

**PRICE BID OF ELECTRICAL WORK OF SBI, V-CIP CENTRE AT LCPC VIJAY NAGAR JABALPUR**

S.No	Description of items	Qty	Unit	QUOTED RATE	Amount
<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 stremded 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/bulk holder etc. The floor/ceaf/wall				
a	Providing and fixing of point wiring with above specifications. One light point controlled by one switch.	80	Nos.		
b	Providing and fixing of point wiring with same above specifications. Two light points to be controlled by one switch.	40	Nos		
C	Providing and fixing of ceiling fan point controlled as under (i) one 6 amp switch (ii) one no stepped electronic regulator of two module type.	10	Nos.		
d	providing and fixing 6 Amps Plug Points with same specs as above and install along with same light switchboard	20	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	30	Nos		
2	<b>6 AMP. POINTS ON SEPARATE BOARD</b> :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 making good all the damages, painting, cleaning the site etc complete including all accessories as per site	44	Nos		
3	<b>6 AMP. POINTS ON SEPARATE (VRV AC INDOOR SUPPLY) BOARD</b> :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 making good all the damages, painting, cleaning the site etc complete including all	33	Nos		

4	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 I/c electrical connections and making good all the damages, painting, cleaning the site etc complete	44	Nos		
5	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 I/c electrical connections and making good all the damages	76	Nos		
6	<b>AC/Geysers 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 Enclosur	1	Nos		
7	<b>AC Point (Three Phase).</b> Supply, Installation, Testing and commissioning of the surface / recess mounting A.C. Cassette power point with the followings : Metal enclose Four way with one Nos 32 Amp FP MCB with complete Enclosur plate and box.- 1 set i/c electrical connections and making good all the damages, painting, cleaning the site etc complete as required as per site	2	Nos		
8	<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.				
8.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.	54	Nos		
8.B	3 X 4.0 sqmm ( For AC/Power Circuit ) in suitable size of 16 SWG (MMS) steel conduit as per IS code.	32	Nos		
9	<b>UPS OUTGOING &amp; OTHER FRLS WIRING, As Per Requirement.</b>				
a	3 X 1.5 Sqmm copper multistreand FRLS wire in suitable size of 16 SWG (MMS) steel conduit.	100	R.Mtr		
b	3 X 2.5 Sqmm copper multistreand FRLS wire in suitable size of 16 SWG (MMS) steel conduit.	200	R.Mtr		
c	3 X 4 Sqmm copper multistreand FRLS wire in suitable size of 16 SWG (MMS) steel conduit.	100	R.Mtr		
d	3 X 6 Sqmm copper multistreand FRLS wire in suitable size of 16 SWG (MMS) steel conduit.	100	R.Mtr		
e	5 X 16 Sqmm copper multistreand FRLS wire in suitable size of 16 SWG (MMS) steel conduit for VRF OUTDOOR UNIT	40	R.Mtr		
10	<b>DISTRIBUTION BOARDS</b>				
	<b>All MCB to be "C" series</b>				
	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				

a	<p>PANEL-1 INCOMING SWITCHGEARS :(RYB LED Indicators for Both Main/DG)  (i) 1 No. FP. 160 A , 25 KA MCCB with thermal magnetic trip unit , energy meter, Digital Voltmeter &amp; Digital Ammeter suitable size of CTS, selector switches etc.</p> <p>C. OUTGOING SWITCHGEARS:  (i) 1 Nos- 125 Amp TP MCCB for main with 300 amp bus bar with indicator &amp; energy meter, Digital Voltmeter &amp; Digital Ammeter suitable size of CTS, selector switches etc.</p> <p>(ii) 200 amp onload changeover with 1 Nos 125 amp 25 KA, TP MCCB for DG supply with 300 amp bus bar with indicator</p> <p>(iii) 125 amp TP MCCB with 300 amp bus bar for parallel connection with DG changeover for light &amp; power energy meter, Digital Voltmeter &amp; Digital Ammeter suitable size of</p>	1	Nos		
b	<p>PANEL-2 ( 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. 125A , 25 KA MCCB with thermal magnetic trip unit with indicators etc.</p> <p>C. OUTGOING SWITCHGEARS:  (i) 3 Nos- 63 amp, RCCB with 100mA &amp; 3 Nos 32 amp, RCCB of 100mA 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		
c	<p>Providing and fixing 6 way TPN double door DB for LIGHT /POWER POINTS with 63 Amp TPN , controlling 18 Nos. 10/16/32 Amps SPMCBs. &amp; Complete.</p>	3	Nos.		
d	<p>Providing and fixing 4 way TPN double door DB for LIGHT /POWER POINTS with 63 Amp TPN , controlling 12 Nos. 16/32 Amps SPMCBs. &amp; Complete.</p>	2	Nos		
e	<p>Providing and fixing (12) way SPDB double door type For UPS points with 1x32 Amps DP, controlling 10 Nos, 16 AMP SPMCB</p>	3	Nos.		
f	<p>Providing and fixing (8) way SPDB double door type For Light DB only for Emergency Lights like glow sign etc with 1x32 Amps DP, controlling 6 NO.10 A./16 AMP SPMCB</p>	2	Nos.		
g	<p>Supply, installation, testing and commissioning of 1 Nos-160 Amp FP MCCB alongwith with copper bus bar of 200 with indicators Bus Bar Box with IP 65 rating alongwith all its accessories as per site condition</p>	1	Nos		
h	<p>Supply, installation, testing and commissioning of 1 Nos-125 Amp FP MCCB alongwith with copper bus bar of 200 with indicators Bus Bar Box with IP 65 rating alongwith all its accessories as per site condition</p>	1	Nos		
11	<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> )				
a	3.5 X 95 Sq.mm XLPE. Al. armoured Cable(AC VTPN & BUS BARS)/ Main Cable	120	Mtr		
b	3.5 X 50 Sq.mm XLPE. Al. armoured Cable(AC VTPN & BUS BARS)/Main cable	120	Mtr		
c	4X 25 Sq.mm XLPE.Al.armoured Cable (POWER/LIGHT/UPS)	160	Mtr		
<b>12</b>	<b>GI perforated cable tray cable tray of 2 mm thickness, 50 mm deep with all accessories</b>				
a	300 MM	40	Mtr		
b	150 MM	80	Mtr		
<b>13</b>	<b>MS Junction Box with 2mm thick &amp; 50-65 mm deep as per site requirment alongwith SS (Stainless steel) cover plate with gasket</b>				
a	300 MM	34	Nos		
b	150 MM	34	Nos		
<b>14</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.	1	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"	1	Nos		
(iii)	Providing and fixing Copper/GI strip as per specification compete including connection to earth electrode revetting/sweating/soldering, burying 15 cms below in all types of soil/rocks etc complete as requied. (a) Copper Strip 25 X 5 mm	10	Mtr.		

