TEN	DER & SPECIFICATIONS FOR PROPOSED ELECTRICA LOBBY(UJJIAN -REG		K'S AT MA	HIDPUR BE	RANCH & E-
S.No.	DESCRIPTION OF WORKS	UNIT	QTY	RATE	AMOUNT
1	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 (whereever 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 PVC insulated 1100 V grade				
	multi- stranded 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 flling the				
	chase with cement mortar and finishing the same in				
	original form/ wooden partition/ above false ceiling with (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	One light points controlled by one 6 amp. Modular switch.	Nos.	65.00		
ii	Two light points controlled by one 6 amp. Modular	Nos.	10.00		
iii	TWitsb light points controlled by one 6 amp. Modular	Nos.	5.00		
	switch.				
	One call bell point with ceiling rose/ 6amp. 3 pin socket	Nos.	1.00		
	controlled by one 6 amp. Push Modular switch. With call				
	bell One well fent spiling ovhauet fan neint with 6 amp 2 nin	Nos.	4.00		
	One wall fan/ ceiling/ exhaust fan point with 6 amp 3-pin socket controlled by one 6 amp. Modular switch. The	1105.	4.00		
	switch should be at switchboard level.				
vi	Celing fan point with one nos 6 amp switch and 2 module	Nos	14.00		
	electronic regulator including wiring & ceiling rose				
	One 5 pin socket controlled by one 6 amp. Modular				
	switch complete assembly includes plate box etc.	Niss	15.00		
а	same board	Nos.	15.00		
viii	Comp. on parial no. 1 but using 0*0 E . 1*0 E Camm				
	Same as serial no 1 but using 2*2.5 + 1*2.5 Sqmm Copper Conductor FRLS wires from DB to first 6A, 5 Pin				
	modular socket controlled by one 6A switch and looped				
	to the nearest second point with same 2*2.5 + 1*2.5				
	Sqmm copper conductor wires FRLS insulated 1100V				
	grade (max 3 points per circuit).				
	Primary Point	Nos.	8.00		
b	Secondary Point looped	Nos.	4.00		
	POWER POINTS				
	Same as serial no.1, but wiring for 16 Amp, 6-pin sockets				
	by using 2*4 sq.mm. PVC insulated 1100 V grade				
	copper conductor wire with independent 1* 4.0 sq.mm earth wire from D.B. to first point 1st socket and 1st to 2nd,				
	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.	10.00		
b)	Secondary Point	Nos.	4.00		

S.No.	DESCRIPTION OF WORKS	UNIT	QTY	RATE	AMOUNT
3(a)	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 with modular type AC box(tiny trip type) with socket complete in all respects controlled by 25/32 A SP MCB to be provided near indoor unit. The point starts from DB to stabilizer to the point near the indoor unit including top.		6.00		
B.	Same as serial no.1, but wiring for A/C socket by using 4*6 sq.mm. PVC insulated 1100 V grade copper conductor wire and earthing with 1*6.0 sq.mm. PVC insulated 1100 V grade copper conductor wire of weather proof type 4 way SPN DB complete in all respects controlled by with 40 Amp TPN (10 KA) MCB to be provided near outdoor unit. The point starts from DB to the point near the outdoor unit. (includes wires for terminal connection of outdoor unit from TPN)		4.00		
4	COMPUTER POINTS				
а	Wiring with 2x2.5 sq.mm. + 1x2.5 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 swtich 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.	8.00		
	Secondary Points	Nos.	4.00		
В.	CONDUITING FOR TELEPHONE, COMPUTER & CONDUITING, WIRING FOR T.V. SYSTEM.				
	TELEBRIONE OVOTEN				
1.0	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		12.00		
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.	1.00		
b)	P/L 10 Pair of PVC insulated PVC sheathed multi core jelly filled armored telephone.	Mtrs.	10.00		

S.No.	DESCRIPTION OF WORKS	UNIT	QTY	RATE	AMOUNT
2	COMPUTER NETWORKING				
2.1	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 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.	24.00		
2.2	Supplying and fixing 9 U (Rack with glass door, opening in the front power panel 1 (horizontal), cable manager 1 lock & key).	Nos.	1.00		
2.3 a	Supply, Installation, Testing & Commissioning of 24 port Jack Panel.	Nos.	1.00		
2.3 b	Supply, Installation, Testing & Commissioning of 16port Jack Panel.	Nos.			
