## N.O.W. - ELECTRICAL WORKS OF STATE BANK OF INDIA, BRANCH AT BAHOLI REFINERY TOWNSHIP, PANIPAT

## BILL OF QUANTITIES (ELECTRICAL INSTALLATION)

1.1 Supply all r copper cond laid in floor Box with m sockets compartition) c two points of Legrand / I  4 points for as per the d  1.2 As per item switch and 6 DB Fixed in  2 As per item switch inches a socket arran  2.5 amp DP!  As per the l  5 Point Wirit    5.1 Wiring for I copper cond 6 Amp mode point with (Wires Manchor/Crail)    4 points for a socket arran  2.5 amp DP!  5 Point Wirit    5.1 Wiring for I copper cond 6 Amp mode point with (Wires Manchor/Crail)    6 An compared Extension a in suitable switches of I.5 to 2.0 for a supply condition of I.5 to 2.0 for a supply all mincluding properties of I.5 to 2.0 for a supply all mincluding properties of I.5 to 2.0 for a supply all mincluding properties witch mm FRLS of (Switches Manchor/Crail III)    7 Supply all mincluding properties witch mm FRLS of (Switches Manchor/Crail III)    7 Supply all mincluding properties witch mm FRLS of (Switches Manchor/Crail III)	00				
1.1 Supply all recopper conditation in floor Box with mesockets compartition) cutwo points of Legrand / I  4 points for as per the discovery as per the disc	Item  ID HEAD 1 (COMPUTED DOINTS AND DISTRIBUTION)	Quantity	Units	Rate	Amount
as per the d  1.2 As per item switch and 6 DB Fixed in  2 As per item switch inclusions a socket arran  2.5 amp air- 3.1 2.5 amp DPI  As per the service of	JB HEAD 1 (COMPUTER POINTS AND DISTRIBUTION) pply all materials, receiving, storing, handling, fixing and laying 3 x 2.5 sq.mm PVC insulated pper conductor armoured cable and fixing of cable on wall with suitable size of clamps/saddles or d in floor or recessed wall including cutting of floor/wall for computer points with suitable size GI ox with modular plate and cover in front including providing and fixing 3 no. 5 amp 5 pin modular exets controlled by 1 no. 5 Amp switch with indicator (to be provided above the table top in rtition) connection end terminations with suitable size of glands etc. complete as required. (Only o points can be connected in series with single cable). (Make: Anchor/Crabtree/North West/grand / L& T / GoldMetal/ REO)	14.00	each		
as per the d  1.2 As per item switch and 6 DB Fixed in  2 As per item switch inclusions a socket arran  2.5 amp air- 3.1 2.5 amp DPI  As per the service of	points for CM Cabin, 2 points per Manager Seat, 2 point per Counter, 2 per N/W Rack	14.00	each		
switch and 6 DB Fixed in  2 As per item switch inch  3 Providing a socket arran  25 amp air- 3.1 25 amp DP!  As per the l  5 Point Wirin  5.1 Wiring for l copper cond 6 Amp mod point with (Wires M. Anchor/Cr:  a) Single 6 An room supply  b) Single 6 An room supply  c) Single 6 An required  Extension a in suitable switches of 1.5 to 2.0 fo  6 Circuit Win a) Circuit wirin sq.mm + 1- the damage conduit 2mm circuit. (Wi  7 Supply all m including pr type switch mm FRLS of (Switches M.	per the drawing provided.				
switch inch  3 Providing a socket arran  25 amp DPI  As per the    5 Point Wirit  5.1 Wiring for I copper cone 6 Amp mode point with (Wires M. Anchor/Cr.  a) Single 6 Am room supply b) Single 6 Am point  c) Single 6 Am point  c) Single 6 Am required  Extension a in suitable switches of 1.5 to 2.0 for 1.5	per item 1.1 above but with 2 no. 16 amp 5 pin modular sockets controlled by 1 no. 16 amp modular itch and 6 amp indicator Lamp including the cover plate. ( For ATM points to be extended from ATM B Fixed in Branch UPS Room)	3.00	each		
25 amp air- 3.1 25 amp DPI  As per the 1 5 Point Wirin 5.1 Wiring for 1 copper cond 6 Amp mod point with (Wires M Anchor/Cr:  a) Single 6 Ampoint c) Single 6 Ampoint c) Single 6 Ampoint c) Single 6 Ampoint c) Single 6 Ampoint d) Extension as in suitable switches of 1.5 to 2.0 for 1.5 to 2.0	per item 1 above but with 1 no. 5 amp 5 pin modular sockets controlled by 1 no. 5 amp modular ritch including the cover plate(For T.V on Pillars/ Machines)	2.00	each		
3.1 25 amp DPI  As per the 1  5 Point Wirin  5.1 Wiring for 1 copper cond 6 Amp mode point with (Wires M. Anchor/Cr.  a) Single 6 An room supply b) Single 6 An room supply b) Single 6 An required  Extension of Extension as in suitable switches of 1.5 to 2.0 for	oviding and fixing, testing and commissioning of Heavy Duty modular air-conditioning plug & cket arrangement(Make: Anchor/Crabtree/North West/ Legrand / L& T / GoldMetal/ REO)				
5 Point Wirin 5.1 Wiring for I copper cond 6 Amp mod point with (Wires M Anchor/Cra  a) Single 6 Am point c) Single 6 Am point c) Single 6 Am required Extension as in suitable switches of 1.5 to 2.0 for 1.5 to 2.0 fo	amp air-conditioning point modular type socket { to be fixed 1.5 foot below false ceiling } with amp DPMCB C SERIES { to be fixed at Normal Height }.	6.00	each		
5.1 Wiring for I copper cone 6 Amp mod point with (Wires M. Anchor/Cr.  a) Single 6 Am room supply b) Single 6 Am point  c) Single 6 Am required  Extension of I.5 to 2.0 for I.5 to 2.0 for I.5 to I community and I.5 to I conduit I condu	per the Plan provided by the Architect for Split A.C.				
room supply b) Single 6 An point c) Single 6 An required  Extension of in suitable switches of 1.5 to 2.0 for  6 Circuit Wir sq.mm + 1- the damage conduit 2mr circuit. (Wi	int Wiring  iring for light point/ ceiling fan point/ exhaust fan point with 2 x 1.5 sq.mm FRLS PVC insulated pper conductor single core cable in surface / recessed medium class PVC conduit ISI Mark, with Amp modular switch,modular plate, suitable GI junction & switch boxes & clip and earthing the int with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required. Vires Make: Havells / RR Kable / KEI/ Finolex / Polycab) (Switches Make: nchor/Crabtree/North West/ Legrand / L& T / GoldMetal/ REO)				
b) Single 6 Ampoint c) Single 6 Ampoint c) Single 6 Ampoint d) Extension ampoint in suitable switches of 1.5 to 2.0 for  6 Circuit Winter Sq.mm + 1- the damage conduit 2mm circuit. (Winter Sm. Supply all mincluding putype switch mm FRLS of (Switches Mincluding Sm. Switches Mincluding S	ngle 6 Amp Switch controlling 1 light point for T-5, exhaust Fans , Ceiling fan and other separate om supply only	16.00	no.		
required  Extension of Extension of Insuitable switches Insuitable switches Insuitable switches Insuitable Insuitabl	ngle 6 Amp Switch controlling 3 no. LED downlight / 2 no. 2'- 0"x 2'-0" 36 watt light fittings on 1 int	30.00	no.		
d) Extension as in suitable switches of 1.5 to 2.0 for 1.5 to 2.0	ngle 6 Amp Socket controlling by 5 Amp Modular switch in switch boards etc complete as quired tension of wall fans / points:	8.00	no.		
a) Circuit wiring sq.mm + 1- the damage conduit 2mm circuit. (Wing sq. switch mm FRLS (Switches Market 1)	tension as per item 5.1 of points with 2 x 1.5 sq.mm. PVC insulated copper conductor FRLS cable suitable dia MS conduit in recess conduit wiring system for wall fan points with modular ritches of 6 amp {to be fixed at Normal Height} and 5 amp 5 pin modular sockets { to be fixed to 2.0 foot below false ceiling} as per requirement and filling chassis etc complete as reqd.	10.00	no.		
