

SCHEDULE OF QUANTITIES				
ELECTRICAL INSTALLATION WORKS				
AT NEW PREMISES OF NAVAL BASE BRANCH				
S. No.	Description	UOM	Qty.	Rate (Rs.)
	FUSE LINKS			
1	Supply, installation, Testing and commissioning of minimum 200 Amps Porcelain Fuse Unit Set for 3 phase, 4 wire, 415± 10 Volts supply firmly fixed on adequate thick insulation sheet and arranged as per Site/ Banks requirement. (suitable for commercial type load)	Set	1	
	MAIN PANEL			
2	Supply, installation, testing and commissioning of Floor mounted Main LT Panel of front operated, enclosed with vermin proof and non drawout cubicle type fabricated out of 2 mm thick CRCA sheet and powder coated after 7 tank treatment. The Panel shall be incorporated with sleeved copper dual busbars of adequate current carrying capacity, Earthing legs, 2 sets of RYB LED indicators, 2 sets of multimeters for Voltage, Current, KWH reading and below mentioned switch gears/ accessories Incomer: EB: 160Amps, 4P, 25 kA, MCCB with rotary type handle COS: 100Amps, 4P, 25 kA with rotary handle Outgoing: On EB: 63 Amps, 4P, 16 kA, MCCB, 1 Nos. with rotary handle 63 Amps, 4P, 16 kA, MCCB, 1 Nos. with rotary handle On COS: 63 Amps, 16 kA, 4P, 2 Nos. 32 Amps, 16 kA, DP, 1 Nos. 63 Amps, 16 kA, DP, 2 Nos. 16 Amps, 16 kA, DP, 2 Nos. Panel shall be designed as per IS standards	Set	1	
	APFC PANEL			
3	Supply, installation, testing and commissioning of Wall mounted type Portable Automatic Power Factor Control Panel (APFC Panel) of rating 17.0 KVAR (5+5+3+2+1+1) housed in powder coated 16 SWG CRCA Sheet with 3 Indicators for incomer power supply + 5 stage APFC relay + required contactors + control MCBs + ON Indicators + individual push buttons for ON & OFF Operation + CT of 75/5A (or any suitable) Ratio + Auto / Manual Switch + Ammeter (0-50A) & Volt Meter (0-600V) with individual Phase Selector Switches.	No.s	1	
	AC DB			

4	<p>Supply, installation, testing and commissioning of double door 4 way VTPN DB (IP43, IK08 & approved make) comprising of</p> <p>Incomer: 63 Amps, 4P, MCB Outgoing: 2 No.s 40 Amps TP MCB (for 8.5Tr AC)</p> <p>at out going with inter connection in PVC insulated color coded wire in PVC conduit cable socket including loop earth connection to earth busbars 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.</p>	No.s	1	
LIGHTING DB				
5	<p>Supply, installation, testing and commissioning of 8 way PPI DB (Compact) with</p> <p>Incomer: 63 Amps 4P MCB Outgoing: 3 X 1 No.s 2P 32 Amps 30 ma ELCB for each phase 3 x (8 No.s, 10-16A, SP, MCBs)</p> <p>to individual Switch Board circuits, BM, CO Ac's, etc as per Banks requirement.</p>	No.s	1	
RAW POWER DB				
6	<p>Supply, installation, testing and commissioning of 6 way PPI DB (Compact) with</p> <p>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, 10-16A, SP, MCBs)</p> <p>to individual Switch Board circuits, BM, CO Ac's, etc as per Banks requirement.</p>	No.s	1	
UPS DISTRIBUTION BOARDS				
7	<p>Supply, installation, testing and commissioning of 8 way double door SPN DB with</p> <p>Incomer: 63 Amps, 2P, MCB Outgoing: 2 No.s 32 Amps, DP, MCB's</p> <p>to individual Switch Board circuits</p>	No.s	1	
8	<p>Supply, installation, testing and commissioning of 12 way double door SPN DB with</p> <p>Incomer: 32 Amps, 2P, MCB Outgoing: 8 No.s 10-16 Amps, SP, MCB's</p> <p>to individual Switch Board circuits</p>	No.s	2	

