	ELECTRICAL WORKS				
S.No	DESCRIPTION OF WORKS	UNIT	QTY	RATE	AMOUNT
<i>A.</i>	POINTS & WIRING				
1	LIGHTS POINTS				
	Wiring for light point/ fan point/ wall fan point/ exhaust fan/ light sockets etc. with 1.5				
	sq.mm. PVC insulated 1100 V Grade copper conductor (FRLS) wires & 1.5 sq.mm.				
	copper earth wire in concealed/ surface using 16 SWG MS conduits, accessories such as				
	bends, tees, saddles, draw boxes, mounting boxes, inner plates, cover plates, ceiling				
	rose etc. (wherever required) and chromium plates brass screws/ rowel plug etc. The				
	circuit wiring starting from DB to point control box/ switch box using 2 X 2.5 sq.mm				
1	PVC insulated 1100 V grade multistranded copper conductor wire & 2.5 sq.mm. PVC				
	insulated earth wire (color code to be used). (Flexible conduit/ elbow not allowed). The				
	conduit to be laid in ceiling with proper clamps/ wall/ floor and filling the chase with				
	cement mortar and finishing the same in original form/ wooden partition/ above false				
	ceiling with proper clamps etc. all complete.				
	(Wherever required as per standard specifications).				
	i) Each circuit shall have independent earth wire.				
	ii) Each point shall be earthed.				
	iii) Circuit wiring is to be included in point wiring rates.				
i	Primary points controlled by one 6 amp. Modular switch.	Nos.	28		
ii	Secondary light points controlled by one 6 amp. Modular switch.	Nos.	22		
l iii	One call bell point with ceiling rose/ 6amp. 3 pin sockets controlled by one 6 amp. Push	Nos.	4		
	Modular switch. With call bell	1403.			
liv	One wall fan/ ceiling/ exhaust fan point with 6-amp 3pin socket controlled by one 6	Nos.	12		
	amp. Modular switch. The switch should be at switchboard level.				
V	One 5 pin socket controlled by one 6 amp. Modular switch complete assembly includes	Nos.	10		
	plate box etc. Dependent				
	Same as serial no 1 but using 2*1.5 + 1*1.5 Sq.mm Copper Conductor FRLS wires from				
 ,,;	DB to first 6A, 5 Pin modular socket controlled by one 6A switch and looped to the				
Vi	nearest second point with same 2*2.5 + 1*2.5 Sq.mm copper conductor wires FRLS				
	insulated 1100V grade (max 3 points per circuit).				
	Primary Point	Nos.	8		
	, miledy to mic				
2	POWER POINTS				
	Same as serial no.1, but wiring for 16 Amp, 6-pin sockets by using 2* 2.5 sq.mm. PVC				
	insulated 1100 V grade copper conductor wire with independent 1* 2.5 sq.mm earth				
	wire from D.B. to first point 1 st socket and 1 st to 2 nd , socket with 2*2.5 sq.mm and 1*2.5				
	earth wire including providing and fixing of 16 Amp, 6 –pin socket with 16 Amp. Switch.				
	(Modular type switch/ socket/ plate etc. complete assembly) max 2 points per circuit.				
	Primary Point	Nos.	8		
<u> </u>	AC POUNTS FOR INDOOR & OUTDOOR UNITS				
3	AC POINTS FOR INDOOR & OUTDOOR UNITS				
	Same as serial no.1, but wiring for A/C socket by using 2*6 sq.mm. PVC insulated 1100				
	V grade copper conductor wire and earthing with 1*4.0 sq.mm. PVC insulated 1100 V				
3(2)	grade copper conductor wire with modular type AC box (tiny trip type) with socket		6		
) (a)	complete in all respects controlled by 25/32 A SP MCB to be provided near indoor unit.	Nos.			
	The point starts from DB to stabilizer to the point near the indoor unit including				
	top.Items should be executed after approval from Bank/ Architect.				

	ELECTRICAL WORKS				
S.No	DESCRIPTION OF WORKS	UNIT	QTY	RATE	AMOUNT
			QII	IVATE	AMOUNT
3(b)	Same as serial no.1, but wiring for A/C socket by using 2*4 sq.mm. PVC insulated 1100 V grade copper conductor wire and earthing with 1*4.0 sq.mm. PVC insulated 1100 V grade copper conductor wire of weather proof type AC box with socket complete in all respects controlled by 25 A MCB to be provided near outdoor unit. The point starts from DB to the point near the outdoor unit.	Nos.	2		
4	COMPUTER POINTS (UPS)				
a	Wiring with 2x1.5 sq.mm. + 1x1.5 sq.mm. PVC insulated 1100 V grade multi stranded copper conductor wires in 2 mm thick PVC conduit from UPS DB to computer point. Each point to have 3 nos. 6 amps. 5 pin modular type sockets, one 6 amps modular switch with all accessories, inner/ outer plates, metal box etc. and to be fixed on wooden partitions/ by grouting on wall etc. as per requirement at site. The switch should be fixed above the top of counter with indicator and sockets under the counter. b) Same as above but looped from the above 1st point to 2nd, point and 2nd point to 3rd point. (Maximum 3 points in a circuit)				
	Primary Points	Nos.	16		
b	Wiring with 2x1.5 sq.mm + 1x1.5 sq.mm PVC insulated 1100 V grade multi stranded copper conductor wires in 2mmthick PVC conduit from UPS DB to computer point. Each point to have 1 nos. 16 amps 5 pin modular type sockets, 1 No's 16 amps modular switch with all accessories, inner/ outer plates, metal box etc and to be fixed on wooden partitions/ by grouting on wall etc as per requirement at site. The switch should be fixed above the top of counter and sockets under the counter. or as directed by the engineer in charge for the rack supply in PA rack, CCTV etc. b) Same as above but looped from the above 1st point to 2nd point (Maximum 2 points in a circuit)				
	Primary Points	Nos.	6		
	PART (A) SUB TOTAL				
В.	CONDUITING FOR TELEPHONE, COMPUTER &CONDUITING, WIRING FOR T.V. SYSTEM.				
