

**CHHOTAUDEPUR MUNICIPALITY, CHHOTAUDEPUR**

**NAME OF WORK :- ESTIMATE FOR RENOVATION WORK OF DARBAR HALL AT CHHOTAUDEPUR.**

**SCHEDULE-B1**

<b>Item No.</b>	<b>Qty.</b>	<b>Description</b>	<b>Total Rate</b>	<b>Unit</b>	<b>Amount</b>
1	119.00 Smt.	Dismantling doors, windows, ventilators etc. (wood or steel) shutters including chowkhats architraves, holdfasts and other attachment etc. complete and stacking them within all lead and lift.(i) Not exceeding 3 Sq.M. in area.	187.52	Smt.	22314.88
2	9.00 Each	Dismantling sanitary fittings like wash basin . W.C. pan Indian and European type, flushing tank etc. including stacking the materials with all lead and lift.	404.37	Each	3639.33
3	207.00 Smt.	Dismantling tiled of stone floors laid in mortar including stacking of serviceable materials and disposal of unserviceable materials with all lead and lift.	47.94	Smt.	9923.58
4	2315.00 Smt.	Removing dry or oil bound distemper by a washing and scraping and sand papering the wall surface smooth including necessary repairs to scratches complete.	11.26	Smt.	26066.90
5	30.70 Smt.	Applying two coats of putty & two coats of primer of approved brand and manufacture on new wall surface to give an even shade including thoroughly brushing the surface free from mortar dropping and other foreign matter and sand papered smooth.	40.59	Smt.	1246.11
6	24.00 Smt.	Distemping (Three Coat) with oil bound washable distemper of approved brand and manufacture and of required shade on wall surfaces to give an even shade over and including a primer coat with alkali resistance primer of approved brand after thoroughly brushing the surface free from other foreign matter and also including preparing the surface even and sand papered smooth.	101.75	Smt.	2442.00

7	441.00 Smt.	Distempering (Three Coat) with oil bound washable distemper of approved brand and manufacture and of required shade on Ceiling & Sloping Roof surfaces to give an even shade over and including a primer coat with alkali resistance primer of approved brand after thoroughly brushing the surface to give and free from other foreign matter and also including preparing the surface even and sand papered smooth.	113.17	Smt.	49907.97
8	611.00 Smt.	Finishing wall with Weather Proof Acrylic Emulsion Exterior Paint on wall surface (three coat) to give an even shade and of approved brand and manufacture including thoroughly brooming and brushing the surface to remove all dirt, and remains of loose powdered material.	117.40	Smt.	71731.40
9	111.00 Smt.	Providing and fixing 35 mm thick panelled, glazed or panelled and glazed shutters, for Doors windows and clearstory windows including anodised aluminium But hinges with necessary screws and Indian teak wood shutters with. (A) Plywood sheet panels. Do For Panel Door and Partly Panel Partly Glazed Window.	3581.03	Smt.	397494.33
10	7.00 Smt	Providing and fixing FRP frame size 125x65 mm and 35mm thick FRP shutter with wood grain raised paneled design finish shutter having extra reinforcement on sides & edges in Gel coat finish. The core of the shutter & frame is to be filled up with injected polyurethane foam done in situ along with embedded wooden pieces for stiffening & also taking hinges & fixtures. The whole FRP frame & shutter is to be water proof weather proof, termite proof & resistance to mild acid/alkali. Rates are to be inclusive of S.S hinges with fastener sleeve & aluminium fixtures & fastenings.	2019.98	Smt.	14139.86
11	1734.00 Kgs.	Providing and fixing M. S. grills of required pattern to wooden frames of window etc. with M. S. flats at required spacings and frame around square or round bars with round headed bolts and nuts or by screws. (A) Plain Grills.	105.18	Kg.	182382.12
12	57.00 Smt.	Applying Priming Coat on new steel and other metal surface by thoroughly cleaning, oil, grease and scoured with brushes fine steel wool, scrapers and sand paper with ready mixed priming paint brushing red lead and Painting two coats with synthetic enamel paint, brushing to give an even shade including cleaning the surface of all dirt, dust and other foreign matter.	102.66	Smt.	5851.62