2.4	Supplying and fixing Patch Cord-2 Meter- (DBPS Mounting Cord)	Nos.	24.00		
2.5	Supplying and fixing Patch Cord-1 Meter-	Nos.	24.00		
3.0	Supply and fixing of 1.6 mm thick G.I. Box along with RG 6 T.V Co axial socket with Cover Plate.	Nos.	1.00		
4.0	Supply, drawing, connecting, testing and commissioning of T.V Coaxial cable RG 6 in existing conduit.	RM	10.00		
C.	CABLES, MAINS & SUBMAINS				
1	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, wall and the like etc. and replastering the floor level to original. Conduit must be 30 mm below the floor finish level.				
i	1 X 10 sq mm Cu wire for earthing.	RM	20.00		
ii	2 X 6 sq.mm. + 1 X 6 sq.mm.	RM	5.00		
iii	4 X 6 sq.mm. + 2 X 6 sq.mm.	RM	5.00		
iv	Supplying, laying, testing & commissioning of 4 C X 10 sq.mm. at 1100 volts grade PVC insulated copper 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 from main board to UPS Room	RM	30.00		
V	Supplying, laying, testing & commissioning of 4 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 acessories, Clamps etc. as required as per specification (Light DB).	RM	15.00		
vi	Supplying, laying, testing & commissioning of 4 C X 25 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 acessories, Clamps etc. as required as per specification (Power DB,AC DB & Server Room DB).	RM	15.00		

S.No.	DESCRIPTION OF WORKS	UNIT	QTY	RATE	AMOUNT
J.110.				DATE	AIVIOUNT
	Supplying, laying, testing & commissioning of 4 C x 75	RM	30.00		
	sq.mm. at 1100 volts grade PVC insulated aluminum				
vii	conductor armoured cable with 10 gauge earth copper				
	wire including cables end termination using appropriate				
	Lugs, Glands, termination acessories, Clamps etc. as				
	required as per specification (Mains).				
D.	DISTRIBUTION BOARD				
	Supplying, installing, testing & commissiong of				
	surface/recessed mountings, Double door 415 volts TPN				
	MCB distribution board of steel steel, 1.6mm thick dust				
	phosphatized and painted, inclusive of 100 amps, tinned				
	copper busbars, earthbar, common neutral link, din bar				
	for mounting of MCB's detachable gland / knock out plate				
	& with built in loose wire boxl, 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				
	circuit MCB's shall be selected accordingly i.e. type B,C				
	& D. Contractor to select the MCB's accordingly as per				
	the nature of the circuit/ load.				
	Each DB shall have separate neutral links of rating not				
	less than 100A for each phase. The main incoming				
	neutral link shall be in addition to three outgoing neutral				
	links and shall be of 125 A.				
	UPS DB's shall have a dedicated Earthing link fixed on				
	insulated supports, which will be in addition to body earth				
	link.				
	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.				
