	PRICE BID OF ITEMS FOR ELECTRICAL AND AC WORK AT RAMPAHADI B	RANCH	I (RBO)-2) MORE	NA
S.No	Description of items	Qty	Unit	Rate	Amoun
(A)	ELECTRICAL WIRING WORK				
	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 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.				
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 1.5 Sq.mm(P/N/E) PVC 650V/1100V Grade FR 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 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 specilised 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 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				
а	Providing and fixing of point wiring with above specifications. One light point controlled by one switch.	45	Nos.		
b	Providing and fixing of point wiring with same above specifications. Two light points to be controlled by one switch.	15	Nos		
С	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.	7	Nos.		
d	providing and fixing 6 Amps Plug Points with same specs as above and install along with same light switchboard	12	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. (Minimum two and Maximum three points are loop with one circuit as mentioned beolw)		Nos		
3	Power Wring (6 / 16 AMP. POWER POINTS)	10	INUS		
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	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)	18	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)		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)	10	Nos	
6	AC Point (Three Phase)	10	1103	
6 a.	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)	0	Nos	
7	CIRCUIT WIRING :			
	Supplying, providing circuit wiring for Power/UPS with following PVC insulated copper conductor single core multi strended wire (HRFR) in mentioned conduit i/c electrical connections in 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 MS conduit with conduit accessories like bend/junction box/ fan box etcwith cover plate, sheet steel box/ PVC modular box etc 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. The length of circuit upto 30 meter length or less as per site condition/requirment. Make of Material (i) MS conduit/PVC conduit with all accessories:-BEC/AKG/NIC/Precision (ii) PVC insulated copper wire(FR) 650V/1100 V grade:- Finolex/RR cable/ Havells			
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.	22	Nos	
b	3 X 4.0 sqmm (For AC/Power Circuit) in suitable size of 16 SWG (MMS) steel conduit as per IS code.	22		
8	UPS OUTGOING & OTHER WIRING, As Per Requirment.			
(a)	3 x 10 Sqmm copper multistreand 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 wire in suitable size of 16 SWG (MMS) steel conduit.	5	R.Mtr	

(c)	3 X 2.5 Sqmm copper multistreand wire in suitable size of 16 SWG (MMS) steel conduit.	5	R.Mtr	
(d)	3 X 4 Sqmm copper multistreand wire in suitable size of 16 SWG (MMS) steel conduit.	5	R.Mtr	
(f)	3 X 6 Sqmm copper multistreand wire in suitable size of 16 SWG (MMS) steel conduit.	10	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.			
a	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 sides. The above panel belongs following as under: A. 4 Nos. 200 Amp. Electrolytic grade Aluminum Bus Bars insulated with colored Heat Shrinkable PVC Sleeves & duly supported on SMC/DMC molded supports with Antitracking barriers. B.INCOMING SWITCHGEARS: (RYB LED Indicators for Both Main/DG) (i) 1 No. FP.125 A, 25 KA MCCB with thermal magnetic trip unit C. OUTGOING SWITCHGEARS: (i) 1 Nos- 100Amp TP MCCB for main with 200amp bus bar with indicator. (iii) 160 amp onload changeover with 1 Nos 125 amp 25 KA, TP MCCB for DG supply with 200 amp bus bar for parallel connection with DG changeover output (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-lmax 40KA/pole with complete wiring.		Nos	
С	Providing & fixing 4 way vertical load line double door D.B for AC with 125 Amp. TP MCCB incomer and outgoing to be 12 Nos 32 amp SP MCB		Nos.	
e.	Providing and fixing 6 way TPN double door DB for LIGHT /POWER POINTS with 63 Amp TPN , controlling 18 Nos. 10/16 Amps SPMCBs. & Complete.		Nos.	
f)	Providing and fixing 4 way TPN double door DB for LIGHT /POWER POINTS with 63 Amp TPN , controlling 12 Nos. 10/16 Amps SPMCBs. & Complete.	1	Nos	
g	Providing and fixing (12) way SPDB double door type For UPS points with 1x32 Amps DP, controlling 10 NO.10 A./16 AMP SPMCB	1	Nos.	
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		Nos.	

