TENDER FOR RATE CONTRACT FOR PROPOSED ELECTRICAL AND AC WORKS AT VARIOUS BRANCHES UNDER RAIPUR MODULE, DATE: 31.07.2019

A	PART A: ELECTRICAL WORKS:				
	DESCRIPTION OF ITEMS		Otre	Data	A
	DESCRIPTION OF ITEMS	Unit	Qty	Rate	Amount
	ELECTRICAL WIRING WOK				
	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 POINTWIRING 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 X 1.5 Sqmm				
	(P/ N/ E) PVC 650V / 1100V Grade FR insulated coppee conductor single core	l .			
	multi stranded wire in 16 SWG (Medium Guage) stove enameled rigid steel				
	conduit 20mm / 25mm with conduit accessories like bend, junction box etc in	l .			
	concealed / surface manner as per site requirement with suitable Modular switches/ sockets with plate and metal / PVC Box, shaddle, angle 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 3 X 2.5 Sq.MM. The above wiring carried out surfaces or recess in				
	wall / floors/ roof/ should be cutting by cutter/ chiesling, replastering, curing,				
	painting with uniform and smooth finish by specialized workman ship and				
	making the surface neat afterwards complete in all respects as per direction of				
	the Bank Engineer. (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:- Legrand/ Anchor (Roma) MK/ Crab Tree (ii) MS				
	Conduit / PVC Conduit with all accessories:- BEC/ AKG/ NIC/Precision (iii) PVC				
	Insulated copper wire (FR) 650V/ 1100V Grade:- Finolex / RR Cable / Havells				
(a`	Providing and fixing of point wiring with above specifications. One light point	:			
	controlled by one switch.	Noc	60		
/ h \	Providing and fixing of point wiring with same above specifications. Two light	Nos.	60		
(D)	providing and fixing of point wiring with same above specifications. Two light points to be controlled by one switch.				
	<u>'</u>	Nos.	20		
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.	Nos.	18		
(J)	Providing and fixing 6 Amps Plug Points with same specs as above and install		1-0		
(u)	along with same light switchboard		1.5		
		Nos.	16		
(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	Nos.	16		
-	6 AMP. POINTS ON SEPARATE BOARD :				

Supply, fixing, testing and commissioning of 1 No 6 A Multi Socket with 1 No. 6 A switch (Modular type) with cover plate, sheet steel box / PC/ modular box etc on surface / concealed manner I/E electrical connections and making good all the damages, painting, cleaning this state extra complete including all accessories points are loop with one circuit as mentioned below) 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/E 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) Supply, fixing, testing and commissioning of following Modular type switch socket with cover plate, PC/ modular box on Surface / sheet steel box in painting, cleaning the site etc complete including all accessories as per site requirement and sed incected. 2 Nos. 6 A switch + 3 Nos. 6 A, 3 pin Socket (Himimum two and Maximum three points are loop with one circuit as mentioned below) Supply, Installation, Testing and commissioning of the surface / recess mounting A.C. / GEYSER power point with the followings: Metar Ruja and Socket Das with one Nos 20 Amp SP MC3, 20 Amp plug and sacressories as required as per site requirement and as directed by Bank Metar Ruja and Socket Das with one Nos 20 Amp SP MC3, 20 Amp plug and sacressories are required the surface / recess mounting A.C. / GEYSER power point with the followings: Metar Ruja and Socket Das with one Nos 20 Amp SP MC3, 20 Amp plug and sacressories are required as per site requirement and as directed by Bank 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. 4 7 CIRCUIT WIRING: Supplying, providing circuit winning for power/Ups				
Supply, Fixing, testing and commissioning of 1 No 16 A switch & 1 No.six pin 6/16 Amp. Publis 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) Aspectual Points 1; For Computers	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			
