ESTI	MATES & SPECIFICATIONS FOR PROPOSED ELECTRICAL AND AIR COM BILASPUR MODULE.	IDITIONING	WORKS FO	OR BILHA BI	RANCH, RBO-1
S.No.	Description of Item	Qty	Unit	Rate	Amount
Α	Part A : Electrical Works :				
	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, IS code, follow in all items of project/ work execution. Proper ferrules, lux, thimble, gland termination to				
	be done in all cabling & wiring from both load/source end. Conduit carrying submain will				
	not carry circuit/point wiring. Similarly conduit carrying circuit wiring will not carry				
	submain/point wiring. Conduit carrying point wiring will not carry submain/circuit wiring.				
	All Electrical works (Cabling/wiring/panel etc) to be carried out as per layout/General				
	Arrangement (GA)Drawing attached only.				
1	ELECTRICAL WIRING				
	Providing, fixing, testing and commissioning of POINT WIRING of any length for light point/Wall fan point/Exhaust fan point/ Call bell point/ including call bell/ including fan				
	box(if required), 'S' type fan hook etc with 3 X 1.5 Sq.mm(P/N/E) PVC 650V/1100V Grade				
	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				
-	Providing and fixing of point wiring with above specifications. One light point controlled	50	Nec		
а	by one switch.	50	Nos.		
b	Providing and fixing of point wiring with same above specifications. Two light points to be controlled by one switch.	20	Nos		
	,				
с	Providing and fixing of ceiling fan point controlled as under	15	Nos.		
L	(i) one 6 amp switch(ii) one no stepped electronic regulator of two module type.	15	NOS.		
	providing and fixing 6 Amps Plug Points with same specs as above and install along with				
d	same light switchboard	12	Nos		
	Master switch of 16 Amps(Only Grey/Golden/Wooden colour other than white colour)				
e.	to install alongwith same light switch board to control all light as a master switch ON/OFF	12	Nos		
	in each switch board				
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,	10	Nos		
	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)				
3	Power Wring (6 / 16 AMP. POWER POINTS)				
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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 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	8	Nos	
	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.	8	Nos	
	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)			
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.	5	Nos	
	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)			
6	AC Point (Three Phase)			
	Supply, Installation, Testing and commissioning of the surface / recess mounting A.C.			
	Cassette power point with the followings :			
	Metal enclose Four way with one Nos 32 Amp FP MCB with complete Enclosur plate and box 1 set i/c electrical connections and wires/cables and making good all the damages,			
a.	painting, cleaning the site etc complete as required as per site requirement and as	3	Nos	
ļ	directed. (Only one point is connected with one circuit as mentioned below)			
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 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/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			
а	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	Nos	
b	3 X 4.0 sqmm (For AC/Power Circuit) in suitable size of 16 SWG (MMS) steel conduit as per IS code.	5	Nos	
с	5 x 4.0 sqmm (for three phase AC Circuit) in suitable size of 16 SWG(MMS) steel conduit	5	Nos	
8	as per IS code. UPS OUTGOING & OTHER WIRING, As Per Requirment.			
	Copper multistreand wire should be of approved brand / make. 3 x 10 Sqmm copper multistreand wire in 25 mm 16 SGW (MMS) steel conduit.(UPS	10	R.Mtr	
(a)	INPUT DB TO UPS)	10		
(b)	3 X 1.5 Sqmm copper multistreand wire in suitable size of 16 SWG (MMS) steel conduit.	10	R.Mtr	
(c)	3 X 2.5 Sqmm copper multistreand wire in suitable size of 16 SWG (MMS) steel conduit.	30	R.Mtr	
(d)	3 X 4 Sqmm copper multistreand wire in suitable size of 16 SWG (MMS) steel conduit.	40	R.Mtr	
(e)	5 X 4 Sqmm. Copper multistrend wire in suitable size of 16 SWG (MMS) steel conduit (For Cassettee AC)	50	R.Mtr	

9 DisTREBUTION BEARDS Image: Construction of the sufficiency receives mounting field with the suffi	All WEB to be "C" enrice Image: instruction, Testing and commissioning of the surface/recess mounting following uses, NGL DB 230/415 Vollss with timest copper busbs, metral bar, enth bar, dish bar detechnice ign plates, interconcents and making exploit the damage, barning, cleaning, the site etc complete as required as per site requirement. All MCCB has braking capacity is 254/454 and All MC2R/CHE has bracking capacity is 254/464 Parel: As per 15 Standardy/CPRT lested. Image: Complete as required as per site requirement. All MCCB has braking capacity is 254/464 DBU/MCCD/MC2B- Legrand/Semesit/Tegge/Chriedler only Image: Complete as required as per site requirement. All MCCB has braking capacity is 254/464 Supplying: installation. besing and commissioning of Indoor type. sectionalized. Image: Complete as required and the complete as required. Supplying: installation. besing and commissioning of Indoor type. sectionalized. Image: Complete as required and readow of simulated with all mouth on bubar with DMC / SMC. bubars vapports utable for 3 Phase 415 V 50 Faz / Supplying: notabure with parkets and interest end to advise a sectional parket with all mouth on bubar with DMC / SMC. bubars vapported on SMC/DMC molded supports with there an angoed capacity with all mouth on bubar with DMC / SMC. bubars vapported on SMC/DMC molded supports with there and angoed capacity with all mouth on bubar with parket and the dust as werming and there want angoed capacity with all mouth on bubar with molded with value and the dust as werming and the					1	