SUPPLY (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 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 requirment. 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 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 mm s 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. 3 Nos (iii) Providing and fixing Copper/Gl strip as per specification compete including connection to earth electrode revetting/sweating/soldering, burying 15 cms below in all types of soli/rocks etc complete as required. (a) Copper Strip 25 X 5 mm	i)	Providing and fixing (4) way TPN double door type For UPS INPUT with 1x63 Amps TPNand 63 amp DP MCB- 3 Nos & 3 Nos, 32 amp SP MCB complete(SERVER ROOM AC CONNECTED WITH THIS DB)		Nos.	
Supplying, unloading, storage, laying, testing and commissioning of PVCKLPE insulated (Leavy Duty) AVICa conductor armoured cable sustable 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 masony 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 Corport India) (ii) Cable Termination: Dowells, Comet b 3.5 X 50 Sq.mm XLPE.Al. armoured Cable (POWER) d XX 16 Sq.mm XLPE.Al. armoured Cable (POWER) d XX 16 Sq.mm XLPE.Al. armoured Cable (POWER) d XX 16 Sq.mm XLPE.Al. armoured Cable (POWER) 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 Fixing to the following in the earth station. (i) 75 Kg. Charcoal. (ii) 16 Kg. Original Sall. (iii) Black Cotton soil of adequate amount. (f) construction of earth pit chamber including necessary brick work concrete, plastering, Sir of C.I. Cover of size 12" x 12" complete as per site requirment. 2 Nos (iii) Charcoal of C.I. Lipide of Size 600 x 60 mm thick. (c) Sir 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 1 9 mm, 2 mtrs G.I. Bric class pipe for watering with reducerfrunel with mesh. (e) Sir of the following in the earth station, the earth pit size is 1000 mm x (Size) of the following in t	J		1	Set	
PVC/XLPE insulated (Heavy Ďuty) AirCu conductor amoured 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 masonny trenches with copper/ail 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 underrombing to the size of cables are as underrombing of India) (ii) Cable Termination: - Dowells, Comet b. 3.5 X 50 Sq.mm XLPE. Al. armoured Cable (POWER) 40 Mtr. c. 4X 25 Sq.mm XLPE. Al. armoured Cable (POWER) 40 Mtr. d. 4X 16 Sq.mm XLPE. Al. armoured Cable (UPS INPUT Supply) LIGHT SUPPLY 11 EARTHING c) COPER LATE 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 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, SiF of Cl. I Cover of size 12" X 12" complete as per site requirment. 2 Nos (iii) G.I.PLATE EARTH STATION: Preparation of the Plate Earth Station, the earth pit size is 1000 mm x 1000 mm x 2500 mm deep. (b) SiF of Gl. I plate of size 600 x 600 x 6.0 mm thick. (c) SiF fixing 50 mm x 6 mm, 3 mtrs Gl., Strips from Gl.plate to earth terminal including brazing/ welding at plate etc. (d) Supplying and fixing Copper/Sil strip as per specification compete including marking its value and identification etc. (iii) Providing and fixing Copper/Sil strip as per specification compete including c	10	CABLES			
C 4X 25 Sq.mm XLPE.Al.armoured Cable (POWER) 40 Mtr SLPPLY 30 Mtr SLPPLY		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)			
d 4X 16 Sq.mm XLPE.Al.armoured Cable (UPS INPUT Supply)/ LIGHT SUPPLY SUPPLY SUPPLY SUPPLY SUPPLY 30 Mttr 11 EARTHING (i) COPER 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 requirment. 2 Nos (iii) 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 dep. (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 paring / 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. 3 Nos (iii) Providing and fixing Copper/Gl strip as per specification compete including connection to earth electrode revet	b	3.5 X 50 Sq.mm XLPE. Al. armoured Cable(AC VTPN & BUS BARS)	50	Mtr	
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(ii) 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 requirment. 2 Nos (iii) 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. 3 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 soli/rocks etc complete as required.	11		30	ivitr	
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below in all types of soil/rocks etc complete as requiued(a) Copper Strip 25 X 5 mm 10 Mtr.	(iii)				
10		below in all types of soil/rocks etc complete as requiued.		N/Itr	
1 1015 ISTID 25 X 5 MM I 401 MHd I		(b) G.I.Strip 25 X 5 mm	40		

