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TENDER SPECIFICATION

TENDER NO. BHEL/NR/SCT/RSC VARANASI/OFFCIE REPAIR/1026

FOR

**“REPAIR AND RENOVATION OF THE RSC VARANASI OFFICE
COMPLEX AT SHIVPUR, TARNA IN BHEL, HERP COLONY,
VARANASI, U.P”**

PART II – PRICE BID



**Bharat Heavy Electricals Limited
(A Govt. Of India Undertaking)
Power Sector – Northern Region,
Plot No. 25 , Sector - 16A ,
Distt. Gautam Budh Nagar, NOIDA – 201 301.**

TENDER NO. BHEL/NR/SCT/RSC VARANASI/OFFCIE REPAIR/1026



**ISO 9001, ISO 14001,
OHSAS 18001 & SA 8000
certified company
SubContract and Purchase Deptt.**

**Bharat Heavy Electricals Limited
(A Govt. Of India Undertaking)
Power Sector – Northern Region,
Plot No. 25 , Sector - 16A ,
Distt. Gautam Budh Nagar, NOIDA – 201 301(INDIA)
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TENDER NO -: BHEL/NR/SCT/RSC VARANASI/OFFCIE REPAIR/1026

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THIS TENDER SPECIFICATION ISSUED TO:

M/S-----



<u>RATE SCHEDULE</u>		
Item No.	DESCRIPTION OF WORK	Total Value In Rupees (In figures and words "A")
1	Total Lumpsum price for entire scope of REPAIR AND RENOVATION OF THE RSC VARANASI OFFICE COMPLEX AT SHIVPUR, TARNA IN BHEL, HERP COLONY, VARANASI, U.P	
Note	The rates of different items for the entire scope shall be worked out & awarded as per Annexure "B".	

BOQ CUM RATE SCHEDULE

WORK: REPAIR AND RENOVATION WORK OF RSC VARANASI OFFICE COMPLEX AT SHIVPUR, TARNA IN BHEL, HERP COLONY, VARANASI, U.P.

Sl. No.	Description of Item	Unit	QUANTITY	FACTOR- F	RATE (Rs.) = FACTOR (F) * A / 100000 (Rounded off to two place after decimal)	AMOUNT (Rs.) = RATE *QUANTITY
Section- (A) CIVIL WORKS						
A-I: DISMANTLING WORK						
1	Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish etc., disposal of unserviceable material to identified location and stacking of serviceable material within 50 metre lead and including relaying as per direction of Engineer-in-Charge.	Sqm	30.00	2.78		
2	Demolishing RCC/brick work/rubble masonry/block work in cement mortar manually/by mechanical means including stacking of reusable materials as per directions of Engineer I/C	Cum	6.00	75.34		
3	Disposal of building/store rubbish, dismantled masonry, disposable scrap materials, etc. to nearest identified dumping area by mechanical carriage of materials including loading, unloading, disposal and levelling of disposal area.	Cum	10.00	7.95		
A-II: REPAIR WORKS						
4	Repairs to plaster of thickness 12mm to 20mm in patches of area 2.5 sq. meters and under including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete including disposal of rubbish to the dumping ground within 50metres lead : With cement mortar 1:4 (1 cement : 4 fine sand).	Sqm	105.00	14.20		
5	Making the opening in brick masonry including dismantling in floor or walls by cutting masonry and making good the damages to walls, flooring and jambs complete, to match existing surface i/c disposal of mulba/ rubbish to the nearest dumping ground as approved by BHEL Engineer.	Sqm	11.00	28.63		
6	Providing and fixing 16 mm M.S. Fan clamps of standard shape and size in existing R.C.C. slab including cutting chase, anchoring clamp to reinforcement bar, including cleaning, refilling, making good the chase with matching concrete, plastering and painting the exposed portion of the clamps complete.	Each	11.00	14.62		
7	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	Sqm	2350.00	0.42		