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Supply, Installation, Testing and commissioning of the suffick/resess mounting following ways NCB D230415 Volts: With times Coger busings, metarlable, and thus of dub to detachable gluing plate, interconnection and making good all the damages, painting, cleaning the set oc complete as required as part site requirement. All MCD has braking capacity is 254A and ALL MCB/ECB has braking capacity has 30 KA. Make of Materials Panel-As perf Standards/CPRII toted.	exply.installation. Testing and commissioning of the sufficiences pairing. Image: Comparison of the sufficience of the suffic	9					
Panel-AcperisStandard/CPNITested Image: Standard/CPNITested Des/MCCS/MCS/MCS-Legand/Stemes/Hager/Stheeder only Image: Standard/CPNITested Supplying: Installation, testing and commissioning of indoor type, sectionalised, compartmentaled, MV Panel baar of sustable tais fabricated from CRCA theet of 2 mm thick for frame work-indocure and doors, 3 mm thick for global places with suffies swhere before praining for suffice trendment and power conclustwith authoms bashar with DBC/C (SMC bashar supports suitable for 3 Phase 415 V SU Hz Ac supply (C) providing and flating for suffice trendment and power conclustwith authoms bashar with DBC/C (SMC bashar supports suitable for 3 Phase 415 V SU Hz Ac supply (C) providing and flating for suffice trendment and power conclustwith authoms bashar with DBC/C (SMC bashar support suitable for 3 Phase 415 V SU Hz Ac supply (C) providing and flating supports and bashar with a suffice suffice stress and an authom prod with suitable degree of IP protection) NOTE: all switchings is class if and a log support and SMC/CBC mode supports with a suffice suffice stress and support sides. 1 Nos a Collect entry: Provision and upper sides. 1 Nos 1 Nos (I) 10.40 F L22 A 254 AMCE for man with 200mp bus bar with indicator. (I) 10.40 F L22 A 254 AMCE for man with 200mp bus bar with indicator for 0.50 kply with 200 and bashar with 1 Mcc2 and 254 km2 for on an with 200mp bus bar with indicator. 1 Nos (I) 10.40 F L22 A 254 AMCE for man with 200mp bus bar with indicator for 0.50 kply with 200 and bashar with 1 Mcc2 and 254 kmp 254 km2 for 0.50 kply with 200 and bashar with 1054 changes were authore ano	Panel-As per IS Standards/CPRI Tested. Image: Comparison of		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				
DBJ/MCG/MCB-Legand/Semant/Segret/Schmeider only Image: Compartment Planging the Plane dorder, firstly IP Planed by The Bank Authority, otherwise Image: Compartment Planging the Plane dorder, firstly IP Planed by The Bank Authority, otherwise Supplying, Installation, testing and commissioning of indoor type, sectionalised, compartment back, for frame work, enclosure and doors, 3 mm thick for gland plates with stiffers where required, having windration free structure chernically to 50 H Ac Supply (Fip providing and fibing the for 3Phase 415 Vol H Ac Supply (Fip ording) and fibing the following switchpaar mounted thereon complete with spikets and interconnecting, beak state and counting to significate as regulared. Name the plane spiket is the spiket stand interconnecting, beak state and count is spiket and the spiket stand there and the spiket stand there and the spiket stand there and the spiket stand the spiket stand state spiket sp	DB/MACCE/MCB: Legrand/Siemen/Hagger/Schneider only Image: Construction of the set of t						
Nos: Before Bioing the Panel order, firstly IP Based by The Bank Authority, otherwise Image: Comparison of the Co	[Note:: Before Placing the Panel order, firstly it Passed by The Bank Authority, otherwise it will not outsidered] Image: Supplying installation, testing and commissioning of indoor type, sectionalised, compartmentalized, MV Panel board of subble site fabricated from CRA sheet 0.2 mm thick for frame and dowds, amm thick for grant plate swith suffers where required, having what note and dowds, amm thick for grant plate swith subtre with Suffers where required, having what net and power consult with animum busber with DMC / SMC busber supports suitable for 3 Phase A15 V 50 Hz A5 supply (/p roviding and fixing the following withdger mouted thereon consult with animum busber with DMC / SMC busber supports suitable for 3 Phase A15 V 50 Hz A5 supply (/p roviding and fixing the following withdger mouted thereon consult with animum busber with DMC / SMC busber support and SMC/DMC molecit support with subtreating spin alide, upport and SMC/DMC molecit support with Attracting panel side, upport and SMC/DMC molecit support with Setter 13 swg; back side and compartments. Image: SMC Bite CLAWS, SOUTHOEGAES, [198 LED indicators for Both Main/DD [01 Non Fr-125 A. , 25 A. MCCI with thermal magnetic trip unit with digital voltmeter & c. DUIGOMOS SWITCHEGAES, [198 LED indicators for Both Main/DD] [01 Non 2: SPAN PT MCCE for main with 200ang bus bar with indicator. Image: SMCINCHEGAES, [198 LED indicators for Both Main/DD] [01 Non Fr-125 A. , 25 A. MCCI with thermal magnetic trip unit with digital voltmeter & c. DUIGOMOS SWITCHEGAES, [198 LED indicators for Both Main/DD] [01 Non Fr-125 A. , 25 A. MCCI with thermal magnetic trip unit with digital voltmeter & c. DUIGOMOS SWITCHEGAES, [198 LED indicators for Both Main/DD] [01 Non Fr-125 A. , 25 A. MCCI with The SM and 25 A. IP MACCI for DG Supply with 200 amp bus bar for parallel connection with DG Anageover output [10] Noc SWITCHEGAES, [198 LED indicators for Both Main/DD]						