Supply, fixing, testing and commissioning of 1 No 16 A switch 8.1 No.six pin (6/16 Amp. Wulti 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) 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 3 pin 5 Socket (Minimum two and Maximum three points are loop with one circuit as mentioned below) 5.AC/Geyser Point (Single Phase) Supply, Installation, Testing and commissioning of the surface / recess mounting A.C. / GEYSER power point with the followings: Meta? Me		Nos.	18	
Supply, fixing, testing and commissioning of 1 No 16 A switch 8.1 No.six pin (6/16 Amp. Wulti 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) 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 3 pin 5 Socket (Minimum two and Maximum three points are loop with one circuit as mentioned below) 5.AC/Geyser Point (Single Phase) Supply, Installation, Testing and commissioning of the surface / recess mounting A.C. / GEYSER power point with the followings: Meta? Me	3 Power Wring (6 / 16 AMP. POWER POINTS)			
SPECIAL POINTS: (For Computers:) Supply, fixing, testing and commissioning of following Modular type switch socket with cover pilete, PVC modular box on Surface / sheet steel box in concealed manner I/c electrical connections and making good all the damages, particularly and the steel complete including all accessories as per site required in the steel complete in the steel of t	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		22	
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 below) 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 MCD, 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 garding all accessories as required as persist requirement and as directed by a supply of the surface of th	4 SPECIAL POINTS : (For Computers)	11001		
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 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) AC Point (Three Phase) (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) Nos. 4 7 CIRCUIT WIRING: Supplying, providing circuit wiring for Power/UPS with following PVC insulated copper conductor single core multi stranded 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 etc. with cover plate, sheet steel box/ PVC modular box etc on surface/ concealed manner I/c electrical connections and making goods all the damages, replateming, painting, cleaning the site etc complete as required as per site condition. The floor/roof/wall junction box should be of Material (i) MS conduit/PVC conduit with all accessories: MS CHARCA MICHARD AND CONDUIT WITH ADD CONDUIT CONDUIT WITH ADD CONDUIT CONDUIT WITH ADD CONDUIT CONDUIT WITH ADD CONDUIT CONDUIT CONDUIT WITH ADD CONDUIT CONDUIT CONDUIT CONDUIT CONDUIT CONDUIT CONDUIT C	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		34	
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 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) AC Point (Three Phase) (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) Nos. 4 7 CIRCUIT WIRING: Supplying, providing circuit wiring for Power/UPS with following PVC insulated copper conductor single core multi stranded 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 etc. with cover plate, sheet steel box/ PVC modular box etc on surface/ concealed manner I/c electrical connections and making goods all the damages, replateming, painting, cleaning the site etc complete as required as per site condition. The floor/roof/wall junction box should be of Material (i) MS conduit/PVC conduit with all accessories: MS CHARCA MICHARD AND CONDUIT WITH ADD CONDUIT CONDUIT WITH ADD CONDUIT CONDUIT WITH ADD CONDUIT CONDUIT WITH ADD CONDUIT CONDUIT CONDUIT WITH ADD CONDUIT CONDUIT CONDUIT CONDUIT CONDUIT CONDUIT CONDUIT C	5 AC/Geyser Point (Single Phase)			