including pr type switch mm FRLS ( (Switches !	reuit Wiring: reuit Wiring: reuit wiring from the MCB/MCCB from the Distribution Board to the Switch Board with 2 x 2.5 rmm + 1-1.5 sq.mm copper conductor (FRLS) in PVC Conduit concealed/open and making good e damaged surfaces as per direction of the Engineer-in-charge. including the cost of the PVC nduit 2mm thick. At least 9 points of Point Wiring shall required to be connected with single reuit. (Wires Make: Havells / RR Kable / KEI/ Finolex / Polycab)		Each		
circuit.})	pply all material, storing, handling, fixing of Raw power points in suitable size of GI/PVC box cluding providing 1 no. 15 amps 6 pin modular power sockets controlled by 1 no 15 A moduler power switch and indicator with moduler cover plate etc complete as required including 2X2.5 sq. m FRLS copper wire + 1-1.5 sq.mm earth wire in dia 2 mm in thickness ISI Mark PVC pipe. witches Make: Anchor/Crabtree/North-West/ Legrand/ L& T / GoldMetal/REO) (Wires ake: Havells/ RR Kable / KEI /Finolex / Polycab) {Two points to be provided per reuit.})		each		
Drawing pr	points for BM Cabin, 1 point per Counter,1 for Water cooler, 2 for Pantry as per the awing provided.  aximum 3 Circuits of (Phase Nuetral Earth ) should run through single PVC Pipe Conduit.				

S. No.	Item	Quantity	Units	Rate	Amount
	Providing & laying following sizes of PVC insulated copper conductor cable of 1100 V in	Quantity	Units	Rate	Amount
	flexible/PVC conduit with accessories such as glands, bends etc.(as per requirement) including				
	making necessary Inter connection etc complete as reqd.				
a)	2 x 6 sq.mm with 1 no. suitable PVC insulated earth wire	20.00	mtr.		
9	Supply Installation, Testing & Commissioning of factory fabricated Double Door IP 43 distribution				
	board rust inhibited, powder coated sheet fabricated comprising of incoming & outgoing isolator &				
	MCB's neutral link or neutral bus, top and bottom detachable entry earthing bolts Interconnection				
	and grouting bolts etc complete as require as per details below:-(Make: Havells/Standard/ Hager/Legrand/Lauritz Knudsen / Indoasian)				
	Tager 20g and Educate Tanasas				
a)	8 way MCBDB comprising of 1 no. 63 amp DPMCB "C"Series and 6 no. 6/10amp SPMCB's "C"				
(4)	SERIES. (for the UPS points each DB to be connected to 12 UPS points i.e only two points shall				
	be connected with one MCB)				
	C MODER III AA AA PRINCE (NO CHA	1.00	each		
b)	6 way MCBDB comprising of 1 no. 32 amp DPMCB "C"Series and 4 no. 6/10amp SPMCB's "C"				
	SERIES. (for the UPS points each DB to be connected to 8 UPS points i.e only two points shall be connected with one MCB) (UPS O/P ATM & Rack)				
		1.00	each		
c)	4 way TPNDB comprising of 1 no. 100 amp 4 pole isolator and 6 no. 32 amp DPMCB (for Branch				
	/ ATM A.Cs). DPMCB must be of C Series.	1.00	each		
d)	4 way TPNDB comprising of 1 no. 63 Ampere TPN MCB "C" Series and 10 no. 16 amp SPMCB	1.00	Cacii		
'	"C" Series and 2 no. 32 amp SPMCB "C" Series (For Power Point Circuits & ATM A.C Points				
	).	1.00	1		
e)	4 way TPNDB comprising of 1 no. 63 Ampere TPN MCB "C" Series with 30 mA ELCB and 12	1.00	each		
()	nos. 6/10 amp SPMCB "C" Series. (For Light Point Circuits).	1.00	each		
f)	4 way DB comprising of 1 no. 100 amp 4 pole Isolator (for UPS I/C Branch)	1.00	each		
	4 way DB comprising of 2 no. 32 amp DPMCB "C" Series .(UPS O/P Branch & ATM)	2.00	each		
10	Supply, fixing and testing of following 3 pin metal clad industrial type plug & socket arrangement				
	with plug top cap & chain controlled by 1 No. MCBof following Ratings. (Make: Havells/Standard/				
	Hager/Legrand/Lauritz Knudsen / Indoasian)				
a)	20/25 amp Socket with 20/25 amp SPMCB "C" Series { UPS O/G 4 Branch }	4.00	no.		
b)	32 amp Socket with 32 amp SPMCB "C" Series { UPS I/C 3 Branch }		110.		
		3.00	no.		
11	Providing, fixing, testing and commissioning of 15 Amp Power Point modular type socket with 25 amp DPMCB "C" SERIES along with Plug or the rooms so that the supply is connected only when				
	the plug is inserted in the socket outside the rooms for fire safety. {1 each for Record, Cash,				
	Locker Room \(\) (Make: Anchor/Crabtree/North West/ Legrand / L& T / GoldMetal/ REO)				
12	Cost of maintaining & working 24 X 7 from date of commencement of work to date of completion.	4.00	no.		
12	The work includes temporary shifting of Branch with in the building / premises as required				
	including shifting of UPS's temporarily & after that permanently, required connections of UPS,				
	networking & lighting complete. The work includes removing &				
	refixing as required of all conduits / wires / cables / all kind of electrical equipments, temporarily /				
	permanently as required from the exterior façade & from the inside of the building before				
	dismantling & plastering. The work including all type of lead / lift, shuttering & scaffolding for all				
	heights & disposable / removal of malba to an unobjectionable place from the site.				
		1.00	job		
13	Providing & fixing suitable size of MS box fabricated with 16 S.W.G M.S. sheet either In recess wall	1.00	Joo		
	or on surface to accommodate dedicated earth from earth electrode and further distribution of earth				
	to computer points including providing 5mm backlite sheet on base connector strip and painting of				
	box etc complete as reqd.				
		1.00	job		
	SUB HEAD 2 (PANELS & CABLES)				
1	Providing & fixing 3 No. 200 amp kitkats (fuse carrier & base) with 1 no. neutral link on suitable size of backalite sheet of thickness not less than 6 mm etc. complete as reqd.				