Sl. No.	Description of Item	Unit	QUANTITY	FACTOR- F	RATE (Rs.) = FACTOR (F) * A / 100000 (Rounded off to two place after decimal)	AMOUNT (Rs.) = RATE *QUANTITY
8	Repairing existing water proofing treatment on roofs of slabs after scrapping damaged areas and hacking of existing wearing course by applying cement slurry mixed with water proofing cement compound consisting of applying: a) after surface preparation, first layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. b) laying second layer of Fibre glass cloth when the first layer is still green. Overlaps of joints of fibre cloth should not be less than 10 cm. c)third layer of 1.5 mm thickness consisting of slurry of cement @ 1.289 kg/sqm mixed with water proofing cement compound @ 0.670 kg/sqm and coarse sand @ 1.289 kg/sqm. This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The entire treatment will be taken upto 30 cm wherever required on parapet/kerb wall and tucked into groove in parapet all around.	Sqm	50.00	22.87		
A-III: EARTHWORK/SITE CLEARANCE/ROADWORK						
9	Surface dressing of the ground including removing vegetation and in-equalities not exceeding 15 cm deep and disposal of rubbish, lead upto 50m and lift upto 1.5m in all kinds of soil.	sqm	100.00	0.73		
10	Earth work in excavation in all types of ordinary and hard soil by mechanical means (Hydraulic excavator)/manual means including stacking the excavated soil, dressing of sides and ramming of bottom, dewatering of accumulated water from any source and keeping the surface dry for subsequent works such as concreting form work etc. and disposal of surplus excavated soil as directed, disposed soil to be neatly levelled and dressed lead upto 50 meters and lift upto 1.5meter complete.	Cu.M	20.00	9.52		
11	Back filling available excavated earth in trenches, plinth, slides of foundations etc., including re-excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering complete lead upto 50 Metre and lift upto 1.5 Meter.	Cu.M	10.00	6.49		
12	Preparation and consolidation of site area with manual roller /plate compactor after levelling, grading, dressing to camber including making good the undulations etc. and re-rolling the subgrade and disposal of surplus earth lead upto 50 Mtrs	sqm	100.00	4.73		
13	Supply and Laying water bound macadam with specified stone aggregate stone screening and binding material including screening, sorting, spreading to template and consolidation with manual roller etc. complete with supply for stone aggregate, screenings, kankar, moorum and red bajri etc.					

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	Base course with 63 mm to 45 mm size including stone screening 13.2mm size.	cum	10	115.99		
14	Providing and Filling of murrum as levelling course compacting the same with manual roller/plate compactor complete in all respects as directed by Engineer-in-Charge	cum	3.00	46.65		
15	Supplying the good earth from outside the site including the cost of filling the same within the site in layer not exceeding 20cm in depth & consolidating each deposited layer by ramming and watering including all leads & lifts etc. complete.	cum	3.00	19.78		
	A-IV: PCC			-		
16	Plain cement concrete of mix 1:3:6 (1 cement : 3 coarse sand and 6, 20 mm down graded stone aggregate) for column footing, levelling, floors etc., including cost of all materials, lead, lift, labour charges, consolidation, shuttering, curing etc. complete.	Cu. M	2.00	282.40		
17	Making plinth protection 50 mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75 mm bed of dry brick ballast 40 mm nominal size well rammed and consolidated and grouted with fine sand including finishing the top smooth .	sqm	15.00	24.27		
	A-V: BRICKWORK			-		
18	Brick work with class designation 75 in cement mortar 1:6 (1 cement : 6 coarse sand) in foundation, plinth and super structure in thickness of 230 mm including cost of all materials, lead lifts, labour charges, mixing mortar, laying bricks, racking joints, curing etc. all complete as per drawing and specification and direction of Engineer In-charge.	Cu. M	2.00	341.12		
19	Brick work with brick of class designation 75 in cement mortar 1:4 (1 cement : 4 coarse sand) in super structure in thickness of 115 mm including cost of all materials, lead lifts, labour charges, mixing mortar, laying bricks, racking joints, curing etc. all complete as per drawing and specification. 2 nos. MS rods of 6 mm dia are to be provided after every 3rd layer for which no additional payment will be made.	Sq. M	10.00	45.98		
	A-VI: RCC			-		
20	Reinforced cement concrete of mix 1:1.5:3 (1 cement, 1.5 coarse sand and ,3 :20 mm down graded aggregate) for column footing, sunshades, shelves, lintels etc. including cost of materials, lead lift, labour charges for concreting, curing etc. complete.	Cu. M.	5.00	404.82		
21	Centring and shuttering including providing all shuttering material , strutting, propping etc. and removal of form work for : Slabs, Lintels, beams, plinth beams, girders, bressumers and cantilevers.	sqm	7.00	23.84		

