

**PRICE BID OF ELECTRICAL WORKS SBI, CPPC, REVA PARISAR BHOPAL**

<b>S.N</b>	<b>Description of items</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate</b>	<b>Amount</b>
<b>1</b>	<b>ELECTRICAL WIRING</b>				
	Providing, fixing, testing and commissioning of POINT WIRING of any length for light point/Wall fan point/Exhaust fan point/ Call bell point/ including call bell/ including fan box( if required), 'S' type fan hook etc with 3 X 1.5 Sq.mm(P/N/E) PVC 650V/1100V Grade <b>FRLS WIRE</b> insulated copper conductor single core multi streded wire in 16 SWG(Medium Gauge) stove enamelled rigid steel conduit 20mm/25mm with conduit accessories like bend, junction box etc in concealed/surface manner as per site requirment with suitable Modular Switches/sockets with plate and Metal/PVC box, Scaddle, angle bracket (if required), 3 plate ceiling rose/bulb holder etc. The floor/roof/wall junction box shuold be of MS(heavy duty) box of suitable size and covered with Steel finish Steel cover sheet by screw tight and gasket to avoid water/dust insertion. <b>The item includes Circuit wiring from DB to the switch board with 3x2.5 Sq.MM.</b> The above wiring carried out surface or recess in wall/floor/roof should be cutting by cutter/chiesling, replastering, curing, painting with uniform and smooth finish by specilised workman ship and				
a	Providing and fixing of point wiring with above specifications. One light point controlled by one switch.	180	Nos.		
b	Providing and fixing of point wiring with same above specifications. Two light points to be controlled by one switch.	60	Nos		
C	Providing and fixing of ceiling fan point controlled as under	74	Nos.		
d	providing and fixing 6 Amps Plug Points with same specs as above and install along with same light switchboard	30	Nos		
e.	Master switch of <b>16 Amps( Only Grey/Golden/Wooden colour other than white colour)</b> to install alongwith same light switch board to control all light as a master switch ON/OFF in each switch board	20	Nos		
2	6 AMP. POINTS ON SEPARATE BOARD :Supply,fixing,testing and commissioning of 1 No 6 A Multi Socket with 1No. 6 A switch ( Modular type ) with cover plate , sheet steel box / PVC modular box etc on surface / concealed manner l/c electrical connections and	90	Nos		
3	Power Wring (6 / 16 AMP. POWER POINTS). Supply, fixing, testing and commissioning of 1 No 16 A switch & 1 No.six pin 6/16 Amp. Multi Socket ( Modular Type ) with cover plate , sheet steel box etc on surface / concealed manner l/c electrical connections and making good all the damages, painting, cleaning the site etc complete including all accessories as per site requirement and as	90	Nos		
4	SPECIAL POINTS : ( For Computers ). Supply, fixing, testing and commissioning of following Modular type switch socket with cover plate, PVC modular box on Surface / sheet steel box in concealed manner l/c electrical connections and making good all the damages, painting, cleaning the site etc complete including all accessories as per site requirement and as directed.	82	Nos		

5	<b>AC/Geyser Point (Single Phase).</b> Supply, Installation, Testing and commissioning of the surface / recess mounting A.C. / GEYSER power point with the followings : Metra Plug and Socket DBs with one Nos 20 Amp SP MCB, 20 Amp plug and socket with complete Enclosure plate and box.- 1 set i/c electrical connections and making good all the damages, painting, cleaning the site.	6	Nos		
6	<b>CIRCUIT WIRING :(FRLS WIRE)</b> Supply , installation, testing & commissioning of FRLS circuit wiring measured in numbers with suitable size of MS conduit 1.6 mm thick and 25mm dia. The wiring in MS conduit is as per IS code. The average length of wiring around between(25-30) Mtr.				
7. A	3 X 2.5 sqmm ( For UPS Circuit/6 amp Separate Board ) in suitable size of 16 SWG (MMS) steel conduit as per IS code.	42	Nos		
7.b	3 X 4.0 sqmm ( For AC/Power Circuit ) in suitable size of 16 SWG (MMS) steel conduit as per IS code.	50	Nos		
8	<b>UPS OUTGOING &amp; OTHER FRLS WIRING, As Per Requirement.</b>				
(a)	3 x 10 Sqmm copper multistrand FRLS wire in 25 mm 16 SGW (MMS) steel conduit.( UPS INPUT DB TO UPS)	40	R.Mtr		
(b)	3 X 1.5 Sqmm copper multistrand FRLS wire in suitable size of 16 SWG (MMS) steel conduit.	100	R.Mtr		
(c)	3 X 2.5 Sqmm copper multistrand FRLS wire in suitable size of 16 SWG (MMS) steel conduit.	50	R.Mtr		
(d)	3 X 4 Sqmm copper multistrand FRLS wire in suitable size of 16 SWG (MMS) steel conduit.	50	R.Mtr		
(f)	3 X 6 Sqmm copper multistrand FRLS wire in suitable size of 16 SWG (MMS) steel conduit.	280	R.Mtr		
9	<b>DISTRIBUTION BOARDS</b>				
	<b>All MCB to be "C" series</b>				
	Supply, installation, Testing and commissioning of the surface/recess mounting following ways MCB DB's 230/415 Volts with tinned copper busbar, neutral bar, earth bar, din bar detachable gland plate, interconnection and making good all the damages, painting, cleaning the site etc complete as required as per site requirement. All MCCB has braking capacity is 25KA and ALL MCB/ELCB has breaking capacity has 10 KA. Make of Materials Panel- As per IS Standards/CPRI Tested. DBs/MCCB/MCBs- Legrand/Siemens/Haggar/Schneider only ( Note:- Before Placing the Panel order, firstly it Passed by The Bank Authority, otherwise it will not considered)				