13	13.00 Smt	P & L 24" x 24" vitrified 8 mm thick tile flooring over 20 mm (average) base of cement mortar 1:6 ( 1 cement: 6 coarse sand) on new surface or fixing on existing flooring by adhesive material including dismantling of existing flooring and jointed with color cement slurry including finised with flush pointing & cleaning the surface etc. complete for antiskit.	1432.78	Smt	18626.14
14	174.00 Smt.	Providing and laying coloured glazed tiles of the size 300 mm x 200 mm x 8 mm / 300 mm x 450 mm x 8 mm in skirting, risers of steps and dedo on 10 mm. thick cement plaster 1:3 (1 cement : 3 coarse sand) & jointed with white cement slurry.	1452.79	Smt.	252785.46
15	2.00 Smt	Providing and fixing glazed louvered glass windows and ventilators with teak wood frame 10cm. x 7cm. size including 3 coats of oil painting to wood work etc.complete.	4202.12	Smt.	8404.24
16	255.00 Smt	Providing and laying polished Granite tiles 18 mm thick in risers of steps, skirting Dedo and pillars laid on 10 mm thick cement mortar 1 : 3 (1 cement : 3 coarse sand) and jointed with gray cement slurry mixed with pigment to match the shade of slab including rubbing, polishing, Moulding etc. complete. For Flooring, Doors & Windows Edges.	1631.15	Smt	415943.25
17	90.00 Rmt.	Providing and fixing 1.20 Metre high fencing with 2.0 Metre long M.S. Angle posts 40mm x 40 mm x 6 mm and oil painting 3 coats fixed at 2.5 Mt,C/c. with five Horizontan lines and two diagonals of galvanised steel barbed wire weighting 9.38 Kg. per 100 Metre, strained and fixed to posts with G.I, staples including fixing the posts in ground with 0.5 M x 0.5.M x 0.5 M. block in C.C1:5:10 etc complete.	391.93	Rmt.	35273.70
18	4.00 Nos.	<b>Plumbing</b> Providing and fixing wash down water closet European type W.C. Pan with integral "P" or "S" trap and PVC flushing cistern with a pair of C.L.I. or Mild Steel Brackets, complete with fittings such as lead value siphon, 15mm nominal size brass ball value with polythene float, C.P. Brass handle unions and couplings for connections with inlet, outlet and over flow pipes, 40 mm dia flush bend including cutting holes in walls and making good the same connecting the flush bend with cistern and closet etc. comp. incl plastic sheet cover including jointing trap with pipe in C.M. 1:1 ( Cement : 1 fine sand) (a) Viterous China - (i) In White Color.	1976.57	Nos.	7906.28

19	3.00 Nos.	Providing and fixing washbasin with single hole for pillar tape with C.I. or M.S. brackets painted white including cutting holes and making good the same but Including all Necessary fittings. (A) vitreous china : (ii) Flat back washbasin 550 mm x 400 mm size (i) In white colour	2078.58	Nos.	6235.74
20	2.00 Nos	Providing and fixing 430mm x 260mm x 350mm size white earthen ware flat back or corner type urinal of approved quality including. Connections the urinal with waste pipe, stop tap etc. complete.	1268.56	Nos.	2537.12
21	16.00 Nos	Providing and fixing screw down bib tap of following size (A) Brass screw bib tap polished bright - 15mm	186.83	No.	2989.28
22	2.00 Nos.	Providing and fixing gun metal chek or non return fullway wheel valve. (A) 15 mm Dia.	186.83	No.	373.66
23	6.00 Nos.	Providing and fixing 100 mm dia sand cast iron grating for gully, floor or nanhi trap.	36.98	No.	221.88
24	10.00 Nos.	Providing and fixing Cast Iron (Spun nahni trap of the 100mm. Inlet and 50mm. Dia outlet having self cleaning design with C. I. Screwed down or hinged grating and stainless steel jali at F.F.I. Including cost of making cuts in walls slab floor etc. and making them as per original testing etc. complete as directed by Engineer-in-charge.	631.02	No.	6310.20
25	4.00 Nos.	providing and fixing SW gully trap with CI grating brick masonry chamber and water tight CI cover frame of 300mmx300mm size inside with standard weight. Square mouth Traps (A) 100x100mm size P trap type.	1292.19	No.	5168.76
26	10000.00 Lits.	Supplying And fixing PVC water tank of ISI make including delivery at site, supply and fixing inlet, outlet, overflow, ballcock, drainage sleeves of specific size, with necessary neoprene gasket / packing / washer, G.I.washer, and checknut etc. compt as directed on terrace,loft,bathroom etc in any height.The rate shall be include for fixing additional accessories supplied by supplier accessories.	3.95	Lits.	39500.00