	TELEPHONE SYSTEM				
1.1	TELEPHONE SYSTEM Wiring for VOICE from Jack Panel in data rack to computer workstation with Cat-6 voice cable in PVC conduits of size 20/ 25 mm including providing ferrules at both ends and termination at both ends including providing & fixing frame for Cat-6 with shutter, RJ 45 outlet, faceplate and mounting box complete of modular type. This work includes supply and laying of CAT-6 cable in PVC conduits throughout the length, from the I/O hub to the point.	Nos.	6		
1.2	Supplying, laying, effecting terminations, testing and commissioning of 0.51 mm dia Cu. Conductor, twisted, colour coded with polythene capor barrier, telephone cables in the existing tray or in conduit including providing &fixing conduit pipe or cable tray as required from building tag block to the floor as required.				
a)	Supplying & fixing 20 pair krone tag block with enclosure.	Nos.	1		
b)	P/L 20 Pair of PVC insulated PVC sheathed multi core jelly filled armored telephone.	Mtr.	50		
c)	Supply, Installation and Commissioning of EPABX System complete with following specifications as required.				
	Digital, Non-Blocking, ISDN / ATM, IP ready, hot standby on control cards, Communication Server with SIP. Equipped with:				
	Control section cPCI architecture				
	Based on Real Time 2gIP platform				
	<u> </u>		-		-

	ELECTRICAL WORKS				
S.No	DESCRIPTION OF WORKS	UNIT	OTV	DATE	AMOUNT
			QTY	RATE	AMOUNT
	Trunk side :				
	2 ISDN PRI Interface (30 channels)				
	32 P&T Trunk lines				
	Extension side:				
	150 analogue extensions				
	24 digital extensions				
	24 IP extensions				
	With CALLER ID ON DIGITAL AND ANALOG PUSH BUTTON TELEPHONES /				
	EXTENSION**Internal & External Both				
	System Features: -				
	IP Distributed Architecture				
	Parallel Ringing on Extensions as well as on GSM Handset.				
	Support for Integrated IP Gateways				
	VOIP Capability				
	System Documentation on CD-ROM				
	Support for OFC Connectivity				
	Expandable up to 200 ports.				
	For Caller ID, Analog Push Button Phone Should have the capability of CLI Only on PRI				
	Lines/Trunk lines				
	IP Based Operator ConsoleWith BLF and Wired U.S.B. Head set - 03 Nos				
	Modem for Remote Maintenance - 01 No.				
	Maintenance Terminal software - 01 No.				
	Music In Hold - 01 No.				
	Paging Interface / Fire Alarm Interface - 01 No.				
	Voice mail (08 Ports) - 01 No.				
	Call billing software - 01 No.				
	Power back up for 04 hrs				
	Exchange described as above	Set	0		
	<u> </u>				
	The following items are including from the above BOQ are as follows,				
	All type of Active components				
	Switches				
	Patch Cards				
	Certification				
	Uplinks between Hubs located in each floor to Server Racks and sever rack to				
	differenct building.				
	IP Telephone Handset				
	Fiber Network for all building internal distribution & external distribution				
	Any other item related to Data networking & IP phone system.				
d)	MDF with Krone Modules 50 pairs with connector	Nos	0		
	'				
2	COMPUTER NETWORKING				
	Wiring for computer networking from Jack Panel in data rack to computer workstation				
	with Cat-6 computer cable in PVC conduits of size 20/ 25 mm including providing				
	ferrules at both ends and termination at both ends including providing & fixing frame				
2.1	for Cat-6 with shutter, RJ 45 outlet, faceplate and mounting box complete of modular	Nos.	20		
	type, this work includes supply and laying of CAT-6 cable in PVC conduits throughout	1403.			
	1				
	the length, from the I/O hub to the point.				
	Cleaning & Re- fixing 9 U (Rack with glass door, opening in the front power panel 1				
2.2	(horizontal), cable manager 1 lock & key).	Nos.	1		
2.3	Cleaning & Re- Installation, Testing & Commissioning of 24 port Jack Panel.	Nos.	1		
2.4	Supplying and fixing Patch Cord-2 Meter- (DBPS Mounting Cord)	Nos.	20		
	Supplying and fixing Patch Cord-2 Meter- (DBPS Mounting Cord) Supplying and fixing Patch Cord-1 Meter-	Nos.	20		
	Parphishing and fixing ratch cold-1 Meter-	1105.			l

SNO DESCRIPTION OF WORKS Supply drawing, connecting, testing and commissioning of T.V. Coaxial socket with Cover Plate Cover Plate Cover Plate Supply drawing, connecting, testing and commissioning of T.V. Coaxial cable RG 6 with RM Ad Condition PART (8) SUB POTAL CAREES, MAMS & SUBMAINS Supplying all materials and laying/ pulling 1100 voits grade PVC insulated copper conductor wires (PRLS) in MS conduit with all fixing accessories after cutting the floor, was all and the like etc. and plastering the floor level to original. Conduit must be 30 mm below the floor finish level. Herse should be executed after approval from Bank/ Architect. 2 X Si signm. 1 X Si signm. Bank of UPS Disput/Output) RM 3 X T ND symm. 1 X Si signm. Bank of DPS Disput/Output) RM 5 X T ND symm. 2 Existing and Daniel DISN] 8 X T ND symm. 2 Existing and Daniel DISN] 8 X Si signm, and Daniel DISN] 8 X T ND symm. 2 Existing and Daniel DISN] 8 X Si signm, and Daniel DISN Disput/Output Disput Court Disput Supplying, Disting & commissioning of 3.5 C X T6 signm. at 1100 voits grade PVC insulated aluminum conductor amounted cable with 10 gauge earth copper wire including cables and termination using appropriate Lugs, Glands, termination accessories, Clamps etc. as required as per specification (Light DB + Power DB). Supplying, laying, testing & commissioning of 4 C X 35 signm. at 1100 voits grade PVC insulated aluminum conductor amounted cable with 10 gauge earth copper wire including cables and termination using appropriate Lugs, Glands, termination accessories, Clamps etc. as required as per specification, (Mains) PART (C) SIB TOTAL Distribution Boake		ELECTRICAL WORKS				
Supply and fixing of 1.6 mm thick GJ. Box along with RG 6 T.V Co axial socket with Cover Plate. Supply, drawing, connecting, testing and commissioning of T.V Coaxial cable RG 6 with conduit. PART (B) SUB TOTAL C. CABLES, MAINS & SUBMAINS Supplying all materials and laying/ pulling 1100 volts grade PVC insulated copper conductor with respect to the property of	S.No	DESCRIPTION OF WORKS	UNIT	ОТУ	RATE	AMOUNT
