## BILL OF QUANTITIES FOR ELECTRICAL, LIGHTING & DATA NETWORKING WORKS AT STATE BANK OF INDIA, MAIN Branch MANALI at, Distt. KULLU ( H.P)

S.No.	Item / Specifications	Qnty.	Units	Rate	Amount
	COMPUTER POINTS & DISTRIBUTION				
1.1	Supply all material, storing, handling, fixing and laying of 3X2.5 Sq. mm.	30	each		
	of PVC insulated PVC sheathed armoured cable of 1100 V (IS 1554, Part				
	1) and fixing of cable on wall with suitable size of clamps /saddles or				
	laid in floor/recess wall including cutting of wall /floor and making				
	good the damages etc for computer points in suitable size of box				
	fabricated with 16 G MS sheet including providing 3 nos 5 amps 3 pin				
	sockets controlled by 1 no 5 A modular type switch, indicator and				
	fuse mounted on 3 mm thick ISI marked hylam sheet and painting of				
	box etc complete as required Note; max. two computer points are to				
	be provided on one circuit.				
1.2	As per item 1 above but with 1 Nos. 15 A 5 pin socket controlled by 1	6	each		
	no 15 A switch and indicator.( ON RAW POWER)	_			
1.3	As per item 1 above but with 2 Nos. 15 A 5 pin socket controlled by 1	3	each		
	no 15 A switch and indicator.( ON UPS POWER)				
1.4	Wiring for circuit/ submain wiring alongwith earth wire with the				
	following sizes of FRLS PVC insulated copper conductor, single core				
<u> </u>	cable in surface/ recessed medium class PVC conduit as required.				
a)	2 X 6 sq. mm + 1 X 2.5 sq. mm earth wire for UPS input & Out[ut supply	30	Mtr		
1.5	Wiring for light point/ Ceiling fan point/ exhaust fan point with 1.5				
	sq.mm FRLS PVC insulated copper conductor single core cable in				
	surface / recessed medium class PVC conduit, with modular switch,				
	modular plate, suitable GI box and earthing the point with 1.5 sq.mm				
	FRLS PVC insulated copper conductor single core cable etc. including				
	circuit wiring with 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire as				
	required.(Ht. upto 4.5mrts from floor)	_			
A	1 no. light controlled by 1 no. switch	25	no		
В	2 no. light controlled by 1 no. switch	45	no		
<u> </u>	5/6 pin 6 amp plug point with 6 amp switch	15	no.		
D	Primary Wall fan point controlled by 5 AMP socket controlled by 5amp	10	no.		
	switch	_			
E	1 no. 15Amp 5 Pin Socket controlled by 1 no. 15 Amp. Switch for	5	no.		
	Record /Cash/Gold Safe Room				
1.6	Supply installation testing and commissioning of 3 pin 20/25 A 3 pin	2	each		
	metal clad industrial type plug and socket arrangement with plug top,				
	cap and chain controlled by 1 no 32 A SP MCB.( 1.5 TR Acs) Note:				
	Independent circuit for AC point is to be provided starting from				
	distribution system.				
1.7	Supply, installation testing and commissioning of factory fabricated				
	distribution board rust inhibited				
	powder coated sheet fabricated comprising of incoming and outgoing				
	isolator & MCBs neutral link or neutral bus, top and bottom				
	detachable entry earthing bolts interconnection and grouting bolts etc				
<u> </u>	complete as required as per details below				
a)	12-way SPN MCBDB Double Door in recessed wall including cutting of	1	no.		
	wall and making good the damages comprising 1 no 63 A DP Isolator				
	and 10 Nos. 6/10 A MCBS etc complete as required.				
a)	8-way SPN MCBDB Double Door in recessed wall including cutting of	1	no.		
	wall and making good the damages comprising 1 no 63 A DP Isolator				
	and 6 Nos. 6/10 A MCBS etc complete as required.				