	5120 of outstaine sheet of unormoss not less than o min etc. complete as requ.	1.00	job		
	In Panel for All MCCBs connected the interconnections must be with solid Bus Bar only.	1.00	Joo		
	(Make: Havells/Standard/ Hager/Legrand/Lauritz Knudsen / Indoasian)				
2	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 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				
_					·

In o MCCB Brocking Capocity 25 KA 160 Anny 4P. LAT make  In oo 5000 (sight) Volunteer in separate comparateoral and sight) Amp motor and one set of CTs (3 No. y with LT Brain 200 Anny Capocity 4 strips Aluminian but between the separate comportance of the separate composition of th	C N-	T4	0	TI24	D-4-	A
1 no D - 500V digital Voltmenter in separate compartment and digital Amp meter and one set of CTs (2 Nos) with CT Realiz 2005 A with LED type phase Indication Lamps with production flases in a spirately comparison of the production flases in a spirately comparison of the production flases in a spirately comparison of the production	S. No.	1 no MCCB Breaking Capacity 25 KA 160 Amp 4P . L&T make	Quantity	Units	Rate	Amount
(a) Nes) with CT Ratio 2005 A with LED type phase Indication Lamps with protection fascs in a separate compartment  200 Areps capacity 4 steps Aluminium has hars.  1.00 OUTGOING:  4 mos MCCB Breaking Capacity 10 KA 100 Amp 3P and 2 nos MCCB Breaking Capacity 10 KA 63 Amp 3P with separate neutral Limit, L&F made.  5 Supply, installation, testing & commissioning of PVC insulated PVC sheathed ammored cable of 1109 V CB-55 part 1 and fraing of cable on wall with satisble size of changes each complete as read.  5 Supply, installation, testing & commissioning of PVC insulated PVC sheathed ammored cable of 1109 V CB-55 part 1 and fraing of cable on wall with satisble size of changes each complete as read.  6 Slowing stress: (Vlake: Havellet RR Kable / REIFindexPolyenia)  1 3 15 x 58 sq.mm. aluminium conductor with 2 no. 8 S.WG. G.1. wire (from the Meter to the Change Over and from the Genetic to the Change over and from change over to the Essential panel to the Change Over and from the Genetic to the Change over and from change over to the Essential panel to the Change Over and from the Genetic Over UES DB.  2 x 50 sq.mm. aluminium conductor with 2 no. 8 S.W.G. G.1. wire (from the Essential panel to the Lighting DB)  3 x 50 sq.mm. aluminium conductor with 1 no. 8 S.W.G. G.1. wire (from the Essential panel to the Lighting DB)  4 x 50 sq.mm. copper conductor (for the Air-conditioning wiring from two yr PTDB to AC.  5 x 6 sq.mm. aluminium conductor  5 x 50 sq.mm. aluminium conductor  4 x 50 sq.mm. aluminium conductor  5 x 50 sq.mm. aluminium conductor  6 x 50 sq. sq. sq.mm. aluminium conductor  9 x 50 sq. sq.mm. aluminium conductor  10 x 50 sq.mm. aluminium conductor  10 x 50 sq. sq. sq.mm. aluminium						
separate compartment  200 Armps capacity 4 streps Ahminium hos bars.  OUTCODE:  4 sow MCCB Breaking Capacity 10 KA 100 Amp 3P and 2 nos MCCB Breaking Capacity 10 KA 63 Amp 3P with separate neutral Link, LRT make.  3 Supply, installation, testing & commissioning of PVC installated PVC sheathed armored cable of 1100 V (K3-1554 part 1) and fixing of cable on wall with satisble size of clamps/saddles or laid in 1100 V (K3-1554 part 1) and fixing of cable on wall with satisble size of clamps/saddles or laid in 1100 hours are considered in the control and satisfaction of the complex as reed.  of following sizes: (Whate Linceble RK Kall-Funder-Disposit)  3 - 3 × 50 sq. mm. aluminium conductor with 2 no. 8 × SWG G.1 wire (from the Meter to the Change Over and from the Genset to the Change over and from change over to the Exsential panel VC)  3 - 3 × 50 sq. mm. aluminium conductor with 2 no. 8 × SWG G.1. wire (from the Essential panel to the AC DB, URS CP, Ower D.B.)  4 × 10 × 3 cm. aluminium conductor with 1 no. 8 × SWG G.1. wire (from the Essential panel to the AC DB, URS CP, Ower D.B.)  5 × 2.5 × 3 cm. aluminium conductor with 1 no. 8 × SWG G.1. wire (from the Essential panel to the AC DB, URS CP, Ower D.B.)  5 × 2.5 × 3 cm. aluminium conductor with 1 no. 8 × SWG G.1. wire (from the Essential panel to the AC DB, URS CP, Ower D.B.)  5 × 2.5 × 3 cm. aluminium conductor with 1 no. 8 × SWG G.1. wire (from the Essential panel to the AC DB, URS CP, Ower D.B.)  5 × 2.5 × 3 cm. aluminium conductor with 1 no. 8 × SWG G.1.  6 × 4 × 10 × 4 mm aluminium conductor  9 × 2.5 × 3 cm. aluminium conductor  9 × 3.5 × 5 × 3 vm. aluminium conductor  9 × 3.5 × 5 vm. aluminium conductor  9 × 5 × 5 vm. aluminium conductor  9 × 5 × 5 vm. aluminium conductor  9 × 5 × 5 vm. aluminium conductor  10 × 5 vm						
200 Armys capacity 4 strips A horninium bus bars.  OUTGOING  4 nos MCCB Breaking Capacity 10 KA 100 Amp 3P and 2 nos MCCB Breaking Capacity 10 KA 65 Amp 3P with separate acetala Link, L&T make.  3 supply, institution, terting & commissioning of PVC instituted ammored cable of 1100 V (81-558 part 1) and fixing of cable on wall with sainable size of climpary-aduells or india in floor/evcess wall including cutting of floor/wall and making good the damages ore, complete as reed of following accessors (Make Bravel RK Rake). KEEDIncher/Day/cabl)  3 \$3.5 x 50 sq.mm, aluminium conductor with 2 no. 8 x 5WG, G.1, wire (from the Meter to the Change Over and from the Geneet to the Change Over and from the Geneet to the Change Over and from the making over to the Isocatial panel to the AC DB, UTS IC, Power DB)  4 \$1.5 x 55 sq.mm, aluminium conductor with 2 no. 8 x 5WG, G.1, wire (from the Essential panel to the AC DB, UTS IC, Power DB)  5 x 55 sq.mm, aluminium conductor with 2 no. 8 x 5WG, G.1, wire (from the Essential panel to the AC DB, UTS IC, Power DB)  6 x 10 sq.mm, aluminium conductor with 1 no. 8 x 5WG, G.1, wire (from the Essential panel to the Lighting BB)  7 x 2.5 sq.mm, copper conductor (for the AL-conditioning wiring from 4way IPPDB to A.C Socket)  8 x 10 sq.mm, aluminium conductor  8 x 10 sq.mm, aluminium conductor  9 x 3 x 2.5 sq.mm copper conductor (for the AL-conditioning wiring from 4way IPPDB to A.C Socket)  10 x 2.5 sq.mm aluminium conductor  9 x 3 x 2.5 sq.mm aluminium conductor  9 x 3 x 2.5 sq.mm aluminium conductor  9 x 3 x 2.5 sq.mm aluminium conductor  9 x 2.5 sq.mm aluminium conductor  9 x 2.5 sq.mm aluminium conductor  9 x 2.5 sq.mm aluminium conductor  10 x x 10 sq.mm aluminium conductor  10 x x 10 sq.mm aluminium conductor  10 x x 10 sq.mm aluminium conductor  11 x x 10 sq.mm aluminium conductor  12 x x 10 sq.mm aluminium conductor  13 x 10 sq.mm aluminium conductor  14 x 10 sq.mm aluminium conductor  15 x x 10 sq.mm aluminium conductor  16 x x 10 sq.mm aluminium conductor  17 x x 10 sq.mm alumin						
OUTCOING			1.00	set		
4 no MCCB Breaking Capacity 10 KA 100 Amp SP and 2 nos MCCB Breaking Capacity 10 KA 63 Amp SP with separate neutral list, L8T make.  3 Supply, installation, testing & commissioning of PVC insulated PVC sheathed armored cable of 1100 V (8:1554 part 1) and fixing of cable on wall with autible size of clumps' saddles or laid in floorings access. (Make Havello RR Kaller AKLIPMolex Polycab)  3 Sy 20 Sq.mm. aluminimus of floorwal and making good the damage sect. complete as reced. of floorwal and making good the damage sect. complete as reced. of floorwal and making good the damage sect. complete as reced. of floorwal and making good the damage sect. of the Executal panel to the Change Over and from the Censet to the Change over and from change over to the Executal panel to the AC DB, USE IV. Power DB.  4 X 10 Sq. mm. aluminimus conductor with 2 no. 8 S.W.G. G.I. wire (from the Executal panel to the Lighting DB)  5 X 25 Sq.mm. aluminimus conductor for the Air-conditioning wiring from dway TPNDB to A.C. Socket)  4 X 10 Sq. mm. copper conductor (for the Air-conditioning wiring from dway TPNDB to A.C. Socket)  5 20 Sq. X 25 Sq.mm. aluminimus conductors  4 X 10 Sq. mm. aluminimus conductors  4 X 10 Sq. mm. aluminimus conductors  4 X 10 Sq. mm. aluminimus conductors  5 X 25 Sq. mm. aluminimus conductors  4 X 10 Sq. mm. aluminimus conductors  5 X 25 Sq. mm. aluminimus conductors  6 X 25 Sq. mm. aluminimus conductors  9 X 25 Sq. mm. opper conductors  1 Sq. mm. copper conductors  1 Sq.		200 Amps capacity 4 strips Aluminium bus bars.				
