

**BOQ FOR THE PROPOSED ELECTRICAL AND AIRCONDITIONING WORKS OF SBI GUEST HOUSE AT MAHANANDA, UJJAIN (M.P.)
UNDER RBO-5, UJJAIN**

	SITE DETAIL:	MAHANANDA GUEST HOUSE, UJJAIN			
S.N.	Description of Item	Unit	Quantity	Rate	Amount
PART-I: ELECTRICAL WORKS					
	Note: Use of Flexible conduits & Elbows in Circuit wiring is not allowed except in exceptional site conditions with the approval of Bank's Engineer / Architect and All wiring laying in the MS/PVC conduit strickle follow IE(Indian Electricity) rules, IS code, follow in all items of project/ work execution. Proper ferrules, lux, thimble , gland termination to be done in all cabling & wiring from both load/source end. Conduit carrying submain will not carry circuit/point wiring. Similarly conduit carrying circuit wiring will not carry submain/point wiring. Conduit carrying point wiring will not carry submain/circuit wiring. All Electrical works (Cabling/wiring/panel etc) to be carried out as per layout/General Arrangement (GA)Drawing attached only.				
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 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. The item includes Circuit wiring from DB to the switch board with 3x2.5 Sq.MM. 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 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)				
	-cont'd-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 accessories:- Lergand/ Anchor(Roma)/MK/ Crabtree (ii) MS conduit/PVC conduit with all accessories:- BEC/AKG/NIC/Precision (iii) PVC insulated copper wire(FR) 650V/1100 V grade:- Finolex/RR cable/ Havells				
a	Providing and fixing of point wiring with above specifications. One light point controlled by one modular switch.	Nos.	34		
b	Providing and fixing of point wiring with same above specifications. Two points to be controlled by one modular switch.	Nos	22		
c	Providing and fixing of point wiring with same above specifications. Two Way light points to be controlled by two modular switches	nos	12		
d	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.	Nos.	9		
e	providing and fixing 5 pin 6 Amps Plug Points with same specs as above and install along with same light switchboard	Nos	11		
f	One call bell point with ceiling rose/ 6amp. 3 pin socket controlled by one 6 amp. Push Modular switch. With call bell	Nos	1		

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g	Master switch of 16 Amps(Only Grey/Golden/Wooden colour other than white colour) to install alongwith same light switch board to control all light as a master switch ON/OFF in each switch board	Nos	8		
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)	Nos	13		
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 directed. (Maximum two points are loop with one circuit as mentioned below)	Nos	10		
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 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. OR 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)	Nos	13		
6	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.				
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.	Nos	18		
b	3 X 4.0 sqmm (For AC/Power Circuit) in suitable size of 16 SWG (MMS) steel conduit as per IS code.	Nos	25		
7	CABLES , MAINS & SUBMAINS				
	Supplying all materials and laying/ pulling 1100 volts grade PVC insulated copper conductor wires (FRLS) in MS conduit with all fixing accessories after cutting the floor, wall and the like etc. and replastering the floor level to original. Conduit must be 30 mm below the floor finish level.				
a	1 X 10 sq mm Cu PVC Insualed wire for earthing.	Mtr.	14		
b	Supplying, unloading, storage, laying, testing and commissioning of PVC/XLPE insulated (Heavy Duty) Al/Cu conductor armoured cable 4 C X 16 sq.mm 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. Make of Material:- (i) PVC/XLPC Armoured cable:- Finolex, Havells, RR cable, CCI(Cable Corp. of India) (ii) Cable Termination:- Dowells, Comet	Mtr	56		
c	12 way SPN DB	Nos	2		
	Incomer:-				