27	2.00 Nos.	<p>Providing, laying and constructing brick masonry chamber for underground C. I. Inspection Chamber and bends with bricks having crushing strength not less than 35Kg./Cm<sup>2</sup> on C. M. (1:5) (1 cement, 5 Sand) C. I. Cover with frame (light duty) of 455mm x 610mm internal dimension total weight of cover with frame to be not less than 38.00 Kgs. (Wt. of Cover 38 Kgs. and wt. of Frame 15 Kgs.) with R.C.C. top slab with 1:2:4 (1 cement, 2 Coarse sand, 4 graded stone (Kapachi) ) foundation concrete 1:5:10 (1 cement, 5 Coarse sand, 10 brick bats of 40mm nominal size) inside plaster 15mm. thick with C. M. 1:3 (1 cement, 3 Coarse sand) finished smooth with a floating coat of neat cement slurry on walls and bed concrete including curing etc. complete as directed by Engineer-in-charge.</p> <p>Inside Dimentions 600mm x 850mm and 450mm deep for pipe line with Three or more Inlets.</p>	7180.44	No.	14360.88
28	30.00 Rmt	<p>Providing, laying and jointing in true line and level 32 mm dia U.P.V.C. Pipe (SCH-40) for cold water including fittings make as Prince/ supreme/astrol/finolex or equivalent as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two meter c/c. or shall be concealed as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.</p>	119.15	Rmt	3574.50
29	30.00 Rmt	<p>Providing laying and jointing in true line and level 25mm dia. U.P.V.C. Pipe ( SCH- 40) for cold water including fittings as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be concealed as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.</p>	91.84	Rmt	2755.20
30	30.00 Rmt	<p>Providing, laying and jointing in true line and level 15 mm dia U.P.V.C. Pipe (SCH-40) for cold water including fittings make as Prince/ supreme/astrol/finolex or equivalent as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two meter c/c. or shall be concealed as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.</p>	72.65	Rmt	2179.50

31	20.00 Rmt	Providing, laying and jointing in true line and level 110 diameter U.P.V.C (Type B) conforming to IS 13592-1992 with one end plain and other end socketed with rubber ring, & fittings conforming to ISI 14735-1999 of approved make for drainage system pipe line, pipe shall be jointed with each other with rubber lubricant, pipe shall be fixed on wall using of PVC clamp of the size 110 mm diameter x 149 mm length x 145 mm height at every 2000 mm center to center or shall be concealed in walls as directed including necessary fittings such as bends, shoes etc. including testing of pipes and joints and jointed with adhesive solvent cement including cost of all materials.	856.03	Rmt.	17120.60
32	360.00 Smt.	ALU GRID CEILING: Providing & Fixing 50x50x2 mm thk. Jindal make aluminium angle fix with necessary anchor fastener on slab bottom longer span with accessories such as nuts, bolts, washer, fasteners etc as per architect's drawings & instructions incl. 83-100x2 mm thk. jindal make aluminium patti bolting with angle and fitting the same with necessary stainless steel bolts etc. at top & bottom with accessories such as nuts, bolts, Washer, Fasteners etc 600mmX600mm Semi Perforated Gypsonic Panel, laid on true horizontal level suspended inter locking metal grid of hot dipped galvanized steel sections (galvanizing @120 grams per sqm including both side) consisting of main 'T' runner suitably spaced at joints to get required length and size of 24X38mm made from 0.30 mm thick (minimum) sheet, 1200mm centre to centre, and cross 'T' of size 24X28mm made out of 0.33mm (Minimum) sheet spaced 1200mm along spaced between main 'T' at 600mm centre to centre to form a grid of 1200X600mm and secondary cross 'T' of length 600mm and size 24x28mm made of 0.30 mm thick (Minimum) sheet to be interlocked at middle of the 1200X600mm panel to form grid of size 600X600mm resting on periphery walls/partitions on a perimeter wall angle pre coated steel of size (24X24X3000mm made of 0.40mm thick (minimum) sheet.	1875.00	Smt.	675000.00
33	16.00 Nos.	<b>Electric</b> Providing and erecting approved make split air-conditioning unit consisting of copper condensing unit with fan motor, hermetically sealed rotary compressor with accessories etc. duly connected separately erected evaporating unit and blower motor with its accessories by means of extra supplied proper insulated copper tubing, drain PVC pipes suitable for ( cost includes powder coated Stand, Eco Friendly green gas charging, 15A plug top & Remote Control) with necessary core cutting.(b) for 1.5 ton capacity	36819.55	Nos.	589112.80

