

**BOQ OF ELECTRICAL WORKS SBI , MP NAGAR BRANCH, E-2, ARERA COLONY,
BHOPAL**

S.No	Description of items	Qty	Unit	Rate	Amount
1	ELECTRICAL WIRING				
	<p>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 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/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</p>				
a	Providing and fixing of point wiring with above specifications. One light point controlled by one switch.	120	Nos.		
b	Providing and fixing of point wiring with same above specifications. Two light points to be controlled by one switch.	60	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.	38	Nos.		
d	providing and fixing 6 Amps Plug Points with same specs as above and install along with same light switchboard	30	Nos		
e.	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	25	Nos		

S.No	Description of items	Qty	Unit	Rate	Amount
1	ELECTRICAL WIRING				
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. (Minimum two and Maximum three points are loop with one circuit as mentioned beolw)	38	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. (Maximum two points are loop with one circuit as mentioned below)	38	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 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)	54	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 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)	15	Nos		

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1	ELECTRICAL WIRING				
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 and making good all the damages, painting, cleaning the site etc complete as required as per site requirement and as directed. (Only one point is connected with one circuit as mentioned below)	5	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.	38	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.	40	Nos		
8	UPS OUTGOING & OTHER FRLS WIRING, As Per Requirement.				
(a)	3 x 10 Sqmm copper multistreand FRLS wire in 25 mm 16 SGW (MMS) steel conduit.(UPS INPUT DB TO UPS)	30	R.Mtr		
(b)	3 X 1.5 Sqmm copper multistreand FRLS wire in suitable size of 16 SWG (MMS) steel conduit.	20	R.Mtr		
(c)	3 X 2.5 Sqmm copper multistreand FRLS wire in suitable size of 16 SWG (MMS) steel conduit.	20	R.Mtr		
(d)	3 X 4 Sqmm copper multistreand FRLS wire in suitable size of 16 SWG (MMS) steel conduit.	400	R.Mtr		
(f)	3 X 6 Sqmm copper multistreand FRLS wire in suitable size of 16 SWG (MMS) steel conduit.	140	R.Mtr		
(g)	5 X 4 Sqmm. Copper multistrend FRLS wire in suitable size of 16 SWG (MMS) steel conduit (For Cassettee AC)	220	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 Bank Authority, otherwise it will not considered)				

S.No	Description of items	Qty	Unit	Rate	Amount
1	ELECTRICAL WIRING				
	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 lcs shall be equal to 100% lcu. 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 side				
a	PANEL-1 INCOMING SWITCHGEARS :(RYB LED Indicators for Both Main/DG) (i) 1 No. FP. 250 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- 160 Amp TP MCCB for main with 300 amp bus bar with indicator (ii) 200 amp onload changeover with 1 Nos 160 amp 25 KA, TP MCCB for DG supply with 300 amp bus bar with indicator (iii) 125 amp TP MCCB with 300 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	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		
c	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	2	Nos		
d	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.	4	Nos		
e	Providing and fixing 4 way TPN double door DB for LIGHT /POWER POINTS with 63 Amp,controlling 12 Nos. 16/32 Amps SPMCBs. & Complete.	3	Nos		
f	Providing and fixing (12) way SPDB double door type For UPS points with 63 Amp, RCCB, controlling 10 Nos, 16 AMP SPMCB UPS	4	Nos.		
g	Providing and fixing (8) way SPDB double door type For Light DB only for Emergency Lights like glow sign etc with 63 Amp, controlling 6 NO.10 A./16 AMP SPMCB	3	Nos.		
10	CABLES				