(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) Nos. 4 7 CIRCUIT WIRING: Supplying, providing circuit wiring for Power/UPS with following PVC insulated copper conductor single core multi stranded 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 of an box etc. with cover plate, sheet steel box/ PVC modular box etc on surface/ concealed manner i/c electrical connections and making goods all the damages,re plastering, 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. The length of circuit upto 30 meter length or less as per site condition/requirement 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 3 X 2.5 sgmm (For UPS Circuit/6 amp Separate Board) in suitable size of 16 SWG (MMS) steel conduit as per IS code. 3 X 4.0 sgmm (For AC/Power Circuit) in suitable size of 16 SWG (MMS) steel Conduit as per IS code. R.Mtr 26	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			
(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) Nos. 4 7 CIRCUIT WIRING: Supplying, providing circuit wiring for Power/UPS with following PVC insulated copper conductor single core multi stranded 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 etc. with cover plate, sheet steel box/ PVC modular box etc on surface/ concealed manner i/c electrical connections and making goods all the damages,re plastering, 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 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/requirement 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) SWG (MMS) steel conduit as per IS code. 3 X 2.5 sqmm (For AC/Power Circuit) in suitable size of 16 SWG (MMS) steel (b) conduit as per IS code. R.Mtr 20		Nos.	10	
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) Nos. 4 7 CIRCUIT WIRING: Supplying, providing circuit wiring for Power/UPS with following PVC insulated copper conductor single core multi stranded 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 etc. with cover plate, sheet steel box/ PVC modular box etc on surface/ concealed manner i/c electrical connections and making goods all the damages,re plastering, 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. The length of circuit upto 30 meter length or less as per site condition/requirement 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. R.Mtr 20	, ,			
Supplying, providing circuit wiring for Power/UPS with following PVC insulated copper conductor single core multi stranded 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 etc. with cover plate, sheet steel box/ PVC modular box etc on surface/ concealed manner i/c electrical connections and making goods all the damages,re plastering, 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. The length of circuit upto 30 meter length or less as per site condition/requirement 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 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. 8 R.Mtr 20	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	-	4	
copper conductor single core multi stranded 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 etc. with cover plate, sheet steel box/ PVC modular box etc on surface/ concealed manner i/c electrical connections and making goods all the damages,re plastering, 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. The length of circuit upto 30 meter length or less as per site condition/requirement 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 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. 3 X 4.0 sqmm (For AC/Power Circuit) in suitable size of 16 SWG (MMS) steel (b) conduit as per IS code.	7 CIRCUIT WIRING:			
(a) SWG (MMS) steel conduit as per IS code. R.Mtr 20 3 X 4.0 sqmm (For AC/Power Circuit) in suitable size of 16 SWG (MMS) steel (b) conduit as per IS code. R.Mtr 26	copper conductor single core multi stranded 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 etc. with cover plate, sheet steel box/ PVC modular box etc on surface/ concealed manner i/c electrical connections and making goods all the damages,re plastering, 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. The length of circuit upto 30 meter length or less as per site condition/requirement 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			
(b) conduit as per IS code.	(a) SWG (MMS) steel conduit as per IS code.	R.Mtr		
8 UPS OUTGOING & OTHER WIRING, AS PER REQUIREMENT	(b) conduit as per IS code.	R.Mtr	26	
