	SCHEDULE OF QUANTITIES ELECTRICAL INSTALLATION WORKS					
	AT NEW PREMISES OF REGIONAL BUSINESS OFFIC	E, ANAK	APALLI			
S. No.	Description	UOM	Qty.	Rate (Rs.)	Amount (Rs.)	
1	MAINS Supply and installation of 250 Amps, 4P MCCB complies with IEC 60947-2 with 2mm sheet steel enclosure powder coat painted. The MCCB should have adjustable overload setting With load/line interchangeability with thermo magnetic /static release. (b/w Busbar & MCOS)  BUSBAR CHAMBERS	No.s	1			
2	Supply, installation, testing & commissioning of 415 Volts, 250 Amps rated 4 pole compact size busbar Chamber made of 16 SWG (2 mm) sheet steel duly powder coated with anti rustic paint with openable front cover with rubber gasket and RYB LED indicators. The chamber contains with 4 No's electrolyte copper bus bars with minimum 32 mm clearance between each of them duly supported in robust manneron porcelain insulators and all other accessories as required. (Compatible for one incomer, four outgoing cables)	No.s	1			
3	MAIN CHANGE OVER SWITCH  Supply and installation of 100 Amps, 4P ON LOAD Change Over Switch with suitable metallic enclosure with hinged door cable entry box and powder coat painted and with 8 nos. LED indicators (having CT coil to glow & show V & I readings) & 8 nos. of 2A MCBs for the indication of EB or DG Set supply separately (3-Phases each) with neat marking.  APFC PANEL	Set	1			
4	Wall mounted type Portable Panel :Supply & installation of Automatic Power Factor Control Panel (APFC Panel) with capacity 38 KVAR (15+10+5+3+3+2 KVAR Capacitors) housed in powder coated 16 SWG CRCA Sheet with 4 LED Indicators in incomer (R, B, Y, Black/White having CT coil to glow & show V & I readings) for incomer power supply + stage APFC relay (Stages having one more than the no. of capacitors) + required contactors + control MCBs + individual push buttons & indicators (Green/Red) for ON & OFF Operation (Push buttons with indicators are preferable) + CT of 100-50/5A Ratio Auto / Manual Switches for each capacitor individually + Ammeter (0-50A) & Volt Meter (0-600V) with Phase Selector Switches and Incomer MCCB, 25KA with adequate rating (min 100 Amps).	No.s	1			
	ESSENTIAL DB					
5	Supply ,installation ,testing and commissioning of VTPN DB – IP 43-IK 09 - approved make) comprising of  Incomer: 100 Amps 4P MCCB  Outgoing: 1 No.s 40 Amps TP MCB (for UPS db),  2 No.s 63 Amps TP MCB (for Gnd floor PDB & LDB)  2 No.s 32 Amps SP MCB (for first floor LDB, PDB)  1 No.s 16-32 Amps SP MCB (for glow sign, outside light)  1 No.s 40 Amps TP MCB (for spare)  at outgoing with inter connection in PVC insulated color coded wire in PVC conduit cable socket including loop earth connection to earth bus bars etc. all complete including mending good the damage and painting. The MCCB should have adjustable overload setting With load/line interchangeability with thermo magnetic /static release.	No.s	1			
	AC DB					
6	Supply ,installation ,testing and commissioning of double door VTPN DB – IP 43 - IK 09 of approved make comprising of rated bus bar and  Incomer: 100 Amps 4P MCCB & 4P 30ma ELCB Outgoing: 7 No. 32 Amps TP MCBs (for Cassette AC machines),  with inter connection in PVC insulated color coded wire in PVC conduit cable socket including loop earth connection to earth bus bars etc. all complete including mending good the damage and painting. The MCCB should have adjustable overload setting With load/line interchangeability with thermo magnetic /static release.	No.s	1			
7	POWER & LIGHTING DB  Supply, installation, testing and commissioning of 8 way ETPN DB (PPI model) with  Incomer: 63 Amps 4P MCB  Outgoing: 3 X 1 No.s 2P 32 Amps 30 ma ELCB for each phase 3 x 6 No.s 10-16 Amps SP MCBs  to individual Switch Board circuits, BM, CO Ac's, etc as per Banks requirement	No.s	2			

	UPS DISTRIBUTION DB			
	Supply, installation, testing and commissioning of 12 way SPN DB with			
	συρριγ, πιοιαιιατίστι, τεστίπης από commissionling of 12 way στιν με with			
	Incomer: 40 Amps 2P 30ma ELCB			
8	Outgoing: 10 No.s 10-16 Amps SP MCBs	No.s	2	
	to individual Switch Board circuits (UPS DB)			
	Supply, installation, testing and commissioning of 8 way SPN DB with			
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
	Incomer: 40 Amps 2P 30ma ELCB			
9	Outgoing: 5 No.s 10-16 Amps SP MCBs	No.s	3	
	1 No.s 25-32 Amps SP MCBs		-	
	1.2.2.2.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.			