а	6-way TPN DB (LIGHT DB)	No.	1.00		
u	Incomer:-	140.	1.00		
	1 No. 40 Amp TPN (10 KA) MCB with 40 A DP RCCB				
	(100 MA) each phase				
	Outgoing:-				
	16 Nos.6/10/25 Amp (10 KA) SP MCB				
B.	4-way TPN DB ( POWER DB)	No.	1.00		
	Incomer:-				
	1 No. 63 Amp TPN (10 KA) MCB with 40 A DP RCCB				
	(100 MA) each phase				
	Outgoing:-				
	8-10 Nos.6/10/25 Amp (10 KA) SP MCB				
	5 . 5 . 10010/10/20 / Milp (10 10 t) 01 MOD				
	4 way V TDN DD (AC)	No	1.00		
C.	4-way V-TPN DB (AC )	No.	1.00		
	Incomer:-				
	1 No. 80 Amp 4 Pole (16 KA) MCCB				
	Outgoing:-				
	4No. 40 Amp (16 KA) TP MCB				
	-				

2 1/10	DESCRIPTION OF WORKS	UNIT	QTY	RATE	AMOUNT
S.No.	6Nos.10/16/25/32 Amp (10 KA) SP MCB	CITI	St i i	IIAIL	AMOUNT
	STOCKED TO				1
D.	4-way TPN DB UPS ROOM	No.	1.00		
	Incomer:-				
	1 No. 40 Amp TPN (10 KA) MCB with 40 A DP RCCB				
	(100 MA) each phase				
	Outgoing:-				
	10 Nos. 6/10/16/25/32 Amp (10 KA) SP MCB, For Lights,				
	Power & spare, UPS etc				
	·				
E	<b>4-way SPN DB</b> with 2 No 40 A (10 KA) DP MCB (For UPS Input)	No.	2.00		
	F				
F.	12-way SPN DB (For UPS Sub DB)	No.	1.00		
	Incomer:-				
	1 No. 25 Amp DP (10 KA) MCB with 25 A DP RCCB (100 MA)  Outgoing:-				
	8-10 Nos.6/10/16/25Amp (10 KA) SP MCB				
	(13.13)				
G.	8-way SPN DB (For ATM DB with lock & key arrangement)	No.	1.00		
	Incomer:-				
	1 No. 40 Amp DP (10 KA) MCB with 25 A DP RCCB (100 MA)				
	Outgoing:-				
	4 Nos.6/10/16/25Amp (10 KA) SP MCB				
Е	(LIGHT FITTINGS & ACCESSORIES)				
E	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 Fixures should be covered with minimum 3 Years onsite replacement				
i	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 Fixures should be covered with minimum 3 Years onsite replacement warranty).  FULL GLOW 2 X 2 LED 36 W slim Smart Panel of make As specified in tender document or approved by		31.00		
	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 Fixures should be covered with minimum 3 Years onsite replacement warranty).  FULL GLOW 2 X 2 LED 36 W slim Smart Panel of make As specified in tender document or approved by SBI/Architect.  Supplying, fixing, testing and commissioning of 15 W LED commercial type down lighter of make As specified		31.00		
i	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 Fixures should be covered with minimum 3 Years onsite replacement warranty).  FULL GLOW 2 X 2 LED 36 W slim Smart Panel of make As specified in tender document or approved by SBI/Architect.  Supplying, fixing, testing and commissioning of 15 W LED commercial type down lighter of make As specified in tender document or approved by SBI/Architect.  Supplying, fixing, testing and commissioning of 15 W LED commercial type surface down lighter of make As	Nos.			
i	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 Fixures should be covered with minimum 3 Years onsite replacement warranty).  FULL GLOW 2 X 2 LED 36 W slim Smart Panel of make As specified in tender document or approved by SBI/Architect.  Supplying, fixing, testing and commissioning of 15 W LED commercial type down lighter of make As specified in tender document or approved by SBI/Architect.  Supplying, fixing, testing and commissioning of 15 W LED commercial type surface down lighter of make As specified in tender document or approved by SBI/Architect.  Tube Light with all accessories.make As	Nos.	42.00		
i	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 Fixures should be covered with minimum 3 Years onsite replacement warranty).  FULL GLOW 2 X 2 LED 36 W slim Smart Panel of make As specified in tender document or approved by SBI/Architect.  Supplying, fixing, testing and commissioning of 15 W LED commercial type down lighter of make As specified in tender document or approved by SBI/Architect.  Supplying, fixing, testing and commissioning of 15 W LED commercial type surface down lighter of make As specified in tender document or approved by	Nos.	42.00 6.00		
i ii iii	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 Fixures should be covered with minimum 3 Years onsite replacement warranty).  FULL GLOW 2 X 2 LED 36 W slim Smart Panel of make As specified in tender document or approved by SBI/Architect.  Supplying, fixing, testing and commissioning of 15 W LED commercial type down lighter of make As specified in tender document or approved by SBI/Architect.  Supplying, fixing, testing and commissioning of 15 W LED commercial type surface down lighter of make As specified in tender document or approved by SBI/Architect. Tube Light with all accessories.make As specified in tender document or approved by bank LED Strip for cove lighting 15 W per 5 M with driver and necessary installation fittings Led strip light (5 mtr.) make as specified in tender document or approved by SBI/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. all complete as per the directions of	Nos.  Nos.  RM	42.00 6.00 18.00 25.00		