	<p>Supplying, installation, testing and commissioning of indoor type , sectionalised, compartmentalized, MV Panel board of suitable size fabricated from CRCA sheet of 2 mm thick for frame work,enclosure and doors, 3 mm thick for gland plates with stiffers where required, having vibration free structure chemically treated with seven tank process before painting for surface treatment and powder coated,with aluminum busbar with DMC / SMC busbar supports suitable for 3 Phase 415 V 50 Hz AC supply i/c providing and fixing the following switchgear mounted thereon complete with gaskets and interconnections, connection as per specification complete as required. ( The board shall be dust &amp; vermin proof with suitable degree of IP protection ) NOTE : All switchgears lcs shall be equal to 100% lcu. Sheet 14 swg : panel sides,upper,lower,and Ft.doors Sheet 16 swg : back side and compartments. Glande plates : 3 mm thick. Cable entry : Provision at bottom and upper sid</p>				
a	<p>PANEL-1 INCOMING SWITCHGEARS :(RYB LED Indicators for Both Main/DG) (i) 1 No. FP. 250 A , 25 KA MCCB with thermal magnetic trip unit , energy meter, Digital Voltmeter &amp; Digital Ammeter sutiable size of CTS, selector switches etc. C. OUTGOING SWITCHGEARS: (i) 1 Nos- 160 Amp TP MCCB for main with 300 amp bus bar with indicator (ii) 200 amp onload changeover with 1 Nos 160 amp 25 KA, TP MCCB for DG supply with 300 amp bus bar with indicator (iii) 125 amp TP MCCB with 300 amp bus bar for parallel connection with DG changeover UPS input ( Note:- Before Placing the Panel order, firstly it Passed by The Bank Authority, otherwise it will not considered)</p>	1	Nos		
b	<p>PANEL-2 .INCOMING SWITCHGEARS :(RYB LED Indicators for Both Main/DG) (i) 1 No. FP.125 A , 25 KA MCCB with thermal magnetic trip unit with digital voltmeter &amp; ammeter with suitable size of CTs, selector switch etc. C. OUTGOING SWITCHGEARS: (i) 1 Nos- 125Amp TP MCCB for main with 200amp bus bar with indicator. (ii) 160 amp onload changeover with 1 Nos 125 amp 25 KA, TP MCCB for DG supply with 200 amp bus bar with indicator (iii) 200 amp bus bar for parallel connection with DG changeover output ( Note:- Before Placing the Panel order, firstly it Passed by The Bank Authority, otherwise it will not considered)</p>	1	Nos		
c	<p>PANEL-3 ( AC OUTDOOR TYPE ELECTRICAL PANEL FOR VRF AC ) IP 65 with all necessary accessories INCOMING SWITCHGEARS :(RYB LED Indicators for Both Main) (i) 1 No. FP. 160 A , 25 KA MCCB with thermal magnetic trip unit with indicators etc. C. OUTGOING SWITCHGEARS: (i) 3 Nos- 100 amp, FP, RCCB for main with 200 amp bus bar with indicator.  ( Note:- Before Placing the Panel order, firstly it Passed by The Bank Authority, otherwise it will not considered)</p>	1	Nos		