b) 6-way SPN MCBDB Double Door in recessed wall including cutting of wall and making good the damages comprising 1 no 40 A DP Isolator and 4 Nos. 6/10 A MCBS etc complete as required.  c) 4 ways SPDB comprising of 10 and 54 Four Pels PTRMCB (for UPS).  d) 4 way SPDB comprising of 2 no 63 A DP MCB (for UPS).  e) 4 Way TP MCBDB Double Door in recessed wall including cutting of wall and making good the damages comprising in on 100 A 4P Isolator and 12 Nos. 6-33 A SPMCDS etc complete as required. (LIGHT /POWER /ATM Dos)  1.8 Supply installation testing and commissioning of following 3 pin metal clad industrial type plug and socket arrangement with plug top, cap and chain controlled by 1 No MCB  (a) 12 OAmps, with 20 Amp, SP MCB.  (b) 30 Amps, with 32 Amp, SP MCB.  1.90  Providing and fixing of suitable size MS box fabricated with 16 G MS sheet either in recess wall or on surface to accommodate dedicated earth from earth electrode and further distribution of earth to computer points including providing of 5 mm bakelite on base connector strip and painting of box etc as required.  TOTAL OF PART-1  PART-I; PANELS & CABLES  2. Providing and fixing of 03 no 200 Amps KTRKAT with 1 no neutral link on suitable size of Bakelites sheet of thickness not less than 12 mm complete as required  2. Main Panel: Supply at site installation testing and commissioning of panel fabricrated with 16 G MS sheet. The panel shall be free standing type totally enclosed dust and vermin proof construction with rubber gasées. The floor mounting panel shall have ISMC mounting channels, Gi earth busbar, busbar chamber, cable alleys interconnection with solid bar/PVC insulated copper conductor as per requirement, and suitable supports of busbars. The panel shall be perioded with two coats of enamel paint (Forey Shade) over primer and shall also be provided with designation of lincoming and outgoing feeder as details below:  NICOMING  1 no MCCB Breaking Capacity 25 KA 200 Amp 4P , Model-DU250 Series,  1 no 0-500V digital Voltmeter in separate compar					
and A Nos. 6/10 A MCBS etc complete as required.  c) 4 ways PSDB comprising of 0.3 A Four Peller PRMCB (for UPS).  d) 4 way SPDB comprising of 2 nos 63A DP MCB (for UPS).  e) 4 Way TP MCBB boulde Door in cressed wall including cutting of wall and making good the damages comprising 1 no 100 A 4P solotor and 12 Nos. 6-12 A SPMCBS etc complete as required. (LIGHT /PCWCR /ATM Dbs)  1.8 Supply installation testing and commissioning of following 3 pin metal cladi industrial type plug and socket arrangement with plug top, cap and chain controlled by 1 No MCB  (a) 12 Annys. with 20 Anny. SP MCB.  (b) 30 Amps. with 32 Amps. SP MCB.  1.90  Providing and fixing of suitable size MS box fabricated with 16 G MS 1 job sheet either in recess wall or on surface to accommodate dedicated earth from earth electrode and further distribution of earth to computer points including providing of 5 mm bakelite on base connector strip and painting of 5 mm bakelite on base connector strip and painting of box etc as required.  TOTAL OF PART-1  PART-II: PANELS & CABLES  2.1 Providing and fixing of 03 no 200 Amps KITKAT with 1 no neutral link 1.00 job on suitable size of Bakelite sheet of thickness not less than 12 mm complete as required with 16 G MS sheet. The panel shall be free standing type totally enclosed dust and vermin proof construction with rubber gaskets. The floor mounting panel shall have signal from the substance of busbars, the panel shall be painted with two coats of enamel paint (Grey Ande) over primer and shall also be provided with designation of incoming and outgoing feeder as details below:  INCOMING  1 no MCCB Breaking Capacity 25 KA 100 Amp 3P and 3 nos MCCB areaking Capacity 25 KA 100 Amp 3P with separate neutral link, DU series, LST make.  2.2 Emergency panel: Supply at site installation testing and commissioning of panel factoric and shall also be provided with designation of incoming and outgoing feeder as details below:  NCOMING  1 nos MCCB Breaking Capacity 25 KA 100 Amp 3P with separate neutral link, DU series,	b)	6-way SPN MCBDB Double Door in recessed wall including cutting of	1	no.	
c) 4 way SPD8 comprising 1 no 63 A Four Polet TPNMCR (for UPS). 1 no. 0 4 way TP MCBD8 Double Door in recessed wall including cutting of 2 no. 0 wall and making good the damages comprising 1 no 100 A AP Isolator and 12 Nos. 6-32 A SPMCS9 et complete as required. (LIGHT POWER / ATM Dbs)  1.8 Supply installation testing and commissioning of following 3 pin metal clad industrial type plug and socket arrangement with plug top, cap and chain controlled by 1 No MCB  1.8 Supply installation testing and commissioning of following 3 pin metal clad industrial type plug and socket arrangement with plug top, cap and chain controlled by 1 No MCB  1.9 O Providing and fixing of suitable size NS box fabricated with 16 G MS sheet either in recess wall or on surface to accommodate dedicated earth from earth electrode and further distribution of earth to computer points including providing of 5 mm bakelite on base connector strip and painting of box et as required.  TOTAL OF PART -I  PART-II PANELS & CABLES  2.1 Providing and fixing of 03 no 200 Amps KITKAT with 1 no neutral link on suitable size of Bakelite sheet of thickness not less than 12 mm complete as required  2.2 Main Panel: Supply at site installation testing and commissioning of panel fabricated with 16 G MS sheet. The panel shall be free standing type totally enclosed dust and vermin proof construction with rubber gaskets. The floor mounting panel shall have ISMC mounting channels, GI earth busbar, busbar chamber cable alleys interconnection with solid bar/PVC insulated copper conductor as per requirement, and suitable supports of busbars. The panel shall be positive to the panel shall be provided with designation of incoming and outgoing feeder as details below:  INCOMING  1 no MCCB Breaking Capacity 25 KA 200 Amp 4P , Model-DU250 Series, 1 no 0 -500V digital Voltmeter in separate compartment and digital Amp meter and one set of CTs (3 Nos) with CT Ratio 200/5 A with LED type phase indication Lamps with protection fuses in a separate 200 Amps capacity 25 KA 100 Amp 3		wall and making good the damages comprising 1 no 40 A DP Isolator			