4 no MCCB Breaking Capacity 10 KA 100 Amp SP and 2 nos MCCB Breaking Capacity 10 KA 63 Amp SP with separate neutral list, L8T make.  3 Supply, installation, testing & commissioning of PVC insulated PVC sheathed armored cable of 1100 V (8:1554 part 1) and fixing of cable on wall with autible size of clumps' saddles or laid in floorings access. (Make Havello RR Kaller AKLIPMolex Polycab)  3 Sy 20 Sq.mm. aluminimus of floorwal and making good the damage sect. complete as reced. of floorwal and making good the damage sect. complete as reced. of floorwal and making good the damage sect. complete as reced. of floorwal and making good the damage sect. of the Executal panel to the Change Over and from the Censet to the Change over and from change over to the Executal panel to the AC DB, USE IV. Power DB.  4 X 10 Sq. mm. aluminimus conductor with 2 no. 8 S.W.G. G.I. wire (from the Executal panel to the Lighting DB)  5 X 25 Sq.mm. aluminimus conductor for the Air-conditioning wiring from dway TPNDB to A.C. Socket)  4 X 10 Sq. mm. copper conductor (for the Air-conditioning wiring from dway TPNDB to A.C. Socket)  5 20 Sq. X 25 Sq.mm. aluminimus conductors  4 X 10 Sq. mm. aluminimus conductors  4 X 10 Sq. mm. aluminimus conductors  4 X 10 Sq. mm. aluminimus conductors  5 X 25 Sq. mm. aluminimus conductors  4 X 10 Sq. mm. aluminimus conductors  5 X 25 Sq. mm. aluminimus conductors  6 X 25 Sq. mm. aluminimus conductors  9 X 25 Sq. mm. opper conductors  1 Sq. mm. copper conductors  1 Sq.		OUTCOINC				
3 Supply, installation, testing & commissioning of PVC insulted PVC sheathed armored cable of 1100 V (18-1354 part 1) and fixing of cable on wall with suitable size of clumps' saddles or laid in floorreceas wall including cutting of floorival and making good the damages see, complete as reed, of following sizes. (Make Harden KR Rather KLR/moset Polycub)  3 \$5 x \$5 0 s.g.mm. aluminism conductor with 2 no. 8 S.W.G. G.I., wire (from the Meter to the Change Over and from the Centure to the Change over and from the Centure of the Change over to the Essential panel to the AC 108, UPS 12 (19 per mit.)  4 \$1 S x y arm. aluminium conductor with 1 no. 8 S.W.G. G.I. wire (from the Essential panel to the Lighting B)  5 \$2 x 5 s.g.mm. copper conductor (for the Air-conditioning wiring from 4way TPNBB to AC 100.00 per mit.)  4 End termination with Brass compression glands including providing lagsiferruls and making necessary commentions etc. complete as read. of following sizes:  3 \$5 x 50 s.g.mm aluminium conductor  4 \$10 s.g.mm aluminium conductor  5 \$2 x 5 s.g.mm aluminium conductor  6 \$3 x 2.5 s.g.mm aluminium conductor  6 \$3 x 2.5 s.g.mm aluminium conductor  8 \$3 x 5 s.g.mm aluminium conductor  9 \$3 x 2.5 s.g.mm aluminium conductor  9 \$3 x 2.5 s.g.mm aluminium conductor  10 \$3 x 5 s.g.mm alu						
100 V (IS-1554 part 1) and fixing of eable on wall with suitable size of clamps' saddles or laid in floor/recess wall including curing of floor/wall and making good the damages etc. complete as reed of following sizes: (Maker Havells RR Kable / KEUFinolev-Polycab)   35 x 50 sq.mm. aluminism conductor with 2 no. 8 S.W.G. G.1. wire (from the Meter to the Change Over and from the Genset to the Change over and from change over to the Essential panel to the Change Over and From the Genset to the Change over and from change over to the Essential panel to the Change Over D.B. (195 UK, Power D.B.)   5 x 50 sq.mm. aluminism conductor with 1 no. 8 S.W.G. G.1. wire (from the Seential panel to the Change D.B.)   6 x 10 sq.mm. aluminism conductor (for the Air-conditioning wiring from 4way TPNDB to A.C. (2000)   per mit. (		63 Amp 3P with separate neutral Link, L&T make.				
Boor/recess wall including cutting of Boor/well and making good the damages etc. complete as reed of following sizes: Make: Havels/R RK Rable / KliPimolec/Phycylos)	3					
of following sizes: Make: Havells / RR Kable / KELFinotevPolycab)  a) 3.5 x 50 sq.mm. aluminism conductor with 2 no. 8 S.W.G. G.1. wire (from the Meter to the Change Over and from the Genset to the Change over and from the Essential panel I/C)  b) 3.5 x 25 sq.mm. aluminism conductor with 2 no. 8 S.W.G. G.1. wire (from Essential panel to the Change Over D.B)  c) 3.5 x 5 sq.mm. aluminism conductor with 1 no. 8 S.W.G. G.1. wire (from the Secutial panel to the Change Over D.B)  d) 4 x 10 sq.mm. aluminism conductor (for UP D.B)  d) 4 x 10 sq.mm. aluminism conductor (for the Air-conditioning wiring from 4way TPNDB to A.C. Socket)  f) 2 x 2.5 sq.mm. copper conductor (for the Air-conditioning wiring from 4way TPNDB to A.C. Socket)  f) 2 x 2.5 sq.mm. copper conductor (for the Air-conditioning sizes:  a) 3.5 x 50 sq.mm. aluminism conductor  f) 3 x 5.5 sq.mm. aluminism conductor  g) 3 x 5.5 sq.mm alumini		\ 1 / 5				
a) 3.5 x 50 sq.mm, aluminium conductor with 2 no. 8 S.W.G. G.1. wire (from the Meter to the Change Over and from the Genset to the Change over to the Essential panel It.V.  b) 3.5 x 25 sq.mm, aluminium conductor with 2 no. 8 S.W.G. G.1. wire (from Essential panel to the ACD BR, UPS (C. Power D.B.)  c) 3.6 sq.mm copper conductor (for UPS DB)  d) 4.8 10 sq.mm, aluminium conductor with 1 no. 8 S.W.G. G.1. wire (from the Essential panel to the Lighting DB)  o) 3.7 x 50 sq.mm, copper conductor (for the Air-conditioning wiring from 4way TPNDB to AC Socket)  1.0 x 2.5 x 50 sq.mm, aluminium conductor with 1 no. 8 S.W.G. G.1. wire (from the Essential panel to the Lighting DB)  1.3 x 30 sq.mm, aluminium conductor with 1 no. 8 S.W.G. G.1. wire (from the Market Problem 1 no. 100.00 per mit. 100						
Change Over and from the Genset to the Change over and from change over to the Essential panel IVC)  5.0.00 per mt.  5.0.00 per mt.  6.00 per mt.  7.0.00 per mt.  7.0.00 per mt.  7.0.00 per mt.  7.0.00 per mt.  8.00 per mt.  8						
panel ICC	a)					
b) 3.5 x 25 sq.mm. aluminium conductor with 2 no. 8 S.W.G.G.I. wire (from Essential panel to the ACDB, IPS IC, Power D.B.)  c) 3.5 x 5 sq.mm. copper conductor for UPS DB)  d) 4.10 sq.mm. aluminium conductor with 1 no. 8 S.W.G.G.I. wire (from the Essential panel to the Lageting DB)  e) 3 x 2.5 sq.mm. copper conductor (for the Air-conditioning wiring from 4may TPNDB to A.C. Socketsmannian on with Brass compression glands including providing lugs/ferruls and making non-consumption of the state of the season of the conductor of the conductor of the season of the conductor of the season o						
ACDB_UPS_ICC_Power_D.B.   70.00 per mtr.    0. 3x 6 sq.mm. copper conductor (for UPS DB)   60.000 per mtr.    1x 10 sq.mm. aluminium conductor with 1 no. 8 s.W.G. G.1. wire (from the Essential panel to the Lighting DB)   30.00 per mtr.    2x 2x 5 sq.mm. copper conductor (for the Air-conditioning wiring from 4way TPNDB to A.C.    2x 6 scacker   100.00 per mtr.    2x 10 sq.mm. aluminium conductor   100.00 per mtr.    2x 10 sq.mm. aluminium conductor   4.00 cach    2x 2x 5 sq.mm. aluminium conductor   4.00 cach    2x 2x 5 sq.mm. aluminium conductor   8.00 cach    2x 2x 5 sq.mm. Copper conductor   8.00 cach    2x 2x 5 sq.mm. Copper conductor   8.00 cach    2x 2x 5 sq.mm. Copper conductor   2.00 cach    2x 5 sq.mm. Copper conductor   2.00 cach    2x 6 cach   2x 6 cach   2x 6 cach    2x 6 cach   2x 7 cach   2x 6 cach    2x 6 cach   2x 7 cach   2x 6 cach    2x 6 cach   2x 7 cach   2x 6 cach    2x 6 cach   2x 6 cach   2x 6 cach    2x 7 cach   2x 6 cach   2x 6 cach    2x 7 cach   2x 6 cach   2x 6 cach    2x 7 cach   2x 6 cach   2x 6 cach    2x 7 cach   2x 6 cach   2x 6 cach    2x 7 cach   2x 6 cach   2x 6 cach    2x 7 cach   2x 6 cach   2x 6 cach    2x 7 cach   2x 6 cach   2x 6 cach    2x 8	1.1		50.00	per mtr.		