34	4.00 Nos.	Providing and erecting approved make split air-conditioning unit consisting of copper condensing unit with fan motor, hermetically sealed rotary compressor with accessories etc. duly connected separately erected evaporating unit and blower motor with its accessories by means of extra supplied proper insulated copper tubing, drain PVC pipes suitable for ( cost includes powder coated Stand, Eco Friendly green gas charging, 15A plug top & Remote Control) with necessary core cutting.(1)For ISEER Range (KWH/KWH)(3.1 to 3.99) (a) for 1 ton capacity	30713.09	Nos.	122852.36
35	10.00 Nos.	Supply, installation, testing and commissioning of 54 LED RGBW DJ Par Stage Light, Model KJH-101, having 54 high-intensity LEDs with RGBW color mixing, suitable for stage/event lighting applications, complete with mounting bracket, power cable, control compatibility and all necessary accessories as required.	5553.99	Nos.	55539.90
36	90.00 Pt.	<b>POINT WIRING</b> Point wiring for Light / Bell with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length , in below type of pipe erected with 6A Modular type switch / bell push & accessories and earth continuity of following type, erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured/metallic/white front plate modules erected on / in wall / ceiling as per pipe erected, with necessary Lamp holder/ceiling rose / H.D.Connector as directed. (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete Cat. III	485.81	Pt.	43722.90
37	23.00 Pt.	Point wiring for Tissino / Modular secondary light point with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires, in below type of pipe to be erected complete with earth continuity and necessary connection with primary light with accessories erected on Metal / PVC / wooden box covered with 3 mm thick PC(Polycarbonate) / Acrylic sheet for open / concealed wiring. with necessary Lamp holder / ceiling rose / H.D.Connector as directed. Note:- Maximum up to 6 mtrs length, excess will be considered as Mains for Secondary Point. (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete	167.66	Pt.	3856.18

38	30.00 Nos.	Point wiring for FAN with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (Green) both are of .ISI marked 1.1 KV Grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in below type of pipe erected with 6A Modular type switch and hum free EME step type electronic fan regulator mounted and accessories with earth continuity of following type erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured/metallic/white front plate modules erected on / in wall / ceiling as per pipe erected. with necessary ceiling rose / H.D.Connector as directed. (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete. Cat. II	654.48	Nos.	19634.40
39		Point wiring for Individual Plug with & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in below type of pipe erected complete with Modular type switch & 5 pin Plug erected on PVC / Metallic/Wooden box covered with appropriate front plate modules erected on / in wall / ceiling as per pipe erected with following type of accessories.  [I] For 6A Plug and 6 a switch with 2-1.5 sq.mm Cu. Wire from nearby switchboard/mcb db board (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete Cat II	493.89	Nos.	14816.70
40	25.00 Nos.	[II] For 16A Plug and 16 amp switch with 2-2.5 sq.mm Cu. Wire from mcb db board. (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete Cat II	719.12	Nos.	17978.00
41	30.00 Pt.	Point wiring for on board Looped Plug with 6A Modular type switch & 5 pin socket erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate modules erected on / in wall / ceiling with following type accessories Cat. III	257.55	Pt.	7726.50
42	23.00 Nos.	Point wiring for Two Way Controlled Light Point with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (green) both are of .ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires erected in below type of pipe with 6A Modular type switches and following type of accessories erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate modules erected on / in wall / ceiling as per pipe erected. with necessary batten/angle holder or ceiling rose or H.D.Connector as directed. (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete CAT. III	603.98	Nos.	13891.54



43		Providing following type of Modular Type Accessories mounted with PVC / metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate , modules erected with necessary connections as per site situation directed by Engineer In charge.			
	2.00	(1)One No. SP 6 Amp. Cat.III	151.50	Nos.	303.00
	2.00	(2) One No 5 pin plug Cat.III	151.50	Nos.	303.00
	2.00	(3) Two Pin/RJ-11 [A] For One Gang Telephone Socket Cat.III	160.59	Nos.	321.18
	2.00	(4) TV Co-axial Socket outlet Cat.III	160.59	Nos.	321.18
	2.00	(8) Computer RJ-45 socket Cat.III	160.59	Nos.	321.18
	2.00	(7) Blank Plate Single Cat.III	25.25	Nos.	50.50
	2.00	(9) 16 Amp. SP one way switch Cat.III	180.79	Nos.	361.58
	2.00	(10) 6/16Amp. Universal socket Cat.III	199.98	Nos.	399.96
	Nos.				
44	2.00 Mtr.	Providing and erecting ISI mark Medium class RIGID PVC PIPES of following size complete to be erected on/in wall or ceiling erected with necessary PVC fittings & Junction boxes fixed with adhesive solution & Clamps with following dia of pipes, in approved manner as directed (b) 25 mm			
			33.33	Mtr.	66.66
45		Providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected concealed in /flushed on wall/ceiling, with 1.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size (A) With medium class Rigid PVC pipe and accessories			
	10.00 Mtr.	(A) with medium class Rigid PVC pipe and accessories			
	10.00 Mtr.	(a) 2 wire 1.5 sq. mm	62.62	Mtr.	626.20
		(b) 2 wire 2.5 sq. mm	82.82	Mtr.	828.20
46	5.00 No.	Supplying & erecting M.S. Box having 16 Gauge painted with red oxide or Heavy duty PVC box erected flushed on wall or concealed in wall with necessary plastering & finishing as directed of following size. (b) 175 mm x 100 mm x 75 mm(d)			
			76.76	No.	383.80
47		Providing and erecting Sheet Steel powder coated MCB distribution board - flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, Conforms to IS 8623-1 & 3, IEC 61439-1 & 3 without MCB to house appropriate nos. of MCBs.(The DBs should be used of same company of MCB to be used) suitable for (B) three phase incoming and single phase horizontal type outgoing Per phase isolation type (PPI) (b) sheet steel double door			
	8.00	(iv)12 way	1152.41	No.	9219.28