Supply, flavoring, connecting, testing and commissioning of T.V. Coaxial cable RG 6 with RM 40 conduit. PABEY (8) SUB TOTAL CABLES, MAINS & SUBMAINS Supplying all materials and laying/ pulling 1100 volts grade PVC insulated copper conductor wires (FRLS) in MS conduit with all fixing accessories after cutting the floor virulal and the like etc. and plastering the floor virulation with all fixing accessories after cutting the floor virulation with like etc. and plastering the floor virulation with the soft minute below the floor finish level. Items should be executed after approval from Bank/Architect. ii 2 X6 sq.mm. + 1 X6 sq.mm. iii 2 X6 sq.mm. + 1 X6 sq.mm. RM 25 iii 1 X10 sq.mm. Cu wire for earthing, (UPS DB) Ivi 1 X10 sq.mm. Cu wire for earthing, (UPS Input/Cutput) Axfol sq.mm 2x6sq.mm (Planch UPS DB) RM 70 Axfol sq.mm 2x6sq.mm (Planch UPS DB) Supplying, laying, testing 8 commissioning of 3.5 C X 16 sq.mm. at 1100 volts grade PVC insulated aluminum conductor amounder cable with 10-gauge earth copper wire including cables end termination using appropriate Lugs, Glands, termination accessories, Clamps et as required as per specification (Mains) Supplying, laying, testing 8 commissioning of 3.5 C X 50 sq.mm. at 1100 volts grade PVC insulated aluminum conductor amounder cable with 10-gauge earth copper wire including cables end termination using appropriate Lugs, Glands, termination accessories, Clamps et as required as per specification (Mains) Supplying, laying, testing 8 commissioning of surface/recessed mountings, Double door 415 volts FPN MCB distribution board of steel, 1.6 mm thick dust phosphatized and painted, inclusive of 100 amps, timed copper bus bars, earth bur, common neutral link, din bar for mounting of McBis detachable gland / knock out pl	•	Supply and fiving of 1.6 mm thick C.L. Boy along with DC 6 TV Co oxial cocket with		٧	10112	7
Activate Conductor wires (FRLS) in MS conduit with all fixing accessories after cutting the floor, valid and the like etc. and plastering the floor level to noriginal. Conduit must be 30 mm below the floor finish level. Items should be executed after approval from Bank/Architect. ii. 2 x S sqmm. + 1 x S sqmm. iii. 2 x S sqmm. + 1 x S sqmm. iii. 2 x S sqmm. + 1 x S sqmm. iii. 2 x S sqmm. + 1 x S sqmm. iii. 2 x S sqmm. + 1 x S sqmm. iii. 2 x S sqmm. + 1 x S sqmm. iii. 2 x S sqmm. + 1 x S sqmm. iii. 2 x S sqmm. + 1 x S sqmm. Supplying, laying, testing & commissioning of 3.5 C x 16 sqmm. at 1100 volts grade PVC insulated aluminum conductor armoured cable with 10 gauge earth copper wire valuding cables end termination using appropriate Lugs. Glands, termination accessories, Clamps etc. as required as per specification (Light D8 + Power D8). Supplying, laying, testing & commissioning of 3.5 C x 50 sqmm. at 1100 volts grade PVC insulated aluminum conductor armoured cable with 10 gauge earth copper wire vincluding cables end termination using appropriate Lugs. Glands, termination accessories, Clamps etc. as required as per specification (Light D8 + Power D8). Supplying, laying, testing & commissioning of 3.5 C x 50 sqmm. at 1100 volts grade PVC insulated aluminum conductor armoured cable with 10 gauge earth copper wire vincluding cables end termination using appropriate Lugs. Glands, termination accessories, Clamps etc. as required as per specification (Mains) Supplying, laying, testing & commissioning of sufface/recessed mountings. Double door 415 volts TPM MCB distribution board of steel, 1.6 mm thick dust phosphatized and painted, inclusive of 100 amps, timed copper bus bars, earth bar, common neutral link, din bar for mounting of McRbs detachable gland / knock out place & with built in loose wire box, and superior make terminal connectors for all incoming and outgoing circuit McBrs shall be selected accordingly its. type BC & D. Contractor to select the McBrs accordingly its. type BC & D. Contractor to	3	Cover Plate.	Nos.	4		
C CABLES, MAINS & SUBMAINS Supplying all materials and laying/ pulling 1100 volts grade PVC insulated copper conductor wires (FRLS) and MS conduit with all fixing accessories after cutting the floor, and and the like etc. and plastering the floor level to original. Conduit must be 30 mm below the floor finish level. Hems should be executed after approval from Bank/Architect. ii 2 X6 s.g.mm. + 1 X6 s.g.mm. (Banch UPS B) RM 15 iii 2 X10 s.g.mm. + 1 X6 s.g.mm. (Banch UPS B) RM 15 iii 2 X10 s.g.mm. + 1 X6 s.g.mm. (Banch UPS B) RM 15 iii 1 X10 s.g.mm. = 1 X6 s.g.mm. (Banch UPS B) RM 15 iii 2 X10 s.g.mm. + 1 X6 s.g.mm. (Banch UPS B) RM 15 supplying, laying, testing & commissioning of 3.5 C X 16 s.g.mm. at 1100 volts grade PVC insulated aluminum conductor armoured cable with 10 gauge earth copper wire including cables end termination using appropriate Lugs. Blanck , termination accessories, Clamps etc. as required as per specification (Ught D8 P. Power D8). Supplying, laying, testing & commissioning of 4 C X 35 s.g.mm. at 1100 volts grade PVC insulated aluminum conductor armoured cable with 10-gauge earth copper wire including cables end termination using appropriate Lugs. Glands, termination PVC insulated aluminum conductor armoured cable with 10-gauge earth copper wire including cables end termination using appropriate Lugs. Glands, termination PVC insulated aluminum conductor armoured cable with 10 gauge earth copper wire including cables end termination using appropriate Lugs. Glands, termination PVC insulated aluminum conductor armoured cable with 10 gauge earth copper wire including cables end termination using appropriate Lugs. Glands, termination PVC insulated copper bus bars early included inclusive of 100 amounts of the commission of surface/recessed mountings. Double door 415 volts TPN MCB distribution board of steel, 16 mm thick dust phosphatized and painted, inclusive of 100 amounts of the commission of the commission of surface/recessed mountings. Double door 415 volts TPN MCB distribution board	4		RM	40		