d. x lo sq.mm. copper conductor (for UPS DB)   d. x lo sq.mm. aluminum conductor with I no. 8 S.W.G. G.I. wire (from the Essential panel to the Lighting DB)   d. x lo sq.mm. copper conductor (for the Air-conditioning wiring from 4way TPNDB to A.C.   100.00   per mit.	(b)	` `	70.00	ner mfr		
d) 4 x 10 sq.mm. aluminium conductor with 1 no. 8 S.W.G. G.1. wire (from the Essential panel to the Lighting IB)  3 x 2.5 sq.mm. opper conductor (for the Air-conditioning wiring from 4way TPNDB to A.C. Socket)  4 End termination with Brass compression glands including providing lugs/ferruls and making necessary connections acts complete as reqd. of following sizes:  3 3 x 2.5 sq.mm. aluminium conductor  4 x 10 sq. mm aluminium conductor  5 x 6 x 2.5 sq. mm aluminium conductor  4 x 10 sq. mm aluminium conductor  6 x 3 x 6 sq. mm Copper conductor  7 x 10 sq. mm aluminium conductor  8 x 2.0 cach  9 x 2.5 sq. mm Copper conductor  9 x 2.5 sq. mm Copper conductor  1 x 10 sq. mm aluminium conductor  9 x 2.5 sq. mm Copper conductor  1 x 2.00 cach  9 x 2.5 sq. mm Copper conductor  1 x 2.00 cach  1 x 2.00 cach  9 x 2.5 sq. mm Copper conductor  1 x 2.00 cach  1 x 2.00 cach  9 x 2.5 sq. mm Copper conductor  1 x 2.00 cach  2 x 2.00 cach  1 x 2.00 cach  1 x 2.00 cach  1 x 3.0 x 2.5 sq. mm Copper conductor  1 x 3.00 x 2.5 sq. mm Copper conductor  1 x 3.0 x 2.5 sq. mm Copper conductor  1 x 2.00 cach  2 x 2.00 cach  2 x 2.00 cach  1 x 2.00 cach  1 x 3.0 x 2.5 sq. mm Copper conductor  2 x 3.0 x 2.5 sq. mm Copper conductor  3 x 3.0 x 2.5 sq. mm Copper conductor  5 x 3.0 x 2.5 sq. mm Copper conductor  5 x 3.0 x 2.5 sq. mm Copper conductor  5 x 3.0 x 2.5 sq. mm Copper conductor  1 x 2.00 cach  1 x 3.0 x 2.5 sq. mm Copper conductor  1 x 3.0 x 2.5 sq. mm Copper conductor  1 x 3.0 x 2.5 sq. mm Copper conductor  1 x 3.0 x 2.5 sq. mm Copper conductor  1 x 3.0 x 2.5 sq. mm Copper conductor  1 x 3.0 x 2.5 sq. mm Copper conductor  1 x 4.0 x 2.0 x 2	c)					
Signature   Sign		4 x 10 sq.mm. aluminium conductor with 1 no. 8 S.W.G. G.1. wire (from the Essential panel to				
Socket    100.00 per mtr.	>	0 0 7	30.00	per mtr.		
4 End termination with Brass compression glands including providing lugs/ferruls and making necessary connections etc. complete as read. of following sizes:  a) 3.5 x 50 sq.mm. aluminium conductor  5 3 X 6 sq.mm Copper conductor  4 X 10 sq. mm aluminium conductor  2 2.00 each  4 X 10 sq. mm aluminium conductor  2 2.00 each  3 X 2 5 sq. mm Copper conductor  5 Providing & fixing suitable size of angle iron frame suitable for installation on wall/floor including grouting of frame &painting etc. complete as read. comprising of the following: (Make: HavelloS/standard HagerLegrand/Lauritz Knudsen/Indoasian/IPL)  3 In NO4 pole 200 amp capacity changeover switch.  6 Providing & fixing 16 S.W.G.M.S.sheet adaptor box, and also base frame for installation of M.C.B.D.B.s plag & socket arrangement and to cover cables in system room including painting etc. complete  5 SUB-HEAD 3 (EARTHING)  1 Supply & fix copper plate carth station with 600x6000x3 mm thick copper plate including all accessories such as watering pipe & finnel and providing masonary enclosure at top with cover plate i/c excavation of pit supplying & filling of salt charcoal, refilling of pit etc complete as read as per IS 3043-1987. The voltage between neutral & earth must be below 1 vol. ( For the Branch UrS)  2 Supply & fix G.I. plate earth station with 600x600x6 mm thick G.I. plate including all accessories such as watering pipe & funnel and providing masonary enclosure at top with cover plate i/c excavation of pit supplying & filling of charcoal, refilling of pit etc complete as read as per IS 3043-1987 (for the neutral carthing from the point of neutral link beside the fuse connection and second for the body earthing connected to bothe panel body and the ups base panel) 1 st FOR NUETRAL EARTHING and 2 <sup>nd</sup> FOR BODY EARTHING]  2 Chamber for the earthing shall be available at site without if the earthing cost shall not be paid for all the Earthing shall be available at site without in the earthing taken at the time of execution of the same.  3 Supplying and	(e)		100.00	ner mfr		
necessary connections etc. complete as read. of following sizes:    3.5 x 50 sq.mm. aluminium conductor	4		100.00	per mu.		