d	250 amp FP MCCB Enclosure with 300 amp copper Bus bar with all necessary accessories that to be incooperate with existing LT panel.	1	Nos		
e	Supply & Installation of SDP(Surge Protector Devicve) for general protection of main Distribution Board Legrad Make Cat No. 412247 (3P+N) , 40 KA, T2- Imax 40KA/pole with complete wiring.	1	Nos		
f	Providing & fixing 6 way vertical load line double door D.B for UPS Input DB with 125 Amp. TP MCCB incomer and outgoing to be 4 Nos 32 amp TP MCB, 6 Nos 32 amp SP MCB	1	Nos		
g	Providing and fixing 8 way TPN double door DB for LIGHT /POWER POINTS with 63 Amp, RCCB, 100 mAcontrolling 24 Nos. 10/16/32 Amps SPMCBs. & Complete.	4	Nos		
h	Providing and fixing 6 way TPN double door DB for LIGHT /POWER POINTS with 63 Amp, RCCB, 100 mA , controlling 18 Nos. 10/16/32 Amps SPMCBs. & Complete.	4	Nos		
i)	Providing and fixing 4 way TPN double door DB for LIGHT /POWER POINTS with 63 Amp, RCCB, 100 mA controlling 12 Nos. 16/32 Amps SPMCBs. & Complete.	3	Nos		
j	Providing and fixing (18) way SPDB double door type For UPS points with 1x32 Amps DP, controlling 16 Nos, 16 AMP SPMCB	4	Nos		
k	Providing and fixing (12) way SPDB double door type For UPS points with 63 Amp, RCCB, 100 mA, controlling 10 Nos, 16 AMP SPMCB	1	Nos.		
l	Providing and fixing (8) way SPDB double door type For Light DB only for Emergency Lights like glow sign etc with 63 Amp, RCCB, 100 mA, controlling 6 NO.10 A./16 AMP SPMCB	1	Nos.		
i)	Providing and fixing (4) way TPN double door type For UPS INPUT with 63 Amp TPN, RCCB, 100 mA and 63 amp DP MCB- 3 Nos & 3 Nos, 32 amp SP MCB complete (E-lobby/UPS Output)	1	Nos.		
j	Providing and fixing of three phase Ekinox P-17 TEMPRA PLUG & SOCKET, 32 amp 3P RCCB, 100mA, + N+ E+ FP(Legrand)	2	Nos		
k	Providing and fixing of Single phase Legrand 20 amp RCCB, 100 mA SP 2 Pin + plus & Socket arrangement(Legrand)	4	Nos		
<b>10</b>	<b>CABLES</b>				
	Supplying, unloading, storage, laying, testing and commissioning of PVC/XLPE insulated (Heavy Duty) Al/Cu conductor armoured cable suitable for working voltage upto and including 1100 V grade, laid and tied on existing overhead cable trays, or laid and tied over MS supports in masonry trenches with copper/al cable lugs, single compression brass cable glands, tapping, crimping etc. as required and all cables run with double run( <b>2 No.</b> ) of GI wire of 8 SWG size.The size of cables are as under:- Make of Material:- (i) PVC/XLPC Armoured cable:- Finolex, Havells, RR				