Supplying all materials and laying/ pulling 1100 volts grade PVC insulated copper conductor wires (FRLS) in MS conduit with all fixing accessories after cutting the floor. I wall and the like etc. and plastering the floor level to original. Conduit must be 30 mm below the floor finish level. Hems should be executed after approval from Bank/Anchitect. ii 2 X 6 s.g.mm. + 1 X 6 s.g.mm. (Branch UPS DB) RM 15 iii 2 X 10 s.g.mm. + 1 X 6 s.g.mm. (Branch UPS DB) RM 70 v. 4 sto s.g.mm. + 2 6 s.g.mm. (Branch UPS DB) RM 70 v. 4 sto s.g.mm. + 2 6 s.g.mm. (Branch UPS DB) RM 70 v. 4 sto s.g.mm. + 2 6 s.g.mm. (Branch UPS DB) RM 70 v. 4 sto s.g.mm. + 2 6 s.g.mm. (Branch UPS DB) RM 70 v. 4 sto s.g.mm. + 2 6 s.g.mm. (Branch UPS DB) RM 70 v. 4 sto s.g.mm. + 2 6 s.g.mm. (Branch UPS DB) RM 70 v. 4 sto s.g.mm. + 2 6 s.g.mm. (Branch UPS DB) RM 70 v. 4 sto s.g.mm. + 2 6 s.g.mm. (Branch UPS DB) RM 70 v. 4 sto s.g.mm. + 2 6 s.g.mm. (Branch UPS DB) RM 70 v. 4 sto s.g.mm. + 2 6 s.g.mm. (Branch UPS DB) RM 70 v. 4 sto s.g.mm. + 2 6 s.g.mm. (Branch UPS DB) RM 70 v. 4 sto s.g.mm. + 2 6 s.g.mm. (Branch UPS DB) RM 70 v. 4 sto s.g.mm. + 2 6 s.g.mm. (Branch UPS DB) RM 70 v. 4 sto s.g.mm. + 2 6 s.g.mm. (Branch UPS DB) RM 70 v. 4 sto s.g.mm. + 2 6 s.g.mm. (Branch UPS DB) RM 70 v. 4 sto s.g.mm. + 2 6 s.g.mm. (Branch UPS DB) RM 70 supplying laying, testing 6 commissioning of 3 S.C. X 5 s.g.mm. at 1100 volts grade PVC insulated aluminum conductor amoured cable with 10 gauge earth copper wire including cables end termination using appropriate Lusy, Glands, termination RM 70 supplying, laying, testing 8 commissioning of surface/recessed mountings, Double door 41S volts TPN MCB distribution board of steel, 16 mm thick dust phosphatized and painted, inclusive of 100 amps, tinned copper bus bars, early bar, consone neutral link, din bar for mounting of MCB's detachable gland / knock out plate 8 with built in loose wire box, and superior make terminal connectors for all incoming and ourgoing circuits duly previewed with adequate size of						
conductor wires (FRLS) in MS conduit with all fixing accessories after cutting the floor, wall and the like etc. and plastering the floor level to original. Conduit must be 30 mm below the floor finish level. Items should be executed after approval from Bank/Architect. ii 2 X 6 sq.mm. + 1 X 6 sq.mm. (Branch UPS DB) RM 15 ii 2 X 6 sq.mm. + 1 X 6 sq.mm. (Branch UPS DB) RM 15 ii 1 X 10 sq.mm. 2 wire for earthing. (UPS Input/Output) RM 70 vi 40 10 sq.mm. + 2 x 6 sq.mm. (Parach UPS DB) RM 70 vi 40 10 sq.mm. + 2 x 6 sq.mm. (Parach UPS DB) RM 70 supplying, laying, testing & commissioning of 3.5 C X 16 sq.mm. at 1100 volts grade PVC insulated aluminum conductor armoured cable with 10 gauge earth copper wire including cables end termination using appropriate Lugs. Glands, termination accessories. Clamps etc. as required as per specification (light DB + Power DB). Supplying, laying, testing & commissioning of 4 C X 35 sq.mm. at 1100 volts grade PVC insulated aluminum conductor armoured cable with 10 gauge earth copper wire including cables end termination using appropriate Lugs. Glands, termination accessories. Clamps etc. as required as per specification ((Mains). Supplying, laying, testing & commissioning of 3.5 C x 50 sq.mm. at 1100 volts grade PVC insulated aluminum conductor armored cable with 10 gauge earth copper wire including cables end termination using appropriate Lugs. Glands, termination RM 15 Supplying, laying, testing & commissioning of 3.5 C x 50 sq.mm. at 1100 volts grade PVC insulated aluminum conductor armored cable with 10 gauge earth copper wire viii including cables end termination using appropriate Lugs. Glands, termination RM 15 Supplying, laying, testing & commissioning of surface/recessed mountings, Double door 415 volts TPM MCB distribution board of steel, 1.6 mm thick dust phosphatized and painted, inclusive of 100 amps, tinned copper bus bars, earth bar, common neutral link, din bar for mounting of MCB's detachable gland / knock out plate & with bulk in loose wire box, and superior	C.	CABLES, MAINS & SUBMAINS				
conductor wires (FRLS) in MS conduit with all fixing accessories after cutting the floor, wall and the like etc. and plastering the floor level to original. Conduit must be 30 mm below the floor finish level. Items should be executed after approval from Bank/Architect. ii 2 X 6 sq.mm. + 1 X 6 sq.mm. (Branch UPS DB) RM 15 ii 2 X 6 sq.mm. + 1 X 6 sq.mm. (Branch UPS DB) RM 15 ii 1 X 10 sq.mm. 2 wire for earthing. (UPS Input/Output) RM 70 vi 40 10 sq.mm. + 2 x 6 sq.mm. (Parach UPS DB) RM 70 vi 40 10 sq.mm. + 2 x 6 sq.mm. (Parach UPS DB) RM 70 supplying, laying, testing & commissioning of 3.5 C X 16 sq.mm. at 1100 volts grade PVC insulated aluminum conductor armoured cable with 10 gauge earth copper wire including cables end termination using appropriate Lugs. Glands, termination accessories. Clamps etc. as required as per specification (light DB + Power DB). Supplying, laying, testing & commissioning of 4 C X 35 sq.mm. at 1100 volts grade PVC insulated aluminum conductor armoured cable with 10 gauge earth copper wire including cables end termination using appropriate Lugs. Glands, termination accessories. Clamps etc. as required as per specification ((Mains). Supplying, laying, testing & commissioning of 3.5 C x 50 sq.mm. at 1100 volts grade PVC insulated aluminum conductor armored cable with 10 gauge earth copper wire including cables end termination using appropriate Lugs. Glands, termination RM 15 Supplying, laying, testing & commissioning of 3.5 C x 50 sq.mm. at 1100 volts grade PVC insulated aluminum conductor armored cable with 10 gauge earth copper wire viii including cables end termination using appropriate Lugs. Glands, termination RM 15 Supplying, laying, testing & commissioning of surface/recessed mountings, Double door 415 volts TPM MCB distribution board of steel, 1.6 mm thick dust phosphatized and painted, inclusive of 100 amps, tinned copper bus bars, earth bar, common neutral link, din bar for mounting of MCB's detachable gland / knock out plate & with bulk in loose wire box, and superior						