it will not considered) Image: Sectional Section 2014 (Sectional Sectional Sectional Sectional Sectional Sectional Sectional Sectional Sectional Sectional Section 2014) Image: Sectional	trull not considered) Image: the set of th						
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 surves that Micro Sheet of 2 mm thick for frame work, enclosure and doors, 3 mm thick for gland plates with surves tank process before painting for surface transment and power catele, with a luminum busbar with DMC / SMC busbar supports suitable for 3 Phase 415 V 50 H A C supplie (/ protection] NOTE : All sufficience in the low tas X even mounded therein complete with gaskes and interconnections, connection as per specification complete as required. 1 Nos 3 Sheet 1.5 swit: back side and compartments. 1 Nos Sing daile entry. Provision at bottom and upper sides. 1 Nos The above panel beloong following a sunder. 1 Nos Sing daile patry. Provision at bottom and upper sides. 1 Nos The above panel beloong following a sunder. 2 2 The above panel beloong following a sunder. 2 2 Sink DAI Switt Site Site Site Site Site Site Site S	compartmentalized, MV Panel board of subable size fabricated from CRCA sheet of 2 mm thick for frame work, enclosure and doors, 3 mm thick for gland plates with sitters when the first of the following which gas and doors, 3 mm thick for gland plates with sitters with the first of the following which gas mounded the following which gas methods: Image: Signal glad support (Signal glad glad glad glad glad glad glad gl						
b Distribution Board Legrad Make Cat No. 412247 (3P+N), 40 KA, T2- Imax 40KA/pole with complete wiring. 1 Nos c 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. 1 Nos d Providing and fixing 4 way TPN double door DB for LIGHT /POWER POINTS/AC with 63 Amp TPN , controlling 12 Nos. 16/32 Amps SPMCBs. & Complete. 1 Nos e Providing and 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 Nos f Providing and fixing (12) way SPDB double door type For UPS points with 1x32 Amps DP, controlling 10 Nos, 16 AMP SPMCB 1 Nos. g Providing and fixing (8) way SPDB double door type For Light DB only for Emergency Lights like glow sign etc with timer and 1x32 Amps DP, controlling 6 NO.10 A./16 AMP SPMCB 1 Nos. g Providing and fixing (4) way TPN double door type For UPS INPUT with 1x63 Amps SPMCB 1 Nos. h Providing and fixing of Kit Kat Rewirable Porcelian fuse carrier & base with wooden frame of 200 amp/415 Volt near meter box 1 Set	b Distribution Board Legrad Make Cat No. 412247 (3P+N), 40 KA, T2- Imax 40KA/pole with an analysis of the second seco	а	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.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: (ii) 1 Nos-125Amp 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 (iii) 200 amp bus bar for parallel connection with DG changeover output (iver: Before Placing the Panel order, firstly it should be Passed by The Bank Authority,	1	Nos		
c TPN , controlling 18 Nos. 10/16/32 Amps SPMCBs. & Complete. 1 Nos 1 Nos d Providing and fixing 4 way TPN double door DB for LIGHT /POWER POINTS/AC with 63 Amp TPN , controlling 12 Nos. 16/32 Amps SPMCBs. & Complete. 1 Nos 1 Nos e 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 Nos 1 Nos f Providing and fixing (12) way SPDB double door type For UPS points with 1x32 Amps DP, controlling 10 Nos, 16 AMP SPMCB 1 Nos. 1 Nos. g Providing and fixing (8) way SPDB double door type For Light DB only for Emergency Lights like glow sign etc with timer and 1x32 Amps DP, controlling 6 NO.10 A./16 AMP 1 Nos. 1 Nos. g Providing and fixing (4) way TPN double door type For UPS INPUT with 1x63 Amps TPNand 63 amp TP MCB- 3 Nos & 3 Nos, 32 amp SP MCB complete (E-lobby/UPS Output) 1 Nos. 1 1 i Providing and fixing of Kit Kat Rewirable Porcelian fuse carrier & base with wooden frame of 200 amp/415 Volt near meter box 1 Set 1 Set 1	C TPN, controlling 18 Nos. 10/16/32 Amps SPMCBs. & Complete. 1 Nos d Providing and fixing 4 way TPN double door DB for LIGHT /POWER POINTS/AC with 63 Amp TPN, controlling 12 Nos. 16/32 Amps SPMCBs. & Complete. 1 Nos e 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 Nos f Providing and fixing (12) way SPDB double door type For UPS points with 1x32 Amps DP, controlling 10 Nos, 16 AMP SPMCB 1 Nos. g Providing and fixing (8) way SPDB double door type For Light DB only for Emergency Lights like glow sign etc with timer and 1x32 Amps DP, controlling 6 NO.10 A./16 AMP 1 Nos. g Providing and fixing (4) way TPN double door type For UPS INPUT with 1x63 Amps TPNand 63 amp TP MCB- 3 Nos & 3 Nos, 32 amp SP MCB complete (E-lobby/UPS Output) 1 Nos. i Providing and fixing of Kit Kat Rewirable Porcelian fuse carrier & base with wooden frame of 200 amp/415 Volt near meter box 1 Set 1	b	Distribution Board Legrad Make Cat No. 412247 (3P+N) , 40 KA, T2- Imax 40KA/pole with	1	Nos		