i ii iiv v	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 Fixures should be covered with minimum 3 Years onsite replacement warranty).  FULL GLOW 2 X 2 LED 36 W slim Smart Panel of make As specified in tender document or approved by SBI/Architect.  Supplying, fixing, testing and commissioning of 15 W LED commercial type down lighter of make As specified in tender document or approved by SBI/Architect.  Supplying, fixing, testing and commissioning of 15 W LED commercial type surface down lighter of make As specified in tender document or approved by SBI/Architect. Tube Light with all accessories make As specified in tender document or approved by bank LED Strip for cove lighting 15 W per 5 M with driver and necessary installation fittings Led strip light (5 mtr.) make as specified in tender document or approved by SBI/Architect.  Supply, installation, testing and commissioning of following fans with all fixing materials like white Polycarbonate 2 mm Hylem sheet cover, down rods, fan	Nos.  Nos.  RM	42.00 6.00 18.00		

S.No.	DESCRIPTION OF WORKS	UNIT	QTY	RATE	AMOUNT
vii	Supply & fixing of 230 mm exhaust fan 'Ventilair DX W' with self closing louvers and plastic body with all accessories etc. complete of make As specified in tender document or approved by SBI/Architect.	Nos.	4.00		
	FARTHING CYCTEM				
F.	EARTHING SYSTEM	Non	2.00		
1	Supply, Installation, Testing and Commissioning of Maintenace Free Earthing system made up of copperbonded rod of 10 feet length, 23 mm dia. (Minimum copper bonding shall be 0.25mm) along with Rod-to-Conductor connectors, Earth enhancement material, Pit Cover and other accessories as required and as per specification and other applicable codes (include chamber for earthing, Earthing certificate to be submitted	Nos			
2	Supply, Installation, Testing and Commissioning of Maintenace Free Earthing system made up of copperbonded rod of 10 feet length, 17.2 mm dia. (Minimum copper bonding shall be 0.25 mm) along with Rod-to-Conductor connectors, Earth enhancement material, Pit Cover and other accessories as required and as per specification and other applicable codes (include chamber for earthing, Earthing certificate to be submitted along with the bill).	Nos	2.00		
3	Providing and fixing of Copper/ GI strips in surface or in				
<b>—</b> :	recess for loop earthing etc. as required.	DM	F 00		
i	25 mm x 3 mm copper strip with proper clamps 25 mm x 5 mm GI strip	RM RM	5.00 5.00		
iii	Providing and fixing 2 X 8 SWG dia. Cu earth wire in PVC conduit on surface or in recess for loop earthing along with the existing surface/ recess cable as required.	RM	25.00		
G.	EXTRA REFRIGERANT PIPING S.I.T.C. of 19 mm dia & 16 mm dia Copper Refrigerant Pipes with Foam insulation between Indoor & Outdoor units.with breaking of wall wherever required for 3/4Tr Cassette/ Inverter Air conditioners.	Mtr.	50		
b	S.I.T.C. of 12.5 sq.mm. & 6.25 Sq.mm. dia. Copper refrigerant pipe with foam Insulation between Indoor & Outdoor units with breaking of wall for making hole wherever required For Split Air- Conditioners.	Mtr.	25		
C.	DRAIN PIPING				
	Providing and fixing drain piping up to drain as directed by the engineer incharge with all accessories e.g. elbows, unions, sockets, reducers, reducing tees, nipples etc. Complete job including cutting chiseling in walls, floor and making good of all chases/ cuts etc. and discharging the drain into a floor trap/ gully as per site conditions with insulation, both as specified by the	NAL.	05.00		
i	25 mm dia PVC drain pipe for Split AC 32 mm dia PVC drain pipe for Cassette AC	Mtr. Mtr.	25.00 45.00		
"	52 mm dia F vo diam pipe for Cassette AC	iviti.	45.00		
				·	1

S.No.	DESCRIPTION OF WORKS	UNIT	QTY	RATE	AMOUNT
		Oitii	<b>Q.</b> 1.	III	Amount
	MAIN PANEL AND METER BOARD  Designing, fabrication, supply, installation, testing and commissionings of front operated cubicle type compartmentalised, front access, free standing on 75MM "[" MS channel, dust and vermin proof (IP 42 degree protection) panel suitable for use at 415V, 3 phase, 4-wire 50Hz system suitable for fault level of required value symmetrical at 415V fabricated from 2mm thick CRCA MS sheets with hinged, gaskettted (Metal based neoprene) locable doors having structural reinforcement including 3mm thick gland plates on top and bottom, lifting hooks, GI earth strip of required size with 2 nos earth terminals, 2 nos 230V AC operated 250mm X 250mm size axial fans for exhaust of heat with On-Off toggle switches including 2 coated primer and 2 power coated paint fnish of approved shade over metal surface cleaned and treated with seven tank process complete with interconnections etc as per specifications as required.main panel board of approved make (KRYPTON POWER CONTROLS/NEPTUNE/TRICOLITE/AMPTECH				
	Or should be CPRI Approved, Type of Approval as instructed by the SBI/Architect)as per the following				
	specifications should be CPRI Approved. All live accessible parts shall be shrouded and all equipment shall be finger touch proof. The busbars insulation shall be withheat shrinkable sleeves SMC/DMC shrouds and busbar supports shall be used. Padlocking facility shall be provided on all outgoing feeders doors and switch handles shall be locable in Suitable arrangement shall be made for termination of				
	multiple incoming cables.				