	8 UPS OUTGOING & OTHER WIRING, AS PER REQUIREMENT			

(a)	3×10 Sqmm copper multistranded wire in 25 mm 16 SGW (MMS) steel conduit.(UPS INPUT DB TO UPS)	R.Mtr	10	
(b)	$3 \ X \ 1.5 \ Sqmm$ copper multistranded wire in suitable size of 16 SWG (MMS) steel conduit.	R.Mtr	5	
©	3 X 2.5 Sqmm copper multistranded wire in suitable size of 16 SWG (MMS) steel conduit.		5	
(d)	3 X 4 Sqmm copper multistranded wire in suitable size of 16 SWG (MMS) steel conduit.	R.Mtr	5	
(e)	5 X 4 Sqmm. Copper multistranded wire in suitable size of 16 SWG (MMS) steel conduit (For Cassette AC)	R.Mtr	40	
(f)	$3\ X\ 6\ Sqmm$ copper multistranded wire in suitable size of $16\ SWG$ (MMS) steel conduit.	R.Mtr	10	
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)			
(a)	Supplying, installation, testing and commissioning of indoor type, sectionalized, 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 inter-connections, connection as per specification complete as required. (The board shall be dust & vermin proof with suitable degree of IP protection) NOTE: All switchgears Ics shall be equal to 100% Icu. Sheet 14 swg: panel sides,upper,lower,and Ft.doors Sheet 16 swg: back side and compartments. Glande plates: 3 mm thick. Cable entry: Provision at bottom and upper 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 with digital voltmeter & ammeter with suitable size of CTs, selector switch etc. C. OUTGOING SWITCHGEARS: (i) 1 Nos- 125Amp TP MCCB for main with 200amp bus bar with indicator. (ii) 160 amp onload changeover with 1 Nos 125 amp 25 KA, TP MCCB for DG supply with 200 amp bus bar with indicator (iii) 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	

(b) Supplying, installation, testing and commissioning of indoor type, sectionalised, compartmentalized, MV Panel board of suitable size fabricated from CRCA sheet of 2 mm thick for frame work, enclosure and doors, 3 mm thick for gland plates with stiffers where required, having vibration free structure chemically treated with seven tank process before painting for surface treatment and powder coated, with aluminum busbar with DMC / SMC busbar supports suitable for 3 Phase 415 V 50 Hz AC supply i/c providing and fixing the following switchgear mounted thereon complete with gaskets and interconnections, connection as per specification complete as required. (The board shall be dust & vermin proof with suitable degree of IP protection) NOTE: All switchgears Ics shall be equal to 100% Icu. Sheet 14 swg: panel sides, upper, lower, and Ft. doors Sheet 16 swg: back side and compartments. Glande plates: 3 mm thick. Cable entry: Provision at bottom and upper 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.160 Amp, 25 KA MCCB with thermal magnetic trip unit WITH Digital Voltmeter & Digital Ammeter sutiable size of CTS, selector switches etc. C. OUTGOING SWITCHGEARS: (i) 1 Nos- 125Amp TP MCCB for main with 200amp bus bar with indicator. (ii) 160 amp onload changeover with 1 Nos 125 amp 25 KA, TP MCCB for DG supply with 200 amp bus bar with indicator (iii) 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)			
	Nos	1	
© Supplying, installation, testing and commissioning of indoor type, sectionalised, compartmentalized, MV Panel board of suitable size fabricated from CRCA sheet of 2 mm thick for frame work,enclosure and doors, 3 mm thick for gland plates with stiffers where required, having vibration free structure chemically treated with seven tank process before painting for surface treatment and powder coated,with aluminum busbar with DMC / SMC busbar supports suitable for 3 Phase 415 V 50 Hz AC supply i/c providing and fixing the following switchgear mounted thereon complete with gaskets and interconnections, connection as per specification complete as required. (The board shall be dust & vermin proof with suitable degree of IP protection) NOTE: All switchgears Ics shall be equal to 100% Icu. Sheet 14 swg: panel sides,upper,lower,and Ft.doors Sheet 16 swg: back side and compartments. Glande plates: 3 mm thick. Cable entry: Provision at bottom and upper sides. The above panel belongs following as under: A. 4 Nos. 300 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. 250 A, 25 KA MCCB with thermal magnetic trip unit WTH 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, firstly it Passed by The Bank Authority, otherwise it will not considered)		1	