d) 4 way SPDB comprising of 2 nos 63A DP MCB (for UPS).  e) 4 Way TP MCBDB Double Double Door in recessed wall including cutting of wall and making good the damages comprising 1 no 100 A 4P isolator and 12 Nos. 6-32 A SPMCBS etc complete as required, LIGHT /POWER /ATM Dobs)  1.8 Supply installation testing and commissioning of following 3 pin metal clad industrial type plug and socket arrangement with plug top, cap and chain controlled by 1 No MCB and chain controlled by 1 No MCB and chain controlled by 1 No MCB.  (b) 30 Amps. with 32 Amp. SP MCB.  1.90 Providing and fixing of suitable size MS box fabricated with 16 G MS sheet either in recess wall or on surface to accommodate dedicated earth from earth electrode and further distribution of earth to computer points including providing of 5 mm bakelite on base connector strip and painting of box etc as required.  TOTAL OF PART -I PROVIDING and fixing of 03 no 200 Amps KITKAT with 1 no neutral link no unsurface as required.  PART-II: PANELS & CABLES  2.1 Providing and fixing of 03 no 200 Amps KITKAT with 1 no neutral link no unsurface as required.  Main Panel: Supply at site installation testing and commissioning of panel fabricated with 16 G MS sheet. The panel shall be free standing type totally enclosed dust and vermin proof construction with subber gaskets. The floor mounting panel shall have ISMC mounting channels, Gi earth busbar, busbar chamber, cable alleys interconnection with solid bar/PVC insulated copper conductor as per requirement, and suitable supports of busbars. The panel shall be painted with two coats of enamel paint ( Grey shade) over primar and shall also be provided with designation of Incoming and outgoing feeder as details below:  INCOMING  1 no MCCB Breaking Capacity 25 KA 200 Amp 4P, Model-DU250 Series, 1 no 9.000 digital Voltnmeter in separate compartment and digital Amp meter and one set of CTS (3 Nos) with CT Ratio 200/5 A with LED type phase indication Lamps with protection fuses in a separate  200 Amps capacity 4 strips Aluminium bu		and 4 Nos. 6/10 A MCBS etc complete as required.			
e) 4 Way TP MCBDB Double Door in recessed wall including cutting of wall and making good the damages comprising in a 100 A Pl solator and 12 Nos. 6-32 A SPMCBS etc complete as required (LIGHT /POWER / ATM Dois)  1.8 Supply installation testing and commissioning of following 3 pin metal clad industrial type plug and socket arrangement with plug top, cap and chain controlled by 1 No MCB  (a) 20 Amps. with 20 Amp. SP MCB.  (b) 30 Amps. with 32 Amp. SP MCB.  1.9 Providing and fixing of suitable size MS box fabricated with 16 G MS sheet either in recess wall or on surface to accommodate dedicated earth from earth electrode and further distribution of earth to computer points including providing of 5 mb abkelite on base connector strip and painting of box etc as required.  1. TOTAL OF PART -I  PART-II: PANELS & CABLES  2. Providing and fixing of 03 no 200 Amps KITKAT with 1 no neutral link on suitable size of Bakelite sheet of thickness not less than 12 mm complete as required  2. Main Panel: Supply at site installation testing and commissioning of panel fabricated with 16 G MS sheet. The panel shall be free standing type totally enclosed dust and vermin proof construction with rubber gaskets. The floor mounting panel shall have ISMC mounting channels, Gl earth busbar, busbar chamber , cable alleys interconnection with solid bar/PVC insulated copper conductor as per requirement, and suitable supports of busbars. The panel shall be painted with two coats of enamel paint ( Grey shade) over primer and shall also be provided with designation of incoming and outgoing feeder as details below:  NICOMING  1 no MCCB Breaking Capacity 25 KA 200 Amp 4P , Model-DU250 Series,  1 no 0 -500V digital Voltmeter in separate compartment and digital Amp meter and one set of CTs (3 Nos) with CTR Ratio 200/5 A with LED type phase indication Lamps with protection fuses in a separate  200 Amps capacity 4 Strips Aluminium bus bars.  OUTGOING  1 nos MCCB Breaking Capacity 25 KA 200 Amp 4P , Model-DU250 Series,  1 no 0 -500V digital Voltmeter	c)	4 way SPDB comprising 1 no 63 A Four Pole TPNMCB ( for UPS).	1	no.	
wall and making good the damages comprising 1 no 100 A 4P Isolator and 12 Nos. 6-32 A SPMCBS etc complete as required, (LIGHT/POWER / ATM Dbs)  1.8 Supply installation testing and commissioning of following 3 pin metal clad industrial type plug and socket arrangement with plug top, cap and chain controlled by 1 No MCB  (a) 20 Amps, with 20 Amp. SP MCB.  4 no.  (b) 30 Amps, with 32 Amp. SP MCB.  1.90 Providing and fixing of suitable size MS box fabricated with 16 G MS sheet either in recess wall or on surface to accommodate dedicated earth from earth electrode and further distribution of earth to computer points including providing of 5 mm bakelite on base connector strip and painting of box etc as required.  1.00 TOTAL OF PART-I  PART-II: PANELS & CABLES  2.1 Providing and fixing of 03 no 200 Amps KITKAT with 1 no neutral link on suitable size of Bakelite sheet of thickness not less than 12 mm complete as required are sequired.  2.2 Main Panel: Supply at site installation testing and commissioning of panel fabricated with 16 G MS sheet. The panel shall be free standing type totally enclosed dust and vermin proof construction with rubber gaskets. The floor mounting panel shall have list for extraction with solid bar/PVC insulated copper conductor as per requirement, and suitable supports of busbars. The panel shall be free standing type totally enclosed dust and vermin proof construction with those costs of enamel paint ( Grey shade) over primer and shall also be provided with designation of incoming and outgoing feeder as details below:  INCOMING  1 no MCCB Breaking Capacity 25 KA 200 Amp 4P , Model-DUZ50 Series,  1 no 0-500V digital Voltmeter in separate compartment and digital Amp meter and one set of CTs ( 3 Nos) light CT Ratio 2007, A with tEB type phase indication tamps with protection fuses in a separate  200 Amps capacity 4 strips Aluminium bus bars.  OUTGOING  1 nos MCCB Breaking Capacity 25 KA 200 Amp 4P , Model-DUZ50 Series,  1 no 0-500V digital Voltmeter in separate compartment and digital Amp meter	d)	4 way SPDB comprising of 2 nos 63A DP MCB (for UPS).	2	no.	