	All kA values indicated shall be Ics breaking capacity				
	GA drawings shall be got approved by SBI				
а	Fabrication, supply, installation, testing and commissionings of cubicle type floor/wall mounted L.T. panel made out of 2 mm thick CRCA sheet including connection,inter-connection alongwith 4 strip aluminium busbar as per CPWD specifications,(Part IV-Sub-station) etc. as required.(Meter Board)				
	Incoming :-				
	i) 1no. 125 Amp 4P MCCB (25 KA) thermal over current, instantaneous, Short circuit realease, Earth fault. ii) Busbar: -200 Amps 4P aluminum conductor bus bar				
	(BPTM type Heat-shrinkable busbar insulation) supported by DMC / FRP insulators.				
	Space shall be provide for the BSES Meter				
	Meter board shall be lockable.				
	Complete panel described as above.				
<b>I</b> -	Floor monel shall consists of				
	Floor panel shall consists of: - INCOMER  1no. 100 Amp 4P On Load Change over switch with 1 No. 100 Amps,TPN MCCB (25 KA) with extendeble rotary handle each thermal over current, instantaneous, Short				
	circuit realease,Earth fault.				
	PUODADO				
	BUSBARS				
	160 amps TPN pole busbar chamber of suitable length with copper busbars. All busbars and interconnections shall be of suitable size copper strips.				

S.No.	DESCRIPTION OF WORKS	UNIT	QTY	RATE	AMOUNT
	INDICATING PANEL				
	Digital flush type class-1.0 accuracy multifunction meter				
	showing V, A, PF etc. with 3 Nos. current transformers of				
	100/5A ratio, 10 VA Class-1.0 metering 1 sets				
	Red/Green/Amber ON/OFF/TRIP indicating lamps with				
	2A SP MCB backup protection.				
	1 set of three phase indicating lamps along with 2A SP MCB backup protection.				
	Restricted Earth fault relay with 3 Nos. current				
	transformers of 160/5 ratio, 15 VA Class 5P 10 (Numeric				
	Relay not required.)				
	Undervoltage, Overvoltage & phase reversal relay for				
	persisted voltage of 105-180% & 20-95% of rated				
	voltage. (Numeric Relay not required.)				
	OUTGOINGS:-				
	2 Nos 63A TPN MCCB (16 kA) terminals suitable to				
	receive cable on one side and wire connection to Bus				
	bars. For capacitor Bank AND AC VTPN,				
	2 Nos 63A TPN MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus				
	bars. (For PDB,UPS)				
	1 Nos 40A TPN MCB (10 kA) terminals suitable to				
	receive cable on one side and wire connection to Bus				
	bars. (For LDB )				
	2 Nos 40A DP MCB (10 kA) terminals suitable to receive				
	cable on one side and wire connection to Bus bars.				
	The electrical panel as described above and	Set	1.00		
	specifications complete.				
	TOTAL FOR ELECTRICAL WORKS				

Note:- The rates quoted includes all other taxes , duties , loading, unloading , transportation, other expenses etc to site. only GST will be paid Extra