PRICE BID OF ELECTRICAL AND AC WORKS OF MINI RACPC MANDEEP BRANCH, BHOPAL					
S.N	**Description of items**	**Qty**	**Unit**	**Rate**	**Amount**
1	**ELECTRICAL WIRING**				
	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 **FRLS WIRE** insulated copper conductor single core multi strended 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. **The**				
a	Providing and fixing of point wiring with above specifications. One light point controlled by one switch.	40	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 (i) one 6 amp switch	22	Nos.		
d	providing and fixing 6 Amps Plug Points with same specs as above and install along with same light switchboard	14	Nos		
e.	Master switch of **16 Amps(Only Grey/Golden/Wooden colour other than white colour)** to install alongwith same light switch	14	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 I/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.	16	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 I/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.	16	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 I/c electrical connections and making good all the	30	Nos		
5	**AC/Geyser Point (Single Phase).** 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	4	Nos		
6	**AC Point (Three Phase).** 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	4	Nos		
7	***CIRCUIT WIRING :(FRLS WIRE)*** *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.	20	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.	22	Nos		
8	**UPS OUTGOING & OTHER FRLS WIRING, As Per Requirment.**				
(a)	3 x 10 Sqmm copper multistreand FRLS wire in 25 mm 16 SGW (MMS) steel conduit.(UPS INPUT DB TO UPS)	20	R.Mtr		
(b)	3 X 1.5 Sqmm copper multistreand FRLS wire in suitable size of 16 SWG (MMS) steel conduit.	40	R.Mtr		
(c)	3 X 2.5 Sqmm copper multistreand FRLS wire in suitable size of 16 SWG (MMS) steel conduit.	40	R.Mtr		
(d)	3 X 4 Sqmm copper multistreand FRLS wire in suitable size of 16 SWG (MMS) steel conduit.	40	R.Mtr		
(f)	3 X 6 Sqmm copper multistreand FRLS wire in suitable size of 16 SWG (MMS) steel conduit.	70	R.Mtr		
(g)	5 X 4 Sqmm. Copper multistrend FRLS wire in suitable size of 16 SWG (MMS) steel conduit (For Cassettee AC)	120	R.Mtr		
9	**DISTRIBUTION BOARDS**				
	All MCB to be "C" series				
	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/Hagger/Schneider only (Note:- Before Placing the Panel order, firstly it Passed by The				
	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 & vermin proof with suitable degree of IP protection) NOTE : All switchgears Ics shall be equal to 100% Icu. 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				

a	PANEL-1 INCOMING SWITCHGEARS :(RYB LED Indicators for Both Main/DG) (i) 1 No. FP. 125 A , 25 KA MCCB with thermal magnetic trip unit , energy meter, Digital Voltmeter & Digital Ammeter sutiable size of CTS, selector switches etc. C. OUTGOING SWITCHGEARS: (i) 1 Nos- 100 Amp TP MCCB for main with 200 amp bus bar with indicator (ii) 160 amp onload changeover 25 KA, TP MCCB for DG supply with 300 amp bus bar with indicator (iii) 100amp TP MCCB with 200 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)	1	Nos		
b	160 amp FP MCCB Enclosure with 200 amp copper Bus bar with all necessary accessories that to be incoorporate with existing LT panel.	1	Nos		
c	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		
d	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		
e.	Providing and fixing 6 way TPN double door DB for LIGHT /POWER POINTS with 63 Amp, controlling 18 Nos. 10/16/32 Amps SPMCBs. & Complete.	2	Nos		
f	Providing and fixing 4 way TPN double door DB for LIGHT /POWER POINTS with 63 Amp, controlling 12 Nos. 16/32 Amps SPMCBs. & Complete.	1	Nos		
g	Providing and fixing (12) way SPDB double door type For UPS points with 63 Amp, controlling 10 Nos, 16 AMP SPMCB	2	Nos.		
h	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 supply, Input- 63 amp TPN MCB and 2 Nos, 63 amp TP & 6 Nos, 32/63 amp SP	1	Nos.		
10	**CABLES**				
	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**(2 No.) 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 cable, CCI(Cable Corp. of India) (ii) Cable Termination Brandle Conect				
a	3.5 X 50 Sq.mm XLPE. Al. armoured Cable(AC VTPN & BUS BARS)/Main cable	160	Mtr		
b	4X 25 Sq.mm XLPE.Al.armoured Cable (POWER/LIGHT)	180	Mtr		
11	GI perforated cable tray cable tray of 2 mm thickness, 50 mm deep with all accessories				
a	300 MM	10	Mtr		
b	150 MM	20	Mtr		