	8.00 No.	(iii)8 way	1492.78	No.	11942.24
48	2.00 No.	Providing & erecting Switch board for Computer or electric apparatus consisting of following modular type accessories mounted with PVC / Metallic concealed/open box with single mounting base frame covered with textured/metallic /white front plate,modules erected with necessary connections as directed 1 no. 6A/16A universal plug-switch combined. 3 nos. 6A Switch 3 nos. 6A 5 pin Plug For Modular Type Accessories Cat. III	1133.22	No.	2266.44
49	150.00 Mtr.	Supplying & erecting approved make LAN cable of following size in existing pipe as per direction [C] CAT - 6	47.47	Mtr.	7120.50
50	2.00 No.	Supplying & erecting Approved make call bell indicator with buzzing sound and Red light indicating lamp with Red light button to attend the call suitable for 240 v 50 c/s supply to be erected.	148.47	No.	296.94
51	3.00 No.	Supplying & erecting approved make Telephone Cable electrolytic copper conductor PE insulation twisted in two pairs, & wrapped with FRLS PVC tape & sheathed with FRLS PVC or HFFR outer Jacket suitable for telephone wiring & confirming to C-DOT erected in existing pipe. of following size of conductors & nos.of pairs. With necessary connections. [A] Conductor Size 0.5 mm (2) Two Pairs	20.20	No.	60.60
52	2.00 No.	Supplying & erecting Electronic Type Cordless Call Bell erected on PVC/Metal board having portable bell push working on D.C. & bell on 230V A.C. supply with cells / battery	250.48	No.	500.96
53	20.00 No.	providing and erecting Miniature circuit breaker single pole 6A to 25A suitable to operate on 240 V A.C. system and having breaking capacity 10 KA to be erected in existing box. confirming to IS 8828/1996 with ISI Mark Cat.III	112.11	No.	2242.20
54		Providing & erecting 415 V MCB Four Pole for Motor & Inductive Load (C Curve) having 10KA breaking capacity & confirms to IS :8828 in existing box having following capacity			
	20.00 No.	(a) 6 to 32 Amp. Cat.III	595.90	No.	11918.00
	5.00 No.	(b)40 Amp. Cat.III	668.62	No.	3343.10
	5.00 No.	(c)63 Amp. Cat.III	737.30	No.	3686.50

55		providing and erecting Approved make RCCBs conforming to IS: 12640 and having sensitivity of 30 mA and Short Circuit withstand capacity of 10 KA and suitable for operation on single phase 240 V,50Hz. having characteristic of quick action & tripping with all advance feature & do not incorporate any electronic component. for following Max. rating erected as directed			
	5.00	(i) 25 Amps.DP Cat. III	1969.50	No.	9847.50
	5.00	(ii) 40Amps. DP Cat. III	2235.13	No.	11175.65
	No.				
56	5.00	Supplying & fixing box for housing RCCB + MCB combination made of 18 SWG sheet steel duly powder coated with gasket, dust & vermin proof bakelite shield two earthing terminals for following type of RCCB, RCCB + MCB [b] For 4 Pole			
	No.				
			446.42	No.	2232.10
57	5.00	Providing and erecting Approved make RCCBs conforming to IS: 12640 and having sensitivity of 30 mA and Short Circuit withstand capacity of 10 KA and suitable for operation on 3 phase and neutral 415V,50Hz. having characteristic of quick action & tripping with all advance feature & do not incorporate any electronic component for following Max. rating erected as directed. [f] 63A, 4 pole Three Phase Cat. II			
	No.				
			2834.06	No.	14170.30
58	5.00	Supplying and erecting triple pole & neutral 440V/ 500V panel mounting Aluminium Busbars with four equal Nos. of bus having current density not more than 0.8 Amp. / sq.mm (Rated current / cross section area) duly wrapped with colour insulating tape for phase sequence of following current carrying capacity, erected with necessary bus bar supports /insulators, main cable socket to each busbar,erected in existing cubical panel with necessary connections. (D) Suitable for 400 Amp. Capacity			
	Rn.Mt.				
			2204.83	Rn.Mt.	11024.15
59	10.00	Providing and erecting required size Aluminium strip for earthing of H.T. , OCB / ACB / Transformer, LT panel board, Motors etc. using copper clamp.			
	Kg.				
			225.23	Kg.	2252.30