a	3.5 X 120 Sq.mm XLPE. Al. armoured Cable(AC VTPN & BUS BARS)/ Main Cable	280	Mtr		
b	3.5 X 95 Sq.mm XLPE. Al. armoured Cable(AC VTPN & BUS BARS)/ Main Cable	100	Mtr		
c	3.5 X 50 Sq.mm XLPE. Al. armoured Cable(AC VTPN & BUS BARS)/Main cable	125	Mtr		
d	4X 25 Sq.mm XLPE.Al.armoured Cable (POWER/LIGHT)	600	Mtr		
e	4X 16 Sq.mm XLPE.Al.armoured Cable (LIGHT/UPS)	100	Mtr		
11	GI perforated cable tray cable tray of 2 mm thickness, 50 mm deep with all accessories				
a	300 MM	80	Mtr		
b	150 MM	100	Mtr		
12	MS Junction Box with 2mm thick & 50-65 mm deep as per site requirement alongwith SS (Stainless steel) cover plate with gasket				
a	300 MM	24	Nos		
b	150 MM	48	Nos		
<b>13</b>	<b>EARTHING</b>				
(i)	<b>COPPER PLATE EARTH STATION:</b> Preparation of the Plate Earth Station:( As per IS:3043) (a) Excavation of hard rocky earth, soft murrum, hard murrum etc and back filling with black cotton soil for the earth station, the earth pit size is 1000 mm X 1000 mm X 2500 mm. (b) Supply and fixing of Copper Plate of Size 600 mm X 600 mm X 3.0 mm thick. (c) Fixing of 50 mm X 6 mm, 3 Mtrs copper strips from Copper Plate to earth terminal including brazing/welding at plate etc. (d) Supply and laying in position 19 mm, 2 Mtrs G.I "B" Class pipe for watering with reducer/funnel with mesh. (e) Supply and Fixing of the following in the earth station. (i) 75 Kg. Charcoal. (ii) 15 Kg. Original Salt.	2	Nos		
(ii)	<b>G.I.PLATE EARTH STATION :</b> Preparation of the Plate Earth Station: (as per IS:3043) (a) Excavation of rocky earth, soft murrum, hard murrum etc and back filling with black cotton soil for the earth station, the earth pit size is 1000 mm x 1000 mm x 2500 mm deep. (b) S/F of G.I. plate of size 600 x 600 x 6.0 mm thick. (c) S/F fixing 50 mm x 6 mm, 3 mtrs G.I, strips from G.I.plate to earth terminal including brazing / welding at plate etc. (d) Supplying and laying in position 19 mm, 2 mtrs G.I. 'B' class pipe for watering.with reducer/funnel with mesh. (e) S/F of the following in the earth station. 75 Kg. Charcoal, 15 Kg. Original Salt. and Black Cotton soil of adequate amount. (f) Construction of earth pit chamber including necessary brick work concrete, plastering, S/F of C.I. Cover of size	2	Nos		
(iii)	Providing and fixing Copper/GI strip as per specification complete including connection to earth electrode revetting/sweating/soldering, burying 15 cms below in all types of soil/rocks etc complete as requiued.	20	Mtr.		
(iv)	(b) G.I.Strip 25 X 5 mm	80	Mtr		

(v)	Supply and laying of 10 Sq.mm 650V/1100 V PVC grade insulated copper wire in 15 mm G.I. Pipe ISI grade including all accessories complete as required.(	100	Mtr.		
<b>14</b>	<b>OCCUPANCY SENSORS:-</b> Supply, installation , testing and commissioning of occupancy sensor surface/recess mounted as per site	6	Nos		
<b>15</b>	<b>TELEPHONE POINT</b>				
(i)	Two pair, 0.61 mm dia. telephone cable tinned copper conductor, P.V.C. insulated and sheathed , fire retarding, anti termite, colour coded twisted pairs and rip cord, Double outlet The length of telephone cable upto 35 meter length or less as per site condition with shutter modular type Telephone Outlets ( RJ — 11 ) wth suitable size MS / PVC modular boxes and it laying, fixing, testing and commissioning in suitable size 20/25 mm dia,16 SWG (Medium Gauge) thickness rigid PVC conduit with conduit accessories like bend/junction box/cover plate/sheet steel/PVC box on surface/ concealed manner i/c electrical connections and making goods all the damages, replastering, painting, cleaning the site etc complete as required as per site condition. The floor/roof/wall junction box shuold be of MS(heavy duty) box of suitable size and covered with Steel finish Steel cover sheet by screw tight and gasket to avoid water/dust insertion. Make of Material:- Delton/Finolex/RR cable	35	Nos		
(ii)	Supplying and fixing of krone telephone tag block on surface/ recess mounted with its accessories suitable for the multi core telephone cable and shall accommodate tin-plated phosphor bronze connectors, the connectors shall splice unskinned cables up to 0.61 mm dia and shall be	1	Nos		
(iii)	Supply, installation, testing and commissioning of the following size jelly filled armoured tehephone cable.	50	Mtr		
<b>16</b>	<b>DATA CABLING FOR LAN</b>				
a	Providing, fixing, testing and commissioning of all nodes of four pair UTP CAT 6 LAN cables length upto 30 meter length or less as per site condition in suitable size 20/25 mm dia, 16 SWG wall thickness rigid PVC conduit with conduit accessories like bend/junction box/ fan box etc on surface/recessed manner and making good all the damages, painting, cleaning the site etc complete as required as per site condition and as directed as required. Junction box shuld be covered with Stainless steel plate with screw with gasket for protection of water/dust. Providing, fixing, testing and commissioning of modular type Information Outlets with suitable size of MS/PVC modular boxes complete, all accessories with insulation	76	Nos		
b	Providing and fixing Patch Panels 24 port (100 base TX) CAT 6 patch/jack panel with connector, out lets and necessary connectivity complete as required & (D-Link	4	Nos		
c	Providing, assembling, fixing, testing and commissioning Floor/Wall mounted RACKS for gig switches, patch panels etc including cooling DUAL fan trays, a 10 Point PDU, Fixed Trays as necessary complete. 9 U wall mounted RACK	4	Nos		
d	Providing and fixing of flowing factory fabricated Patch cords. (UTP/CAT 6 complte with connector on both side.)				
i)	for 1 Mt. long	76	Nos.		
ii)	for 2 Mt. long	76	Nos		