and 12 Nos. 6:32 A SPMCBS etc complete as required. (LIGHT / POWER / ATM Dbs)  1.8 Supply installation testing and commissioning of following 3 pin metal clad industrial type plug and socket arrangement with plug top, cap and chain controlled by 1 No MCB  (a) 20 Amps. with 20 Amp. SP MCB.  (b) 30 Amps. with 20 Amp. SP MCB.  (c) 30 Amps. with 20 Amp. SP MCB.  1.90 Providing and fixing of suitable size MS box fabricated with 16 G MS sheet either in recess wall or on surface to accommodate dedicated earth from earth electrode and further distribution of earth to computer points including providing of 5 mm bakelite on base connector strip and painting of box etc as required.  1. TOTAL OF PART -I  PART-II: "PANELS & CABLES  2.1 Providing and fixing of 03 no 200 Amps KITKAT with 1 no neutral link on suitable size of Bakelite sheet of thickness not less than 12 mm complete as required  2.2 Main Panel: Supply at site installation testing and commissioning of panel fabricated with 16 G MS sheet. The panel shall be free standing type totally enclosed dust and vermin proof construction with rubber gaskets. The floor mounting panel shall have ISMC mounting channels, Gl earth busbar, busbar chamber, cable alleys interconnection with solid bar/PVC insulated copper conductor as per requirement, and suitable supports of busbars. The panel shall be painted with two coats of enamel paint ( Grey shade) over primer and shall also be provided with designation of Incoming and outgoing feeder as details below:  NICOMING  1 no MCCB Breaking Capacity 25 KA 200 Amp 4P , Model-DU250 Series, 1 no 0-500 digital Vottmeter in separate compartment and digital Amp meter and one set of CTs ( 3 Nos ) with CT Ratio 200/5 A with LED type phase Indication Lamps with protection fuses in a separate 200 Amps capacity 4 strips Aluminium bus bars.  OUTGOING  1 nos MCCB Breaking Capacity 25 KA 200 Amp 3P and 3 nos MCCB Breaking Capacity 25 KA 100 Amp 3P avith separate neutral Link, DU Series, L&T make.  Emergency panel: Supply at site installation testin	e)	4 Way TP MCBDB Double Door in recessed wall including cutting of	2	no.	
ATM Dbs    1.8 Supply installation testing and commissioning of following 3 pin metal clad industrial type plug and socket arrangement with plug top, cap and chain controlled by 1 No MCB   1.90   Amps. with 20 Amps. by MCB.   4   no.     1.90   Providing and fixing of suitable size MS box fabricated with 16 G MS   sheet either in recess wall or on surface to accommodate dedicated earth from earth electrode and further distribution of earth to computer points including providing of 5 mm bakelite on base connector strip and painting of box et as required.    TOTAL OF PART -   PART-II : PANELS & CABLES		wall and making good the damages comprising 1 no 100 A 4P Isolator			
1.8 Supply installation testing and commissioning of following 3 pin metal clad industrial type plug and socket arrangement with plug top, cap and chain controlled by 1 No MCB  (a) 20 Amps. with 20 Amp. SP MCB.  (b) 30 Amps. with 20 Amp. SP MCB.  (c) 30 Amps. with 20 Amp. SP MCB.  (d) 30 Amps. with 32 Amp. SP MCB.  1.90 Providing and fixing of suitable size MS box fabricated with 16 G MS sheet either in recess wall or on surface to accommodate dedicated earth from earth electrode and further distribution of earth to computer points including providing of 5 mm bakelite on base connector strip and painting of box etc as required.  7 TOTAL OF PART -I  PARTILI PANELS & CABLES  2.1 Providing and fixing of 03 no 200 Amps KITKAT with 1 no neutral link on suitable size of 8 Bakelite sheet of thickness not less than 12 mm complete as required  2.2 Main Panel: Supply at site installation testing and commissioning of panel fabricated with 16 G MS sheet. The panel shall be free standing type totally enclosed dust and vermin proof construction with trubber gaskets. The floor mounting panel shall have ISMC mounting channels, GI earth busbar, busbar chamber ,cable alleys interconnection with solid bar/PVC Insulated copper conductor as per requirement, and suitable supports of busbars. The panel shall be painted with two coats of enamel paint ( Grey shade) over primer and shall also be provided with designation of Incoming and outgoing feeder as details below:  INCOMING  1 no 0-500V digital Voltmeter in separate compartment and digital Amp meter and one set of CTs (3 Nos) with CT Ratio 200/S A with LED type phase Indication Lamps with protection fuses in a separate 200 Amps. capacity 25 KA 200 Amp 3P with separate neutral Link, DV series, L8T make.  OUTGOING  1 nos MCCB Breaking Capacity 25 KA 160 Amp 3P and 3 nos MCCB  1 set Breaking Capacity 25 KA 100 Amp 3P with separate neutral Link, DV series, L8T make.  2.3 Emergency panel: Supply at site installation testing and commissioning of panel fabricated with 16 G MS sheet. The		and 12 Nos. 6-32 A SPMCBS etc complete as required.(LIGHT /POWER			