b) 3.5 X 25 sq.mm aluminum conductor  3 X 6 sq. mm Copper conductor  4 X 10 sq. mm Copper conductor  5 Providing & fixing suitable size of angle iron frame suitable for installation on wall/floor including grouting of frame &painting etc. complete as reqd. comprising of the following: (Make: Havels/Standard/ Hagert-Legrand/Lauritz Knudsen/Indoasian/IIFL)  a) 1 NO.4 pole 200 amp capacity changeover switch.  6 Providing & fixing 16 S.W.G.M.S.sheet adaptor box, and also base frame for installation of M.C.B.D.B.s plug & socket arrangement and to cover cables in system room including painting etc. complete  5 UB-HEAD 3 (EARTHING)  1 SUB-HEAD 3 (EARTHING)  1 Supply & fix copper plate earth station with 600x600x3 mm thick copper plate including all accessories such as watering pipe & funnel and providing masonary enclosure at top with cover plate ic excavation of pit supplying & filling of salt charcoal, refilling of pit etc complete as reqd as per IS 3043-1987. The voltage between neutral & earth must be below 1 volt. (For the Branch UPS)  5 Supply & fix G.J. plate earth station with 600x600x6 mm thick G.J. plate including all accessories such as watering pipe & funnel and providing masonary enclosure at top with cover plate ic excavation of pit, supplying & filling of charcoal, refilling of pit etc complete as reqd as per IS 3043-1987. The voltage between neutral & earth must be below 1 volt. (For the Branch UPS)  5 Supply & fix G.J. plate earth station with 600x600x6 mm thick G.J. plate including all accessories such as watering pipe & funnel and providing masonary enclosure at top with cover plate ic excavation of pit, supplying & filling of charcoal, refilling of pit etc complete as reqd as per IS 3043-1987 (for the neutral earthing from the point of neutral link beside the fuse connection and second for the body earthing connected to bothe panel body and the ups base panel) 1 1st FOR NUETRAL EARTHING and 2nd FOR BODY EARTHING]  2.00 set  Chamber for the earthing shall be available at site without it the earthing		necessary connections etc. complete as reqd. of following sizes:-				
c) 3 X 6 sq. mm Copper conductor  d) 4 X 10 sq. mm aluminium conductor  e) 3 X 2.5 sq. mm Copper conductor  18.00 each  2.00 each  2.00 each  18.00 each  2.00 each	a)	3.5 x 50 sq.mm. aluminium conductor	4.00	each		
d) 4 X 10 sq. mm aluminium conductor 2.00 each 2.00 each 3 X 2.5 sq. mm Copper conductor 5 Providing & fixing suitable size of angle iron frame suitable for installation on wall/floor including grouting of frame Apainting etc. complete as reqd. comprising of the following: (Make: Havells/Standard/ Hager/Legrand/Lauritz Knudser/ Indoasian/HPL)  a) 1 NO.4 pole 200 amp capacity changeover switch. 1 NO.5 pole 200 amp capacity changeover switch. 1 NO.6 providing & fixing 16 S.W.G.M.S.sheet adaptor box, and also base frame for installation of M.C.B.D.Bs plug & socket arrangement and to cover cables in system room including painting etc. complete 2.00 sq.mtr.  SUB-HEAD 3 (EARTHING) 1 Supply & fix copper plate earth station with 600x6000x3 mm thick copper plate including all accessories such as watering pipe & funnel and providing masonary enclosure at top with cover plate ive exercation of pit supplying & filling of salc tharcoal, refilling of pit etc complete as reqd as per IS 3043-1987. The voltage between neutral & earth must be below 1 volt. (For the Branch UPS) 1.00 set 2 Supply & fix G.I. plate earth station with 600x600x6 mm thick G.I. plate including all accessories such as watering pipe & funnel and providing masonary enclosure at top with cover plate ive exercation of pit, supplying & filling of salc charcoal, refilling of pit etc complete as reqd as per IS 3043-1987 (for the neutral earthing from the point of neutral link beside the fuse connection and second for the body earthing connected to bothe panel body and the ups base panel) [1st FOR NUETRAL EARTHING and 2 <sup>nd</sup> FOR BODY EARTHING] 2.00 set  Chamber for the earthing shall be available at site without it the earthing cost shall not be paid for all the Earthings. You are also required to provide picture of earthing taken at the time of execution of the same.  4 Supplying and laying 20 mm X 3 mm copper strip at 0.50 meter below ground as strip earth electrode, including connection/ terminating with nut, bolt, spring, washer etc. as required  5.00 per mtr	b)	3.5 X 25 sq.mm aluminum conductor	8.00	each		
c) 3 X 2.5 sq. mm Copper conductor  5 Providing & fixing suitable size of angle iron frame suitable for installation on wall/floor including grouting of frame &painting etc. complete as reqd. comprising of the following: (Make: Havells/Standard/ Hager/Legrand/Lauritz Knudsen / Indonsian/IPL)  a) 1 NO.4 pole 200 amp capacity changeover switch.  6 Providing & fixing 16 S.W.G.M.S.sheet adaptor box, and also base frame for installation of M.C.B.D.B.s plug & socket arrangement and to cover cables in system room including painting etc. complete  2.00 sq.mtr.  SUB-HEAD 3 (EARTHING)  1 Supply & fix copper plate earth station with 600x6000x3 mm thick copper plate including all accessories such as watering pipe & funnel and providing masonary enclosure at top with cover plate ic excavation of pit supplying & filling of salt charcoal, refilling of pit etc complete as read as per IS 3043-1987. The voltage between neutral & earth must be below 1 volt. (For the Branch Urs)  2 Supply & fix G.I. plate earth station with 600x600x6 mm thick G.I. plate including all accessories such as watering pipe & funnel and providing masonary enclosure at top with cover plate ic excavation of pit, supplying & filling of charcoal, refilling of pit etc complete as read as per IS 3043-1987 (for the neutral earthing from the point of neutral link beside the fuse connection and second for the body earthing connected to bothe panel body and the ups base panel) [1st FOR NUETRAL EARTHING and 2"d FOR BODY EARTHING]  Chamber for the earthing shall be available at site without it the earthing cost shall not be paid for all the Earthings. You are also required to provide picture of earthing taken at the time of execution of the same.  5 Supplying and laying 20 mm X 3 mm copper strip at 0.50 meter below ground as strip earth electrode, including connection/ terminating with nut, bolt, spring, washer etc. as required and on wall saddle etc complete as read.  5 Providing & fixing 8 S.W.G Copper earth wire on surface or in recess for loop earthing etc. as r	c)	3 X 6 sq. mm Copper conductor	8.00	each		
contact the second providing & fixing suitable size of angle iron frame suitable for installation on wall/floor including grouting of frame & painting etc. complete as reqd. comprising of the following: (Make: Havells/Standard/ Hager/Legrand/Lauritz/Knudsen / Indoasian/HPL)  a) I NO.4 pole 200 amp capacity changeover switch.  b) Providing & fixing 16 S.W.G.M.S.sheet adaptor box, and also base frame for installation of M.C.B.D.B.s plug & socket arrangement and to cover cables in system room including painting etc. complete complete  SUB-HEAD3 (EARTHING)  1 Supply & fix copper plate earth station with 600x6000x3 mm thick copper plate including all accessories such as watering pipe & funnel and providing masonary enclosure at top with cover plate ic excavation of pit supplying & filling of salt charcoal, refilling of pit etc complete as reqd as per IS 3043-1987. The voltage between neutral & carth must be below 1 volt. (For the Branch UPS)  2 Supply & fix G.I. plate earth station with 600x600x6 mm thick G.I. plate including all accessories such as watering pipe & funnel and providing masonary enclosure at top with cover plate ic excavation of pit supplying & filling of find complete as reqd as per IS 3043-1987 (for the neutral earthing from the point of neutral link beside the fuse connection and second for the body earthing connected to bothe panel body and the ups base panel) [1st FOR NUETRAL EARTHING and 2 <sup>nd</sup> FOR BODY EARTHING]  Chamber for the earthing shall be available at site without it the earthing cost shall not be paid for all the Earthings. You are also required to provide picture of earthing taken at the time of execution of the same.  Supplying and laying 20 mm X 3 mm copper strip at 0.50 meter below ground as strip earth electrode, including connection/ terminating with nut, bolt, spring, washer etc. as required and on wall saddle ctc complete as reqd.  5 Providing & fixing 8 S.W.G Copper earth wire on surface or in recess for loop earthing etc. as reqd.	d)	4 X 10 sq. mm aluminium conductor	2.00	each		
5 Providing & fixing suitable size of angle iron frame suitable for installation on wall/floor including grouting of frame &painting etc. complete as reqd. comprising of the following: (Make: Havelb/Standard/ Hager/Legrand/Lauritz Knudsen / Indonssian/HPL)  a) 1 NO.4 pole 200 amp capacity changeover switch.  1.00 job  6 Providing & fixing 16 S.W.G.M.S.sheet adaptor box, and also base frame for installation of M.C.B.D.B.s plug & socket arrangement and to cover cables in system room including painting etc. complete  2.00 sq.mtr.  SUB-HEAD 3 (EARTHING)  1 Supply & fix copper plate earth station with 600x6000x3 mm thick copper plate including all accessories such as watering pipe & funnel and providing masonary enclosure at top with cover plate ice excavation of pit supplying & filling of salt charcoal, refilling of pit etc complete as reqd as per IS 3043-1987. The voltage between neutral & earth must be below 1 volt. ( For the Branch UPS)  2 Supply & fix G.I. plate earth station with 600x600x6 mm thick G.I. plate including all accessories such as watering pipe & funnel and providing masonary enclosure at top with cover plate ice excavation of pit, supplying & filling of charcoal, refilling of pit etc complete as reqd as per IS 3043-1987 (for the neutral carthing from the point of neutral link beside the fuse connection and second for the body earthing connected to bothe panel body and the ups base panel) [1 st FOR NUETRAL EARTHING and 2 <sup>nd</sup> FOR BODY EARTHING]  Chamber for the earthing shall be available at site without it the earthing cost shall not be paid for all the Earthings. You are also required to provide picture of earthing taken at the time of execution of the same.  3 Supplying and laying 20 mm X 3 mm copper strip at 0.50 meter below ground as strip earth electrode, including connection/terminating with nut, bolt, spring, washer etc. as required  5.00 per mtr.  4 Supplying, fixing & termination of 20 mm X 3 mm Gl strip with earth station below ground level and on wall saddle etc complete as reqd.  Provid	e)	3 X 2.5 sq. mm Copper conductor				