e	Providing, fixing, testing and commissioning of four pair CAT 6 LAN cable in suitable size of 20/25mm PVC medium gauge 16SWG conduit including all accessories	200	Mtr		
17	<b>TV POINT:-</b> Supply, installation, testing and commissioning of TV point (Modular) with RG-6 cable in the Medium Gauge 1.6 mm PVC Conduit with all accessories complete in all respect	2	Nos		
18	Supply and installation of Vinyl sticker for on Electrical DBs like, " Switch Off at Night" , Switch Off For Safety,	10	Nos		
19	Making & Providing of 3 sets of Asbuilt Drawing with coloured print for entire Electrical work (Power/UPS/Light/Data/Telephone/AC etc.) as advised by the Bank's Authority.	1	Lum sum		
<b>Description of light /fan fixture</b>					
20	<b>LED LUMINAIRES:- 2' x2' (FULL GLOW TYPE)</b> LED light fittings (600 X600mm) dimension suitable for grid/gypsum ceiling complete with its electronic driver as required per instruction of Bank's Model No are as under:- PHILIPS:- RC380B G2 LED 35S-6500 PSU OD WH LED <b>(FULLGLOW)</b> WIPRO:- CRCO10RO 38 HP57 HAVELLS:- LHECDIL7IL1W036 <b>(Edge- Lit)</b> CG:- LCTAR340 CDI	90	Nos		
21	<b>LED DOWNLIGHTER:</b> 15 Watt, recessed mounted circular down lighter , 6" dimension with complete its electronic driver are as under:- PHILIPS:- GREENLED-DN193B LED-12S-6500 PSU WIPRO:- IRIS LED LD 71-121-XXX-50-XX HAVELLS:- LHECDIL7IL1W036 <b>(Edge- Lit)</b> CG:- LCTAR340 CDI	60	Nos		
22	<b>LED DOWNLIGHTER: SURFACE MOUNTED FOR FRONT SIDE (EXTERNAL)</b> 15 Watt, surface mounted circular/square down lighter , 6" dimension with complete its electronic driver are as under:- PHILIPS, WIPRO, HAVELLS, CG	20	Nos		
23	<b>LED Spot Light, 3 Watt, 2/3"(Inches) size as per site requirement.</b> PHILIPS, WIPRO, HAVELLS, CG	10	Nos		
24	<b>LED COVE/ STRIP LIGHT WITH ITS ELECTRONIC DRIVER( BLUE COLOUR):-</b> Supply, installation, testing and commissioning of bright LED strip light with its	200	Mtr		
25	Providing & fixing of "Digital Clock" /Digital Panel indicating Time, Day, Date, Temperature at outside of big area (Area of C-1070) suitable for the front door	1	Nos		
26	<b>BOX TYPE LUMINAIRES: LED TUBE FITTINGS, 1200mm, 18/20 Watt</b> PHILIPS/WIPRO/HAVELLS/CG	36	Nos		
27	<b>CEILING FAN:(5 Star rating, BLDC Fan)</b> Single phase heavy duty grease filled double ball bearing, aerodynamically designed heavy gauge aluminium blades, copper wound and impregnated silicon stamping motors etc 1200 mm sweep, brilliant white CG/USHA/ ORIENT/HAVELLS	74	Nos		
28	<b>EXHAUST FAN:-</b> Single phase, 300mm sweep, 900 rpm, metallic exhaust fan of the following single phase Exhaust fan continuously	6	Nos		

29	WALL FAN:- ( Only Metallic Body) Oscillating wall fan with regulator i/c connections etc complete as required as per approved make, Sweep 400/450 mm , RPM 1300 make are as under: CG/USHA/ ORIENT/HAVELLS	1	Nos		
30	Buy-back of old light/fan/cabling/wiring fixtures etc.	-1	Nos		
	<b>TOTAL ELECTRICAL</b>				
	<b>TOTAL OF ELECTRICAL WORK</b>				

**GST will be paid additionally @18%**