Supplying, installation, testing and commissioning of indoor type, sectionalised, compartmentalized, MV Panel board of suitable size fabricated from CRCA sheet of 2 mm thick for frame work, enclosure and doors, 3 mm thick for gland plates with stiffers where required, having vibration free structure chemically treated with seven tank process before painting for surface treatment and powder coated, with aluminum busbar with DMC / SMC busbar supports suitable for 3 Phase 415 V 50 Hz AC supply i/c providing and fixing the following switchgear mounted thereon complete with gaskets and interconnections, connection as per specification complete as required. (The board shall be dust & vermin proof with suitable degree of IP protection) NOTE: All switchgears Ics shall be equal to 100% Icu. Sheet 14 swg: panel sides, upper, lower, and Ft. doors Sheet 16 swg: back side and compartments. Glande plates: 3 mm thick. Cable entry: Provision at bottom and upper sides. The above panel belongs following as under: A. 4 Nos. 600 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: (i) 1 Nos. FP 400 Amp, 36 KA MCCB with thermal magenetic trip unit., 4 Nos 600 amp Al/Cu Bus Bars with all necessary accessories. 3 Nos 250V, LED RYB indicating lamp, Digital Energy meter, Digital Voltmeter & Digital Ammeter sutiable size of CTS, selector switches etc. C. OUTGOING SWITCHGEARS: (i) 1 Nos- 315 Amp, MCCB 25 KA with Al/Cu Bas Bars of 600 amp capacity with all accessories, LED indicators etc (Main MS compartment.) & 2 Nos 63 amp 4 pole MCB (Other MS compartment.) (ii) 1 Nos- 250 amp onload changeover with incommer of 1 Nos- 250 Amp, 4 pole MCCB 25 KA and outgoing of 1 Nos 250 amp, 3 pole MCCB, 25 KA with Al/Cu Bas Bars of 400 amp capacity with all accessories, LED indicators etc (Main MS compartment.) & 2 Nos 63 amp 4 pole MCB (Other MS compartment.) (iii) 1 Nos- 160 Amp, MCCB 25 KA with Al/Cu Bas Bars o			
considered)			
	Nos	1	
Supplying, installation, testing and commissioning of indoor type, sectionalised, compartmentalized, MV Panel board of suitable size fabricated from CRCA sheet of 2 mm thick for frame work, enclosure and doors, 3 mm thick for gland plates with stiffers where required, having vibration free structure chemically treated with seven tank process before painting for surface treatment and powder coated, with aluminum busbar with DMC / SMC busbar supports suitable for 3 Phase 415 V 50 Hz AC supply i/c providing and fixing the following switchgear mounted thereon complete with gaskets and interconnections, connection as per specification complete as required. (The board shall be dust & vermin proof with suitable degree of IP protection) NOTE: All switchgears Ics shall be equal to 100% Icu. Sheet 14 swg: panel sides, upper, lower, and Ft. doors Sheet 16 swg: back side and compartments. Glande plates: 3 mm thick. Cable entry: Provision at bottom and upper sides. The above panel belongs following as under: A. 4 Nos. 600 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: (i) 1 No. FP 630 Amp, 36 KA MCCB with thermal magenetic trip unit., 4 Nos 600 amp Al/Cu Bus Bars with all necessary accessories. 3 Nos 250V, LED RYB indicating lamp, Digital Energy meter, Digital Voltmeter & Digital Ammeter sutiable size of CTS, selector switches etc. C. OUTGOING SWITCHGEARS: (i) 1 Nos-400 Amp, MCCB 25 KA with Al/Cu Bas Bars of 600 amp capacity with all accessories, LED indicators etc. (Main MS compartment.) & 2 Nos 63 amp 4 pole MCB (Other MS compartment.) (ii) 1 Nos-160 Amp, MCCB 25 KA with Al/Cu Bas Bars of 400 amp capacity with all accessories, LED indicators etc. (Main MS compartment.) & 2 Nos 63 amp 4 pole MCB (Other MS compartment.) (iii) 1 Nos-160 Amp, MCCB 25 KA with Al/Cu Bas Bars of 400 amp capacity with all accessories, LED indicators etc. (Note:- Before Placing the Panel order, firstly it P		1	