(iv)	(b) G.I.Strip 25 X 5 mm	60	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. <b>Dedicated Earthing for UPS output DB only</b>	40	Mtr.		
<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 ) with 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	36	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 terminate both incoming and out going lines, the tag	2	Nos		
(iii)	Supply, installation, testing and commissioning of the following size jelly filled armoured tehephone cable. 20 pair	100	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	74	Nos		
b	Providing and fixing Patch Panels 24port (100 base TX) CAT 6 patch/jack panel with connector, out lets and necessary connectivity complete as required & (D-Link make)	2	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	2	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	74	Nos.		

ii)	for 2 Mt. long	74	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 to interconnect the switches from different location.	200	Mtr		
16	<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	1	Nos		
17	Supply and installation of Vinyl sticker for on Electrical DBs like, " Switch Off at Night" , Switch Off For Safety, etc	10	Nos		
18	Making & Providing of 3 sets of Asbuilt Drawing with coloured print for entier 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>				
19	<b>LED LUMINARES:- 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>(FULL GLOW)</b>	24	Nos		
20	<b>LED DOWNLIGHTER: 1' X 1' (1 feet X 1 feet)</b> <b>25 Watt</b> , recessed mounted circular/square down lighter, with complete its electronic driver are as under:- PHILIPS:- GREENLED-DN193B LED-12S-6500 PSU WIPRO:- IRIS LED LD 71-121-XXX-50-XX	112	Nos		
21	LED DOWNLIGHTER: 15 Watt, recessed mounted circular down lighter , 6" dimension with complete its electronic driver are as under:- PHILIPS:- GREENLED-DN193B LED-12S-6500 PSU	30	Nos		
22	LED DOWNLIGHTER: (SURFACE MOUNTED) 15 Watt, surface mounted circular down lighter , 6" dimension with complete its electronic driver are as under:- PHILIPS:- GREENLED-DN193B LED-12S-6500 PSU	10	Nos		
23	LED Spot Light, 3 Watt, 2/3"(Inches) size as per site requirment. 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 electronic driver complete as required. PHILIPS, WIPRO, HAVELLS, CG	165	Mtr		
25	<b>Providing &amp; fixing of "Digital Clock" /Digital Panel indicating Time, Day, Date, Temperature at outside of big size,(Ajanta - OLC-1070)</b> as suitable over the facade as advised by the Bank with standard power back up. Make:- Ajanta, Titan	1	Nos		

26	BOX TYPE LUMINAIRES: LED TUBE FITTINGS, 1200mm, 18/20 Watt PHILIPS/WIPRO/HAVELLS/CG	6	Nos		
27	CEILING FAN:(5 Star rating, BLDC Fan) Single phase heavy duty grease filled double ball bearing, aerodynamically designed heavy gauge aluminium blades. copper wound and impregnated silicon	10	Nos		
28	WALL FAN:- ( Only Metallic Body) Oscillating wall fan with regulator i/c connections etc complete as required as per approved make, Sweep <b>200/300 mm</b> , RPM 1300 make are as under: CG/USHA/ ORIENT/HAVELLS	28	Nos		
29	EXHAUST FAN:- Single phase, 300mm sweep, 900 rpm, metallic exhaust fan of the following single phase Exhaust fan continuously rated, capacitor start and run type, totally enclosed and ruggedly built, pre lubricated double ball bearing, copper	4	Nos		
30	Buy back of existing cables, switchgears, ACs, piping etc as per site condition and dispose it of as per local municipal norms	-1	Nos		
<b>(A) TOTAL ELECTRICAL</b>					

**GST will be paid additionally as applicable**