a Amp TPN, controlling 12 Nos. 16/32 Amps SPMCBs. & Complete. 1 Nos 1 Nos e 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 Nos 1 Nos e Providing and fixing (12) way SPDB double door type For UPS points with 1x32 Amps DP, controlling 10 Nos, 16 AMP SPMCB 1 Nos. 1 1 Nos. f Providing and fixing (8) way SPDB double door type For Light DB only for Emergency Lights like glow sign etc with timer and 1x32 Amps DP, controlling 6 NO.10 A./16 AMP 1 Nos. 1 1 Nos. g Providing and fixing (4) way TPN double door type For UPS INPUT with 1x63 Amps 1 Nos. 1 1 Nos. h Providing and fixing of Kit Kat Rewirable Porcelian fuse carrier & base with wooden frame of 200 amp/415 Volt near meter box 1 Set 1 Set 1	a Amp TPN, controlling 12 Nos. 16/32 Amps SPMCBs. & Complete. 1 Nos 1 Nos e 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 Nos 1 Nos e Providing and fixing (12) way SPDB double door type For UPS points with 1x32 Amps DP, controlling 10 Nos, 16 AMP SPMCB 1 Nos. 1 <td>с</td> <td></td> <td>1</td> <td>Nos</td> <td></td> <td></td>	с		1	Nos		
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T controlling 10 Nos, 16 AMP SPMCB 1 Nos. Providing and fixing (8) way SPDB double door type For Light DB only for Emergency Nos. 1 Nos. g Providing and fixing (8) way SPDB double door type For Light DB only for Emergency Nos. Nos. 1 g Lights like glow sign etc with timer and 1x32 Amps DP, controlling 6 NO.10 A./16 AMP 1 Nos. 1 SPMCB Providing and fixing (4) way TPN double door type For UPS INPUT with 1x63 Amps 1 Nos. 1 h Providing and fixing (4) way TPN double door type For UPS INPUT with 1x63 Amps 1 Nos. 1 i Providing and fixing of Kit Kat Rewirable Porcelian fuse carrier & base with wooden frame 1 Set 1 i Providing and fixing of Kit Kat Rewirable Porcelian fuse carrier & base with wooden frame 1 Set 1	T controlling 10 Nos, 16 AMP SPMCB 1 Nos. Image: Controlling 10 Nos, 16 AMP SPMCB Providing and fixing (8) way SPDB double door type For Light DB only for Emergency Lights like glow sign etc with timer and 1x32 Amps DP, controlling 6 NO.10 A./16 AMP 1 Nos. Image: Controlling 10 Nos. g Lights like glow sign etc with timer and 1x32 Amps DP, controlling 6 NO.10 A./16 AMP 1 Nos. Image: Controlling 10 Nos. g Lights like glow sign etc with timer and 1x32 Amps DP, controlling 6 NO.10 A./16 AMP 1 Nos. Image: Controlling 10 Nos. h Providing and fixing (4) way TPN double door type For UPS INPUT with 1x63 Amps 1 Nos. Image: Controlling 10 Nos. h Providing and fixing (4) way TPN double door type For UPS INPUT with 1x63 Amps 1 Nos. Image: Controlling 10 Nos. i Providing and fixing of Kit Kat Rewirable Porcelian fuse carrier & base with wooden frame 1 Set Image: Controlling 10 Nos. i Providing and fixing of Kit Kat Rewirable Porcelian fuse carrier & base with wooden frame 1 Set Image: Controlling 10 Nos.	e		1	Nos		
g Lights like glow sign etc with timer and 1x32 Amps DP, controlling 6 NO.10 A./16 AMP 1 Nos. SPMCB 1 Nos. 1 h Providing and fixing (4) way TPN double door type For UPS INPUT with 1x63 Amps 1 Nos. h TPNand 63 amp TP MCB- 3 Nos & 3 Nos, 32 amp SP MCB complete (E-lobby/UPS Output) 1 Nos. i Providing and fixing of Kit Kat Rewirable Porcelian fuse carrier & base with wooden frame of 200 amp/415 Volt near meter box 1 Set	g Lights like glow sign etc with timer and 1x32 Amps DP, controlling 6 NO.10 A./16 AMP 1 Nos. SPMCB 1 Nos. 1 h Providing and fixing (4) way TPN double door type For UPS INPUT with 1x63 Amps 1 Nos. h TPNand 63 amp TP MCB- 3 Nos & 3 Nos, 32 amp SP MCB complete (E-lobby/UPS Output) 1 Nos. i Providing and fixing of Kit Kat Rewirable Porcelian fuse carrier & base with wooden frame of 200 amp/415 Volt near meter box 1 Set	f		1	Nos.		
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	10 CABLES	i		1	Set		
	10 CABLES						

:	Supplying, unloading, storage, laying, testing and commissioning of PVC/XLPE insulated				
1	(Heavy Duty) AI/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 50 Sq.mm XLPE. Al. armoured Cable(AC VTPN & BUS BARS)/Main cable.	50	Mtr		
		50	ivici		
		20			
b	3.5 X35 Sq.mm XLPE.Al.armoured Cable (POWER).	20	Mtr		
C 4	4X 25 Sq.mm XLPE.Al.armoured Cable (POWER/LIGHT/UPS)	20	Mtr		
d 4	4X 16 Sq.mm XLPE.Al.armoured Cable (LIGHT/UPS)	30	Mtr		
11	EARTHING				
	COPPER PLATE EARTH STATION:				
Ľ	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.				
F					
	(c) Fixing of 50 mm X 6 mm, 3 Mtrs copper strips from Copper Plate to earth terminal				
(II) F	ncluding brazing/welding at plate etc.	1	Nos		
	(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.				
E	(ii) 15 Kg. Original Salt.				
Ľ	(iii) Black Cotton soil of adequate amount.				
1	(f) Construction of earth pit chamber including necessary brick work concrete, plastering,				
2	S/F of C.I Cover of size 12" X 12" complete as per site requirment.				
	G.I.PLATE EARTH STATION :				
	Preparation of the Plate Earth Station: (as per IS:3043)				
P	(a) Excavation of rocky earth, soft murrum, hard murrum etc and back filling with black				
6	cotton soil for the earth station, the earth pit size is 1000 mm x 1000 mm x 2500 mm				
	deep.				