Sl. No.	Description of Item	Unit	QUANTITY	FACTOR- F	RATE (Rs.) = FACTOR (F) * A / 100000 (Rounded off to two place after decimal)	AMOUNT (Rs.) = RATE *QUANTITY
22	Providing and placing mild steel/ tor steel reinforcement for RCC work including cost of all materials, labour for cutting, bending, binding and placing in position complete as per drawing and instruction of Engineer.	MT	0.60	4,103.19		
A-VII: ROOFING						
23	Supply fabrication and erection of structural steel beams,channels,plates,steel tubular trusses, purlines,gates, wind ties, base plates, gusset plates, bolts, nuts etc. complete as per drawings, specifications & instructions of engineer including cost of all materials leads, lifts labour charges etc. and one coat of primer and two coats of approved enamel paint for finished products at site complete as per technical specification and direction of engineer.					
	Columns,Trusses (medium grade pipes),Purlins side ties, bottom ties	MT	1.00	4,718.15		
24	Providing and fixing permanently colour coated profiled GS sheet min 0.5 mm thk roofing including ridges of approved colour, shade and profile and side cladding fixed with polymer coated J or L hooks bolts and nuts 8mm diameter with bitumen and GI limpet washer complete (upto a pitch of 60 degrees) including steel primer and 2 coats of approved paint at overlaps. as per tech. specification.	Sq.M	45.00	30.70		
25	Providing and fixing corrugated UV Stabilised Fibre Glass Reinforced Plastic sheet (Translucent) roofing fixed with GI J or L hooks bolts and nuts 8mm diameter with bitumen and GI limpet washer complete (upto a pitch of 60 degrees) including steel primer and 2 coats of approved paint at overlaps. as per tech. specification.	Sq.M	5.00	61.51		
A-VIII: CEILING						
	Providing and fixing at all height false ceiling of 12.5mm thick tapered edge gypsum board conforming to IS : 2095 including providing and fixing of frame work made of special sections power pressed from M.S. sheet and galvanised in accordance with zinc coating 350 as per IS : 277 and consisting of angle cleats of size 25mm wide x 1.6mm thick with flanges of 22mm and 37mm at 1200mm centre to centre one flange fixed to the ceiling with dash fastner 12.5 mm dia x 40mm long with 6 mm dia bolts to the angle hangers of 25x25x.55 mm of reqd. length, and other end of angle hanger being fixed with nut and bolts to G.I.Channels 45x15x0.9 running at the rate of 1200 mm centre to centre to which the ceiling section 0.5 mm thick bottom wedge of 80mm with tapered flanges of 26mm	Sq.M	150.00	51.57		

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26	each having clips of 10.5mm at 450mm centre to centre shall be fixed in a direction perpendicular to G.I. Channel with connecting clips made out of 2.64 mm dia x 230mm long G.I. Wire at every junction including fixing the gypsum board with ceiling section and perimeter channels 0.5mm thick 27mm high having flanges of 20mm and 30mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450mm centre to centre with 25mm long drive-all screws @ 230mm interval including jointing and fixing to a flush finish of tapered and square edges of the gypsum board with recommended filler, paper tapes, finisher and two coats of primer suitable for gypsum board as per manufacturers specification and also including the coat of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed all complete as per drawing and specification and direction of the Engineer -in-charge but excluding the cost of painting.				-	
A-IX: FINISHING					-	
27	Providing and laying Ceramic glazed floor/wall tiles 300x300 / 300x200 mm (thickness to be specified by the manufacturer) of 1st quality conforming to NITCO, ORIENT, SOMANY KAJRIA, or equivalent make in approved colours such as white, Ivory, Grey, Fume Red Brown etc. laid on 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including the joints with white cement and matching pigment etc. complete.	Sq.M	50.00	52.66		
28	Providing and fixing 18 mm thick granite slab top on kitchen pantry, toilet, counters including making cutouts for wash basins, sinks fixed over 20 mm thick 1:3 cement mortar (1 cement : 3 coarse sand) complete including rubbing, polishing, grinding edge formation as per Architect's drawings (from South Indian quarries).Black colour	Sq.M	4.00	241.51		
29	Plastering work with cement mortar 1:6 (1 cement : 6 fine sand) 12 mm thick after scrapping and cleaning the masoary joints including scaffolding, cost of materials, labour, mixing , leads & lifts, curing etc. complete.	Sq. M	70.00	8.55		