grouting of frame &painting etc. complete as reqd. comprising of the following: (Make: Havello/Standard/Hager/Legrand/Lauritz Knudsen / Indoasian/HPL)  1 NO.4 pole 200 amp capacity changeover switch.  2 No.4 pole 200 amp capacity changeover switch.  1 No.4 pole 200 amp capacity changeover switch.  2 No.6 B.B.s plug & socket arrangement and to cover cables in system room including painting etc. complete score complete search saturation with 600x6000x3 mm thick copper plate including all accessories such as watering pipe & funnel and providing massonary enclosure at top with cover plate i/c excavation of pit supplying & filing of slat charcoal, refilling of pit etc complete as reqd as per IS 3043-1987. The voltage between neutral & earth must be below 1 volt. ( For the Branch UPS)  2 Supply & fix G.I. plate earth station with 600x600x60mm thick G.I. plate including all accessories such as watering pipe & funnel and providing masonary enclosure at top with cover plate i/c excavation of pit, supplying & filing of pit etc complete as reqd as per IS 3043-1987 (for the neutral earthing from the point of neutral link beside the fuse connection and second for the body earthing connected to bothe panel body and the ups base panel) [1st FOR NUETRAL EARTHING and 2 FOR BODY EARTHING]  2 Chamber for the earthing shall be available at site without it the earthing cost shall not be paid for all the Earthings. You are also required to provide picture of earthing taken at the time of execution of the same.  3 Supplying and laying 20 mm X 3 mm copper strip at 0.50 meter below ground as strip earth electrode, including connection/terminating with nut, bolt, spring, washer etc. as required  5 Soon per mtr.  5 Providing & fixing 8 S.W.G Copper earth wire on surface or in recess for loop earthing etc. as reqd.			10.00	cacii		
1.00 job  1.00 sq.mtr.  1.00		grouting of frame &painting etc. complete as reqd. comprising of the following: (Make:				
6 Providing & fixing 16 S.W.G.M.S.sheet adaptor box, and also base frame for installation of M.C.B.D.B.s plug & socket arrangement and to cover cables in system room including painting etc.  2.00 sq.mtr.  SUB-HEAD 3 (EARTHING)  1 Supply & fix copper plate earth station with 600x6000x3 mm thick copper plate including all accessories such as watering pipe & funnel and providing masonary enclosure at top with cover plate i/c excavation of pit supplying & filling of salt charcoal, refilling of pit etc complete as read as per IS 3043-1987. The voltage between neutral & earth must be below 1 volt. ( For the Branch UPS)  2 Supply & fix G.I. plate earth station with 600x600x6 mm thick G.I. plate including all accessories such as watering pipe & funnel and providing masonary enclosure at top with cover plate i/c excavation of pit, supplying & filling of charcoal, refilling of pit etc complete as read as per IS 3043-1987 (for the neutral earthing from the point of neutral link beside the fuse connection and second for the body earthing connected to bothe panel body and the ups base panel) [1st FOR NUETRAL EARTHING and 2nd FOR BODY EARTHING]  2.00 set  Chamber for the earthing shall be available at site without it the earthing cost shall not be paid for all the Earthings. You are also required to provide picture of earthing taken at the time of execution of the same.  3 Supplying and laying 20 mm X 3 mm copper strip at 0.50 meter below ground as strip earth electrode, including connection/ terminating with nut, bolt, spring, washer etc. as required  5.00 per mtr.  4 Supplying, fixing & termination of 20 mm X 3 mm Gl strip with earth station below ground level and on wall saddle etc complete as reqd.  5 Providing & fixing 8 S.W.G Copper earth wire on surface or in recess for loop earthing etc. as reqd.		Havells/Standard/ Hager/Legrand/Lauritz Knudsen / Indoasian/HPL)				
6 Providing & fixing 16 S.W.G.M.S.sheet adaptor box, and also base frame for installation of M.C.B.D.B.s plug & socket arrangement and to cover cables in system room including painting etc. complete  2.00 sq.mtr.  SUB-HEAD 3 (EARTHING)  1 Supply & fix copper plate earth station with 600x6000x3 mm thick copper plate including all accessories such as watering pipe & funnel and providing masonary enclosure at top with cover plate ic excavation of pit supplying & filling of salt charcoal, refilling of pit etc complete as read as per IS 3043-1987. The voltage between neutral & earth must be below 1 volt. ( For the Branch UPS )  2 Supply & fix G.I. plate earth station with 600x600x6 mm thick G.I. plate including all accessories such as watering pipe & funnel and providing masonary enclosure at top with cover plate i/c excavation of pit, supplying & filling of charcoal, refilling of pit etc complete as read as per IS 3043-1987 (for the neutral earthing from the point of neutral link beside the fuse connection and second for the body earthing connected to bothe panel body and the ups base panel) [1st FOR NUETRAL EARTHING and 2nd FOR BODY EARTHING]  2.00 set  Chamber for the earthings shall be available at site without it the earthing cost shall not be paid for all the Earthings. You are also required to provide picture of earthing taken at the time of execution of the same.  3 Supplying and laying 20 mm X 3 mm copper strip at 0.50 meter below ground as strip earth electrode, including connection/terminating with nut, bolt, spring, washer etc. as required  5.00 per mtr.  4 Supplying, fixing & termination of 20 mm X 3 mm GI strip with earth station below ground level and on wall saddle etc complete as reqd.	a)	1 NO.4 pole 200 amp capacity changeover switch.				
M.C.B.D.B.s plug & socket arrangement and to cover cables in system room including painting etc. complete  2.00 sq.mtr.  SUB-HEAD 3 (EARTHING)  1 Supply & fix copper plate earth station with 600x6000x3 mm thick copper plate including all accessories such as watering pipe & funnel and providing masonary enclosure at top with cover plate i/c excavation of pit supplying & filling of salt charcoal, refilling of pit etc complete as reed as per IS 3043-1987. The voltage between neutral & earth must be below 1 volt. ( For the Branch UPS)  2 Supply & fix G.I. plate earth station with 600x600x6 mm thick G.I. plate including all accessories such as watering pipe & funnel and providing masonary enclosure at top with cover plate i/c excavation of pit, supplying & filling of charcoal, refilling of pit etc complete as reed as per IS 3043-1987 (for the neutral earthing from the point of neutral link beside the fuse connection and second for the body earthing connected to bothe panel body and the ups base panel) [1st FOR NUETRAL EARTHING and 2 <sup>nd</sup> FOR BODY EARTHING]  2.00 set  Chamber for the earthing shall be available at site without it the earthing cost shall not be paid for all the Earthings. You are also required to provide picture of earthing taken at the time of execution of the same.  3 Supplying and laying 20 mm X 3 mm copper strip at 0.50 meter below ground as strip earth electrode, including connection/ terminating with nut, bolt, spring, washer etc. as required  5.00 per mtr.  4 Supplying, fixing & termination of 20 mm X 3 mm Gl strip with earth station below ground level and on wall saddle etc complete as reqd.  5 Providing & fixing 8 S.W.G Copper earth wire on surface or in recess for loop earthing etc. as reqd.				job		
SUB-HEAD 3 (EARTHING)  1 Supply & fix copper plate earth station with 600x6000x3 mm thick copper plate including all accessories such as watering pipe & funnel and providing masonary enclosure at top with cover plate i/c excavation of pit supplying & filling of salt charcoal, refilling of pit etc complete as reqd as per IS 3043-1987. The voltage between neutral & earth must be below 1 volt. (For the Branch UPS)  2 Supply & fix G.I. plate earth station with 600x600x6 mm thick G.I. plate including all accessories such as watering pipe & funnel and providing masonary enclosure at top with cover plate i/c excavation of pit, supplying & filling of charcoal, refilling of pit etc complete as reqd as per IS 3043-1987 (for the neutral earthing from the point of neutral link beside the fuse connection and second for the body earthing connected to bothe panel body and the ups base panel) [1st FOR NUETRAL EARTHING and 2 <sup>nd</sup> FOR BODY EARTHING]  2.00 set  Chamber for the earthing shall be available at site without it the earthing cost shall not be paid for all the Earthings. You are also required to provide picture of earthing taken at the time of execution of the same.  3 Supplying and laying 20 mm X 3 mm copper strip at 0.50 meter below ground as strip earth electrode, including connection/ terminating with nut, bolt, spring, washer etc. as required  5.00 per mtr.  4 Supplying, fixing & termination of 20 mm X 3 mm Gl strip with earth station below ground level and on wall saddle etc complete as reqd.  5 Providing & fixing 8 S.W.G Copper earth wire on surface or in recess for loop earthing etc. as reqd.	6	- · · · · · · · · · · · · · · · · · · ·				
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		• •	10.00	per mtr.		