Supply & Installation of SDP(Surge Protector Device) for general protection of			
main Distribution Board Legrand Make Cat No. 412247 (3P+N), 40 KA, T2-			
Imax 40KA/pole with complete wiring.	Nos	1	

(3)	Providing & fixing 4 way vertical load line double door D.B for AC with 125 Amp. TP MCCB incomer and outgoing to be 2 Nos 32 amp TP MCB, 6 Nos 32 amp SP MCB		1	
()	Providing & fixing 6 way vertical load line double door D.B for AC with 125 Amp. TP MCCB incomer and outgoing to be 3 Nos 32 amp TP MCB, 9 Nos 32 amp SP MCB		1	
	Providing & fixing 6 way vertical load line double door D.B for AC with 160 Amp. TP MCCB incomer and outgoing to be 3 Nos 32 amp TP MCB, 9 Nos 32 amp SP MCB		1	
(3)	Providing & fixing 8 way vertical load line double door D.B for AC with 160 Amp. TP MCCB incomer and outgoing to be 4 Nos 32 amp TP MCB, 6 Nos 32 amp SP MCB		1	
()	Providing & fixing 12 way vertical load line double door D.B for AC with 160 Amp. TP MCCB incomer and outgoing to be 6 Nos 32 amp TP MCB, 18 Nos 32 amp SP MCB		1	
	Providing and fixing 6 way TPN double door DB for LIGHT /POWER POINTS with 63 Amp TPN , controlling 18 Nos. 10/16/32 Amps SPMCBs. & Complete.	Nos	2	
. ,	Providing and fixing 4 way TPN double door DB for LIGHT /POWER POINTS with 63 Amp TPN , controlling 12 Nos. 16/32 Amps SPMCBs. & Complete.	Nos	2	
	Providing and fixing (12) way SPDB double door type For UPS points with 1x32 Amps DP, controlling 10 Nos, 16 AMP SPMCB	Nos	2	
()	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		2	
(1-)	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 (E-lobby/UPS Output)		2	
(q)	Providing and fixing of Kit Kat Rewirable Porcelian fuse carrier & base with wooden frame of 200 amp/415 Volt near meter box	Nos Set	1	
R	Providing and fixing of Kit Kat Rewirable Porcelian fuse carrier & base with wooden frame of 300 amp/415 Volt near meter box	Set	1	
	Providing and fixing of Kit Kat Rewirable Porcelian fuse carrier & base with wooden frame of 400 amp/415 Volt near meter box	Set	1	
10	CABLES			
	Supplying, unloading, storage, laying, testing and commissioning of PVC/XLPE insulated (Heavy Duty) Al/Cu conductor armoured cable suitable for working voltage upto and including 1100 V grade, laid and tied on existing overhead cable trays, or laid and tied over MS supports in masonry trenches with copper/al cable lugs, single compression brass cable glands, tapping, crimping etc. as required and all cables run with double run(2 No.) of GI wire of 8 SWG size. The size of cables are as under:-Make of Material:- (i) PVC/XLPC Armoured cable:- Finolex, Havells, RR cable, CCI(Cable Corp. of India) (ii) Cable Termination:- Dowells, Comet			
	3.5 X 240 Sq.mm XLPE. Al. armoured Cable(Main Cable)	R.Mtr	10	
(-)	3.5 X 185 Sq.mm XLPE. Al. armoured Cable(Main Cable)	R.Mtr	10	
	3.5 X 150 Sq.mm XLPE. Al. armoured Cable(Main Cable) 3.5 X 120 Sq.mm XLPE. Al. armoured Cable(Main cable)	R.Mtr	50	
		1		

(e)	3.5 X 95 Sq.mm XLPE. Al. armoured Cable(Main cable)	R.Mtr	50	
(f)	3.5 X 70 Sq.mm XLPE. Al. armoured Cable(AC VTPN & BUS BARS)/ Main Cable			
		R.Mtr	50	
(g)	3.5 X 50 Sq.mm XLPE. Al. armoured Cable(AC VTPN & BUS BARS)/Main cable			
		R.Mtr	90	
(h)	3.5 X35 Sq.mm XLPE.Al.armoured Cable (POWER)	D Maria	00	
(1)	4X 25 Sq.mm XLPE.Al.armoured Cable (POWER/LIGHT/UPS)	R.Mtr	80	
(1)	4X 23 34.11111 XEI E.A.Ruttiloured Cable (1 OWEIGEIGITI/OI 3)	R.Mtr	80	
(j)	4X 16 Sq.mm XLPE.Al.armoured Cable (LIGHT/UPS)	R.Mtr	50	
11	EARTHING			
(1)	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 X2500mm. (b) Supply and fixing of Copper Plate of Size 600 mm X 600mmX3.0mmthick. (c) Fixing of 50 mm X 6 mm, 3 Mtrs copper strips from Copper Plate to earth terminal including brazing/welding atplateetc. (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)75Kg.Charcoal. (ii)15Kg.OriginalSalt. (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.			