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30	Providing and fixing Powder coated (thickness 40-50 microns) Aluminium work for doors, windows, ventilators and partitions with extruded built up standard section of approved make conforming to IS:733 and IS:1285, powder coated to reqd. shade, 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 reqd PVC/ NEOPRENE felt etc. AL sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever reqd including cleat angle, Aluminium snap beading for glazing/panelling, C.P. brass/ stainless steel screws, all complete as per drawings or as directed by BHEL Engineer.					
a)	For fixed portion	Kg	400.00	23.90		
b)	For shutters of doors, windows and ventilators including providing & fixing hinges/pivots and providing and fixing of fittings wherever reqd. including the cost of PVC/neoprene gasket reqd. complete in all respects.	Kg	100.00	27.42		
31	Providing and fixing glazing in Al work for doors, windows, ventilators and partitions etc. with PVC/ neoprene gasket complete including glazing and panelling with plain/black glass panes of 5.5 mm thick (wt not less than 13.75 kg/sqm)	Sq. M	100.00	64.67		
32	Providing and fixing double action hydraulic floor spring of approved brand and manufacture as per IS, Hardwyn make (model 3000) or approved equivalent for doors including cost of cutting floors as reqd. , embedding in floors and cover plates with brass pivot and single piece M.S sheet outer box with slide plate.etc. with stainless steel cover plate as per direction of Engr. I/C	No.	2.00	129.40		
33	Providing and fixing anodised aluminium grill (anodised transparent or dyed to required shade according to IS: 1868 with minimum anodic coating of grade AC 15) of approved design/pattern, with approved standard section and fixed to the existing window frame with C.P. brass/ stainless steel screws @ 200 mm centre to centre, including cutting the grill to proper opening size for fixing and operation of handles and fixing approved anodised aluminium standard section around the opening, all complete as per requirement and direction of Engineer-in-charge. (Only weight of grill to be measured for payment).	Kg	50.00	25.54		
34	Providing and fixing IS : 3564 marked Aluminium die cast body tubular type universal hydraulic door closer, Hardwyn make (Classic Queen) or approved equivalent with necessary accessories and screws etc. complete.	Each	2.00	65.82		

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35	Providing and fixing steel glazed windows and ventilators of operable standard rolled steel section joints mitred and welded with 15 x 3 mm lugs, 10 cm long, with steel lugs embedded in cement concrete blocks 15 x 10 x 10 cm of 1:3:6 (1 cement : 3 coarse sand : 6 approved graded hard stone aggregate 20 mm nominal size) or with wooden plugs and screws or raw plugs and screws or with fixing clips or with bolts and nuts as required including providing and fixing of glass panels (5.5 mm thick) with glazing clips and special metal sash putty of approved make complete including painting with two coats of approved quality synthetic enamel paint over a base coat of red oxide zinc chromate primer including the cost of minor repair work, if required. Windows and ventilators will be provided with horizontal steel bars (8 mm x 8 mm) , welded to the frame @ 150 mm c/c, including supply of MS frames, bars, glazing etc. all complete. The MS window frame pattern shall be approved by BHEL before fabrication.	Sq.M	2.00	131.95		
36	Providing three coats of white wash to give a smooth and even shade including cost of materials, cleaning and preparation of surface, scaffolding etc. complete.	sqm	80.00	0.91		
37	Finishing walls/ surfaces with water proofing cement paint of approved brand and manufacture and of required shade to give an even shade.	sq.M	800.00	3.46		
38	Finishing walls with textured exterior paint of required shade :			-		
	New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including priming coat of exterior primer applied @ 2.20kg/10 sqm	sq.M	200.00	8.13		
39	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete	sq.M	1500.00	6.49		
40	Distempering with Oil bound washable distemper of approved brand and manufacture and of required shade to give an even shade on new/old wall (2 or more coats) over and including priming coat with cement primer.	sq.M	1500.00	5.10		
41	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade in two or more coats on new work	sqm	100.00	4.06		
	A-X: SANITARY/SEWAGE / WATER SUPPLY			-		
42	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern with manually controlled device (handle lever), conforming to IS : 7231, Parryware/Hindware/Seabrid /Orient (Coral) with all fittings and fixtures complete including cutting and making good the walls and floors wherever required : W.C. pan with ISI marked white solid plastic seat and lid	No.	1.00	204.32		