- 7	(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.	2	Nos		
- · · –		2	1105		
	(d) Supplying and laying in position 19 mm, 2 mtrs G.I. 'B' class pipe for watering.with				
	reducer/funnel with mesh.				
Ľ	(e) S/F of the following in the earth station.				
-	75 Kg. Charcoal, 15 Kg. Original Salt. and Black Cotton soil of adequate amount.				
- 7	(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 reg and marking its value and				
	identification etc.				
——-ť	dentification etc.			+	+
\rightarrow					+
	Providing and fixing Copper/GI strip as per specification compete including connection to				
(iii) e	earth electrode revetting/sweating/soldering, burying 15 cms below in all types of				
	soil/rocks etc complete as requiued.				
	(a) Copper Strip 25 X 5 mm	8	Mtr.		
-	(b) G.I.Strip 25 X 5 mm	8	Mtr	1	1
——+'	or on one 20 A 0 mm	0	1710	+	1
			1	1	
	Supply and laying of 10 Sq.mm 650V/1100 V PVC grade insulated copper wire in 15 mm				1
(iv) (G.I. Pipe ISI grade including all accessories complete as required. (Dedicated Earthing for	30	Mtr.		
(iv) (30	Mtr.		
(iv) (G.I. Pipe ISI grade including all accessories complete as required. (Dedicated Earthing for	30	Mtr.		
(iv) (G.I. Pipe ISI grade including all accessories complete as required. (Dedicated Earthing for UPS output DB only)	30	Mtr.		
(iv) (G.I. Pipe ISI grade including all accessories complete as required. (Dedicated Earthing for UPS output DB only) OCCUPANCY SENSORS:-	30	Mtr.		
(iv) (G.I. Pipe ISI grade including all accessories complete as required. (Dedicated Earthing for UPS output DB only) OCCUPANCY SENSORS:- Supply, installation , testing and commissioning of occupancy sensor surface/recess	30	Mtr.		
(iv) (G.I. Pipe ISI grade including all accessories complete as required. (Dedicated Earthing for UPS output DB only) 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	30	Mtr.		
(iv) (10 12	G.I. Pipe ISI grade including all accessories complete as required. (Dedicated Earthing for UPS output DB only) 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				
(iv) (10 12	G.I. Pipe ISI grade including all accessories complete as required. (Dedicated Earthing for UPS output DB only) 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				
(iv) (12	G.I. Pipe ISI grade including all accessories complete as required. (Dedicated Earthing for UPS output DB only) 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				
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(iv) (12 12	G.I. Pipe ISI grade including all accessories complete as required. (Dedicated Earthing for UPS output DB only) 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.				
(iv) (12 13	G.I. Pipe ISI grade including all accessories complete as required. (Dedicated Earthing for UPS output DB only) 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. TELEPHONE POINT				
(iv) (12 12 13 5 5 5 5 5 5 5 5 5 5 5 5 5	G.I. Pipe ISI grade including all accessories complete as required. (Dedicated Earthing for UPS output DB only) 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.				

The optic 0.61 mm dist. stephone cable time? colore of outworks of V-C insulated and sheatbed, increating, and transmission of parts and proceed. Double with share increating and transmission of the stephone cable up to 3 mm dist. (Mark 1) with stable size X0/25 mm dist. (Mark 1) with stables are X0/25 mm dist. (Mark 1) with states are constrained with the accessories and water/dist microine. 2 Nos Mark of Matrical: botton/finnion/dist cable 1 Nos 1 Nos Stabph, installation, testing and card mark in the commode with the accessories and water/dist microine. 20 Mit 1 Nos 10 a and shift be terminate both incommissioning of the following size jeld filled armound indive, water profiles and locking armagement and shift be advected with the accessories with advected water dist with commissioning of the dist water with the accessories with advected water distable water distable water with the accessories with advected water distable water distable water with the accessories with advected water distable water with the accessories with the advected water distable water with the advected water distable water with the advected water withe water with the advected water distable water with						
a scessories subtable for the multi core telephone cable and shall accommodate in plated phosphor horone connectors, the connectors shall be lock is up to 0.5. Im. 1 Nos Image: connector shall be terminate both incoming and out going lines, the tag blocks shall be mounted indice, water proof box and locking arrangement and shall be fully accessione. 1 Nos Image: connectors shall be mounted indice, water proof box and locking arrangement and shall be fully accessione. 20 Mtr Image: connectors shall be mounted indice, water proof box and locking arrangement and shall be providing. Finang, testing and commissioning of the following size jelly filled armound the herphone cable. 20 Mtr Image: connectors shall be providing. Finang, testing and commissioning of the following size 20/25 mm doi, 10 SwG wall functiones at making and all the damage. Interformation dubte be correct with shall be test condition and a directed as required. Aunction box shall be corrected with Shall be set the condition and a directed as required. Aunction box shall be corrected with Shall be set the condition and a directed as required. Aunction box shall be correct with Shall be set the condition and a directed as required. Aunction box shall be corrected with Shall be set the condition and a directed as required. Aunction box shall be corrected with Shall be set the condition and a directed as required. Aunction box shall be correct with shall be set of NS/WC module base concepting all accessories: D- link, Legrand 1 Nos Image: Connected with shall be set the condition and a directed as required. A (D-market with furtures). Make of Market and commissioning flox/WC module base concepting with for and sexeressories: D- link, Legrand 1	(i)	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 shueld 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.	2	Nos		