the wall and the like etc. and plastering the floor level to original. Conduit must be 30 mm below the floor finish level. Items should be executed after approval from Bank/Architect. ii 2 k6 sq.mm. + 1 X 6 sq.mm. (Branch UPS DB) RM 15 ii 2 k10 sq.mm. Cu wire for earthing, (UPS Input/Output) RM 70 4 x10 sq.mm. 2 zesegarum (Panel to TPN) RM 70 4 x10 sq.mm. 2 zesegarum (Panel to TPN) RM 70 5 supplying, laying, testing & commissioning of 3.5 C X 16 sq.mm. at 1100 volts grade PVC insulated aluminum conductor armoured cable with 10 gauge earth copper wire including cables end termination using appropriate Lugs, Glands, termination accessories, Clamps etc. as required as per specification (Light DB + Power DB). Supplying, laying, testing & commissioning of 4 C X 35 sq.mm. at 1100 volts grade PVC insulated aluminum conductor armoured cable with 10-gauge earth copper wire including cables end termination using appropriate Lugs, Glands, termination accessories, Clamps etc. as required as per specification ((Mains). Supplying, laying, testing & commissioning of 3.5 C X 50 sq.mm. at 1100 volts grade PVC insulated aluminum conductor armored cable with 10 gauge earth copper wire including cables end termination using appropriate Lugs, Glands, termination accessories, Clampsetc. as required as per specification. (Mains) PART (c) SUB TOTAL P. DISTRIBUTION BOARD Supplying, installing, testing & commissioning of surface/recessed mountings, Double door 415 volts TPN MCB distribution board of steel, 1.6 mm thick dust phosphatized and painted, inclusive of 100 amps, tinned copper bus bars, earth bar, common neutral link, din bar for mounting of MCPS detachable gland / Innock out plate & with built in loose wire box, and superior make terminal connectors for all incoming and outgoing circuit solly prewired with adequate size of PVC insulated copper wires between the bus bars and the MCPs as well as the incomer and upto the terminal connectors/ neutral link and ready for installation of following ways as required. Use 'B'		1				
below the floor finish level. Items should be executed after approval from Bank/ Architect. ii 2 X 6 symm. + 1 X 6 symm. (Banch UPS DB)						
Architect.	1	, , ,				
ii 2 X 10 sq.mm. + 1 X 6 sq.mm. iii 2 X 10 sq.mm. + 1 X 6 sq.mm. iv 1 X 10 sq.mm. Cu wire for earthing. (UPS Input/Output) v 4x 10 sq.mm. v 2x6sq.mm (Renet to TPN) Supplying, laying, testing & commissioning of 3.5 C X 16 sq.mm, at 1100 volts grade PVC insulated aluminum conductor armoured cable with 10 gauge earth copper wire including cables end termination using appropriate Lugs, Glands, termination accessories, Clamps etc. as required as per specification (Light DB + Power DB). Supplying, laying, testing & commissioning of 4 C X 35 sq.mm. at 1100 volts grade PVC insulated aluminum conductor armoured cable with 10-gauge earth copper wire vii including cables end termination using appropriate Lugs, Glands, termination accessories, Clamps etc. as required as per specification (Midns). Supplying, laying, testing & commissioning of 3.5 C x 50 sq.mm. at 1100 volts grade PVC insulated aluminum conductor armored cable with 10 gauge earth copper wire vii including cables end termination using appropriate Lugs, Glands, termination accessories, Clamps etc. as required as per specification, (Malins). PART (C) SUB TOTAL DISTRIBUTION BOARD Supplying, installing, testing & commissioning of surface/recessed mountings, Double door 415 volts TPM MCB distribution board of steel, 1.6 mm thick dust phosphatized and painted, inclusive of 100 amps, tinned copper bus bars, earth bar, common neutral link, din bar for mounting of MCB's detectable gland / knock out plate & with built in loose wire box, and superior make terminal connectors for all incoming and outgoing circuits duly preview dwith adequate size of PVC insulated copper wires between the bus bars and the MCB's as well as the incomer and upto the terminal connectors/ neutral link and ready for installation of following ways as required. Use 'B' curve MCB's for lighting & small power circuits, 'C' curve for UPS DB's ie, for computers/ PC's circuit. Main incomer & outgoing circuit MUK MB's shall be selected accordingly ie, type & & D. Contractor to select the MCB'						
iii 2 x10 sqmm. +1 x6 sqmm. (Branch UPS DB) iv 1 x10 sqmm. Cu wire for earthing. (UPS input/Output) x1 x10 sqmm. Cu wire for earthing. (UPS input/Output) x1 x10 sqmm. 2x6sqmm (Panel to TPN) Supplying, laying, testing & commissioning of 3.5 C x 16 sqmm. at 1100 volts grade PVC insulated aluminum conductor amounted rable with 10 gauge earth copper wire including cables end termination using appropriate Lugs. Glands, termination accessories, Clamps etc. as required as per specification (Light D8 + Power DB). Supplying, laying, testing & commissioning of 4 C x3 s5 sq.mm. at 1100 volts grade PVC insulated aluminum conductor amounted cable with 10-gauge earth copper wire including cables end termination using appropriate Lugs, Glands, termination accessories, Clamps etc. as required as per specification (Mains). Supplying, laying, testing & commissioning of 3.5 C x 50 sq.mm. at 1100 volts grade PVC insulated aluminum conductor amounted cable with 10 gauge earth copper wire including cables end termination using appropriate Lugs, Glands, termination accessories, Clampsetc. as required as per specification. (Mains) **PART (C) SUB TOTAL** **Destribution BOARD** Supplying, installing, testing & commissioning of surface/recessed mountings, Double door 415 volts TPN MCB distribution board of steel, 1.6 mm thick dust phosphatized and painted, inclusive of 100 amps, tinned copper bus bars, earth bar, common neutral link, din bar for mounting of MCBs detachable gland / knock out plate & with built in loose wire box, and superior make terminal connectors for all incoming and outgoing circuits duly prewired with adequate size of PVC insulated copper wires between the bus bars and the MCB's as well as the incomer and upto the terminal connectors/ neutral link and ready for installation of following ways as required. **Use 'B' curve MCB's for lighting & small power circuits, 'C' curve for UPS DB's ie. for computery PC's circuit. Main incomer & outgoing circuit MCB's shall be selected accordingly ie. type 8, & C. D. Cont	-::		DM	25		