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43	Providing & fixing flat back white vitreous china wash basin 550 x 400 mm size with single 15 mm C.P.brass pillar with R.S. or C.I. brackets painted white 15 cm C.P. brass pillar taps C.P. brass chain with rubber plug, 32 mm dia CP Brass trap and M.I. unions, C.P. waste, C.P. connection, soap dish , waste pipe complete including cutting and making good the walls wherever required under counter complete in all respects	No.	1.00	108.89		
44	Providing and fixing Salem Stainless Steel A ISI 304 (18/8) kitchen sink as per I.S. 13983 with C.I. brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required : Kitchen sink with drain board 510x1040mm bowl depth 200mm	No.	1.00	377.27		
45	Providing and fixing bevelled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	sqm	2.00	48.84		
46	Providing and fixing 600x120x5mm glass shelf with edges round of supported on anodised aluminium angle frame with C.P brass brackets and guard rail complete fixed with 40 mm long screws, rawl plugs etc. complete	each	4.00	33.43		
47	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality colour and make (Prayag or equivalent).			-		
a)	450mm long towel rail with total length of 495mm, 78mm wide and effective height of 88mm, weighing not less than 170gms.	each	1.00	26.21		
b)	600mm long towel rail with total length of 645mm, width 78mm and effective height of 88mm, weighing not less than 190gms.	each	1.00	28.76		
48	Providing and fixing PTMT liquid soap container 109mm wide, 125mm high and 112mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality colour and make, weighing not less than 105gms (Prayag or equivalent)	each	3.00	11.65		
49	Providing, laying, fitting and jointing medium grade GI pipes , conforming to IS 1239 for water lines at various elevations with all fittings stop cock, valve bends, elbows, tees, reducers., etc. making grooves in the brick wall, etc. (Internal work), trenching, refilling etc. (external work) including cost of all materials, labour charges etc. complete as per specifications and drawings.			-		
a)	25 mm dia G.I. Pipe (External work)	RM	20.00	15.29		
b)	20 mm dia G.I. Pipe (Internal work)	RM	10.00	14.20		
c)	15 mm dia G.I. Pipe (Internal work)	RM	20.00	11.65		

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50	Providing and fixing GM full way valve with C.I wheel of approved quality etc. complete. 25 mm nominal bore	No.	2.00	-	27.42	
51	Providing and fixing C.P. brass 15 mm stop cock of approved quality of weight not less than 250 gms.	NO	2.00	-	16.62	
52	Providing and fixing C.P. brass 15 mm bib cock of approved quality of weight not less than 250 gms.	No.	2.00	-	16.62	
53	Providing and fixing 100 mm dia C.P. brass shower rose with 15 or 20 mm inlet	No.	1.00	-	4.55	
	A-XI: FENCING			-		
54	Providing and fixing welded MS WIRE MESH FENCING of required width in mesh size 50x50 mm welded with tubular frame fixed to tubular posts in concrete 1:3:6 of size 400x400x600 mm all complete including painting of wire mesh with min two coats of approved synthetic enamel paint. (Concrete, earthwork and tubular sections for frame and post shall be paid separately) with MS wire of dia 4 mm	Sqm	45.00	-	33.67	
55	Supplying at site tubular fencing post & wire mesh frame of required size including bottom to be split in opposite direction for 10 cm length Etc. complete including a priming coat and two coats of enamel paint	kg	75.00	-	4.49	
56	Cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 40 mm nominal size) in pavements, laid to required slope and camber in panels as required including minimum reinforcement, consolidation finishing and tamping complete including laying in position bitumen hot sealing compound for expansion joints	cum	8.00	-	312.18	
	Sub total A			-		
	B ELECTRICAL WORKS			-		
57	Providing and fixing 1 x 40 Watt Batten type fluorescent tube fitting (Crompton / Philips / Bajaj make), fabricated from CRCA sheet steel and finished with stove enamel paint complete with Accessories like fluorescent lamp, copper wound polyester choke, starter, seat, rotor holder and terminal block duly pre-wired with copper conductor, including connections, fixing on wall, false ceiling or under roof tusties with clamps as required	Nos.	11	-	21.54	
58	Providing and fixing 20/40 W Decorative type fluorescent light fixture (Crompton / Philips / Bajaj or approved equivalent reputed make) top hanging type, multi control type and with terminal block duly pre-wired with copper conductor, including connections, fixing on wall, false ceiling or under roof tusties with clamps as required.	Nos.	8	-	43.07	

