

CLIENT : STATE BANK OF INDIA					
SUBJECT: ELECTRICAL PANEL WORKS AT AO, AURANGABAD					
No.	PARTICULARS	QTY.	UNIT	RATE	AMOUNT
A	SECTION - A				
	MAIN/CAPCITOR PANEL & DBS				
	<p>Supply, Installation & Commissioning of following Main Distribution Panel as per specification enclosed.</p> <p>System: 415V AC, 3-PH, 50Hz, Fault Level 50KA for 1-sec.</p> <p>Construction: Free Standing Floor/ Wall Mounting, Non-draw out & Compartmentalized.</p> <p>Fabrication: Base: 5 X 75mm Fabricated Channel</p> <p>Frame: 14 SWG Thick CRCA Sheet Steel.</p> <p>Covers/ Doors: 16 swg thick CRCA Sheet Steel.</p> <p>Degree of Protection: IP-42.</p> <p>Painting: Two coats of Primer & finish with Epoxy paint.</p> <p>Based Paint Shade: External/ Internal: Siemens Gray 7032, Semi Glossy.</p> <p>Base Channel: Black.</p> <p>Cable Entry: Bottom/ Top 3mm Thick CRCA Sheet Steel Detachable Gland plate.</p> <p>Busbars: Electrolytic grade Cu Busbares supported on SMC supports.</p> <p>The Busbar system is suitable for 415V, 3PH, 50Hz with fault withstanding capacity of 50KA for 1s.</p> <p>Heat shrinkable PVC sleeves & color code for phase identification provided.</p> <p>Earth Busbar: 1 X 25 X 6mm Cu.</p> <p>Minimum Busbar Clearances: Phase to Phase: 25.4mm</p> <p>Phase to Neutral: 25.4mm</p> <p>Phase to Ground: 25.4mm</p> <p>Neutral to Ground: 19.4mm</p> <p>Live Part to Ground: 19.4mm</p> <p>Wiring: The wiring will be carried out with 650/1100V grade PVC insulated stranded copper conduct</p> <p>Control Circuit: 1.5 Smm</p> <p>C.T. Circuit: 2.5 Smm</p> <p>Switch Fuse Unit/ MCB/MCCB: 32A = 6 Smm, 63A = 16 Smm, 125A = 35 Smm, 250A = 40 X 5 Cu Bus-Bar</p>				
A	<p>Note :- GA & Control Drawing of the panel shall be approved by the Bank before fabrication. (Panel shall be CPRI approved only.complete with fabrication, Switch gear installation. Internal wiring and Test Certificate</p>				
A1	MAIN DISTRIBUTION PANEL	1	No.		
a	Incomings -				
	<p>i) 1 no. of 630A MCCB 3-Pole setable for 450A with 36KA Breaking capacity with Rotary Handle.</p> <p>ii) R-Y-B Phase LED type indicating Lamps, with 0.5A protection MCBs.</p> <p>iii) 100 X 100mm Danger Notice Board in English & Marathi.</p> <p>iv) Digital Multi-Function Energy meter of L&T or equivalent with CT's Class 1.0, 15 VA, & required ratio.</p>				
b	Outgoing:				
	<p>i) 7 nos. of 250A FP 36kA MCCB with Rotary Handle Hager/Legrand make & R-Y-B Phase LED type Indicating Lamps.</p>				
2	LIGHTING DISTRIBUTION PANEL	1	NO.		
a	Incomings -				
	<p>i) 1 no. of 315A 3P 50ka MCCB with Rotary Handle Hager/Legrand make.</p> <p>ii) R-Y-B Phase LED type Signal Lamps Teknic, with 0.5A protection MCBs.</p> <p>iii) 100 X 100mm Danger Notice Board in English & Marathi.</p> <p>iv) Digital Voltmeter & Ammeter of HPL, L&T, Meco or equivalent with CT's of Class 1.0, 15 VA, & required ratio</p>				
b	Outgoing:				
	<p>i) 2 nos. of 120A 3P 36kA MCCB with Rotary Handle Hager/Legrand make & R-Y-B Phase LED type Indicating Lamps.</p> <p>ii) 18 nos. of 63A FP 36kA MCB with Hager/Legrand make (All MCB'S must be 'C' series, 10 KA)</p>				