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S.N.	Description of Item	Unit	Quantity	Rate	Amount
	1 No. 63 Amp TPN (10 KA) MCB				
	Outgoing:-				
	8 Nos.6/10/25 Amp (10 KA) SP MCB				
8	TV POINT				
a	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	Nos	7		
9	Removing & dismantling of old wiring, electrical data cables , power cable, low voltage cable & complete with all respect as per required.	LS	1		
10	LIGHT FITTINGS, FANS, CALL BELL				
	Supplying, installation with hanging support, testing and commissioning of following light fixtures with electronic Ballasts, Tubes, lamps, all fixing materials including connecting wires etc. all complete as per the directions of Engineer-in-charge (All LED Light Fixtures should be covered with minimum 3 Years onsite replacement warranty).				
a	LED 18 watt Tube Light 1200mm with all accessories.make As specified in tender document or approved by bank	Nos	6		
b	15 W LED recessed mounted circular down lighter , 6" dimension with Aluminum Heat Sink and 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,	Nos	22		
c	12 W LED recessed mounted circular down lighter , 6" dimension with Aluminum Heat Sink and 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 012(ENDURA LOW DEPTH) CG:- LC DD-12-CDL,	Nos	7		
d	9 W LED commercial type RECESSED down lighter of PHILIPS, WIPRO, HAVELLS make As specified in tender document or approved by Architect.	Nos	5		
e	7 W LED commercial type RECESSED down lighter of PHILIPS, WIPRO, HAVELLS make As specified in tender document or approved by Architect.	Nos	10		
f	3 W COB commercial type spot down lighter of 2/3"(Inches) size as per site requirement of PHILIPS, WIPRO, HAVELLS, CG make as specified in tender document or approved by Architect	Nos	22		
g	LED Strip for cove lighting 15 W per 5 M with driver and necessary installation fittings Led strip light (5 mtr.) make PHILIPS, WIPRO, HAVELLS, CG as approved by Architect.	Mtr	68		
h	Supply, installation, testing and commissioning of following fans with all fixing materials like white Polycarbonate 2 mm Hylem sheet cover, down rods, fan box as required etc. all complete as per the directions of Engineer-in-charge.				
i	Ceiling fan 1200mm Sweep, 5 star rating BLDC, Brilliant White	Nos	9		
j	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 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	Nos	2		

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S.N.	Description of Item	Unit	Quantity	Rate	Amount
k	PIPE EXHAUST FAN:- Single phase, 150mm dia, 900 rpm, PVC body suitable for Pipe Exhaust Fan/Fresh Air of the following single phase Exhaust fan continuously rated, capacitor start and run type, totally enclosed and ruggedly built, below 40 db sound level etc, inclusive of required 150mm dia pvc pipe leading to outside (average 3M for each) and inclusive of Cowl at one end, with required 18 mm plywood complete in all respect make as under: CG/USHA/ ORIENT/HAVELLS/ALMONARD/ALSTOM (One shall be fitted in caretaker room also)	Nos	6		
l	Chandelier :- Providing and fixing at site approved make chandelier with basic price of Rs 15,000/- to be fixed at site after making necessary provision of ceiling hook including necessary wiring, wherever necessary, including all materials, contingencies etc complete.	Nos	1		
m	Supply & replacement of 16 amp 3 pin universal socket with required internal wiring ,termination, internal wiring required hardware ,accessories & all respect.	Nos	5		
n	LED footlight:- Supplying, fixing, testing and commissioning of LED commercial type RECESSED foot light of make As specified in tender document or approved by Architect.	Nos	9		
o	Mirror Light- Supplying, fixing, testing and commissioning of LED commercial type Surface wall mounted mirror light of basic price of Rs 1500/- make As specified in tender document or approved by Architect.	Nos	5		
p	LED Bed lamp with flexible cable and COB at end for study purpose movable 360 degree, wall/ panelling mounted study light of basic price of Rs 750/- :- (Decorative Light as per Sample approved by Bank)	Nos	5		
q	LED Hanging light :- Providing and fixing 9 watt ceiling mounted cylindrical hanging LED lights complete with cone/cylinder type outer body and bulb of basic price of Rs 2,100/- including fixing and adjusting at different levels etc	Nos	4		
11	GEYSER:-Supply, installation, testing & commissioning of 10 liter Horizontal storage water Geysers of Reputed Brands like Jaquar/Bajaj/Havells complete with internal wiring, hardware termination & all required material as per requirement.	Nos	5		
SUBTOTAL: PART-I ELECTRICAL WORKS				Rs.	
PART-II: AIRCONDITIONING WORKS					
	Quoted competitive rate should deduct cost of company provided copper piping, the cost shall be paid as per actual length with nil deductions under the appropriate item only. 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 shall be inclusive of all repairs of civil and carpentry work, original fill and additional top up of refrigerant gas as per site condition, testing and commissioning complete. Make of ACs:- Daikin/Hitachi/Bluestar/Carrier only				
1	Installation, testing and commissioning of Higher Efficient models of HIGH WALL TYPE SPLIT AIR CONDITIONERS 1.0 Ton/1.5 Ton/ 2.0 Ton Machines. INSTALLATION TO BE STRICTLY AS PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATION and confirming to latest Indian Standards and following all SOPs for Refrigerants, Performance, Cooling, Dehumidification, Air Circulation, Anti Bacteria Filtration, Ventilation, Remote operation etc. The rate should include installation charges after making appropriate civil or interior changes on site if required and shall include all required Heavy duty or company provided ready made or fabricated M S Stands etc. to install the out door and indoor units as per site conditions. ...cont'd...	Nos	5		