60	2.00 Nos.	<p>Supplying &amp; erecting earth pit of minimum bore dia.150mm size approved make Earthing Electrode consisting Pipe-in-Pipe Technology as per IS 3043-1987 made of corrosion free hot dipped G.I.Pipes having Outer pipe dia of 50mm having 80-200 Micron galvanising, Inner pipe dia of 25 mm having 200-250 Micron galvanising, connection terminal dia of 12mm with constant ohmic value surrounded by highly conductive compound with high charge dissipation suitable for following type of applications with chamber and heavy duty cover. (A)(approved make OEM has to submit test certificate including value of earth resistance of installation duly stamped and signed by agency and officer Incharge has to ensure the value of earthing resistane mentioned in test Certificate) &amp; having back filling compound of (B) Inner chemical (CCM Compound)- Resistivity:- 0.2 ohm / meter testing as per IEC 62561-2017, Voltage drop:- &lt; 1 volt at no load &amp; dry form, Sulphar content:- &lt;2%(C) Back fill Compound :- Earthing compound should be capable to retain moisture for long time Necessary test report must be submitted by Agency.</p> <p>(c) For Electrical Installation covering Transformer Neutrals, Lightning arrester Earthing, A.C.Plant &amp; Sensitive Computer System(like Automation, SCADA) i.e independent Earthing in normal soil.</p> <p>Length of Pipe : 3.00 mtrs</p> <p>Back filling Compound :2 nos Bags of 25 Kg.</p>	8636.51	Nos.	17273.02
61	2.00 Nos.	Providing & erecting 415 V MCB three Pole for Motor & Inductive Load (C Curve) having 10KA breaking capacity & confirms to IS :8828 in existing box having following capacity (b)40 Amp. Cat.III	638.32	Nos.	1276.64
62		Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables			
	5.00	(C) 3 1/2 core 50 Sq. mm ( 25 Sq.1/2 mm core)	284.82	Mtr.	1424.10
	5.00 Mtr.	(D) 3 1/2 core 70 Sq. mm ( 35 Sq. mm 1/2 core)	378.75	Mtr.	1893.75
63	350.00 Mtr.	Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand Copper conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables (A) 2 core 2.5 Sq. mm	178.77	Mtr.	62569.50

64	200.00 Mtr.	Providing and erecting XLPE (IS:7098)(I)-88 ISI armoured cable multistrand / Solid Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables (B) 4 core 6 Sq. mm	126.25	Mtr.	25250.00
65	30.00 Nos.	Supply, Installation, Testing and Commissioning of suitable sweep, BEE 5 Star rated, Ceiling fan with Brush Less Direct Current (BLDC) permanent ferrite magnet Motor, class of insulation: B, Rust free 3 nos. Aluminium blades, 2 nos. canopies, shackle kit with earthing provision, copper winding, Power factor not < 0.9, Service Value (CMM/W) minimum 6.85, Air delivery minimum 215 CMM, 350 RPM, 230v (tolerance as per IS : 374-2019), THD < 10%, with remote unit for Speed Control and all remaining accessories including safety pin, nut bolts, washers, temperature rise = 75 degree C (Max.), suitable for 140 to 285 Voltage and rectifier circuit with surge, over current and overload protection , 50 Hz, Single phase AC Supply, earthing etc. Complete as required.[ Make shall be approved by Engineer in Charge] (B) 1200 mm Sweep (48")	2885.57	Nos.	86567.10
66	4.00 Nos.	Supplying & erecting single phase approved make industrial exhaust fan suitable for medium duty ring mounted low noise operation suitable for medium duty having following dia size and maximum speed in RPM [A] 305 mm dia 900 RPM Cat.II	2054.34	Nos.	8217.36
67	30.00 Nos.	Supplying and erecting 19 / 20 mm. nominal bore Medium Class M.S. Pipe down rod erected duly painted for fan complete with proper insulation without leakage and earthing.	108.07	Nos.	3242.10
68	30.00 Nos.	Supplying & erecting fan hook box of 10 mm M.S. round bar bounded to the RCC bars up to 50mm length each side and pierced through a 16 Gauge M.S. box / Heavy Duty PVC box complete erected concealed in Ceiling with necessary finishing.	108.07	Nos.	3242.10
69	30.00 Nos.	Providing 2.5mm.thick laminated acrylic sheet to cover the fan hook or Fan box.	18.18	Nos.	545.40
70	4.00 Nos.	Providing suitable M.S. louver shutter of the Exhaust fan.	368.65	Nos.	1474.60