(iv)	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)	20	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.	2	Nos	
13	TELEPHONE POINT			
	Supplying, Installation, testing and commissioning of the telephone point with the followings			
(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 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			
		9	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		Nac	
14	DATA CABLING FOR LAN	1	Nos	
а	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 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 shuld 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		Nos	
b	Providing and fixing Patch Panels 24 port (100 base TX) CAT 6 patch/jack		1105	
	panel with connector, out lets and necessary connectivity complete as required & (D-Link make)	1	Nos	
С	Providing and fixing Patch Panels 16 port (100 base TX) CAT 6 patch/jack panel with connector, out lets and necessary connectivity complete as required & (D-Link make)	0	Nos	
d	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			
e.	Providing and fixing of flowing factory fabricated Patch cords. (UTP/CAT 6	1	Nos	
1	complte with connector on both side.)			

i)	for 1 Mt. long	23	Nos.	
ii)	for 2 Mt. long	23	Nos	
f)	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.	100	Mtr	
15	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	
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 entier Electrical work (Power/UPS/Light/Data/Telephone/AC etc.) as advised by the Bank's Authority.	1	Lum sum	
	TOTAL:- (B) ELECTRICAL WORK			
	TOTAL IN WORDS:-			
(B)	LIGHT AND FAN FIXTURES			
	Description of light /fan fixture			
	Supply and Installation, Testing and commissioning of the following fittings / equipments in surface/recess mounted as directed etc down rods of size upto 300 mm where ever required with ball sockets, anchor fastner etc complete as per site conditions. All fittings should be hang with suitable size of GI wire to four corner of fittings to the RCC rooftop with suitable size of anchor fastner/heavy gauge screw. The necessary arrangement is made by the contractor to install fittings in false ceiling especially 2'X2' and 4'X1' etc. as per instruction of Bank Engg.			
а	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:- PHILIPS:- RC380B G2 LED 35S-6500 PSU OD WH LED (FULLGLOW) WIPRO:- CRCO10RO 38 HP57 HAVELLS:- LHECDIL7IL1W036 (Edge- Lit) CG:- LCTAR3-40-CDL	18	Nos	
b	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,	20	Nos	
С	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, BAJAJ	4	Nos	
d	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, BAJAJ	30	Mtr	
e.	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	
f)	BOX TYPE LUMINAIRES: LED TUBE FITTINGS, 1200mm, 18/20 Watt PHILIPS/WIPRO/HAVELLS/CG	14	Nos	

g	CEILING 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	7	Nos	
h	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	3	Nos	
i)	WALL FAN:- Oscillating wall fan with regulator i/c coonections etc complete as required as per approved make, Sweep 400 mm , RPM 1300 make are as under: CG/USHA/ ORIENT/HAVELLS	14	Nos	
-	TOTAL. (D) LICUT AND FAN FIVILIDE	14	1105	
.c	TOTAL:- (B) LIGHT AND FAN FIXTURE			
1	AIR CONDITIONING WORK Supply, installation, testing and commissioning of Higher Efficient models of			
	SPLIT AC, THREE STAR RATING OF BEE AIR CONDITIONERS 1.0 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 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 5 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 rate inclusive of all chisel work, plastering, finishing, painting & all civil related work pertaing to mentioned work. Make of ACs:- Daikin/Hitachi/Voltas/Bluestar/Carrier only			

