

**PRICE BID OF ELECTRICAL AND AC WORKS 14 HOSTEL ROOMS, 2 FLOOR, SBILD INDORE**

S.No	Description of items	Qty	Unit	Rate	Amount
1	<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 stranded 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 making the surface neat afterwards complete in all respect as per direction of Bank Enqa. (EACH Circuit to				
a	Providing and fixing of point wiring with above specifications. One light point controlled by one switch.	210	Nos.		
b	Providing and fixing of point wiring with same above specifications. Two light points to be controlled by one switch.	30	Nos		
C	Providing and fixing of ceiling fan point controlled as under	14	Nos.		
d	providing and fixing 6 Amps Plug Points with same specs as above and install along with same light switchboard	45	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 making good all the damages, painting, cleaning the site etc complete including all accessories as per site requirement and as directed. (Minimum two and Maximum three points are loop with one circuit as mentioned beolw)	20	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	30	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. 2 Nos. 6 A Switch + 3 Nos. 6 A, 3 pin Socket (Minimum two and Maximum three points are loop with one circuit as mentioned beolw)	18	Nos		
5	BED SIDE POINTS . 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. 2 Nos. 6 A Switch + 2 Nos. 6 A, 3 pin Socket (Minimum two and Maximum three points are loop with one circuit as mentioned beolw)	28	Nos		
6	MASTER SWITCH POINTS( NEAR THE DOOR OUTSIDE)- 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. <b>3 NOS DP SWITCH OF 32 AMP WITH INDICATOR, 1 NOS SWITCH OF 16 AMP WITH INDICATOR, 1 BELL POINT</b>	14	Nos		
7	<b>AC/Geyser (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 plate and box.- 1 set i/c electrical connections and making good all the damages, painting, cleaning the site etc complete including all accessories as required as per site requirement and as directed by Bank Engineer. <b>OR</b> Modular 32A DP 1 way switch with plate & box 1 set. + 25A & 10A twin socket (Only one point is connected with one circuit as mentioned below)	14	Nos		
8	<b>CIRCUIT WIRING :(FRLS WIRE)</b> <i>Supply , installation, testing &amp; 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.</i>				
8.A	3 X 1.5 sqmm ( For UPS Circuit per room ) in suitable size of 16 SWG (MMS) steel conduit as per IS code(1 Ckt per room)	20	Nos		
8.B	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.	6	Nos		

<b>8.C</b>	3 X 4.0 sqmm ( For AC/Power Circuit ) in suitable size of 16 SWG (MMS) steel conduit as per IS code.( 2 Ckt per room- 1 for AC and 1 for Geyser/Power/5 amp)	30	Nos		
<b>9</b>	<b>OTHER FRLS WIRING, As Per Requirement.</b>				
<b>a</b>	3 X 1.5 Sqmm copper multistreand FRLS wire in suitable size of 16 SWG (MMS) steel conduit.	30	R.Mtr		
<b>b</b>	3 X 2.5 Sqmm copper multistreand FRLS wire in suitable size of 16 SWG (MMS) steel conduit.	30	R.Mtr		
<b>c</b>	3 X 4 Sqmm copper multistreand FRLS wire in suitable size of 16 SWG (MMS) steel conduit.	30	R.Mtr		
<b>d</b>	3 X 6 Sqmm copper multistreand FRLS wire in suitable size of 16 SWG (MMS) steel conduit.(UPS)	150	R.Mtr		
<b>10</b>	<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/Haggr/Schneider only ( Note:- Before Placing the Panel order, firstly it Passed by The Bank Authority, otherwise it will not considered)				
	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.				
10.a	<b>INCOMING SWITCHGEARS :(RYB LED Indicators) AC SUPPLY CONNECTED TO MPSEB POWER FROM TERRACE PANEL</b> (i) 1 No. FP.250 Amp , 25 KA MCCB with thermal magnetic trip unit WITH Digital Voltmeter, Digital Ammeter and Energymeter sutiable size of CTS, selector switches etc. <b>OUTGOING SWITCHGEARS WITH 300 AMP AL. BUS BAR</b> (i) 8 Nos- 100Amp TP MCCB (ii) 1 Nos 63 amp TPN MCB (iii) 1 Nos 32 amp TPM MCB (iv) 2 Nos 32 amp DP MCB, 2 Nos 63 amp DP MCB ( Note:- Before Placing the Panel order, firstly it Passed by The Bank Authority, otherwise it will not considered)	1	Nos		