12	MS Junction Box with 2mm thick & 50-65 mm deep as per site requirment alongwith SS (Stainless steel) cover plate with gasket				
a	300 MM	6	Nos		
b	150 MM	12	Nos		
13	**EARTHING**				
(i)	**COPPER PLATE EARTH STATION:** Preparation of the Plate Earth Station:(As per IS:3043) (a) Excavation of hard rocky earth, soft murrum, hard murrum etc	2	Nos		
(ii)	**G.I.PLATE EARTH STATION :** Preparation of the Plate Earth Station: (as per IS:3043) (a) Excavation of rocky earth, soft murrum, hard murrum etc and	2	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 requiued.	20	Mtr.		
(iv)	(b) G.I.Strip 25 X 5 mm	40	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.**(Dedicated Earthing for UPS output DB**	40	Mtr.		
14	OCCUPANCY SENSORS:- Supply, installation , testing and commissioning of occupancy sensor surface/recess mounted as per site condition complete with all wiring/conduit/Switch etc complete in all respect as per site condition as required Honeywell Make K5015/16, Siemens/Johnson Control OR Equivalent as per Bank's approved.	4	Nos		
15	**TELEPHONE POINT**				
(i)	Two pair, 0.61 mm dla. 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	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 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	1	Nos		
(iii)	Supply, installation, testing and commissioning of the following size jelly filled armoured tehephone cable. 20 pair	10	Mtr		
16	**DATA CABLING FOR LAN**				
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 conditionin suitable size 20/25 mm dia, 16 SWG wall thickness rigid PVC conduit with conduit accessories like	20	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 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 necessarycomplete. 9 U wall mounted RACK	1	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	20	Nos.		

ii)	for 2 Mt. long	20	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	100	Mtr		
17	**TV POINT:-**Supply, installation, testing and commissionig of TV point(Modular) with RG-6 cable in the Medimum Gauge 1.6 mm PVC Conduit with all accessories complete in all respect	1	Nos		
18	Supply and installation of Vinyl sticker for on Electrical DBs like, " Switch Off at Night" , Switch Off For Safety, etc	10	Nos		
19	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		
	Description of light /fan fixture				
20	LED LUMINARES:- 2' x2' **(FULL GLOW TYPE)** LED light fittings (600 X600mm) dimension suitable for grid/gypsum ceiling complete with its electrionic driver as required per instruction of Bank's Model No are as under:-	32	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	40	Nos		
22	LED DOWNLIGHTER:SURFACE MOUNTED FOR FRONT SIDE(EXTERNAL) 15 Watt, surface mounted circular/square down lighter , 6”	10	Nos		
23	LED Spot Light, 3 Watt, 2/3”(Inches) size as per site requirment. PHILIPS, WIPRO, HAVELLS, CG	10	Nos		
25	**LED COVE/ STRIP LIGHT WITH ITS ELECTRONIC DRIVER(BLUE COLOUR**):- Supply, installation, testing and commissioning of bright LED strip light with its electronic driver complete as	80	Mtr		
26	**Providing & fixing of "Digital Clock" /Digital Panel indicating Time, Day, Date, Temperature at outside of big size,(Ajanta - OLC-1070)** as suitable over the facade as advised by the Bank with standard power back up. Make:- Ajanta, Titan	1	Nos		
27	BOX TYPE LUMINAIRES: LED TUBE FITTINGS, 1200mm, 18/20 Watt PHILIPS/WIPRO/HAVELLS/CG	16	Nos		
28	CEILING FAN:(5 Star rating, BLDC Fan) 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	22	Nos		
29	EXHAUST FAN:- Single phase, 300mm sweep, 900 rpm, metallic exhaust fan of the following single phase Exhaust fan continuously rated, capacitor	4	Nos		
30	WALL FAN:-(Only Metallic Body) Oscillating wall fan with regulator i/c coonections etc complete as required as per approved make, Sweep 400/450 mm , RPM 1300	2	Nos		
	(A) TOTAL ELECTRICAL				
(B)	**AIR CONDITIONING**				

	Supply, installation, testing and commissioning of following AIR CONDIRIONERS 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 company/vendor in any specific part like compressor etc that is				
1	Supply, installation, testing and commissioning of Higher Efficient models of **SPLIT AC, FIVE STAR INVERTER RATING OF BEE AIR CONDITIONERS 1.5** Ton 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	2	Nos		
2	Supply, installation, testing and commissioning of Higher Efficient models of **SPLIT AC, FIVE STAR INVERTER RATING OF BEE AIR CONDITIONERS 2.0** Ton 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	2	Nos		
3	Supply, installation, testing and commissioning of Higher Efficient models of **CASSETTE TYPE AIR CONDITIONERS(Three) 3.0 Ton, INVERTER AC** Machines confirming to latest Indian Standards and suitable for operation on 415 Volts + 10 %, three Phase, 50 Hz AC supply with Scroll 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 cabling from indoor to outdoor unit, heavy gauge PVC drain piping with insulation as per site requirement. The copper piping, drains piping and electrical cabling should be fixed with clamps and no	4	Nos		
4	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:-	36	Mtr		

5	Supply and installation of hard & prime quality of min. 22 G Copper pipe for "Cassette AC Only" with class "o" Nitrile insulation of minimum 12 mm for 3 / 4 ton cassette type 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	80	Mtr		
6	Drain Pipe (If Required additional) Applicale 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	60	Mtr		
7	Providing & fixing of 4 KVA Voltage stabilizer with time delay option including all accessories with installation at site (For 1.50 Tr Split AC) Make:-Microtek, V-Gards (Voltage Range 150- 280 Volts)	2	Nos		
8	Providing & fixing of 5 KVA Voltage stabilizer with time delay option including all accessories with installation at site (For 2.0 Tr Split AC & 2.0 Tr Cassette AC) Make:-Microtek, V-Gards (Voltage Range 150- 280 Volts)	2	Nos		
	TOTAL:- (.B) AIR CONDITIONING WORK				
	SUMMARY:-				
	(A) SUB- TOTAL OF ELECTRICAL WORK				
	(B) SUB- TOTAL OF AIR CONDITIONING WORK				
	TOTAL(A+ B)				

GST will be paid additionally as applicable @18%