	to individual Switch Board circuits (UPS DB, first floor LDB, PDB)			
	Supply, installation, testing and commissioning of 6 way SPN DB with			
40	Incomer: 32 Amps 2P MCB	NI	_	
10	Outgoing: 4 No.s 10-16 Amps SP MCBs	No.s	1	
	to individual Switch Board circuits (Conference Room UPS DB)			
	CABLE LAYING AND TERMINATIONS :			
	Supply & Laying of following 1100V grade armored cable having sector / circular			
	shaped aluminum conductor XLPE insulated cores, laid up, PVC tape wrapped			
11	inner sheathed, GI strip / wire armored and overall extruded PVC sheathed			
''	confirming to IS: 7098, laid along with 2 Runs of 8SWG GI Wire on wall or ceiling			
	using GI clamps and spacers as per route shown at site and further as directed			
	by Bank / Architect.			
а	3.5 x 95 sq.mm AYFY Cable	Mtr.	0	
b	3.5 x 70 sq.mm AYFY Cable	Mtr.	45	
С	3.5 x 50 sq.mm AYFY Cable	Mtr.	0	
d	4 x 35 sq.mm AYFY Cable	Mtr.	0	
е	4 x 25 sq.mm AYFY Cable	Mtr.	75	
f	4 x 16 sq.mm AYFY Cable	Mtr.	0	
	End termination of the following size of cables using flange type cable glands and			
12	heavy duty tinned aluminium crimping type cable sockets including gland			
	earthing.			
а	3.5 x 95 sq.mm AYFY Cable	Nos.	0	
b	3.5 x 70 sq.mm AYFY Cable	Nos.	4	
С	3.5 x 50 sq.mm AYFY Cable	Nos.	0	
d	4 x 35 sq.mm AYFY Cable	Nos.	0	
е	4 x 25 sq.mm AYFY Cable	Nos.	8	
f	4 x 16 sq.mm AYFY Cable	Nos.	0	
	Other MCB / Isolator DBs :			
,	AC POINTS			
40	Supply, installation, testing and commissioning of 32A industrial plug socket in	NIa -	4	
13	metal clad with 32A DP MCB	No.s	1	
4.4	Supply, installation, testing and commissioning of 20A industrial plug socket in	No. a	0	
14	metal clad with 20A DP MCB	No.s	0	 <u> </u>
	4P MCB :			
15	Supply and Installation of 32 A 4P MCB in suitable metallic enclosure	Set	7	
	2P MCB :			
40	Supply & fixing of 40 Amps 2P MCB in suitable metallic box (for UPS Input &	Nas	_	
16	Output)	Nos.	2	
	Supply & fixing of 3 No's 32 Amps 2P MCB's in suitable double door DB	-		
17	enclosure in suitable metallic box (for UPS Output Phase wise distribution)	Nos.	1	
	immediately after UPS o/p MCB			
	2P COS:			
18	Supply and Installation of 40 A DP Changeover switch MCB type in suitable	Set	0	 
10	metallic enclosure (UPS outgoing)	Jei	U	
	WIRING			
	Circuit / Sub circuit Wiring :			
	Supply and wiring wall / floor etc. / recessed / surface as per colour code with the			
	following size PVC Insulated copper wire along with given earth wire for			
	phase neutral and earth conductor with standard colour coding, through ISI			
	marked rigid PVC conduit.		<u> </u>	
	3 core x 6 sq.mm PVC Copper wire in 2 mm thk, 20 mm dia conduit	-		
	(for Essential DB to First floor LDB			
19	Essential DB to First floor PDB	Mtr.	72	
	Gnd floor DB to First floor UPS DB			
20	4 core x 6 sq.mm PVC Copper wire in 2 mm thk, 25 mm dia conduit (for UPS	Mtr.	21	
	o/p to UPS DB)			

21	5 core x 6 sq.mm PVC Copper wire in 2 mm thk, 25 mm dia conduit (for Essential DB to LDB Essential DB to PDB for LIBS O(x to LIBS DB)	Mtr.	81	
	for UPS o/p to UPS DB)  DESK/ WORK STATION WIRING			
22	Wiring in PVC conduit of IS specification of proper size with 3 nos 2.5 sq.mm single core PVC insulated stranded copper wire 1.1KV grade and with all material supply installation and commissioning complete from UPS DB/ LDB(Raw). The wiring shall be carried out on surface above false ceiling and concealed in the wall by chiseling the existing surface and plastering the same with cement etc. after fixing the pvc conduit with all accessories like saddles screws, bends T-joint etc. 2 coats of painting Matching to the surface including supply installing, testing, commissioning of modular plate type switch and socket for computer terminal on sheet steel enclosure (cadmium plated),duly fitted with screw to the steel conduit and fixed to the wall partition furniture with all interconnection and proper earthing. All the opening shall be covered with blank plate and be sealed to make the box vermin proof.  UPS Primary point for SWC & branch Manager table: 2 no. 6A sockets fixed below the table, to be controlled by one no. 16 A modular DP switch above the table / counter. The boxes are to be fixed on the partitions by suitably chiseling / cutting, making good the damage.	Set	17	