v 4x10 sq.mm. Cu wire for earthing, (UPS Input/Output) v 4x10 sq.mm. +2x6sq.mm (Panel to TPN) Supplying, laying, testing & commissioning of 3.5 C X 16 sq.mm. at 1100 volts grade PVC insulated aluminum conductor armoured cable with 10 gauge earth copper wire including cables end termination using appropriate Lugs, Glands, termination accessories, Clamps etc. as required as per specification (Light DB + Power DB). Supplying, laying, testing & commissioning of 4 C X 35 sq.mm. at 1100 volts grade PVC insulated aluminum conductor armoured cable with 10-gauge earth copper wire including cables end termination using appropriate Lugs, Glands, termination accessories, Clamps etc. as required as per specification (I(Mains). Supplying, laying, testing & commissioning of 3.5 C x 50 sq.mm. at 1100 volts grade PVC insulated aluminum conductor armored cable with 10 gauge earth copper wire including cables end termination using appropriate Lugs, Glands, termination accessories, Clampsetc. as required as per specification. (Mains) PART (C) SUB TOTAL DISTRIBUTION BOARD Supplying, installing, testing & commissioning of surface/recessed mountings, Double door 415 volts TPN MCB distribution board of steel, 1.6 mm thick dust phosphatized and painted, inclusive of 100 amps, timed copper bus bars, earth bar, common neural link, din bar for mounting of MCB's detachable gland / knock out plate & with built in loose wire box, and superior make terminal connectors for all incoming and outgoing circuits duly prewired with adequate size of PVC insulated copper wires between the bus bars and the MCB's as well as the incomer and upto the terminal connectors/ neutral link and ready for installation of following ways as required. Use 'B' curve MCB's for lighting & small power circuits, 'C' curve for motor duty i.e. for pumps, AC motors, window and split AC's etc. & 'D' curve for UPS DB's i.e. for computers/ PC's circuit. Main incomer & outgoing circuits MCB's shall be selected accordingly te, type B,C & D. Contractor to select the MCB's		· ·				
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in addition to body earth link.						
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	ELECTRICAL WORKS				
S.No	DESCRIPTION OF WORKS	UNIT	OTV	DATE	AMOUNT
			QTY	RATE	AMOUNT
	All internal inter connecting wiring with in the DB's shall be PVC insulated flexible				
	copper conductor wires of adequate capacity as per the current rating. Inside each DB,				
	a DB chart is to be fixed. Items should be executed after approval from				
	Bank/Architects				
a	4-way TPN DB (LIGHT DB/ Power DB)	No.	1		
	Incomer: -				
	1 No. 40 Amp TPN (10 KA) MCB with 40 A DP MCCB (100 MA) each phase				
	Outgoing: -				
	6 Nos.6/10 Amp (10 KA) SP MCB				
	A TON DD (AC DD)	No	1		
b	4-way TPN DB (AC DB) Incomer :-	No.	1		
	1 No. 63 Amp TPN (10 KA) MCB with 63 A DP MCCB (100 MA) each phase				
	Outgoing:-				
	6 Nos. 10/16/25/32 Amp (10 KA) SP MCB				
	0.1103. 10/10/12/32 / Milp (10 10 y 31 1110)				
c	4-way SPN DB with 2 Nos. 40 A (10 KA) DP MCB (For UPS Input)	No.	2		
<u> </u>	, ,				
d	(2+8)-way SPN DB (For UPS Sub DB)	No.	1		
	Incomer:-				
	1 No. 40 Amp DP (10 KA) MCB with 25 A DP MCCB (100 MA)				
	Outgoing:-				
	6 Nos.6/10/16/25Amp (10 KA) SP MCB				
	PART (D) SUB TOTAL				
E	(LIGHT FITTINGS & ACCESSORIES)				
	Supplying, installation with hanging support, testing and commissioning of following				
	light fixtures with electronic Ballasts, Tubes, lamps, all fixing materials including				
	connecting wires etc. all complete as per the directions of Engineer-in-charge (All LED				
	Light Fixtures should be covered with minimum 3 Years onsite replacement warranty).				
	Items should be executed after approval from Bank/ Architect.				
	LED 19 W tube 4' 0" As specified in tender decument or approved by Pank/Architect				
i	LED 18 W tube 4'-0" As specified in tender document or approved by Bank/Architect.	Nos.	10		
<u> </u>	FULL GLOW 2 X 2 LED 36 W slim Smart Panel of make As specified in tender document				
ii	or approved by Bank/Architect.	Nos.	36		
	FULL GLOW 2 X 4 LED light Panel of make As specified in tender document or approved		_		
iii	by Bank/Architect.	Nos.	0		
	Pendant luminaire Slash S Light fixture with HE-High Efficiency LED (Light Emitting				
	Diode) system power: 22W luminous flux of luminaire 2640 lm, SDCM<3, R9 Value				
	≥0,colour temperature of 4000K, CRI >80, 230V constant current driver, 70% of				
	luminous flux after 50,000 operating hours, energy efficient LEDs with high CRI, direct				
	light emission, luminaire profile Anodized Aluminium, Prismatic diffuser for a				
iii	homogenous light distribution,UGR <22, ZHLS(ZERO HALOGEN LOW SMOKE) internal	Nos.	0		
	wiring, Electronic Control Gear, sliding fixing wire suspension Protection class I, IP40,				
	T.H.D≤ 10%, driver efficiency ≥ 88%, surge protection of 2.5kV, L = 1175 mm B = 52 mm				
	H = 74 mm Regent Cat No: LED0561-SLASH S-22w Equivalent to Philips or Lighting				
	Technology approved by Bank/Architect.				