a scessories subtable for the multi core telephone cable and shall accommodate in plated phosphor horone connectors, the connectors shall be lock is up to 0.5. Im. 1 Nos Image: connector shall be terminate both incoming and out going lines, the tag blocks shall be mounted indice, water proof box and locking arrangement and shall be fully accessione. 1 Nos Image: connectors shall be mounted indice, water proof box and locking arrangement and shall be fully accessione. 20 Mtr Image: connectors shall be mounted indice, water proof box and locking arrangement and shall be providing. Finang, testing and commissioning of the following size jelly filled armound the herphone cable. 20 Mtr Image: connectors shall be providing. Finang, testing and commissioning of the following size 20/25 mm doi, 10 SwG wall functiones at making and all the damage. Interformation dubte be correct with shall be test condition and a directed as required. Aunction box shall be corrected with Shall be set the condition and a directed as required. Aunction box shall be corrected with Shall be set the condition and a directed as required. Aunction box shall be correct with Shall be set the condition and a directed as required. Aunction box shall be corrected with Shall be set the condition and a directed as required. Aunction box shall be corrected with Shall be set the condition and a directed as required. Aunction box shall be correct with shall be set of NS/WC module base concepting all accessories: D- link, Legrand 1 Nos Image: Connected with shall be set the condition and a directed as required. A (D-market with furtures). Make of Market and commissioning flox/WC module base concepting with for and sexeressories: D- link, Legrand 1						
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(iii) the phone cable. 20 Mtr Image: Cable Cabl		(A) 20 Pair tag block				
c Providing, fixing, testing and commissioning of all node of four pair UTP CAT 6 LAR cables length upto 30 meter length or less as per site condition is uitable isize 20/25 mm dills, 16 SWG wall thickness night VVC conduit with conduit accessories like bend/junction box fan pow et con surface/recessed manner and making good all the damages, painting, cleaning the student of water/dust. Providing, fixing, resting and commissioning of modular type a Information Outlets with suitable size of MS/PVC modular boxes complete, all accessories socket with testing and commissioning of STP cabling with scanner for all the nodes/switches/jack panel complete (Each point/Aircutt/cable from both load and source end to be marked with ferrules.) Make of Materials. (ii) Data Cable, Cat 6 cable, Switch, Jack panel, Rack, Patch cords & Other accessories: -D- Link, Legrand b Providing, adm fixing patch Panels 24 port (100 base TX) CAT 6 patch/jack panel with c Eig switches, patch panels 24 port (100 base TX) CAT 6 patch/jack panel with g Invalid fixing, testing and commissioning Floor/Wall mounted RACKS for gig switches, patch panels dati including coling DUAL fan trays, a 10 Point PDU, Fixed 1 Nos i) for 1 ML long 12 Nos ii) for 1 ML long 12 Nos	(iii)	tehephone cable.	20	Mtr		
c Providing, fixing, testing and commissioning of all node of four pair UTP CAT 6 LAR cables length upto 30 meter length or less as per site condition is uitable isize 20/25 mm dills, 16 SWG wall thickness night VVC conduit with conduit accessories like bend/junction box fan pow et con surface/recessed manner and making good all the damages, painting, cleaning the student of water/dust. Providing, fixing, resting and commissioning of modular type a Information Outlets with suitable size of MS/PVC modular boxes complete, all accessories socket with testing and commissioning of STP cabling with scanner for all the nodes/switches/jack panel complete (Each point/Aircutt/cable from both load and source end to be marked with ferrules.) Make of Materials. (ii) Data Cable, Cat 6 cable, Switch, Jack panel, Rack, Patch cords & Other accessories: -D- Link, Legrand b Providing, adm fixing patch Panels 24 port (100 base TX) CAT 6 patch/jack panel with c Eig switches, patch panels 24 port (100 base TX) CAT 6 patch/jack panel with g Invalid fixing, testing and commissioning Floor/Wall mounted RACKS for gig switches, patch panels dati including coling DUAL fan trays, a 10 Point PDU, Fixed 1 Nos i) for 1 ML long 12 Nos ii) for 1 ML long 12 Nos						
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D connector, out lets and necessary connectivity complete as required & (D-Link make) 1 Nos 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 1 Nos Trays as necessary complete. 1 Nos 1 Nos 9 U wall mounted RACK 1 Nos 1 1 1 d Providing and fixing of flowing factory fabricated Patch cords. (UTP/CAT 6 complte with concort on both side.) 1 Nos 1 <td>а</td> <td>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-</td> <td>12</td> <td>Nos</td> <td></td> <td></td>	а	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-	12	Nos		