23	UPS Secondary point (Looping from above primary point) for SWC & branch Manager table: 2 no. 6A sockets fixed below the table, to be controlled by one no. 16 A modular DP switch above the table / counter. The boxes are to be fixed on the partitions by suitably chiseling / cutting, making good the damage.	Set	16	
24	Wiring in PVC conduit of IS specification of proper size with 3nos 2.5sq.mm single core PVC insulated stranded copper wire 1.1KV grade and with all material supply installation and commissioning complete from UPS DB/ LDB (Raw) . The wiring shall be carried out on surface above false ceiling and concealed in the wall by chiseling the existing surface and plastering the same with cement etc. after fixing the pvc conduit with all accessories like saddles screws, bends T-joint etc. 2 coats of painting Matching to the surface including supply installing, testing, commissioning of modular plate type switch and socket for computer terminal on sheet steel enclosure (cadmium plated),duly fitted with screw to the steel conduit and fixed to the wall partition furniture with all interconnection and proper earthing .All the opening shall be covered with blank plate and be sealed to make the box vermin proof.  Raw power point for SWC and other work stations: 3 no. 6A sockets fixed below the table to be controlled by one no. 16 A modular switch above the table / counter. The boxes are to be fixed on the partitions by suitably chiseling / cutting, making good the damage.	Set	18	
25	Raw Power Secondary point (Looping from above primary point) for SWC & branch Manager table: 3 no. 6A sockets fixed below the table, to be controlled by one no. 16 A modular DP switch above the table / counter. The boxes are to be fixed on the partitions by suitably chiseling / cutting, making good the damage.	Set	16	
26	Wiring in PVC conduit of IS specification of proper size with 3nos 2.5sq.mm single core PVC insulated stranded copper wire 1.1KV grade and with all material supply installation and commissioning complete from UPS DB/ LDB(Raw) .The wiring shall be carried out on surface above false ceiling and concealed in the wall by chiseling the existing surface and plastering the same with cement etc. after fixing the pvc conduit with all accessories like saddles screws, bends T-joint etc. 2 coats of painting Matching to the surface including supply installing, testing, commissioning of modular plate type switch and socket for computer terminal on sheet steel enclosure (cadmium plated),duly fitted with screw to the steel conduit and fixed to the wall partition furniture with all interconnection and proper earthing .All the opening shall be covered with blank plate and be sealed to make the box vermin proof.  Raw power point: 1 no. 6 / 16 A controlled by 16 A switch. The boxes are to be fixed on the partitions by suitably chiseling / cutting, making good the damage.	Set	9	
	GENERAL WIRING			
	OLINEIVAL MINING		l	1

	Wiring for light/ fan/ exhaust fan points using 3 X 1.5 sqmm 1.1 kV grade PVC			
	insulated stranded copper conductor wire for phase, neutral and earth in 25 mm			
	dia heavy duty PVC conduit along with associated accessories like MS junction			
	boxes, bends, saddles, screws etc. concealed in wall, floor, under flooring, below			
	false ceiling or on surface as well as suspended from ceiling with 25mm X 3 mm			
	MS flat suspenders duly painted above false ceiling from individual light/ Fan/			
	Exhaust Fan point outlet etc. to individual modular type switch boards, 6 Amp			
	modular plate type switches etc., as required complete including circuit wiring			
	with 3 X 2.5 sqmm. 1.1 kV grade PVC insulated stranded copper conductor wire			
	and mending good to damage and as per site requirement and as instructed by			
	engineer. All the opening shall be covered with blank plate and be sealed to			
	make the box vermin proof.			