	•				
l	Supplying, fixing, testing and commissioning of 12 W LED commercial type down	_			
iv	lighter of make As specified in tender document or approved by Architect.	Nos.	90		

	ELECTRICAL WORKS				
S.No	DESCRIPTION OF WORKS	UNIT	QTY	RATE	AMOUNT
•	LED Chair for any limbeing 12 W may F M with driving and account installation fintings		4.7		
v	LED Strip for cove lighting 12 W per 5 M with driver and necessary installation fittings Led strip light (5 mtr.) make as specified in tender document or approved by	Nos.	16		
	Bank/Architect.				
	Supply, installation, testing and commissioning of following fans with all fixing materials like white Polycarbonate 2 mm Hylem sheet cover, down rods, fan box as required etc.				
I VI	all complete as per the directions of Engineer-in-charge.				
	an compress as por the ancestons of Engineer in that gar				
	Wall mounted fans 450 mm dia. With metal body $\&$ blades along with 100 $\%$ copper				
1	binding motors make As specified in tender document or approved by concerned office	Nos.	10		
	in charge. Supply & fixing of 230 mm exhaust fan 'Ventilair DX W' with self-closing louvers and				
b	plastic body with all accessories etc. complete of make As specified in tender document	Nos.	4		
	or approved by concerned office in charge.				
	Ceiling Fan- Supply, Erecting, and testing of approved/specified make ceiling fans				
С	complete with down rod, canopy, blades and Electronic speed regulator 230-250 volts	Nos.	0		
	including connection with all necessary materials as required. Make- Usha/ Havells/Crompton				
	Supply, instalation, testing & Commissioning of 8(2X4) modules brushed brass/copper				
d	colour pop-up boxes.(Make-Legrand, model No0540 18)(All switch socket, DATA	Nos.	3		
	outlet, telephone etc are considered separately)				
	Supplying and fixing of High intensity and decorative type profile LED light complete				
е	with aluminium profile with cover, LED strip with driver etc and fixing the same with suitable adhesive, nails, making connections testing etc complete as reqd	RFT	25		
	suitable auriesive, rialis , making connections testing etc complete as requ				
f	Supplying and fixing of Mirror light complete with Led Lamps & other accessories i/c	Nos	1		
	making connections testing etc complete as reqd.	Nos.	•		
g	Supplying and fixing of 3 Watt rating tiltable type COB lights in the existing openingi/c	Nos.	8		
<u> </u>	making connections testing etc complete as reqd				
	PART (E) SUB TOTAL				
F.	EARTHING SYSTEM				
	Supply, Installation, Testing and Commissioning of Maintenance Free Earthing system				
	made up of copper bonded rod of 10 feet length,23 mm dia. (Minimum copper bonding shall be 0.25mm) along with Rod-to Conductor connectors, Earth				
1	enhancement material, Pit Cover and other accessories as required and as per	Nos	1		
	specification and other applicable codes (include chamber for earthing, Earthing				
	certificate to be submitted along with the bill).				
	Supply, Installation, Testing and Commissioning of Maintenance Free Earthing system made up of copper bonded rod of 10 feet length, 17.2 mm dia. (Minimum copper				
	bonding shall be 0.25 mm) along with Rod-to-Conductor connectors, Earth				
2	enhancement material, Pit Cover and other accessories as required and as per	Nos	0		
	specification and other applicable codes (include chamber for earthing, Earthing				
	certificate to be submitted along with the bill).				
_	Providing and fixing of Copper/ GI strips in surface or in recess for loop earthing etc. as				
3	required.				
	25 mm x 3 mm copper strip in B-class GI pipe	RM	15		
	25 mm x 5 mm GI strip Providing and fiving 3 X 6mm Cu parth wire in RVC conduit on surface or in recess for	RM	15		
	Providing and fixing 2 X 6mm Cu earth wire in PVC conduit on surface or in recess for loop earthing along with the existing surface/ recess cable as required.	RM	75		
	saraming along man are existing surface, recess capic as required.	1.1141			
	PART (F) SUB TOTAL				
G.	MAIN PANEL AND METER BOARD				

Design, Manufacturing, Supply, Receiving, Unloading, Shifting, installation, testing & commissioning of cubicle type totally enclosed free standing type moisture, dust and vermin proof Floor Distribution Panel made out of 2.0 mm thick & front cover 1.6 mm thick CRCA sheet complete with following equipments, including digital ammeter with inbuilt ammeter selector switch, indicating lamps, CT's, internal wiring with suitable size wires / cable, interconnection, painting complete as per specification & drawing. All the incomming and outgoing MCCB shall have 25KA lcs. All the MCCB up to 250 Amp shall have thermal release with adustable overload and short circuit protection and above shall have microprocessor release with adjustable overload, short circuit & earthfault protection.	AMOUNT
Design, Manufacturing, Supply, Receiving, Unloading, Shifting, installation, testing & commissioning of cubicle type totally enclosed free standing type moisture, dust and vermin proof Floor Distribution Panel made out of 2.0 mm thick & front cover 1.6 mm thick CRCA sheet complete with following equipments, including digital ammeter with inbuilt ammeter selector switch, digital voltmeter with inbuilt voltmeter selector switch, indicating lamps, CT's, internal wiring with suitable size wires / cable, interconnection, painting complete as per specification & drawing. All the incomming and outgoing MCCB shall have 25KA Ics. All the MCCB up to 250 Amp shall have thermal release with adustable overload and short circuit protection and above shall have microprocessor	AMOUNI
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	1
	!
