Sl. No	Code	Description	Unit	Qty	Rate	Amount
D4		Installation, testing and commissioning of SPN/DP miniature circuit breaker DIN type complete with all accessories to accommodate on/in prefabricated MS surface /MS cubical control panel board including drilling holes, connections etc as required				
a	EI0390	25/32/40A	each	14		
D5		Installation, testing and commissioning of four pole moulded case circuit breaker (DIN type) breaking capacity 70K/earth leakage module complete with all accessories to accommodate on/in prefabricated MS surface /MS cubical control panel board including drilling holes, connections etc as requiredard including drilling holes, connections etc as required				
a	EI0460	400A, 415V	each	1		
D6		Installation, testing and commissioning of TPN DB (DIN type, horizontal/vertical) with no door, metal door or arcylic door (double/single door) complete with all accessories to accommodate incoming RCCB FP 16/25/32A sensitivity 30/100/300mA and outgoing SP MCB 6/10/16A on/in prefabricated MS surface /MS cubical control panel board including drilling holes, connections etc. as required				
a	EI0535	6way	each	5		
b	EI0545	8way	each	9		
D7		Laying of one number PVC insulated and sheathed power cable copper/aluminium,armoured/ un-armoured 1.1KV single core to four core direct in the ground including excavation, sand cushioning, protective covering and refilling the trenches etc. as required				
a	CL0057	Above 25sq.mm to 70sq.mm	m	100		

Sl. No	Code	Description	Unit	Qty	Rate	Amount
D8		Installation, Testing and Commissioning of end termination with single/double compression gland for PVC insulated and sheathed aluminium/ copper conductor cable of 1.1KV grade including connections etc. as required				
a	CI0113	45/50/55mm dia	each	3		
				Sub Total (D)		
		Earthing				
E1		Providing and fixing of earthing including all accessories, machinery enclosure, C.I cover plate having locking arrangement, watering pipe with excavation and refilling work including charcoal or coke and salt complete as required as per standard earthing drawing				
a	ET0002	With copper earth plate 600x600x3mm	each	2		
E2		Providing and drawing wire for loop earthing in existing surface/ recessed PVC/MS/ steel conduit or casing capping or wooden batten along with other wires as required				
a	ET0121	2.032mm (14SWG) copper wire	m	150		
E3		Providing and fixing lightning conductor including holes etc. complete as required				
a	LG0002	25mm dia 900mm long copper tube four prong at top with 85mm dia 3mm thick copper base plate	each	2		
E4		Providing and laying of metal strip in 40mm dia G.I pipe at 0.5m below ground level from earth electrodes including soldering etc as required				
a	ET0046	25x4mm copper strip	m	30		
E5		Providing and laying of wire at 0.5m below ground level for conductor earth electrodes including soldering etc as required				
a	ET0046	With 4.06mm dia (8SWG) copper wire	m	25		
Sub Total (E)						
F		BPC Meter				
F1		Supply and installation of				
		1 phase meter	each	6		
		3 phase meter	each	9		
Sub total (F)						

Sl. No	Code	Description	Unit	Qty	Rate	Amount
G		Diesel Generator				
G		Supplying, installation, testing and commissioning of continuous rated 4 stroke V type engine having radiator heat exchange coupled and aligned with continuous rated 40 KVA Three phase Silent D.G Set with Acoustic Enclosure , 415V +/- 1%, 50 hz, 0.8 PF industrial type brushless AC alternator with electronic AVR and alternator protection DG set on common base frame with all standard accessories such as 3mm thick MS painted fuel tank & interconnection, Fully charged lead acid batteries/accumulator withstand battery lead, resedentail silencer suitable electronic controller with built in AMF pads, engine protection unit, sensor for winding and bearing temperature monitoring, 3 sets engine alternator manuals, spare parts book, test warranty certificate and log book etc. complete in all respect. The engine alternator shall be enclosed in acoustic enclosure as per the standard set by reputed manufacture firms, Further the DG set shall have pressure gauge, water temperature gauges, engine starting key and all necessary safeties against over speed, low lub, oil pressure and high water temperature etc as required. the make of DG set can be Steriling and Wilson or Kilosker or Schinder Electric or equivalent brand as per client or concerned consultants approval including ATS switch suitable for auto changover during power failure from BPC	1	set		
SUB total(G)						
Grand Total for Electrical Works (A+B+C+D+E+F+G)						

Grand Total for Civil and Electrical works (Nu) =	
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In Words : _____
 _____ Only)