Supply, installation, testing and commissioning of Higher Efficient models of SPLIT AC, THREE STAR RATING OF BEE AIR CONDITIONERS 1.5 Ton Machines confirming to latest Indian Standards and suitable for operation on 230 /olts + 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 5 metres with class "o" witrile insulation 12mm, cabling from indoor to outdoor unit, heavy gauge eVC drain piping with insulation as per site requirement. The copper piping, drains piping and electrical cabling should be fixed with clamps and no loose origing/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 rate inclusive of all chisel work, plastering, finishing, painting & all civil related work pertaing to mentioned work. Make of ACs:- Daikin/Hitachi/Voltas/Bluestar/Carrier only	1	Nos		
Supply, installation, testing and commissioning of Higher Efficient models of SPLIT AC, THREE STAR RATING OF BEE AIR CONDITIONERS 2.0 Ton Machines confirming to latest Indian Standards and suitable for operation on 230 Polts + 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 biping of hard & prime quality of min. 22 G upto 5 metres with class "o" witrile insulation 12mm, cabling from indoor to outdoor unit, heavy gauge EVC drain piping with insulation as per site requirement. The copper piping, drains piping and electrical cabling should be fixed with clamps and no loose opiping/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 rate inclusive of all chisel work, plastering, finishing, painting & all civil related work pertaing to mentioned work. Make of ACs:- Daikin/Hitachi/Voltas/Bluestar/Carrier only		Nos		
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				
Split A condi- condi- condital dettal dettal	AC only" with class "o" Nitrile insulation of minimum 12mm for split air itioner including interconnection power/ communication cable een indoor and outdoor unit as per site requirement. (If required ionally, payment will made as per actual installtion. The rate inclusive I chisel work, plastering, finishing, painting & all civil related working to mentioned work. Make of Insulation:-	AC only" with class "o" Nitrile insulation of minimum 12mm for split air itioner including interconnection power/ communication cable een indoor and outdoor unit as per site requirement. (If required ionally, payment will made as per actual installtion. The rate inclusive I chisel work, plastering, finishing, painting & all civil related work ing to mentioned work. Make of Insulation:-rlon/Aflex/Armacell/Kflex Make of cable:- Finolex/RR/Havells	AC only" with class "o" Nitrile insulation of minimum 12mm for split air litioner including interconnection power/ communication cable een indoor and outdoor unit as per site requirement. (If required ionally, payment will made as per actual installtion. The rate inclusive I chisel work, plastering, finishing, painting & all civil related work ing to mentioned work. Make of Insulation:-	AC only" with class "o" Nitrile insulation of minimum 12mm for split air itioner including interconnection power/ communication cable een indoor and outdoor unit as per site requirement. (If required ionally, payment will made as per actual installtion. The rate inclusive I chisel work, plastering, finishing, painting & all civil related work ing to mentioned work. Make of Insulation:-rlon/Aflex/Armacell/Kflex Make of cable:- Finolex/RR/Havells

5	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			
		80	Mtr	
6	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			
	1.5 IT cussette Act Make. Microtek, V Gurds	5	Nos	
7	Providing & fixing of 5 KVA Voltage stabilizer with time delay option including all accessories with installation at site (For 2Tr Split AC & 2 Tr			
	Cassette AC) Make:-Microtek, V-Gards	5	Nos	
8	Electronic Timer for auto swith on/off to AC of server/ATM/E-lobby for 4Hr/8Hr. Make:- Legrand, L&T, and other Eq. ISI make			
		2	Nos	
	TOTAL:- (.C) AIR CONDITIONING WORK			
	SUMMARY:-			
	(A) TOTAL OF ELECTRICAL WORK			
	(B) TOTAL OF LIGHT AND FAN FIXTURE			
	(C) TOTAL OF AIR CONDITIONING WORK			
	GRAND TOTAL(A+ B+C)			

GST will be paid additionally by the Bank as applicable subject to GST Number.

SEAL AND SIGNATURE OF CONTRACTOR