71		<p>Supplying and erecting LED indoor fittings with LEDs of wattage 0.2 Watt to 0.5 Watt assembled on single MCPCB, with housing used as a heat sink shall be made of thick sheet Steel conforming to IS: 513/CRCA/aluminium pressure die cast powder coated and high U.V. &amp; corrosion resistance with diffuser housed in aluminium casted body with company mark/name 160V to 270V, Power Factor more than 0.95, THD &lt; 15 %, CCT 3000 K to 6500K, Luminaire efficacy &gt; 85 lumens/watt , LED driver efficiency &gt; 85 % ( fitting required LM-79 &amp; LM-80 Certificates)(NOTE: Below description have shown ranges of Wattage capacity of LED fittings. The Engineer incharge may select any wattage capacity between the ranges shown.) (A) Square/ Circular shaped Surface/Recessed Mount Downlight with provision for spring loaded mounting clips complete IP20 (iv) 22-24 watts, Surge-2 KV Cat-III (ii) 11-15 watts, Surge-2 KV Cat-III (i) 5-9 watts, Surge-2 KV Cat-III (B) LED Panel Light with provision for Plane front frame with translucent cover fixed to housing complete. IP20 (vii) from 45 to 48 watts, 24" x 24", Surge-2 KV Cat-III</p>				
	25.00		758.51	Nos.	18962.75	
	10.00		427.23	Nos.	4272.30	
	10.00		220.18	Nos.	2201.80	
	40.00		2091.71	Nos.	83668.40	
	Nos.					
72	10.00 Nos.	<p>Supplying and erecting approved make of tube fitting with One no T-5 tube 24/ 28 W with Electronic ballast with each tube separately THD less than 10 &amp; built in adaptors, GI / PVC housing &amp; mirror optic reflector, suitable to work on 120V - 300V, A.C. supply with connector and adapter if required. [Make of fitting &amp; tube may be differ &amp; fitting shall be providing with tube]. Cat III</p>	480.76	Sq.Mtr	4807.60	
73		<p>Providing &amp; erecting weather proof, dust &amp; vermin proof, floor mounted front operated indoor type cubical panel board having IP-64 protection made from 14 SWG thick CRC M.S. sheet for outer body &amp; doors, 16 SWG thick CRC M.S. sheet for internal partitions with necessary supporting angles, flats including cutting, bending, drilling, welding, riveting with internal partitions &amp; cable alley as per requirements &amp; instruction of engineer-in-charge with supply and erection of switch gears, BUSBARS, with suitable size of inter connecting PVC copper wire / copper-aluminium strips, rubber grommets, rib, bakelite control fuses for measuring instruments, earth bus &amp; earth bolts, foundation flange - bolts-base Plates, sufficient nos. of hinged doors, handles with locking arrangement and rubber gasket complete. The Panel shall be painted with epoxy powder coating. (The rates includes the cost of switchgears, bus bars, inter connecting mains &amp; Copper Aluminium strips, meters, Fuses etc.), as per SLD, as per detailed specification. The fabrication drawings and bill of material shall be approved with consultant before fabrication.(A) The standard companies switch gear shall be used and only manufacturers at CPRI approved factory as per IEC61439</p>				

for beneficial use.