LIGHT POWER & AC PANEL	
INCOMING A SECOND SECO	
1 No. 500 Amp FP Moulded Case Circuit Breaker.	
1 No. 0 to 500 Volt digital voltmeter with inbuilt selector switch.	
1 No. 500 Amp digital ammeter with inbuilt selector switch and CT's.	
1 Set of phase indicating lamps with Single Pole MCB.	
1 Set of ON / OFF indicating lamps with Single Pole MCB.	
1 Set of KWH Meter with 3nos CT's.	
BUS BARS	
600 Amp TPN aluminium busbar.	
OUTGOING	
07 Nos 100A TP+N Moulded Case Circuit Breaker.	
1 Nos 160A TP+N Moulded Case Circuit Breaker.	
1 Lot of control / power wiring.	
Panel described as above Set 0	
LIGHT POWER & AC PANEL	
INCOMING	
1 No. 100 Amp FP Moulded Case Circuit Breaker.	
1 No. 0 to 500 Volt digital voltmeter with inbuilt selector switch.	
1 No. 100 Amp digital ammeter with inbuilt selector switch and CT's.	
1 Set of phase indicating lamps with Single Pole MCB.	
1 Set of ON / OFF indicating lamps with Single Pole MCB.	
1 Set of KWH Meter with 3nos CT's.	
BUS BARS	
150 Amp TPN aluminium busbar.	
OUTGOING	
04 Nos 63A TPN Miniature Circuit Breaker.	
03 Nos 40A TPN Miniature Circuit Breaker.	
02 Nos 25A DP Miniature Circuit Breaker.	
1 Lot of control / power wiring.	
Panel described as above Set 0	
PART (G) SUB TOTAL	
I OUTDOOR TYPE GLOW SIGN BOARD WIRING	
Supply laying of Main line with 2x2.5 + 1x 1.5 Sq.mm through MS conduit from main Mtr.	
b. To Glow Sign Board	
Supply installation of 16 Amp. DP MCB at main entrance Glow sign Board with Timer of	
reputed make- Samsung	
PART (1) SUB TOTAL	
J PUBLIC ADDRESS SYSTEM	

	ELECTRICAL WORKS						
S.No	DESCRIPTION OF WORKS	UNIT	QTY	RATE	AMOUNT		
			QII	RAIE	ANIOUNI		
I .	SITC of EN54-16 compliant IP Based Digital Public Address & Voice Alarm system. The						
l	selected system devices like controllers and Paging Microphones, should use the TCP/IP	1					
	technologies and build on the standard network platform to ensure expandability. The						
	individual systems should be able to play 4 simutaneous audio messages and also be						
	able to be networked over IP such that the PA systems in all 10 towers work seamlessly.						
	SITC of 8 zone IP based, digital Voice Alarm controller expandable upto 128 zones. The						
	voice alarm controller should be able to connect directly over Ethernet. It should have						
	functions like the audio playing, zone control, fault monitoring, log recording, volume						
	control and amplifier switchover. The Voice alarm controller should also have the						
	following functions:						
	. 255 Priorities		1				
	. Time schedule broadcasts						
	. Its own PTT microphone						
	. Capable of amplifier redundancy						
	. 8 trigger inputs/outputs Approved Makes: Bosch Praesedio / Honeywell - X618 / Atais - IDA	Set					
	Annroved Makes: Rosch Praesedio / Honeywell - XFIX/ Afeis - IIIA						
	SITC of 4x500W Class-D Amplifier with 4 independent channels and can provide						
	automatic re-settable overcurrent, overload, overheating, overvoltage, under-voltage		1				
	and DC protection. Approved Makes: Bosch Praesedio / Honeywell - X618/ Ateis - IDA		•				
		Set					
	SITC of 6W Wall / ceiling mount of 96dB . Frequency response of 160Hz-20KHz. The						
l	speaker should have tappings at 6W/3W						
	speaker shoud have tappings at 600/500		10				
		Set					
	Supply, Installation, Testing & Commissionig of 12 Volume Controller for all the closed		4.0				
	areas.	Nos.	10				
	Wiring for PA system with the following sizes of PVC insulated copper conductor						
	twisted cables in existing surface/recessed M.S. conduit etc. as complete as required.						
	2 x 1.5 sq.mm twin twisted PVC wire (30/0.25mm)	Meter	100				
	PART (J) SUB TOTAL		100				
	GROSS SUB TOTAL (PART A + PART B + PART C + PART D + PART E + PART F +						
	PART G + PART H + PART I GST EXTRA						
APPR	OVED MAKE LIST						
	DESCRIPTION	Approved	Makes				
S.N.	PVC Conduit	Precision/A					
1	Ceiling Junction Boxes	Home lite/A	ANCHOR				
	Wires & cables	R.R./Havells/ Polycab					
	Modular Switches, Sockets etc		Legrand/Havells/L.& T.				
	Lighting Fixtures	Philips/Havells /Bajaj					
	M.C.B./RCCB/RCBO etc	Legrand/Havells/L&T					
	Distribution Boards	Same As Above					
	MCCB Change Over Switches	Schneider/Legrand/Havells					
	Change Over Switches End Termination accessories		H.P.L./A.B.B./Standard/ L.& T. Standard				
	Telephone Cables & accessories	Dowells/Usha/Brecco/Cosmos/Brecco/Cosmos Havells, Krone, Finolex,					
	Fans/Exhaust fans		Crompton/Havell/USHA				
	Music Speakers	†	Philips/Bosch/Ahuja				
_	Amplifiers	· ·	Philips/Bosch/Ahuja				
14	DVR	Samsung,H	oneywell , I	HIKVISION			
					· ·		

	ELECTRICAL WORKS					
S.No	DESCRIPTION OF WORKS	UNIT	QTY	RATE	AMOUNT	
15	Rg11, CAT5/CAT6 cables/Telephone wires	Legrand, M	lolex, D'Lin	k ,AMP		
16	CCTV Dome Camera	Honywell, F	llKVision			
17	Hard Disk drive	Seagate, HIKVISION				
18	Smoke/Heat/Optical Fire Detectors	Edward, Siemens, Appolo Or other I.S.I. Equivalent.				
19	Response Indicators, Hooters	Edward,Sier	nens OR o	other ISI Approved.		
20	Telephone Tag Block	Krone				
Place:	Date: Signature of	contractor v	with seal			