10.b	INCOMING SWITCHGEARS :(RYB LED Indicators) LIGHT/POWER CONNECTED TO DG SETS (i) 1 No. FP.160 Amp , 25 KA MCCB with thermal magnetic trip unit WITH Digital Voltmeter, Digital Ammeter and Energymeter suitable size of CTS, selector switches etc. OUTGOING SWITCHGEARS WITH 300 AMP AL. BUS BAR (i) 1 Nos- 125Amp TP MCCB (ii) 10 Nos 63 amp TPN MCB (iii) 2 Nos 32 amp TPM MCB (iv) 2 Nos 32 amp DP MCB, 2 Nos 63 amp DP MCB ( Note:- Before Placing the Panel order, firstly it Passed by The Bank Authority, otherwise it will not considered)	1	Nos		
10.c	Repair, maintenance & servicing of Existing MPSEB main electrical panel and capacitor/apfc panel installed at Terrace with painting etc and make it in proper way to change the desired capacitor/contactor/relay as per site condition and make it perfect one for operational. <b>Note:- Before quoting the rate for this contactor to visit the site and analyse the condition of it.</b>	1	Nos		
10.d	Providing & fixing 6 way vertical load line double door D.B for AC/Power with 100 Amp. TP MCCB incomer and outgoing to be 18 Nos 32 amp SP MCB (Ground Floor)	2	Nos		
10.e	Providing and fixing 6 way TPN double door DB for LIGHT POINTS & 5 amp switch socket with 63 Amp TPN , controlling 18 Nos. 16/32 Amps SPMCBs. & Complete.	2	Nos		
10.f	Providing and fixing (12 ) way SPDB double door type For UPS points with 1x32 Amps DP, controlling 10 Nos, 16 AMP SPMCB	2	Nos.		
10.h	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	1	Nos.		
10.i	Providing and fixing (6 ) way TPN double door type For UPS INPUT with 1x63 Amps TPNand 32 amp DP MCB-12 DP MCB	1	Nos.		
10.j	Providing and fixing of 4 way TPN enclosure with 63 amp TPN complete in all respect.	1	Nos		
10.k	Providing and fixing of MS enclosure with 1 No. FP.160 Amp , 25 KA MCCB with thermal magnetic trip unit WITH Digital Voltmeter, Digital Ammeter and Energymeter suitable size of CTS, selector switches etc.	1	Nos		
<b>11</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 <b>8 SWG size</b> .The size of cables are as under:-				
a	3.5 X 185 Sq.mm XLPE. Al. armoured Cable(Main Cable)	60	Mtr		
b	3.5 X 150 Sq.mm XLPE. Al. armoured Cable(Main Cable)	10	Mtr		
c	3.5 X 120 Sq.mm XLPE. Al. armoured Cable(Main cable)	60	Mtr		

d	3.5 X35 Sq.mm XLPE.Al.armoured Cable (AC/ POWER)	120	Mtr		
e	4X 25 Sq.mm XLPE.Al.armoured Cable (LIGHT/UPS)	160	Mtr		
<b>12</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'	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 required.	10	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.(	50	Mtr.		
<b>13</b>	<b>OCCUPANCY SENSORS:-</b> Supply, installation , testing and commissioning of occupancy sensor surface/recess mounted as per site	10	Nos		
<b>14</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	14	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 tinned 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 blocks shall be mounted inside, water proof box and locking arrangement and shall be fully accessible. (A) 20 Pair tag block	1	Nos		
(iii)	Supply, installation, testing and commissioning of the following size jelly filled armoured telephone cable. 20 pair	20	Mtr		
<b>15</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 should 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 displacement connectors etc suitable for CAT 6 UTP cabling with RJ-45 socket with testing and commissioning of STP cabling with scanner for all the nodes/switches/jack panel complete (Each point/circuit/cable from both load and source end to be	16	Nos		
b	Providing and fixing Patch Panels 24 port (100 base TX) CAT 6 patch/jack panel with connector, outlets and necessary connectivity complete as required & (D-Link make)	1	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	1	Nos		
d	Providing and fixing of flowing factory fabricated Patch cords. (UTP/CAT 6 complete with connector on both side.)				
i)	for 1 Mt. long	14	Nos.		
ii)	for 2 Mt. long	14	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		
<b>16</b>	<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 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	14	Nos		
<b>17</b>	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	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 WIPRO:- IRIS LED LD 71-121-XXX-50-XX HAVELLS:- LHEBJNP ZPZ 1W 015(ENDURA LOW DEPTH)	60.00	Nos		
20	LED DOWNLIGHTER: 9 Watt, recessed mounted circular down lighter , 6" dimension with complete its electronic driver are as under:-	90.00	Nos		
21	<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.	200	Mtr		
22	BOX TYPE LUMINAIRES: LED TUBE FITTINGS, 1200mm, 18/20 Watt PHILIPS/WIPRO/HAVELLS/CG	14	Nos		
23	CEILING FAN:(DECORATIVE TYPE AS PER SAMPLE APPROVED BY BANK) Single phase heavy duty grease filled double ball bearing, aerodynamically designed heavy gauge aluminium blades, copper wounded and impregnated silicon stamping motors etc 1200 mm sweep, brilliant white CG/USHA/ ORIENT/HAVELLS	14	Nos		
24	EXHAUST FAN:- Single phase, 300mm sweep, 900 rpm, Plastic 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 wounded, A & E class insulation, dynamically balanced, below 40 db sound level etc, front cover with grill/gravity louver for protection purpose with 12 mm plywood complete in all respect make as under: CG/USHA/	14	Nos		
25	Mirror LED light 5 Watt- (Decorative Light as per Sample approved by Bank) PHILIPS/WIPRO/HAVELLS/CG	14	Nos		
26	Table Lamp LED type:- (Decorative Light as per Sample approved by Bank) PHILIPS/WIPRO/HAVELLS/CG	28	Nos		
27	Removal and dismantling of all existing old wiring, switchgears, DBs, changeover, main switch, old casing capping, old wooden casing capping, all type of light/fan fixtures and kept them in good condition with in 200 meter of the premises in any location as per direction of Bank. Payment of whole work should be made after the complete removal and dismantling of above said old wiring and switchgears and making all wiring/cabling/switchgears arrangements for smooth operation of Banking with taken care of all safety & precaution as per IS code & Indian Electricity Rule & as per CPWD norms.	1	Nos		
	<b>(A) TOTAL ELECTRICAL</b>				