S.No	Description of items	Qty	Unit	Rate	Amount
1	ELECTRICAL WIRING				
	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				
a	3.5 X 95 Sq.mm XLPE. Al. armoured Cable(AC VTPN & BUS BARS)/ Main Cable	20	Mtr		
b	3.5 X 50 Sq.mm XLPE. Al. armoured Cable(AC VTPN & BUS BARS)/Main cable	110	Mtr		
c	3.5 X 70 Sq.mm XLPE. Al. armoured Cable(AC VTPN & BUS BARS)/Main cable	80	Mtr		
d	4X 25 Sq.mm XLPE.Al.armoured Cable (POWER/LIGHT)	150	Mtr		
e	4X 16 Sq.mm XLPE.Al.armoured Cable (LIGHT/UPS)	80	Mtr		
11	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 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. (e) Supply and Fixing of the following in the earth station. (i) 75 Kg. Charcoal. (ii) 15 Kg. Original Salt. (iii) Black Cotton soil of adequate amount. (f) Construction of earth pit chamber including necessary brick work concrete, plastering, S/F of C.I Cover of size 12" X 12" complete as per site requirement.	2	Nos		

S.No	Description of items	Qty	Unit	Rate	Amount
1	ELECTRICAL WIRING				
(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 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' class pipe for watering.with reducer/funnel with mesh. (e) S/F of the following in the earth station. 75 Kg. Charcoal, 15 Kg. Original Salt. and Black Cotton soil of adequate amount. (f) Construction of earth pit chamber including necessary brick work concrete, plastering, S/F of C.I. Cover of size 12" x 12" complete as per site req.and marking its value and identification etc.	4	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 requiued. .(a) Copper Strip 25 X 5 mm	15	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 only)	40	Mtr.		
12	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.	8	Nos		
13	TELEPHONE POINT				

S.No	Description of items	Qty	Unit	Rate	Amount
1	ELECTRICAL WIRING				
(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 complete as required as per site condition. 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. Make of Material:- Delton/Finolex/RR cable	26	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 tehephone cable. 20 pair	50	Mtr		
14	DATA CABLING FOR LAN				

S.No	Description of items	Qty	Unit	Rate	Amount
1	ELECTRICAL WIRING				
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	40	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)	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 complete with connector on both side.)				
i)	for 1 Mt. long	40	Nos.		
ii)	for 2 Mt. long	40	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.	50	Mtr		
15	TV POINT:- 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	3	Nos		
16	Supply and installation of Vinyl sticker for on Electrical DBs like, " Switch Off at Night" , Switch Off For Safety, etc	10	Nos		
17	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		
	Description of light /fan fixture				

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1	ELECTRICAL WIRING				
18	LED LUMINAIRES:- 2' x2' (FULL GLOW TYPE) 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 (FULLGLOW) WIPRO:- CRCO1ORO 38 HP57 HAVELLS:- LHECDIL7IL1W036 (Edge- Lit) CG:- LCTAR3-40-CDL	82	Nos		
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) CG:- LC DD-15-CDL,	84	Nos		
20	LED DOWNLIGHTER: SURFACE MOUNTED FOR FRONT SIDE(EXTERNAL) 15 Watt, surface mounted circular/square down lighter , 6" dimension with complete its electronic driver are as under:- PHILIPS, WIPRO, HAVELLS, CG	10	Nos		
21	LED Spot Light, 3 Watt, 2/3"(Inches) size as per site requirement. PHILIPS, WIPRO, HAVELLS, CG	38	Nos		
22	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 required. PHILIPS, WIPRO, HAVELLS, CG	180	Mtr		
23	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	2	Nos		
24	BOX TYPE LUMINAIRES: LED TUBE FITTINGS, 1200mm, 18/20 Watt PHILIPS/WIPRO/HAVELLS/CG	20	Nos		
25	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	38	Nos		

S.No	Description of items	Qty	Unit	Rate	Amount
1	ELECTRICAL WIRING				
26	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 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/ ORIENT/HAVELLS/ALMONARD/ALSTOM	10	Nos		
27	WALL FAN:- (Only Metallic Body) Oscillating wall fan with regulator i/c connections etc complete as required as per approved make, Sweep 400/450 mm , RPM 1300 make are as under: CG/USHA/ ORIENT/HAVELLS	4	Nos		
	(A) TOTAL ELECTRICAL				