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S.N.	Description of Item	Unit	Quantity	Rate	Amount
	Quoted competitive rate should deduct cost of company provided copper piping, the cost shall be paid as per actual length with nil deductions under the appropriate item only. The copper piping, drains piping and electrical cabling should be fixed with clamps and no loose piping/cabling is allowed. The rates shall be inclusive of all repairs of civil and carpentry work, original fill and additional top up of refrigerant gas as per site condition, testing and commissioning complete.				
2	Installation, testing and commissioning of Higher Efficient models of CASSETTE TYPE AIR CONDITIONERS 2.0 Ton/3.0 Ton/4.0 Ton Machines star rated Inverter Models INSTALLATION TO BE STRICTLY AS PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATION and confirming to latest Indian Standards and following all SOPs for Refrigerants, Performance, Cooling, Dehumidification, Air Circulation, Anti Bacteria Filtration, Ventilation, Remote operation etc. The rate should include installation charges after making appropriate civil or interior changes on site if required and shall include all required Heavy duty or company provided ready made or fabricated M S Stands etc. to install the out door and indoor units as per site conditions. ...cont'd...	Nos	1		
	Quoted competitive rate should deduct cost of company provided copper piping, the cost shall be paid as per actual length with nil deductions under the appropriate item only. The copper piping, drains piping and electrical cabling should be fixed with clamps and no loose piping/cabling is allowed. The rates shall be inclusive of all repairs of civil and carpentry work, original fill and additional top up of refrigerant gas as per site condition, testing and commissioning complete.				
3	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	Mtr	18		
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:- Superlon/ Aflex/ Armacell/ Kflex Make of cable:- Finolex/RR/Havells	Mtr	35		
5	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	Mtr	21		
6	Providing & fixing of Voltage Stabilizer with time delay option including all accessories with installation at site (4 kva For 1Tr /1.5Tr Split AC & 5kva for 2 Tr Split AC) Make:-Microtek, V-Guard (Voltage Range 150- 280 Volts)				
a	4 KVA rating Voltage Stabilizer	Nos	6		
b	5 KVA rating Voltage Stabilizer	Nos	2		
SUBTOTAL: PART-II AIRCONDITIONING WORKS					Rs.
SUMMARY (EXCLUDING GST)					
S.N.	DESCRIPTION	Amount (Rs.)			
1	PART- I: ELECTRICAL WORKS				
2	PART- II: AIRCONDITIONING WORKS				

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S.N.	<i>Description of Item</i>	Unit	<i>Quantity</i>	<i>Rate</i>	<i>Amount</i>
	TOTAL OF WORKS Rs.				
TOTAL IN WORDS Rs.					