<b>(.B)</b>	<b>AIR CONDITIONING WORK</b> Supply, installation, testing and commissioning of following AIR CONDITONERS as under. The Rate shall be inclusive of all taxes excluding GST. GST will be paid additionally by the Bank as applicable subject to GST Number. and system has complete one year warranty & If any additinal warranty provided by					
1	Supply, installation, testing and commissioning of Higher Efficient models of <b>SPLIT AC, FIVE STAR INVERTER RATING OF BEE AIR CONDITIONERS 1.5 Ton</b> Machines confirming to latest Indian Standards and suitable for operation on 230 Volts + 10 %, single Phase, 50 Hz AC supply with rotary compressor, Refrigerant and capable to perform cooling, dehumidifying, Air Circulating, auto mode, auto swing, anti bacteria filtering, ventilation and with remote control with Cool/Fan/Dry/Auto mode, sleep mode & on/off timer with suitable thermostat. The rate should include installation charges after making appropriate changes in existing false ceiling. Heavy ready made/fabricated M S Stand to house the out door unit as per site conditions including carpentry work, minor civil work and material including copper piping of hard & prime quality of min. 22 G upto 3 metres with class "o" Nitrile insulation	14	Nos			
2	Supply and installation of soft & prime quality of min. 22 G Copper pipe for " Split AC only" with class "o" Nitrile insulation of minimum 12mm for split air conditioner including interconnection power/ communication cable between indoor and outdoor unit as per site requirement. ( If required additionally, payment will made as per actual installtion. The rate inclusive of all chisel work, plastering, finishing, painting & all civil related work pertaing to mentioned work. Make of Insulation:- Superlon/Aflex/Armacell/Kflex Make of cable:- Finolex/RR/Havells	90	Mtr			
3	Drain Pipe ( If Required additional) Applicable to both ACs(Cassette & Split AC). Supply and laying of heavy gauge PVC drain piping of 40mm with insulation as per site requirement with its all accessories like bend, solution etc as per site condition. The rate inclusive of all chisel work, plastering, finishing, painting & all civil related work pertaing to mentioned work. ( If required additionally, payment will made as per actual installtion.) Make:- Kasta/supreme	140	Mtr			
4	Providing & fixing of 4 KVA Voltage stabilizer with time delay option including all accessories with installation at site ( For 1Tr /1.5Tr Split AC & 1.5 Tr Cassette AC) Make: Microtek, V-Gards (Voltage Range 150- 280 Volts)	14	Nos			
	<b>TOTAL:- (.B) AIR CONDITIONING WORK</b>					
	<b>SUMMARY:-</b>					
	<b>(A) TOTAL OF ELECTRICAL WORK</b>					



	<b>(B) TOTAL OF AIR CONDITIONING WORK</b>				
	<b>(.C) BUY BACK OF OLD LIGHT/FAN/ WIRING ETC (-)</b>	1	Job		
	<b>TOTAL( A + B - C )</b>				
	<b>Dis count, if any (In percentage (%) on above Total)</b>				
	<b>Final Grand Total (Total- Discount) (Rs)</b>				

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