clad industrial type plug and socket arrangement with plug top, cap and chain controlled by 1 No MCB  (a) 20 Amps. with 20 Amp. SP MCB. 4 no. 30 Amps. with 32 Amp. SP MCB. 3 no. 9  Providing and fixing of suitable size MS box fabricated with 16 G MS sheet either in recess wall or on surface to accommodate dedicated earth from earth electrode and further distribution of earth to computer points including providing of 5 mm bakelite on base connector strip and painting of box etc as required.  TOTAL OF PART -1  PARTI: PANELS & CABLES  2.1 Providing and fixing of 03 no 200 Amps KITKAT with 1 no neutral link on suitable size of Bakelite sheet of thickness not less than 12 mm complete as required  2.2 Main Panel: Supply at site installation testing and commissioning of panel fabricated with 16 G MS sheet. The panel shall be free standing type totally enclosed dust and vermin proof construction with rubber gaskets. The floor mounting panel shall have ISMC mounting channels, Gl earth busbar, busbar chamber, cable alleys interconnection with solid bar/PVC insulated copper conductor as per requirement, and suitable supports of busbars. The panel shall be painted with two coats of enamel paint (Grey shade) over primer and shall also be provided with designation of incoming and outgoing feeder as details below:  INCOMING  1 no MCCB Breaking Capacity 25 KA 200 Amp 4P, Model-DU250 Series, 1 no 0-500V digital Voltmeter in separate compartment and digital Amp meter and one set of CTs (3 Nos) with CT Ratio 200/S A with LED type phase Indication Lamps with protection fuses in a separate  200 Amps capacity 4 strips Aluminium bus bars.  OUTGOING  1 nos MCCB Breaking Capacity 25 KA 160 Amp 3P and 3 nos MCCB  1 nos MCCB Breaking Capacity 25 KA 160 Amp 3P and 3 nos MCCB  1 nos MCCB Breaking Capacity 45 KA 160 Amp 3P and 3 nos MCCB  1 set serving channels, Gl earth busbar, busbar chamber, cable alleys interconnection with solid bar/PVC insulated copper conductor as per requirement, and suitable supports of busbars. The panel shall be		/ ATM Dbs)			
and chain controlled by 1 No MCB  (a) 20 Amps. with 20 Amp. SP MCB.  (b) 30 Amps. with 32 Amp. SP MCB.  1-90 Providing and fixing of suitable size MS box fabricated with 16 G MS sheet either in recess wall or on surface to accommodate dedicated earth from earth electrode and further distribution of earth to computer points including providing of 5 mm bakelite on base connector strip and painting of 5ox et as required.  TOTAL OF PART -I  PART-II : PANELS & CABLES  2.1 Providing and fixing of 03 no 200 Amps KITKAT with 1 no neutral link on suitable size of Bakelite sheet of thickness not less than 12 mm complete as required with 16 G MS sheet. The panel shall be free standing type totally enclosed dust and vermin proof construction with rubber gaskets. The floor mounting panel shall have ISMC mounting channels, Gl earth busbars, busbar chamber , cable alleys interconnection with solid bary/PVC insulated copper conductor as per requirement, and suitable supports of busbars. The panel shall be painted with two coats of enamel paint ( Grey shade) over primer and shall also be provided with designation of Incoming and outgoing feeder as details below:  INCOMING  1 no MCCB Breaking Capacity 25 KA 200 Amp 4P , Model-DU250 Series, 1 no -500 V digital Voltmeter in separate compartment and digital Amp meter and one set of CTs ( 3 Nos ) with CT Ratio 200/5 A with LED type phase Indication Lamps with protection fuses in a separate 200 Amps capacity 4 strips Aluminum bus bass.  OUTGOING  1 no MCCB Breaking Capacity 25 KA 200 Amp 3P and 3 nos MCCB 1 set streams and set of CTs ( 3 Nos ) with CT Ratio 200/5 A with LED type phase Indication Lamps with protection fuses in a separate 200 Amps capacity 4 strips Aluminum bus bass.  OUTGOING  1 nos MCCB Breaking Capacity 25 KA 160 Amp 3P and 3 nos MCCB 1 set stranding type totally enclosed dust and vermin proof construction with rubber gaskets. The floor mounting panel shall be free standing type totally enclosed dust and vermin proof construction with rubber gaskets. The floor mount	1.8	Supply installation testing and commissioning of following 3 pin metal			
(a) 20 Amps. with 20 Amp. SP MCB. (b) 30 Amps. with 32 Amp. SP MCB. 3 no.  1-90 Providing and fixing of suitable size MS box fabricated with 16 G MS sheet either in recess wall or on surface to accommodate dedicated earth from earth electrode and further distribution of earth to computer points including providing of 5 mm bakelite on base connector strip and painting of box etc as required.  TOTAL OF PART-1  PART-II : PANELS & CABLES  2.1 Providing and fixing of 03 no 200 Amps KITKAT with 1 no neutral link on suitable size of Bakelite sheet of thickness not less than 12 mm complete as required.  2.2 Main Panel: Supply at site installation testing and commissioning of panel fabricated with 16 G MS sheet. The panel shall be free standing type totally enclosed dust and vermin proof construction with rubber gaskets. The floor mounting panel shall have ISMC mounting channels, GI earth busbar, busbar chamber, cable alleys interconnection with solid bar/PVC insulated copper conductor as per requirement, and sultable supports of busbars. The panel shall be painted with two coats of enamel paint (Grey shade) over primer and shall also be provided with designation of incoming and outgoing feeder as details below:  INCOMING  1 no MCCB Breaking Capacity 25 KA 200 Amp 4P , Model-DU250 Series, 1 no 0 -500V digital Voltmeter in separate compartment and digital Amp meter and one set of CTs (3 Nos) with CT Ratio 200/5 A with LED type phase Indication Lamps with protection fuses in a separate 200 Amps capacity 4 strips Aluminium bus bars.  