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59	Providing and fixing 1 x 250 W HPSV out door type fittings (Crompton / Philips/Baja) or approved equivalent make) complete with lamp, ballast control gear box, fixing clamp etc.	Nos.	2	266.14		
60	Providing and fixing of following sweep exhaust fan/ceiling fan/wall mounted fan (Khaitan / Crompton or approved equivalent make) single phase alongwith gravity louvers, frame / tripod for holding the motor including making necessary opening in wall, supply & fixing of assembly with grouting bolts, making connections, loop earthing etc.			-		
a)	300 mm sweep	Nos.	4	185.70		
b)	450 mm sweep	Nos.	1	278.57		
c)	Wall mounted fan	Nos.	4	142.50		
d)	Ceiling fan-48"	Nos.	9	127.64		
61	Providing & fixing of 240 V, 5 / 15 Amp 6 Pin modular Power socket outlet point (with 15 A modular switch). Switch / socket to be fitted in suitable size 20 SWG metal type box with 3mm sunmica sheet.	Nos.	3	26.33		
62	Providing & fixing of 240 V, 5A 3 Pin modular Power socket outlet point (with modular switch). Switch / socket to be fitted in suitable size 20 SWG metal type box with 3mm sunmica sheet along with the switches and fan regulator.	Nos.	2	20.50		
63	Providing & fixing 5A piano type switch for Light / Fan Control (Anchor or approved equivalent make)	Nos.	4	2.06		
64	Providing and Fixing of 20/25 mm PVC Conduit (including fittings) for telephone / LAN Connection / Call bell System in the office complex.	Metre	100	4.37		
65	Supplying and drawing 2 pair, 0.5 sqmm FR PVC insulated copper conductor, unarmoured telephone cable in the existing surface/recessed steel/ PVC conduit as required.	per point	20	10.92		
66	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections as required but excluding modular plates etc. as required.			-		
a)	5/6 amps switch	per point	20	4.91		
b)	3 pin 5/6 amp socket outlet	per point	20	6.49		
c)	15/16 amp switch	per point	20	7.28		
d)	6 pin 15/16 amp socket outlet	per point	20	10.43		
e)	Telephone socket outlet	per point	20	5.88		
67	Providing and laying CAT 5 LAN cable from Data centre/Computer room including providing and fixing socket outlet as per instructions/drawings	per point	20	18.20		

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68	Supplying and fixing 20 amps, 240 volts, SPN industrial type, socket outlet, with 2 pole and earth, metal enclosed plug top along with 20 amps "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	Nos.	4	51.02		
69	Wiring of above power sockets with 2X4 Sq. mm FR PVC insulated Copper Conductor wires as per IS, 650 / 1100 V grade including 1 no. 4 sq mm FR PVC insulated Copper Conductor extra cable for loop earthing in medium grade conduit including supply of items.				-	
	For 15/16/20 AMP Power sockets	Points	4	164.34		
70	Circuit/Sub main wiring in 20/25 mm PVC conduit including supplying of all conduits, clamps, wires, complete				-	
a)	2x1.5 sq. mm + 1x1.5 sqmm earth wire	RM	200	7.42		
b)	2x2.5 sq. mm + 1x2.5 sqmm earth wire	RM	200	8.98		
71	Point Wiring of the following points (including supply of Wires, conduits, clamps, boards, other misc. items) with 1.5 sq.mm colour coated FR PVC insulated copper conductor wires as per IS- 650/1100 volts grade in surface/recessed PVC conduits (medium grade) including laying of 20 SWG GI wire, conduit fitting, fixing of modular type control switches (Anchor make) in suitable sized 20 SWG GI box with 3 mm phenolic laminated sheet having provision for fan regulator, 5 Amp switch socket (supplied above) included in scope.				-	
a)	Light Point	Points	11	32.82		
b)	Twin control light point	Points	4	50.11		
c)	Wiring for 5/6 amps socket points	Points	20	37.98		
d)	Wiring for ceiling fan and regulator	Points	13	37.98		
e)	Wiring for exhaust fan.	Points	5	32.82		
f)	Call bell points	Points	20	32.82		
g)	1 x 250 W HPSV out door type fitting. One number 10 A DP switch to be used for controlling 2 fittings. D.P Switches to be fixed on outside of the store shed wall	Points	4	46.59		
72	Supply and Laying of following type of PVC Insulated, PVC armoured standard aluminium conductor cable (LT Cable) confirming to IS:1554-1976 (part 1), glanding with single compression gland, termination of both end in DB & SFU. The cable has to be laid underground on sand cushion including backfilling, suitable clamp, clamping on surface including all materials etc. complete.This includes road crossing for which suitable GI Pipe to be provided by the contractor.				-	