	·			
27	2 no. of lights controlled by one switch	Set	33.00	
28	1 no. of lights by one switch.	Set	21.00	
00	Wall bracket fans / exhaust fan controlled by 6A switch at switch board and 1 no.	0-4	40.00	
29	6 A socket in MS box at ceiling level.	Set	12.00	
30	Ceiling fans with electronic regulators	Set	6.00	
31	6 A light plug controlled by 6 A switch on the same switch board	Set	10.00	
	Call bell point for Branch Manager chamber along with the supply of call bell			
32	з тапара	Set	1.00	
	6A light plug socket with 6A switch wiring including all accessories, as per the	0 1		
33	branch requirement in the banking hall	Set	0	
34	Supply, installation, testing and commissioning of Security lighting with designer	No.s	0	
	LED street light with pressure die cast housing of 75 Watt capacity.			
	Supply, installation, testing and commissioning of LED indicator lamps (R, Y, B)			
٥٦	with 3 no.s lamp holders and 3 nos. 5 A swtches on a suitable board and wiring	0-4		
35	with 1.1 kV grade 3 X 1.5 sq.mm copper flexible wire in PVC pipe tapping power	Set	1	
	from EB cut outs.			
	Wiring for glow sign board with 3 X 4 sq.mm 1.1 kV grade PVC insulated			
20	stranded copper conductor wire for phase, neutral and earth in 25 mm dia heavy	C -4	4	
36	duty PVC conduit along with associated accessories like PVC junction boxes,	Set	1	
	bends, saddles, screws etc.			
	Supply, installation, testing and commissioning of 1.1 kV grade 2.5 sq. mm			
27	flexible copper cable 3 meter length connected at one end with 15 A three pin	C -4	_	
37	socket and other end connected permanently to the switch board of safe room /	Set	0	
	locker room			
	Supply, installation, testing and commissioning of 1.1 kV grade 4.0 sq. mm			
38	flexible copper cable 3 meter length connected at one end with 15 A three pin	Set	0	
30	socket and other end connected permanently to the switch board of safe room /	Set	U	
	locker room			
	POPUP BOX			
	Supply, installation, testing & commissioning of Metal finish pop-up box 8 module			
39	(4+4) on top of the conference room table with all other connections required.	Nos.	5	
	(414) on top of the conference footh table with all other conficctions required.			
	AC Point (1-Ph):			
	Supply all materials and wiring through wall floor etc, concealed as per colour			
40	code with 3 x 4.0 sq mm P V C insulated stranded copper wire in 2mm thk PVC	Mtrs	18	
	pipe. (DB to AC point)			
	AC Point (3-Ph):			
	Supply all materials and wiring through wall floor etc, concealed as per colour	_		
41	code with 5 x 2.5 sq mm P V C insulated stranded copper wire in 2mm thk PVC	Mtrs	120	
	pipe.(DB to AC outdoor unit)			
	TELEPHONE & DATA			
	Supplying and laying of 2 pair 0.5mm dia telephone cable of tinned copper			
42	conductor in PVC conduit of suitable size from crone to each telephone socket	No.s	33	
	and RJ - 11 telephone sockets with suitable mounting box of modular type,			
	including all inter connections as required and directed.			
43	Supply, installation, testing and commissioning of 30 pair krone connector in a	No.s	1	
	suitable box as required and directed.			
44	Supply, installation, testing and commissioning of 30 pair 0.5 sq.mm tinned	RM	10	
<u> </u>	copper conductor in PVC conduit from krone to MDF / EPABX	-		
45	Supply and laying of ISI marked 25mm dia medium grade PVC conduit for data	RM	180	
<u> </u>	cabling with fish wire from			
	EARTHING			
	Supply, installing and commissioning of earth station including digging and			
	refilling back the pit with black soil and with 3mm x 600mm X 600 mm size			
	copper plate duly tinned through out the surface of the plate, placed at least			
46	1.5Mtr,below the ground level with 25 X 3 flat Cu strip fixed to the plate and	Set	2	
	providing 40mm,2mtr,long GI pipe with reducer and funnel at top for watering			
	pipe. As per IS 3043-1987 or latest version. The price should be inclusive of			
	preparation of brick masanary chamber, with covering place etc.			