OUTGOINB  1 nos MCCB Breaking Capacity 25 KA 160 Amp 3P and 3 nos MCCB Breaking Capacity 25 KA 100 Amp 3P with seprate neutral Link, DU Series, L8T make.  2.3 Emergency panel: Supply at site installation testing and commissioning of panel fabricated with the God Must and vermin proof construction with rubber gaskets. The floor mounting panel shall be free standing type totally enables used to substant. The panel shall be give standing channels, GI earth busbar, busbar chamber, cable alleys int		clad industrial type plug and socket arrangement with plug top, cap			
(b) 30 Amps. with 32 Amp. SP MCB.  1.90 Providing and fixing of suitable size MS box fabricated with 16 G MS sheet either in recess wall or on surface to accommodate dedicated earth from earth electrode and further distribution of earth to computer points including providing of 5 mm bakelite on base connector strip and painting of box etc as required.  TOTAL OF PART -I  PART-II : PANELS & CABLES  2.1 Providing and fixing of 03 no 200 Amps KITKAT with 1 no neutral link on suitable size of Bakelite sheet of thickness not less than 12 mm complete as required  2.2 Main Panel: Supply at site installation testing and commissioning of panel fabricated with 16 G MS sheet. The panel shall be free standing type totally enclosed dust and vermin proof construction with rubber gaskets. The floor mounting panel shall have ISMC mounting channels, G il earth busbar, busbar chamber , cable alleys interconnection with solid bar/PVC insulated copper conductor as per requirement, and suitable supports of busbars. The panel shall be painted with two coats of enamel paint ( Grey shade) over primer and shall also be provided with designation of incoming and outgoing feeder as details below:  INCOMING  1 no MCCB Breaking Capacity 25 KA 200 Amp 4P , Model-DU250 Series,  1 no 0-500V digital Voltmeter in separate compartment and digital Amp meter and one set of CTs ( 3 Nos ) with CT Ratio 200/5 A with LED type phase indication Lamps with protection fuses in a separate  200 Amps capacity 4 strips Aluminium bus bars.  OUTGOING  1 nos MCCB Breaking Capacity 25 KA 160 Amp 3P and 3 nos MCCB  1 nos MCCB breaking Capacity 25 KA 160 Amp 3P and 3 nos MCCB  2 Breeking Capacity 25 KA 100 Amp 3P with seprate neutral Link, DU Series, L8T make.  2.3 Emergency panel: Supply at site installation testing and commissioning of panel fabricated with 16 G MS sheet. The panel shall be free standing type totally enclosed dust and vermin proof construction with rubber gaskets. The floor mounting panel shall be free standing type totally enclosed dust and vermin		and chain controlled by 1 No MCB			
(b) 30 Amps. with 32 Amp. SP MCB.  1.90 Providing and fixing of suitable size MS box fabricated with 16 G MS sheet either in recess wall or on surface to accommodate dedicated earth from earth electrode and further distribution of earth to computer points including providing of 5 mm bakelite on base connector strip and painting of box etc as required.  TOTAL OF PART -I  PART-II : PANELS & CABLES  2.1 Providing and fixing of 03 no 200 Amps KITKAT with 1 no neutral link on suitable size of Bakelite sheet of thickness not less than 12 mm complete as required  2.2 Main Panel: Supply at site installation testing and commissioning of panel fabricated with 16 G MS sheet. The panel shall be free standing type totally enclosed dust and vermin proof construction with rubber gaskets. The floor mounting panel shall have ISMC mounting channels, G il earth busbar, busbar chamber , cable alleys interconnection with solid bar/PVC insulated copper conductor as per requirement, and suitable supports of busbars. The panel shall be painted with two coats of enamel paint ( Grey shade) over primer and shall also be provided with designation of incoming and outgoing feeder as details below:  INCOMING  1 no MCCB Breaking Capacity 25 KA 200 Amp 4P , Model-DU250 Series,  1 no 0-500V digital Voltmeter in separate compartment and digital Amp meter and one set of CTs ( 3 Nos ) with CT Ratio 200/5 A with LED type phase indication Lamps with protection fuses in a separate  200 Amps capacity 4 strips Aluminium bus bars.  OUTGOING  1 nos MCCB Breaking Capacity 25 KA 160 Amp 3P and 3 nos MCCB  1 nos MCCB breaking Capacity 25 KA 160 Amp 3P and 3 nos MCCB  2 Breeking Capacity 25 KA 100 Amp 3P with seprate neutral Link, DU Series, L8T make.  2.3 Emergency panel: Supply at site installation testing and commissioning of panel fabricated with 16 G MS sheet. The panel shall be free standing type totally enclosed dust and vermin proof construction with rubber gaskets. The floor mounting panel shall be free standing type totally enclosed dust and vermin	(a)	20 Amps. with 20 Amp. SP MCB.	4	no.	