D connector, out lets and necessary connectivity complete as required & (D-Link make) 1 Nos 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 1 Nos Trays as necessary complete. 1 Nos 1 Nos 9 U wall mounted RACK 1 Nos 1 1 1 d Providing and fixing of flowing factory fabricated Patch cords. (UTP/CAT 6 complte with concort on both side.) 1 Nos 1 <td></td> <td>Providing and fiving Patch Papels 24 port (100 base TX) CAT 6 patch/jack papel with</td> <td></td> <td></td> <td></td> <td></td>		Providing and fiving Patch Papels 24 port (100 base TX) CAT 6 patch/jack papel with				
c Providing, assembling, fixing, testing and commissioning Floor/Wall mounted RACKS for glig switches, patch panels etc including cooling DUAL fan trays, a 10 Point PDU, Fixed 1 Nos c glig switches, patch panels etc including cooling DUAL fan trays, a 10 Point PDU, Fixed 1 Nos d Providing and fixing of flowing factory fabricated Patch cords. (UTP/CAT 6 complte with connector on both side.) 1 Nos 1 i) for 1 ML long 12 Nos 1 ii) for 2 ML. long 12 Nos 1 e 20/25mm PVC medium gauge 16SWG conduit including all accessories to interconnect the switches from different location. 30 Mtr 1 e Poviding, fixing, testing and commissioning of Jack Panel of reputated brand. 1 Nos 1 f Poviding, fixing, testing and commissioning of Jack Panel of reputated brand. 1 Nos 1 f Poviding, fixing, testing and commissioning of TV point(Modular) with RG-6 cable in the Medimum Gauge 1.6 mm PVC Conduit with all accessories complete in all respect 2 Nos 1 f Supply and installation of Vinyl sticker for on Electrical DBs like, "Switch Off at Night", switch Off For Safety, etc 10 Nos 1 making & Providing of 3 sets of Asbuil	b		1	Nos		
d connector on both side.) 12 Nos. 12 i) for 1 Mt. long 12 Nos. 12 ii) for 2 Mt. long 12 Nos. 12 iii) for 2 Mt. long 12 Nos. 12 ive Providing, fixing, testing and commissioning of four pair CAT 6 LAN cable in suitable size of 20/25mm PVC medium gauge 165WG conduit including all accessories to interconnect the switches from different location. 30 Mtr 1	c	Providing, assembling, fixing, testing and commissioning Floor/Wall mounted RACKS for gig switches, patch panels etc including cooling DUAL fan trays, a 10 Point PDU, Fixed Trays as necessarycomplete.	1	Nos		
i) for 1 Mt. long 12 Nos. Image: connector on both side.) ii) for 1 Mt. long 12 Nos. Image: connector on both side.) iii) for 2 Mt. long 12 Nos Image: connector on both side.) iii) for 2 Mt. long 12 Nos Image: connector on both side.) iii) for 2 Mt. long 12 Nos Image: connector on both side.) iii) for 2 Mt. long 12 Nos Image: connector on both side.) e Providing, fixing, testing and commissioning of four pair CAT 6 LAN cable in suitable size of 20/25mm PVC medium gauge 165WG conduit including all accessories to interconnect the switches from different location. 30 Mtr Image: connector on both side.) i Providing, fixing, testing and commissioning of Jack Panel of reputated brand. 1 Nos Image: connector connec		Providing and fixing of flowing factory fabricated Patch cords. (UTP/CAT 6 complte with				
ii) for 2 Mt. long 12 Nos Image: constraint of the second			42	Nee		
Providing, fixing, testing and commissioning of four pair CAT 6 LAN cable in suitable size of 30 Mtr Providing, fixing, testing and commissioning of four pair CAT 6 LAN cable in suitable size of 30 Mtr Switches from different location. 30 Mtr 30 Image: the string and commissioning of Jack Panel of reputated brand. 1 Nos 10 Image: the string and commissioning of Jack Panel of reputated brand. 1 Nos 10 Image: the string and commissioning of Jack Panel of reputated brand. 1 Nos 10 Image: the string and commissioning of TV point(Modular) with RG-6 2 Nos 10 Image: the string and installation, testing and commissioning of TV point(Modular) with RG-6 2 Nos 10 Image: the string and installation of Vinyl sticker for on Electrical DBs like, "Switch Off at Night", Switch Off For Safety, etc 10 Nos 10 Image: the string & 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 10						
e 20/25mm PVC medium gauge 165WG conduit including all accessories to interconnect the switches from different location. 30 Mtr 10 Mtr f Poviding, fixing, testing and commissoining of Jack Panel of reputated brand. 1 Nos 10 10 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 2 Nos 10			12	1105	L	
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 2 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	e	20/25mm PVC medium gauge 16SWG conduit including all accessories to interconnect the	30	Mtr		
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 2 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	f	Poviding, fixing, testing and commissoining of Jack Panel of reputated brand.	1	Nos		
15 cable in the Medimum Gauge 1.6 mm PVC Conduit with all accessories complete in all respect 2 Nos 2 16 Supply and installation of Vinyl sticker for on Electrical DBs like, "Switch Off at Night", Switch Off For Safety, etc 10 Nos 2 16 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						
10 Nos 10 Nos 10 Nos 10 Nos	15	cable in the Medimum Gauge 1.6 mm PVC Conduit with all accessories complete in all	2	Nos		
17 work (Power/UPS/Light/Data/Telephone/AC etc.) as advised by the Bank's Authority. 1 Lum sum	16		10	Nos		
Department of light //an future	17		1	Lum sum		

	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.				