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30.00 per mtr.						
			30.00	per mtr.		

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<b>S. No.</b>	Item Providing & fixing 8 S.W.G G.I. earth wire on surface or in recess for loop earthing etc. as reqd.	Quantity	Units	Rate	Amount
0	1 toviding & fixing 6 3. w. G.i. cardi wife on surface of in recess for loop earlining etc. as requ.	100.00	per mtr.		
7	Supply & 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, for data cabling, electrical cabling etc. including providing 1 no. G.I. pull wire for data cabling making good the damages etc. wherever reqd.		perma		
a)	25mm	60.00	per mtr.		
			Ĺ		
1	SUB HEAD 4 (NETWORKING) Wiring for computer networking starting from mounting rack with UTP CAT-6 cable in 2 mm thick				
1	25mm dia ISI mark PVC conduit with accessories such as bends, junction boxes including providing and fixing I/O plates and SMB complete with all networking accessories etc complete as reqd.(Make: D-Link/MOLEX/AMP/COMMSCOPE).	16.00	no.		
	3 points for BM Cabin, 2 points per Clerical/Officer, 2 point per Counter, 2 for ATM, 1 for Grahak Mitra, SBI Life, SBI Crad as per the drawing provided. Maximum 6 Data Cables can run in Single Conduit.				
2	Supply, installation, testing and commissioning of 24-port Patch Panel	4.00			
3	Supply installation, testing and commissioning of mounted rack 12U height made of powder	1.00	no.		
	coated MS sheet including punching / laying networking wires complete.				
4	Summer fiving and commissioning of notal public Cat 6 commists with 2 no commentary at	1.00	no.		
4	Supply, fixing and commissioning of patch cable Cat-6 complete with 2 no. connectors etc. complete as reqd.				
a)	1m long	16.00	no.		
b)	2 m long	10.00	no.		
5	Wiring for telephone points with 0.6 mm dia 2 pair insulated annealed 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. (Make: D-link/KEI/Finolex / polycab)	6.00			
6	Supply, fixing and commissioning of cable Cat-6 complete with 2 no. connectors or as required etc.	0.00	no.		
	complete as reqd including upvc 19mm dia. pipe conduit of heavy duty.				
a)	50mm	50.00	mtr.		
7	Supply, fixing and commissioning of 20 pair tag Block Box i.e FRP/PVC/Metal junction box with KRONE disconnection module necessary tag for identification for the telephone points. (box and strips Krone make)	1.00	no.		
8	Providing , Laying, testing & commissioning of 20 pair telephone cable from outside govt. / bsnl DB to Rack for lease line, ISDN of <b>Make: Delton, finolex, polycab.</b>	40.00			
		40.00	per mtr.		
	SUB-HEAD 5 (AIR CONDITIONING PIPING WORK )				
1	Supplying & Laying of following COPPER REFRIGERANT PIPING Thickness 22 SWG For Hi- wall Split AC complete with fittings Suction / Discharge line insulated with 12 mm SUPERLON / ARMAFLEX suction line. Multi-runs between Indoor & Outdoor units shall be considered as ONE length for the purpose of measurement. <b>Make- Totaline/Armacell</b>				
a)	1/4" + 1/2" Refrigerant Copper piping - For Hiwall Split AC's (1.0Tr / 1.5Tr )	80.00	per mtr.		
2	Supply and laying following dia 3.38mm (confirming to ASTM D1785 standard) in thickness, heavy duty PVC pipe under floor or recessed in walls for AC drains, { To nearest To including bends, Tees etc as required complete in all respect (Make: Diplast/Supreme)				
3	Cutting of floor/wall for laying of refrigerant/drain pipe including making good the damages etc. Complete as required.	60.00	per mtr.		
4	Electrical flexible cable of 3 x 2.5sq.mm FRLS Cu cable multi strand suitable for 2 Tr H.W Split & 1.5 Tr H.W Split. Multi-runs between Indoor & Outdoor units shall be considered as ONE length for the purpose of measurement.(Make: Havells/ RR Kable / KEI/Finolex/Polycab)	60.00	per mtr.		
		100.00	per mtr.		
	SUB HEAD 6 (SUPPLY AND INSTALLATION OF FANS AND FIXTURES)				
	VIOLETTE DE LISTADDATION OF PAIS AND PIATURES		L	l	1

S. No.	Item	Quantity	Units	Rate	Amount
1	SITC of 2"x2" Celing grid 33-36 watt LED panel fixtures with 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 / Crompton / Bajaj/Havells).				
		18.00	no.		
2	SITC of 15 watt LED fixtures /dowlighters with 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 Phillips cat no. DN - 192 - 1000 or equivalent of Wipro / Crompton / Bajaj/Havells).				
	OUTC CC WIFD CV /I PIL 24 VIII CI PI CI PI I	48.00	no.		
	SITC of 5 watt LED fixtures /dowlighters with 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 Phillips cat no. DN - 192 - 1000 or equivalent of Wipro / Crompton / Bajaj/Havells).	10.00			
3	SITC of 18 watt of T5 LED fixtures directly on ceiling / wall including making necessary	10.00	no.		
3	connections with 2x1.5 sq.mm insulated copper cable conductor wire etc. complete as reqd Make Phillips or equivalent of Wipro / Crompton/ Bajaj/Havells).				
		6.00	no.		
4	Supply of 450 mm sweep Metal Body Crompton greaves (or equivalent) SDX BLCK GOLD / SSTROM 2 wall fan etc. 1325 rpm High Flow Model with 2 Pin Plug complete as required. (M/s equivalent of Crompton / Havells / Usha / Orient)	5.00	no.		
5	LED Strip light (5 watt / metre & 60 LED / metre) for cove (M/s Phillips /Crompton /Wipro / Bajaj/ Havells) Complete in all respects with suitable drivers. (Warm White).	80.00	per mtr.		
6	SITC of 1200 mm, 32-35W BLDC Ceiling Fan complete as required with Regulator to be provide in the switch board. (M/s Crompton High Breeze or equivalent of USHA / Crompton / Orient / Khaitan).	1.00	•		
7	SITC of 200 mm exhaust fans complete with self opening louvers / shutters including necessary	1.00	no.		
,	frame etc, complete as reqd. (M/s Crompton High Breeze or equivalent of USHA / Crompton / Orient / Khaitan)				
	OUTGO COO ALLEDO CA ALLEDO COLO DE COL	4.00	no.		
8	SITC of 30 watt LED Street light /Flood light with IP- 65/66 Waterproof outdoor Protection for lighting the front side of the branch (M/s Crompton Cat No. LSTS-30-CDL or equivalent of Philips/Wipro/Bajaj/Havells).				
		2.00	no.		
	TOTAL OF PART : I +II+III+IV+V (A)				
	TOTAL OF PART : VI (B)				
	TOTAL AMOUNT (A+B)				
	GST shall be paid extra as applicable				
	Note: the vendor have to provide LAN diagram after completion of the work along with the bill, without it payment will not be made.				