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	1 no 0 E00V digital Voltmotor in congrate compartment and digital			<u> </u>	1
	1 no 0 -500V digital Voltmeter in separate compartment and digital				
	Amp meter and one set of CTs ( 3 Nos ) with CT Ratio 150/5 A with LED				
	type phase Indication Lamps with protection fuses in a separate				
	200 Amps capacity 4 strips Aluminium bus bars.				
	OUTGOING				
	6 nos MCCB Breaking Capacity 25 KA 63 Amp 3P with seprate neutral	1	set		
	Link, DU Series, L&T make.				
2.3	Supply, Installation, testing & commissioning of PVC insulated PVC				
	sheathed armoured cable of 1100 V (IS 1554 Part 1) and fixing of				
	cable on wall with suitable size of clamps /saddles or laid in				
	floor/recess wall including cutting of wall /floor and making good the				
	damages etc complete as required of following sizes (ISI marked)				
a)	3.5X50 sq. mm aluminum conductors with two Nos. 8 SWG GI wire	30	mtr.		
b)	3.5X35 sq. mm aluminium conductors with two Nos. 8 SWG GI wire.	20	mtr.		
c)	3.5x25 sq. mm aluminium conductors with two Nos. 8 SWG GI wire.	100	mtr.		
d)	4X16 sq. mm aluminum conductor with one no 8 SWG GI wire.	80	mtr.		
e)	3X6 sq. mm copper conductor armoured .	80	mtr.		
f)	3X2.5 sq. mm copper conductor armoured for ACS	20	mtr.		
2.4	End termination with brass compression glands including providing of				
	lugs/ferrules and making necessary connection etc complete as				
	required of the following sizes:				
a)	3.5X 50 sq. mm aluminum conductors	4	no.		
	3.5X 35 sq. mm aluminum conductors	4	no.		
-	3.5X25 sq. mm aluminum conductors	8	no.		
d)	4X16Sq.mm aluminum conductor	10	no.		
e)	3X6 sq. mm copper conductor	6	no.		
f)	3X2.5 sq. mm copper conductor	4	no.		
2.5	Providing and fixing the following switch on suitable size of MS base				
	and angle iron frame of suitable size and strength for installation on				
	wall /floor including grouting of frame & painting etc. complete as				
	required .				
a)	1 no.4 pole 200 Amps capacity change over switch with adaptor box	1	no.		
2.6	Providing and fixing 16 G MS sheet adopter box and also base frame				
2.0	for installation of MCB DBs plug and socket arrangements and to cover				
	cables in system room including painting etc complete as required.				
	cables in system room including painting etc complete as required.				
	for UPS input/output distribution	1	no.		
	TOTAL OF PART -II				
PART-III	: EARTHING				
	Supply and fix copper plate earth station with 600X600X3mm copper	1	set		
` ′	plate including all accessories such as watering pipe and funnel and				
	providing masonry enclosure at top with cover plate i.e excavation of				
	pit, supplying and filling of salt charcoal, refilling of pit etc complete as				
	required as per IS 3043-1987. The voltage between neutral and earth				
	must be below 1 V.				
(b)	Supply and fix GI plate earth station with 600X600X6mm GI plate	2	set		
(3)	including all accessories such as watering pipe and funnel and providing	_			
	masonry enclosure at top with cover plate i.e excavation of pit,				
	supplying and filling of salt charcoal, refilling of pit etc complete as				
	required as per IS 3043-1987.				
3.2 (a)	Supply fixing and termination of 20X3 mm copper strip with earth	3	mtr.		
(6/	station below ground level etc as required.				
(b)	Supply fixing and termination of 32x6 mm G.I. strip with earth station	6	mtr.		
`~'	below ground level etc as required.				
3.3 (a)		50	mtr.		
(/	earthing etc. as required.				
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(b)	Providing and fixing of 8 SWG GI earth wire in the recess for loop	40	mtr.	
	earthing etc. as required.			
3.4 a)	Supply and laying following dia 2 mm in thickness PVC pipe under			
	floor or in recessed walls from earth electrode to UPS room for			
	computer dedicated earthing including bends Tees Etc. making good			
	the damages etc. wherever required			
	25mm	100	mtr.	