	LED LUMINARES:- 2' x2' (FULL GLOW TYPE)				
	LED light fittings (600 X600mm) dimension suitable for grid/gypsum ceiling complete with				
10	its electrionic driver as required per instruction of Bank's Model No are as under:-	20			
18	PHILIPS:- RC380B G2 LED 35S-6500 PSU OD WH LED (FULLGLOW)	20	Nos		
	WIPRO:- CRCO1ORO 38 HP57				
	HAVELLS:- LHECDIL7IL1W036 (Edge- Lit)				
	CG:- LCTAR3-40-CDL				
	LED DOWNLIGHTER:				
	15 Watt, recessed mounted circular down lighter , 6" dimension with complete its				
20	electronic driver are as under:-				
20	PHILIPS:- GREENLED-DN193B LED-12S-6500 PSU	40	Nos		
	WIPRO:- IRIS LED LD 71-121-XXX-50-XX				
	HAVELLS:- LHEBJNP ZPZ 1W 015(ENDURA LOW DEPTH)				
	CG:- LC DD-15-CDL,				
21	LED Spot Light, 3 Watt, 2/3" (Inches) size as per site requirment.	4	Nos		
	PHILIPS, WIPRO, HAVELLS, CG				
				ļ	
	LED COVE/ STRIP LIGHT WITH ITS ELECTRONIC DRIVER(BLUE COLOUR):- Supply,				
22	installation, testing and commissioning of bright LED strip light with its electronic driver	70	Mtr		
22	complete as required.	70			
	PHILIPS, WIPRO, HAVELLS, CG				
23	BOX TYPE LUMINAIRES: LED TUBE FITTINGS, 1200mm, 18/20 Watt	10	Nos		
25	PHILIPS/WIPRO/HAVELLS/CG	10	1103		
	CEILING FAN:				
	Single phase heavy duty grease filled double ball bearing, aerodynamically designed heavy				
24	gauge aluminium blades, copper wounded and impregnated silicon stamping motors etc	15	Noc		
24	gauge aluminium blades, copper wounded and impregnated silicon stamping motors etc	15	Nos		
24	gauge aluminium blades, copper wounded and impregnated silicon stamping motors etc 1200 mm sweep, brilliant white	15	Nos		
24		15	Nos		
24	1200 mm sweep, brilliant white	15	Nos		
24	1200 mm sweep, brilliant white	15	Nos		
24	1200 mm sweep, brilliant white CG/USHA/ ORIENT/HAVELLS	15	Nos		
24	1200 mm sweep, brilliant white CG/USHA/ ORIENT/HAVELLS EXHAUST FAN:-	15	Nos		
24	1200 mm sweep, brilliant white CG/USHA/ ORIENT/HAVELLS 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	4	Nos		
	1200 mm sweep, brilliant white CG/USHA/ ORIENT/HAVELLS 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,				
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25	1200 mm sweep, brilliant white CG/USHA/ ORIENT/HAVELLS 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 WALL FAN:-(Only Metallic Body) Oscillating wall fan with regulator i/c coonections etc complete as required as per approved make, Sweep 400/450 mm , RPM 1300 make are as under: CG/USHA/ ORIENT/HAVELLS Sub Total : Part A (Electrical Works) Part B : AIR CONDITIONING WORKS : AIR CONDITIONING WORK Supply, installation, testing and commissioning of following AIR CONDIRIONERS as under.	4	Nos		
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25	1200 mm sweep, brilliant white CG/USHA/ ORIENT/HAVELLS 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 WALL FAN:-(Only Metallic Body) Oscillating wall fan with regulator i/c coonections etc complete as required as per approved make, Sweep 400/450 mm , RPM 1300 make are as under: CG/USHA/ ORIENT/HAVELLS Sub Total : Part A (Electrical Works) 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 additinal warranty provided by company/vendor in any specific part like compressor etc that is acceptable, please mentioned it. Rates include prime quality	4	Nos		
25	1200 mm sweep, brilliant white CG/USHA/ ORIENT/HAVELLS 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 WALL FAN:-(Only Metallic Body) Oscillating wall fan with regulator i/c coonections etc complete as required as per approved make, Sweep 400/450 mm , RPM 1300 make are as under: CG/USHA/ ORIENT/HAVELLS Sub Total : Part A (Electrical Works) 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 additinal warranty provided by company/vendor in any specific part like compressor etc that is acceptable, please mentioned it. Rates include prime quality	4	Nos		
25	1200 mm sweep, brilliant white CG/USHA/ ORIENT/HAVELLS 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 WALL FAN:-(Only Metallic Body) Oscillating wall fan with regulator i/c coonections etc complete as required as per approved make, Sweep 400/450 mm , RPM 1300 make are as under: CG/USHA/ ORIENT/HAVELLS Sub Total : Part A (Electrical Works) 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 additinal warranty provided by company/vendor in any specific part like compressor etc that is acceptable, please mentioned it. Rates include prime quality	4	Nos		

	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. Note:- The rate should be inclusive of Tie rod and clamp support for copper wire and cables till outdoor.	1	Nos	
	Make of ACs:- Daikin/Hitachi/Voltas/Bluestar/Carrier only			
27	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. Note:- The rate should be inclusive of Tie rod and clamp support for copper wire and cables till outdoor.	3	Nos	
	Make of ACs:- Daikin/Hitachi/Voltas/Bluestar/Carrier only			
28	Supply, installation, testing and commissioning of Higher Efficient models of INVERTER CASSETTE TYPE AIR CONDITIONERS(Three) BEE Certified rating 2.0 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 (R-32) and capable to perform cooling, dehumidifying, Air Circulating, auto mode, auto swing, anti dust , 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. Note:- The rate should be inclusive of Tie rod and clamp support for copper wire and cables till outdoor. Make of ACs:- Daikin/Hitachi/Voltas/Bluestar/Carrier only	2	Nos	
29	Supply and installation of hard & prime quality of min. 22 G Copper pipe for "Cassette AC Only" with class "o" Nitrile insulation of minimum 12 mm for 3 / 4 ton cassette type air conditioner including interconnection power/ communication cable between indoor and outdoor unit as per site requirement.(If required additionally, payment will made as per actual installtion.) The rate inclusive of all chisel work, plastering, finishing, painting & all civil related work pertaing to mentioned work. Make of Insulation:- Superlon/Aflex/Armacell/Kflex . Make of cable:Finolex/RR	80	Mtr	

30	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	60	Mtr		
31	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 installition.) Make:-Kasta/Supreme	100	Mtr		
32	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	1	Nos		
33	Providing & fixing of 4 KVA Voltage stabilizer with time delay option including all accessories with installation at site (For 1Tn /1.5Tn Split AC & 1.5 Tn Cassette AC) Make:- Microtek, V-Gards (Voltage Range 150- 280 Volts)	4	Nos		
34	Providing & fixing of 5 KVA Voltage stabilizer with time delay option including all accessories with installation at site (For 2Tn Split AC & 2 Tn Cassette AC) Make:- Microtek, V-Gards. (Voltage Range 150- 280 Volts)	2	Nos		
	Sub Total : Part B (AIR CONDITIONING WORKS)				
	Sub Total : Part B (AIR CONDITIONING WORKS) TOTAL WORK (A+B)			Ì	