

**TENDER & SPECIFICATIONS FOR ELECTRICAL AND AIR-CONDITIONING WORKS 14 ROOMS HOSTEL BUILDING ,  
FIRST FLOOR, SBILD INDORE**

S.No	Description of items	Qty	Unit	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 FRLS WIRE 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 requirement 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 should 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 <u>item includes Circuit wiring from DB to the switch board with 3x2.5 Sq.MM.</u> The above wiring carried out surface or recess in wall/floor/roof should be cutting by cutter/chisling, replastering, curing, painting with uniform and smooth finish by specialised workman ship and making the surface neat afterwards complete in all respect as per direction of Bank Engg. (EACH Circuit to take NOT MORE than 7-8 points) The conduit/ Flexible conduit/junction box/metal modular box etc must be joined by gland and check nut at both ends. (each circuit to be controlled by one MCB). The colour code of wire are as under: Phase- Red, Neutral- Black, Earth-Green Make of Material for items of BOQ:- (i) Modular Type Switch/socket/step electronic fan regulator, plate, box, TV/telephone, bulb holder/3 pin ceiling rose with all				
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.	45	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.	14	Nos.		
d	providing and fixing 6 Amps Plug Points with same specs as above and install along with same light switchboard	45	Nos		
<b>2</b>	<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 requirement and as directed. (Minimum two and Maximum three points are loop with one circuit as mentioned below)	30	Nos		
<b>3</b>	<b>Power Wring (6 / 16 AMP. POWER POINTS).</b> 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 directed. (Maximum two points are loop with one circuit as mentioned	30	Nos		
<b>4</b>	<b>SPECIAL POINTS : ( For Computers &amp; TV ).</b> 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	30	Nos		

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5	<b>BED SIDE POINTS</b> . 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 below)	30	Nos		
6	<b>MASTER SWITCH POINTS( NEAR THE DOOR OUTSIDE)-</b> 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> 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.				
9a	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		
9b	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		
9c	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		
10	<b>OTHER FRLS WIRING, As Per Requirment.</b>				
a	3 X 1.5 Sqmm copper multistreand FRLS wire in suitable size of 16 SWG (MMS) steel conduit.	30	R.Mtr		
b	3 X 2.5 Sqmm copper multistreand FRLS wire in suitable size of 16 SWG (MMS) steel conduit.	30	R.Mtr		
c	3 X 4 Sqmm copper multistreand FRLS wire in suitable size of 16 SWG (MMS) steel conduit.	30	R.Mtr		
d	3 X 6 Sqmm copper multistreand FRLS wire in suitable size of 16 SWG (MMS) steel conduit.(UPS)	150	R.Mtr		

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11	<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/Hagger/Schneider only ( Note:- Before Placing the Panel order, firstly it Passed by The Bank Authority, otherwise it will not considered)				
a	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/contacter/relay as per site condition and make it perfect one for operational. <b>Note:- Before quotating the rate for this contactor to visit the site and analyse the condition of it.</b>	1	Nos		
b	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		
C	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		
d	Providing and fixing (12 ) way SPDB double door type For UPS points with 1x32 Amps DP, controlling 10 Nos, 16 AMP SPMCB	2	Nos.		
e	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.		
f)	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.		
g	Providing and fixing of 4 way TPN enclosure with 63 amp TPN complete in all respect.	1	Nos		
h	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 sutiable size of CTS, selector switches etc.	1	Nos		
12	<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 (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:- Dowells, Comet				
(i)	3.5 X 50 Sq.mm XLPE.Al.armoured Cable (AC/ POWER)	200	Mtr		
(ii)	3.5 X 35 Sq.mm XLPE.Al.armoured Cable (AC/ POWER)	200	Mtr		
iii	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> )	50	Mtr.		

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13	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.	10	Nos		

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<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 ) 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 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 should 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	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 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 marked with ferrules.) Make of Material:- (i) Data Cable, Cat 6 cable, Switch, Jack panel, Rack, Patch cords & Other accessories:- D-Link, Legrand	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	16	Nos.		
ii)	for 2 Mt. long	16	Nos		

S.No	Description of items	Qty	Unit	Rate	Amount
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		

S.No	Description of items	Qty	Unit	Rate	Amount
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 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 all accessories with insulation	14	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 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>				
19.0	<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:- LHEBJNP ZPZ 1W 015(ENDURA LOW DEPTH) CG:- LC DD-15-CDL,	60.00	Nos		
20.0	<b>LED DOWNLIGHTER:</b> 9 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) CG:- LC DD-15-CDL,	120.00	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. PHILIPS, WIPRO, HAVELLS, CG	200	Mtr		
22	<b>BOX TYPE LUMINAIRE:</b> LED TUBE FITTINGS, 1200mm, 18/20 Watt PHILIPS/WIPRO/HAVELLS/CG	16	Nos		
23	<b>CEILING FAN:(DECORATIVE TYPE AS PER SAMPLE APPROVED BY BANK)</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	14	Nos		
24	<b>EXHAUST FAN:-</b> 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 wound, 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/ ORIENT/HAVELLS/ALMONARD/ALSTOM	14	Nos		

S.No	Description of items	Qty	Unit	Rate	Amount
25	Mirror LED light 5 Watt- (Decorative Light as per Sample approved by Bank) PHILIPS/WIPRO/HAVELLS/CG	28	Nos		
26	LED wall hang study light:- (Decorative Light as per Sample approved by Bank) PHILIPS/WIPRO/HAVELLS/CG	28	Nos		
27	LED footlight:- (Decorative Light as per Sample approved by Bank) PHILIPS/WIPRO/HAVELLS/CG	15	Nos		
28	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>					

S.No	Description of items	Qty	Unit	Rate	Amount
(.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 additional warranty provided by company/vendor in any specific part like compressor etc that is acceptable, please mentioned it.				
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 12mm , 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 loose piping/cabling is allowed. The out door unit should be anti-rust powder coated. Indoor unit should have LED display. The rates inclusive of all repairs of civil and carpentry work The cost includes original fill and additional top up of refrigerant gas as per site condition. The	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	120	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	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/AC/PIPEING 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>				