	TOTAL OF PART -III			
PART-IV	/ : TELEPHONE , CCTV & SMOKE DETECTOR WIRING			
4.1	Wiring for telephone points with 0.6 mm dia 2 pair insulated annealed	15	no.	
	tinned electrolatic copper conductor in 2 mm thick 25 mm dia ISI			
	marked PVC conduit complete with accessories such as bends, junction			
	boxes etc. with suitable size of G.I. box modular plate and cover in			
	front on surface or in recess including providing and fixing modular			
	type telephone socket outlet and making necessary connections etc.			
	complete as reqd.			
4.2	Supply installation and testing of Tag Block 20 pair for telephone	1	no.	
	connections			
	TOTAL OF PART - IV			
PART-V	: NETWORKING			
5.1	Wiring for computer net working starting from mounting rack with UTP	32	No	
	Cat 6 cable in 2 mm thick 25 mm dia ISI marked PVC conduit pipe with			
	accessories such as bends, junction boxes including providing and fixing			
	I/O plates and SMB complete with all networking accessories etc			
	complete as required			
5.2	Removal & Re-installation of existing Switch, Patch panel & Rack as per	1.00	Job.	
	approved layout			
5.3	Supply, installation, testing and commissioning of 24-port Patch Panel.	1.00	no.	
	(Additional)			
5.4	Supply and installation, testing and commissioning of mounted rack 15	1.00	no.	
	U height made of powder coated MS sheet. (Additional)			
5.5	Supply Fixing and commissioning of Patch cable cat 6 of complete			
	with 2 nos of connectors etc complete as required.( factory			
	manufactured)			
	(a) 1 meter long	32	No	
	(b) 2 meter long	16	No	
5.6	Supply and laying of CAT 6 cable in PVC conduit of suitable size with	30.00	mtr	
	connectors as required., complete in all respects.			
	TOTAL OF PART - V			
PART-V	I : SITC OF FANS & FIXTURES			
6.1	SITC of 2'-0" x2'-0" Celing grid 33-36 watt LED panel fixtures with	26	no.	
	essential driver in false ceiling including making necessary			
	arrangement for mounting the fixtures and connection with 2 x 1.5			
	sq.mm insulated copper cable from adjacent point in PVC flexible pipe			
	etc Complete as reqd. Make Philips cat. RC 380 B- LED-30-6500PSE OD			
	WH or equivalent of Wipro / Bajaj / Crompton. Note: No			
	additional payment will be made for providing frame for light fixing			
	in Gypsum ceiling.			
6.2	SITC of 15 watt recess mounted <b>LED down light</b> with assembly	81	no.	
-	complete with including making necessary connections etc. Complete	-		
	as reqd. ( M/s Crompton Cat No. Or equivalent of Philips/Wipro/ Bajaj)			
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6.3	SITC of 6 watt LED spot/COB light (WIPRO : Fokus /LD 07 - 600-040-57-	10	no.		
	WH/CH/RG) with assembly complete with including making necessary				
	connections etc. Complete as reqd. ( M/s Crompton Cat No. Or				
	equivalent of Philips/ Bajaj) Note: No additional payment will be				
	made for providing frame/ hanging for light fixing in Gypsum				
	ceiling.Also, no extra proce will be paid for any change in light color				
	temprature or body color)				
6.4	Supply of 450 mm sweep metal body wall fan complete as reqd. Model	10	no.		
	turbo 180, USHA Make or equivalent of Crompton/Havells/Bajaj				
	(M/s Crompton Hi-Flo or equivalent of Khaitan / Bajaj				
6.5	SITC of Exhaust Fan 12inch dia, m etal body of CROMPTON / BAJAJ	5	no.		
	/KHAITAN				
6.6	Supply Installation, testing & commissioning of 5W LED STRIP light	35	mtr		
	with driver and Accessories complete as required ( MS CROMPTON or				
	equivalent of WIPRO , PHILLIPS, BAJAJ etc.				
6.7	SITC of 18 /20 watt of T5 LED fixtures directly on ceiling / wall including	12	no.		
	making necessary connections with 2x1.5 sq.mm insulated copper				
	cable conductor wire etc. complete as reqd Make Phillips cat no. DN -				
	192 - 1000 or equivalent of Wipro / Bajaj.				
6.8	SITC of 30 watt Street light /Flood light for lighting the front side of the	3	no.		
	branch(M/s Crompton Cat No. LSTS-30-CDL or equivalent of				
	Philips/Wipro .				
	TOTAL OF PART -VI				
PART-V	II : CREDIT OF OLD MATERIAL				
7.1	Existing old wiring including old tube lights, Switches, computer point	1	Lumpsum		
	Sockets, MCB DBs Cables and wires , Panels, Changeover (work also		·		
	includes removal from the premises).				
	No LED Light Fittings & fans are not part of Credit Item (all lights to be				
	re-used in Branch)				
	The work includes removing of complete old wiring as directed,				
	ensuring there is no hindrance to branch working and removing the old				
	stuff to contractors own dump.				
	No electrical/data/telephone point shall be removed prior to Branch				
	Head approval. NO CCTV/Smoke Detectoes/fire alarms to be removed				
NOTE:	Dismentaling of existing connections, temporary re-arragements of				
	UPS points /Data Points/Light Points/Tel Points for smooth working				
	of branch during renovation works will have to be done by the				
	executing agency.				
	SUMMARY				
	TOTAL OF PART I-VI(A)			А	
	TOTAL OF PART - VII (B)			В	
	TOTAL OF PART - VIII ©			С	
	TOTAL (A+B- C)				
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