AC POINTS			
9	Supply, installation, testing and commissioning of 25A industrial plug socket in metal clad without MCB	No.s	3
MCB :			
10	Supply & fixing of 63 Amps 2P MCB in suitable metallic box (for UPS Input & Output)	Nos.	4
11	Supply & fixing of 25 Amps 2P MCB in suitable metallic box (for Local control of Branch Manager, Cash Officer & VIP lounge AC)	Nos.	3
12	Supply & fixing of 32 Amps 4P MCB in suitable metallic box (for Local control of Banking Hall AC)	Nos.	2
2P COS:			
13	Supply and Installation of 63 A DP Changeover switch MCB type in suitable separate metallic enclosure.	Set	2
CABLE LAYING AND TERMINATIONS :			
14	Supply & Laying of following 1100V grade armored cable having sector / circular shaped aluminum conductor XLPE insulated cores, laid up, PVC tape wrapped 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.		
a	3.5 x 95 sq.mm AYFY Cable	Mtr.	0
b	3.5 x 70 sq.mm AYFY Cable	Mtr.	63
c	3.5 x 50 sq.mm AYFY Cable	Mtr.	0
d	4 x 35 sq.mm AYFY Cable	Mtr.	0
e	4 x 25 sq.mm AYFY Cable	Mtr.	45
f	4 x 16 sq.mm AYFY Cable	Mtr.	145
15	End termination of the following size of cables using flange type cable glands and heavy duty tinned aluminium crimping type cable sockets including gland earthing.		
a	3.5 x 95 sq.mm AYFY Cable	Nos.	0
b	3.5 x 70 sq.mm AYFY Cable	Nos.	2
c	3.5 x 50 sq.mm AYFY Cable	Nos.	0
d	4 x 35 sq.mm AYFY Cable	Nos.	0
e	4 x 25 sq.mm AYFY Cable	Nos.	2
f	4 x 16 sq.mm AYFY Cable	Nos.	12
WIRING			
Circuit / Sub circuit Wiring :			
16	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.		
a	3 runs x 2.5 sq.mm PVC Copper wire in 2 mm thk, 20 mm dia conduit (for O/L)	Mtr.	45

b	3 core x 6 sq.mm PVC Copper flexible cable in 2 mm thk, 20 mm dia conduit (for Main Panel to UPS-1,2 UPS-1,2 to COS)	Mtr.	57	
c	3 runs x 6 sq.mm PVC Copper wire in 2 mm thk, 25 mm dia conduit (for UPS COS to UPS DB, SUB DB)	Mtr.	75	
DESK/ WORK STATION WIRING				
17	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.			
a	UPS Primary point for SWC & branch Manager table: 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	10	
b	UPS 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 switch above the table / counter. The boxes are to be fixed on the partitions by suitably chiseling / cutting, making good the damage.	Set	9	
c	UPS Point for Network/ LAN switch in branch Manager room with 4 no. 6A sockets to be controlled by one no. 16 A modular switch as per site requirement. The boxes are to be fixed on the partitions by suitably chiseling / cutting, making good the damage.	Set	3	

18	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.			
a	Raw power point for SWC and other work stations: 3 no. 6A sockets fixed above 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	10	
b	Raw Power Secondary point (Looping from above primary point) for SWC & branch Manager table: 3 no. 6A sockets fixed above 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	8	
c	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	7	
GENERAL WIRING				
19	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.			
a	2 no. of lights controlled by one switch	Set	45.00	
b	1 no. of lights by one switch.	Set	75.00	

c	Wall bracket fans / exhaust fan controlled by 6A switch at switch board and 1 no. 6 A socket in MS box at ceiling level.	Set	27.00	
d	Ceiling fans with electronic regulators	Set	21.00	
e	6 A plug socket controlled by 6 A switch on the same switch board.	Set	18.00	
20	Supply, installation, testing and commissioning of LED indicator lamps (with Voltage reading indication) (R, Y, B) with 3 no.s lamp holders and 3 nos. 5 A switches 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	
21	Wiring for glow sign board with 3 runs 4 sq.mm 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 PVC junction boxes, bends, saddles, screws etc.	Set	2	
22	Supply, installation, testing and commissioning of 1.1 kV grade 3 core 2.5 sq. mm flexible copper cable 3 meter length connected at one end with 15 A three pin socket and other end connected permanently to the switch board of safe room / locker room	Set	3	
	AC Point (1-Ph) :			
23	Supply all materials and wiring through wall floor etc, concealed as per colour code with following rating P V C insulated stranded copper wire in 2mm thk PVC pipe upto end terminations (DB to AC Terminal point). Note: Any Local/ remote control accessories between the circuit shall be omitted for measurement.			
a	3 x 4.0 sq mm (1-phase)	No's	3	
b	5 x 4.0 sq.mm (3-phase)	No's	2	
	TELEPHONE			
24	Supplying and laying of 2 pair 0.5mm dia telephone cable of tinned copper conductor in PVC conduit of suitable size from crone to each telephone socket and RJ – 11 telephone sockets with suitable mounting box of modular type, including all inter connections as required and directed.	No.s	10	
25	Supply, installation, testing and commissioning of 20 pair krone connector in a suitable box as required and directed.	No.s	1	
26	Supply and laying of ISI marked 25mm dia medium grade PVC conduit concealed/ flushed in wooden partition or wall for data cabling with fish wire and from Work station upto false ceiling level as directed by Banks Engineer.	RM	210	
	EARTHING			