Sl. No.	Description of Item	Unit	QUANTITY	FACTOR- F	RATE (Rs.) = FACTOR (F) * A / 100000 (Rounded off to two place after decimal)	AMOUNT (Rs.) = RATE *QUANTITY
	2c/3c/4c upto 16 sq.mm armoured cable	RM	50	30.33		
73	Supplying and Fixing Earthing Flat 25 x 6 for Earthing 0.5 mtr below ground as strip earth electrode including soldering as required.	RM	20	6.61		
	Sub Total B			-		
C	FURNISHING			-		
74	Providing and fixing 18 mm thick Pre-laminated flat pressed 3 layer (medium density) particle board or graded wood particle board IS : 3087 marked, with one side decorative and other side balancing lamination Grade I, Type II exterior grade IS : 12823 marked, in shelves/kitchen cabinets/cupboards, etc with screws and fittings wherever required, edges to be painted with polyurethane primer all complete with hinges, handles,etc	Sqm	5	75.41		
75	Providing & fixing following type of window curtains complete with all hooks, guides, rods & other operating accessories:			-		
a)	Verticle blinds of approved shade, make & profile profile	Sqm	10	91.00		
b)	Roller Blinds of approved shade, make & profile profile	Sqm	10	91.00		
76	Providing and fixing text letters/logos as per drawings, instuctions and specifications of Engineer I/C as detailed below:			-		
a)	Opaque front, backlit (white light), powder coated (powder coating of matching shade) Aluminium framed logo/letter text in English/Hindi alphabets of approx. 1'x1' extents and depth as approved. All wiring for backlighting, light fixtures as approved, fixing of letters all complete in all respect shall be in contractors scope.	Letter	50	30.33		
b)	Stainless steel text letters of approx. 200x200 mm extents and depth as approved in English/Hindi alphabets in satin/matt finish all complete including fixing on wall in all respect shall be in contractors scope.	Letter	50	18.20		
	Sub Total C			-		
	TOTAL OF ALL THE ABOVE WORKS (Rs.)-	'X'		-		
NOTES:						
1	Bidder's quoted price above shall be complete in all respect for the full scope defined in specification and in accordance with all terms & conditions of tender.					
2	Contractor shall fully understand description and Specifications of items mentioned in BOQ.					
3	Conditional price bids with any deviation / clarification etc. are liable to be rejected. No cutting / erasing / over writing shall be done.					
4	Quantities mentioned in rate schedules are approximate only and liable for variation on either side depending upon site / design requirement. The tentative contract value (CV) of entire scope of work shall be calculated as per finally quoted / accepted rates & the Quantities indicated in BOQ cum Rate Schedule .					

Sl. No.	Description of Item	Unit	QUANTITY	FACTOR- F	RATE (Rs.) = FACTOR (F) * A / 100000 (Rounded off to two place after decimal)	AMOUNT (Rs.) = RATE *QUANTITY
5	Contractor's total quoted price as per rate schedule will be taken as tentative only. The contractor undertakes to execute actual quantities as per advice of BHEL Engineer and accordingly the final contract price shall be worked out on the basis of quantities actually executed at site and payments will also be regulated for the same.					
6	In case of any mis-match in rate and amount on price discrepancy, the same will be dealt as per clause no. 1.4 of GCC.					