AIR CONDITIONING WORKS

S. No	Description of Item	Unit	Qty	Rate	Amount
	PART A - HIGH SIDE (MACHINE				
1	Wall Mounted Split AC:- Supply installation testing and commissioning of wall mounted indoor split unit comprising of copper evaporator, electronic expansion valve, blower, motor, filter pad, auto air swing louvers, and temperature & on/off display with provision of discharge angle setting by wireless remote controller including internal wiring, controls complete as per specification. (Single phase)				
i	1.0 TR 5 Star Inverter	Each	3		
ii	1.5 TR 5 Star Inverter	Each	2		
2	Ceiling Mounted Four Way Cassette AC :- Supply installation testing and commissioning of 4 way ceiling suspended/mounted cassette type unit comprising of copper evaporator, electronic expansion valve, blower, motor, filter pad, auto air swing louvers, temperature & on/off display with inbuilt drain pump & decorative panels including internal wiring, controls with outdoor Units.				
i	2.0 TR	Each	4		
ii	2.5 TR	Each	6		
iii	3.0 TR	Each	4		

S.No	Description of items	Qty	Unit	Rate	Amount
1	ELECTRICAL WIRING				
3	Copper piping: - Supply, installation, testing and commissioning of interconnecting copper refrigerant pipe work (19mm/13mm thick) duly insulated with elastomeric nitrile rubber type tubular insulation between indoor & outdoor units as per specifications. And exposed piping should be wrapped with glass woven cloth and lag coating for vapour barrier and weather protection. Joints shall be covered with nitrile rubber tape of 3 mm thick complete as per specification.				
i	15.9 mm O.D. wall thickness \geq 0.8mm (insulation – 13 mm thick)	Rmt	180		
ii	12.7 mm O.D. wall thickness \geq 0.8mm (insulation – 13 mm thick)	Rmt	100		
iii	9.5 mm O.D. wall thickness \geq 0.8mm (insulation – 13 mm thick)	Rmt	190		
iv	6.4 mm O.D. wall thickness \geq 0.8mm (insulation – 13 mm thick)	Rmt	95		
4	Drain piping :- Providing and fixing of CPVC, 6Kg/cm ² drain water piping with fittings, support and insulated with 6 mm thick closed cell elastomeric nitrile rubber insulation complete as per specification.				
i	20 mm dia ID	Rmt	65		
ii	25 mm dia ID	Rmt	165		
iii	32 mm dia ID	Rmt	45		
5	Flexible pre insulated duct: - Supply and fixing of aluminum foil flexible pre-insulated duct in accordance with the approved specifications.				
i	100 mm dia	Rmt	45		
6	Refrigerant:- Supply and additional refrigerant charge of refrigerant R410/410A & equivalent Eco friendly green gas to compensate the additional piping done at site for all systems including testing commissioning as required,	Kg	30		
7	Grills and diffusers				
i	Supplying & fixing of powder coated extruded aluminum air grills without volume control damper complete as required.	Sq.mtr	2		
ii	Supplying & fixing of collar damper complete as required.	Sq.mtr	2		
8	Flexible connections :- Providing & fixing of flexible canvas connection between indoor unit and duct to avoid the vibration transfer	Each	4		
9	Control cable: - Supply and laying, testing & commissioning of following sizes of copper conductor control cables on existing tray including fixing clamps & proper connections to equipment etc. complete as required.				
i	4Cx 2.5 sq.mm	Rmt	350		
ii	4Cx 6 sq.mm	Rmt	150		

S.No	Description of items	Qty	Unit	Rate	Amount
1	ELECTRICAL WIRING				
10	Outdoor stand fabrication :- Supply, fabrication and erection of angle/channel/flat iron stand, hanging arrangement for air conditioning machines & ducts etc, back /support clamps or other similar work etc. including nut bolts of required size, making holes, fabrication, welding, cutting, etc. and painting with one coat of red oxide paint & two coat of enamel paint as required as per specification.	Kg	300		
11	Fresh Air INLINE Fan: Supply, installation, testing and commissioning of fresh air inline fan including internal wiring, controls complete as per specification as mentioned below :-				
i	900 CFM	Nos.	2		
	(B) Total Air Conditioning work Cost				
	TOTAL (A+B)				
	Note:- The rates quoted includes all other taxes,duties, loading, unloading,transportation,other expenses etc to site.				
	GST will be paid additionally as applicable				

Seal & Signature of Contractor