(A)MAIN PANEL

Providing & erecting weather proof, dust & vermin proof, floor mounted front operated indoor type cubical panel board necessary IP-42 and above protection as per approval from engineer incharge made from 14 SWG thick CRC M.S. sheet for outer body & doors, 16 SWG thick CRC M.S.sheet for internal partitions with necessary accesories , supporting angles/ flats channel including cutting, bending, drilling, welding, riveting with internal partitions & cable alley as per requirements & instruction of engineer-in-charge with erection of supplied switch gears, BUSBARS, suitable size of inter connecting PVC copper wire / copper-aluminium strips, rubber grommets, rib, bakelite control fuses/MCB for measuring instruments, earth bus & earth bolts, foundation flange bolts-base Plates, sufficient nos. of hinged doors, handles with locking arrangement and rubber gasket,heavy duty end terminal connection,danger notice board,necessary ventilation,earthing strip complete. The Panel shall be painted with epoxy powder coating.

(The rates excludes the cost of switchgears, bus bars, inter connecting mains & Copper Aluminium strips, meters, Fuses etc. The dimension shall be measured excluding base beams) The panel shall be supplied with following approved manufacturers with following size.

	5.00 Sq.Mtr	(A) locally fabricated panel board (i) with 350mm depth	10468.65	Sq.Mtr	52343.25
74	4.00 Rn Mt.	Supplying and erecting triple pole & neutral 440V / 500V panel mounting Copper Busbars with four equal Nos. of electrolyte bus having current density not more than 1.6 Amp. / sq.mm (Rated current / cross section area) duly wrapped with colour insulating tape for phase sequence of following current carrying capacity, erected with necessary bus bar supports /insulators, main cable socket to each bar, erected in existing cubical panel with necessary connections. (A) Suitable for 100 Amp. Capacity	1961.42	Rn Mt.	7845.68
75	2.00 Nos.	Supply of Approved make Iron Clad or metal clad four pole change over switch 415V. confirming to IS of following capacity (B) 100 A / 125 A Cat III <b>(Panel Board)</b>	12240.19	Nos.	24480.38
76	4.00 Nos.	providing and erecting Approved make Four pole moulded case circuit breaker having breaking capacity ICU of 25 KA. at 415 V,having normal current rating up to 25 A to 100A. with Fixed thermal & magnetic release suitable to work on A.C. supply 50 c/s. with all internal connections & complete erected in existing 16 G.M.S. housing. ICS=100% of ICU only Cat III <b>(Panel Board)</b>	6173.12	Nos.	24692.48

77	4.00 Nos.	Supplying and erecting approved make panel mounting type Digital Voltmeter having 3 digits LED display, 0 to 750 AC Volts range erected on existing panel board with all connection, wiring etc .with manufacturers calibration certificate. <b>(Panel Board)</b>	1275.63	Nos.	5102.52
78	4.00 Nos.	Supplying and erecting approved make panel mounting type Digital Ammeter having 3 digits LED display, external CT operated, calibrated for 0 to 1000 Amps suitable to operate on 500 Volt AC , erected on existing panel board with all connection, wiring etc .with manufacturers calibration certificate. <b>(Panel Board)</b>	1558.43	Nos.	6233.72
79	2.00 Nos.	Supplying and erecting Ammeter / Voltmeter selector switch for 3 phase AC Supply 500 V on existing panel board with necessary connections. <b>(Panel Board)</b>	317.14	Nos.	634.28
80	2.00 Nos.	Providing & erecting L.T. Current Transformer with bar primary 50/5 to 1000/5 ratio 15 VA burden erected in existing CRCA box duly secured with insulating materials connected to the meter <b>(Panel Board)</b>	274.72	Nos.	549.44
81	30.00 Sq.mt	<p>Providing, fabricating, supplying and fixing heavy-duty custom-made FRP (Fiber Reinforced Plastic) canopy of approved shape, size and design as per site requirement. The FRP canopy shall be manufactured using high-quality polyester resin reinforced with fiberglass mats, having minimum thickness of 4-6 mm (or as specified), UV-resistant, weatherproof, corrosion-resistant and suitable for outdoor exposure.</p> <p>The canopy shall be supported on a structural frame made of MS/SS members (as specified), including cutting, bending, welding, grinding and finishing. The frame shall be treated with anti-corrosive primer and paint / or SS finish. The FRP sheet shall be properly molded/curved (if required) and securely fixed to the frame using SS fasteners, bolts, nuts, washers and sealant to ensure watertight installation.</p> <p>The canopy shall be firmly anchored to wall/RCC surface using anchor fasteners, including drilling, grouting and making good the surface. The item includes all materials, labour, tools, tackles, transportation, loading/unloading and complete installation as directed by the Engineer-in-Charge</p>	2525.00	Sq.mt	75750.00
					<b>Total, Rs.</b> <b>3825643.24</b> <b>Say, Rs.</b> <b>3825700.00</b>