67	Supply, Installation, testing and commissioning of 1 No.s 100 Amps 4P MCB, 1 No's 63 Amps 4P MCB, 1 No's 32 Amps 2P MCB within a single metal enclosure/ DB with openable door, fixed/ recessed in the wall with all other terminations required etc.	Set	1	
	Master Control Set up :  Supply Installation testing and commissioning of 1 No s 100 Amps 4P MCR 1			
66	Rubber gloves.	Nos.	1	
65	Shock treatment chart.	Nos.	1	
64	Supply and providing of 1m x 2m size (Approx.) x 3mm thick electrical grade rubber mat in Electrical / UPS Room.	Nos.	1	
63	Charges for preparation of single line diagram of the whole electrical installation using AutoCAD, lamination and displaying it inside the UPS room.	Lot	1	
62	Marking of Panels, DBs, its switch and fuse ratings, cable size, location etc on DBs, for EB (Red), UPS (Blue) distribution boxes, Switch/Socket Boards etc. with radium sticker / stencil with permanent marker / painting only.	Lot	1	
61	Supply, installation, testing and commissioning of LED indicator lamps (R, Y, B) with 3 no.s lamp holders (required as per lamps model) and 3 nos. 5 A swtches on a suitable board and wiring with 1.1 kV grade 3 X 1.5 sq.mm copper flexible wire in PVC pipe tapping power from EB cut outs.	Set	1	
60	Crompton / Bajaj /Usha/ Havell's make Supply, installation, testing and commissioning of Metal Wall bracket fan 400 mm Crompton/Bajaj/Usha/Havell's make	No.s	4	
59	Supply, installation, testing and commissioning of Ceiling fan 1200 mm,	No.s	6	
58	fittings suitable for outdoor application.  Supply, installation, testing and commissioning of Exhaust fan 300 mm Crompton  / Bajaj /Usha / Havell's make	No.s	8	
57	Down light (LED) fittings/ Portico light fittings.  Supply, installation, testing and commissioning of 12W Bulk head LED light	No.s	3	
56	Supply, installation, testing and commissioning of 15-18W True ceiling mounted	No.s	6	
55	Supply, installation, testing and commissioning of 9W - 10W LED batten (2 ft) suitable for indoor application.	No.s	6	
54	diffuser etc. suitable for gyp board or metric false ceiling.  Supply, installation, testing and commissioning of 18 W - 22W LED batten (4 ft. length) along with all other connections & accessories rerquired.	No.s	10	
53	Supply, installation, testing and commissioning of Recessed decorative LED down lighter of 15W complete with electronic driver, wiring, heat sink, opal acrylic	No.s	12	
52	Supply, installation, testing and commissioning of Recess mounted lumanaire of 1' X 1' flat type modular 18W LED light fixture complete with electronic driver, wiring, heat sink, opal acrylic diffuser etc. suitable for gyp board or metric false ceiling. The fixture shall be provided with atleast three nos. 20mm dia knock out holes on the top side for fixing down rods and wiring purpose.	Nos.	9	
51	LIGHTS & FIXTURES  Supply, installation, testing and commissioning of Recess mounted lumanaire of 2' X 2' flat type modular 36W LED light fixture complete with electronic driver, wiring, heat sink, opal acrylic diffuser etc. suitable for gyp board or metric false ceiling. The fixture shall be provided with atleast three nos. 20mm dia knock out holes on the top side for fixing down rods and wiring purpose.	Nos.	42	
50	Supply & Installation of 25x3 mm tinned Copper Earth Bench of 30 cm long for termination of main earth conductors and other interconnections.	Nos.	2	
49	Supplying and laying earth continuity wire of 8 SWG GI insulated wire in 20 mm dia PVC conduit on the wall from earth pit to starting point of the line earth connector.	RM	60	
48	Providing standard GI pipe earth station, with 100 mm dia 2500 mm long G I Pipe including excavation, construction of brick masonry chamber providing meshed funnel, electrode, watering pipe, charcoal and salt fill, CI cover completely as per IS 3043-1987 or latest revision. The rates to be inclusive of suplly and laying of 8 SWG GI wire in 20 mm dia pvc conduit from earth pit to DB	Set	2	
47	Supplying and laying earth continuity wire of 8 SWG Cu insulated wire in 20 mm dia PVC conduit on the wall from earth plate to starting point of the line earth connector.	RM	45	