27	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 1.5Mtr,below the ground level with 25 X 3 flat Cu strip fixed to the plate and 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.	Set	1	
28	Supplying and laying earth continuity wire of 2 runs of 10sqmm Cu insulated wire in 20 mm dia PVC conduit on the wall from earth plate to the earth bench.	RM	54	
29	Providing standard GI pipe earth station, with 100 mm dia 2500 mm long GI 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 suply and laying of 8 SWG GI wire in 20 mm dia pvc conduit from earth pit to DB	Set	1	
30	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 the earth bench.	RM	30	
31	Supply & Installation of 25x3 mm tinned Copper Earth Bench of 30 cm long for termination of main earth conductors and other interconnections.	Nos.	1	
LIGHTS & FIXTURES				
32	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.	27	
33	Supply, installation, testing and commissioning of Recessed decorative LED down lighter of 15W complete with electronic driver, wiring, heat sink, opal acrylic diffuser etc. suitable for gyp board or metric false ceiling.	No.s	36	
34	Supply, installation, testing and commissioning of 18 W - 22W LED batten (4 ft. length) along with all other connections & accessories rrequired.	No.s	27	
35	Supply, installation, testing and commissioning of 9W - 10W LED batten (2 ft) suitable for indoor application.	No.s	12	
36	Supply, installation, testing and commissioning of 15-18W True ceiling mounted Down light (LED) fittings/ Portico light fittings.	No.s	5	
37	Supply, installation, testing and commissioning of 12W Bulk head LED light fittings suitable for outdoor application.	No.s	18	

38	Supply, installation, testing and commissioning of Exhaust fan 300 mm sweep and metal body of Crompton / Bajaj /Usha / Havell's make	No.s	7	
39	Supply, installation, testing and commissioning of Ceiling fans of 1200 mm sweep Crompton/ Bajaj/ Usha/ Havell's make	No.s	21	
40	Supply, installation, testing and commissioning of Metal body Wall bracket fan 400 mm Crompton/Bajaj/Usha/Havell's make	No.s	15	
41	Supply and Installation of 200 mm sweep Portable Table Top fans. (Crompton Greaves / Usha / Havells)	Nos.	15	
42	Supply, installation, testing and commissioning of battery operated Call buzzer for Branch Manager chamber along with battery set.	Set	1.00	
43	Supply, installation, testing and commissioning of Security lighting with designer LED street light with pressure die cast housing of 40 Watt capacity including supporting pole & clamps.	No.s	3	
	MISCELLANEOUS			
44	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	
45	Charges for preparation of single line diagram of the whole electrical installation using AutoCAD, lamination and displaying it inside the UPS room.	Lot	1	
46	Supply and providing of 1mtr. x 2mtr. size (Approx.) x 2.5-3mm thick electrical grade minimum class B rubber insulation mat in Electrical / UPS Room.	Nos.	1	
47	Supplying and fixing of Electric shock treatment chart in Trilingual (Telugu, Hindi and English) of minimum 50cm X 70cm size with water proof laminate and adequate frame including wall fixing arrangements in Electrical/ UPS room.	Nos.	1	
48	Supply and providing gauntlet type Rubber gloves of minimum 1100V grade (type-2) in Electrical/ UPS room.	Nos.	1	
	MASTER CONTROL			
49	Supply, Installation, testing and commissioning of 1 No's 63 Amps 4P, 1 No's 63 Amps 4P isolators within a single metal enclosure/ DB, fixed/ recessed in the wall at entrance of branch premises with all other terminations required etc. (For Master Control of AC & LDB at Branch Entrance)	Set	1	
	GRAND TOTAL:			

Note:

1. GST as applicable shall be paid extra.
2. All materials shall be selected by the SBI officials or Engineer-in-charge before execution.
3. All the quantities are approx and executed as per site requirement.
4. The Bank reserves the right to select any of the brands indicated in the "List of Approved Makes" incase of delay in delivery of ordered 'make of item'.

5. The contractor cannot claim anything extra if the Bank changes the make but within the list of approved make.
6. Bidder shall visit/ inspect the site before quote.

Amount (Rs.)
0.00
0.00
0.00

0.00

0.00

0.00

0.00

0.00

0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00

0.00

0.00

0.00

0.00

0.00

0.00
0.00
0.00
0.00
0.00

0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00