		Nos	2	
. ,	G.I.PLATE 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 x2500mmdeep. (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 plateetc. (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 soilofadequateamount. (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.	Nos	5	
(iii)	Providing and fixing Copper/GI strip as per specification compete including connection to earth electrode revetting/sweating/soldering, burying 15 cms below in all types of soil/rocks etc complete as required. (a) Copper Strip 25 X 5 mm.		10	
	(b) G.I. Strip 25 X 5 mm	R.Mtr	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)		30	
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.		4	

13	TELEPHONE POINT			
	Supplying, Installation, testing and commissioning of the telephone point with the followings			
	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,re-plastering, 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		12	
	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	
/iii)	Supply, installation, testing and commissioning of the following size jelly filled		1	
	armoured tehephone cable. 20 pair	R.Mtr	40	
14	DATA CABLING FOR LAN			
	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		26	
(b)	Providing and fixing Patch Panels 24 port (100 base TX) CAT 6 patch/jack panel with connector, out lets and necessary connectivity complete as required & (D-Link make)			
	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-	Nos Nos	1	
()	Providing and fixing Patch Panels 8 port (100 base TX) CAT 6 patch/jack panel with connector, out lets and necessary connectivity complete as required $\&$ (D-Link make)	Nos	1	
(-)		Nos	1	
, ,	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	
	Providing and fixing of flowing factory fabricated Patch cords. (UTP/CAT 6 complete with connector on both side.)			

(I) or 1 Mt. long	Nos	26	
(ij) or 2 Mt. long	Nos	26	
(h) 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		20	
accessories to interconnect the switches from different location.	R.Mtr	100	
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	-		
accessories complete in air respect	Nos	1	
16 Supply and installation of Vinyl sticker for on Electrical DBs like, " Switch Off at Night", Switch Off For Safety, etc	Nos	10	
17 Making & Providing of 3 sets of as built Drawing with coloured print for entire Electrical work (Power/UPS/Light/Data/Telephone/AC etc.) as advised by the Bank's Authority.		1	
18 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 switch gears and making all wiring/cabling/switch gears 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	
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.			
19 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	Nos	20	
20 LED LUMINARES:- 1 x4' (FULL GLOW TYPE) LED light fittings (300 X1200mm) 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:- CRC010RO 38 HP57 HAVELLS:- LHECDIL7IL1W036 (Edge- Lit) CG:- LCTAR3-40-CDL			
	Nos	20	
21 LED DOWNLIGHTER: 15 Watt, recessed mounted circular down lighter, 6" dimension with complete its electronic driver are as under:- PHILIPS:- GREENLED-DN193B LED-12S-6500 PSU WIPRO:- IRIS LED LD 71-121-XXX-50-XX HAVELLS:- LHEBJNP ZPZ 1W 015(ENDURA LOW DEPTH) CG:- LC DD-15-CDL,		30	
22 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	Nos	4	
23 External LED Light- Providing & Fixing of 30 watt LED light fixture, pressure die cast aluminium housing, heat resistant glass, IP 65 protection & better optics for uniform distribution. PHILIPS, WIPRO, HAVELLS, CG			
	Nos	4	

	LED Spot Light, 3 Watt, 2/3"(Inches) size as per site requirement PHILIPS,			
	WIPRO, HAVELLS, CG	N	0	
	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.		60	
	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	
	BOX TYPE LUMINAIRES: LED TUBE FITTINGS, 1200mm, 18/20 Watt PHILIPS/WIPRO/HAVELLS/CG		20	
	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		18	
	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			
		Nos	4	
	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		1	
31	SUB TOTAL : PART A (ELECTRICAL WORKS)		_	
31	SUB TOTAL : PART A (ELECTRICAL WORKS)		_	
	PART B: AIR CONDITIONING WORKS:			
<u>B</u>				
<u>B</u>	PART B: AIR CONDITIONING WORKS: AIR CONDITIONING WORK Supply, installation, testing and commissioning of following AIR CONDIRIONERS as under. The Rate shall be inclusive of all taxes excluding GST. GST will be paid additionally by the Bank as applicable subject to GST Number. and system has complete one year warranty & If any additional warranty provided by company/vendor in any specific part like compressor etc that is acceptable,			

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 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		4	
		4	
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 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			
	Nos	4	
Supply, installation, testing and commissioning of Higher Efficient models of CASSETTE TYPE AIR CONDITIONERS(Two) 2.0 Ton Machines confirming to latest Indian Standards and suitable for operation on 230 Volts + 10 %, three Phase, 50 Hz AC supply with Scroll compressor, Refrigerant and capable to perform cooling, dehumidifying, Air Circulating, auto mode, auto swing, anti bacteria filtering, ventilation and with remote control with Cool/Fan/Dry/Auto mode, sleep mode & on/off timer with suitable thermostat. The rate should include installation charges after making appropriate changes in existing false ceiling. Heavy ready made/fabricated M S Stand to house the out door unit as per site conditions including carpentry work, minor civil work and 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 rates inclusive of all repairs of civil and carpentry work The out door unit should be anti-rust powder coated. 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	1	

Supply, installation, testing and commissioning of Higher Efficient models of CASSETTE TYPE AIR CONDITIONERS(Three) 3.0 Ton Machines confirming to latest Indian Standards and suitable for operation on 415 Volts + 10 %, three Phase, 50 Hz AC supply with Scroll compressor, Refrigerant and capable to perform cooling, dehumidifying, Air Circulating, auto mode, auto swing, and bacteria filtering, ventilation and with remote control with Cool/Fan/Dry/Automode, 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 coppe piping, drains piping and electrical cabling should be fixed with clamps and not loose piping/cabling is allowed. The rates inclusive of all repairs of civil and carpentry work The out door unit should be anti-rust powder coated. 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		2	
37 Supply, installation, testing and commissioning of Higher Efficient models of CASSETTE TYPE AIR CONDITIONERS(Four) 4.0 Ton Machines confirming to latest Indian Standards and suitable for operation on 415 Volts + 10 %, three Phase, 50 Hz AC supply with Scroll compressor, Refrigerant and capable to perform cooling, dehumidifying, Air Circulating, auto mode, auto swing, and bacteria filtering, ventilation and with remote control with Cool/Fan/Dry/Automode, 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 coppe piping, drains piping and electrical cabling should be fixed with clamps and no loose piping/cabling is allowed. The rates inclusive of all repairs of civil and carpentry work The out door unit should be anti-rust powder coated. 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 pertaining to mentioned work. Make of ACs: Daikin/Hitachi/Voltas/Bluestar/Carrier only	Nos	2	
38 Supply and installation of hard & prime quality of min. 22 G Copper pipe fo			
"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 installation) The rate inclusive of all chisel work, plastering, finishing, painting & all civil related work pertaining to mentioned work. Make of Insulation: Superlon/Aflex/Armacell/Kflex . Make of cable:Finolex/RR			
	R.Mtr	60	
39 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 ai conditioner including interconnection power/ communication cable between indoor and outdoor unit as per site requirement. (If required additionally payment will made as per actual installation The rate inclusive of all chisel work plastering, finishing, painting & all civil related work pertaining to mentioned work. Make of Insulation:- Superlon/Aflex/Armacell/Kflex Make of cable: Finolex/RR/Havells			
	R.Mtr	60	
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	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 pertaining to mentioned work. (If required additionally, payment will made as per actual installation) Make:- Kasta/supreme		80	
	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)		6	
	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-Guards. (Voltage Range 150- 280 Volts)	Nos	4	
	Electronic Timer for auto switch on/off to AC of server/ATM/E-lobby for 4Hr/8Hr. Make:- Legrand, L&T, and other Eq. ISI make	Nos	2	
	De installation and refixing of Existing split AC after necessary cleaning with gas toping as required in the new location as per site condition inclusive all necessary civil machinery, ply & electrical work.		3	
			3	
46	SUB TOTAL: PART B (AIR CONDITIONING WORKS)			
47	GRAND TOTAL (C)= (A+ B) Excluding GST extra as applicable.			

GST will be paid additionally by the Bank as applicable

Date:	
Place:	Sign, Name & Stamp of Contractor