4.0	POWER DISTRIBUTION PANEL	1	NO.		
a	Incoming				

	i) 1 no. of 315A FP 50kA MCCB with Rotary Handle Hager/Legrand make. ii) R-Y-B Phase LED type Signal Lamps Teknic, with 0.5A protection MCBs. iii) 100 X 100mm Danger Notice Board in English & Marathi. iv) Digital Voltmeter & Ammeter of HPL, L&T, Mecro or equivalent with CT's of Class 1.0, 15 VA, & required ratio				
b	Outgoing:				
	i) 8 nos. of 200A 3P 36kA MCCB with Rotary Handle Hager/Legrand make & R-Y-B Phase LED type Indicating Lamps.				
TOTAL OF SECTION A					
No.	PARTICULARS	QTY.	UNIT		
B	SECTION - B				
1	POWER CABLE & TERMINATION				
a	Supplying, Installation, Testing & Commissioning of LT Cable rated for 1100 Volts AC as per IS Standard with necessary accessories with fine resistance cable.Rates are inclusive of LT Cable Termination of CU/AL with respective following size cable (Make: - Dowells /Jainsons) (Make: - Finolex-FR / Polycab Havells)				
a1	3.5 Core X 120 Sq.mm. Aluminum Armoured cable from Meter Room to MPDB with 8 swg GI wires for earthing	30	Mtrs.		
a2	3.5 Core X50 Sq.mm. Aluminum Armoured cable with 8 swg GI wires for earthing	55	Mtrs		
a3	4 Core X 16 Sq.mm. Cu. Armoured XLPE Cable	75	mtrs		
a4	4 Core X 10 Sq.mm. Cu. Armoured XLPE Cable	60	Mtrs.		
a6	3 Nos. X 10 Sq.mm. PVC insulated Copper flexible cable in 32mm pvc pipe with suitable size PVC Glands for Termination for UPS	30	Mtrs.		
a7	3 Nos. X 2.5 Sq.mm. PVC insulated Coppe rArmoured cable	65	Mtrs		
TOTAL OF SECTION B					
No.	PARTICULARS	QTY.	UNIT	RATE	AMOUNT
J	SECTION - C				
	MISCELLANEOUS WORK				
1	SITC GI Chemical Earthing- Supply, Installation, Connection, Testing and Commissioning of maintenance free heavy duty earthing GI chemical electrode of 50 mm dia, wall thickness 16 gauge and 3 meter length with internal conductor of GI of (30x6) mm along with 60 kg bag of Back fill compound (highly conductive, non corrosive moisture retaining chemical) complete with excavation , civil works including top 300 mm deep one brick thick masonry chamber & good quality soil, water puring arrangements with cast iron cover and with arrangements for fitting/termination of G.I. flats/wire with G.I. nut bolts . The voltage between Neutral and earth not to exceed 0 Volts and IR value less than 1 ohm. The earth resistance shall be as per IS 3043.	4	NOS.		
2	SITC Copper Chemical Earthing - Supply, Installation, Connection, Testing and Commissioning of maintenance free heavy duty pure electrolytic copper chemical earthing electrode of 50 mm dia, wall thickness 16 gauge and 3 meter length with internal strip of copper (25x6)mm along with 60 kg bag of Back fill compound (highly conductive, non-corrosive moisture retaining chemical) complete with excavation , civil works including top 300 mm deep one brick thick masonry chamber & good quality soil, water puring arrangements with cast iron cover and with arrangements for fitting/termination of G.I. flats/wire with G.I. nut bolts. The voltage between Neutral and earth not to exceed 0 Volts and IR value less than 1 ohm. The earth resistance shall be as per IS 3043.	1	NOS.		
3	S//T/Commissioning of 1 No. of 10 Sq.mm. single core PVC flexible copper wire for UPS in 25mm PVC conduit with all required accessories etc.	35	Mtrs.		
3a	S//T/Commissioning of 25mm X 3mm GI Earthing Strip.	80	Mtrs.		
	Supplying, Installation, Testing & Commissioning of LT Cable rated for 1100 Volts AC as per IS Standard with necessary accessories with fine resistance cable.Rates are inclusive of LT Cable Termination CU or AL (Make: - Dowells /Jainsons)				
	3.5 Core X 70 Sq.mm. Aluminum Armoured cable from Meter Room to MPDB with 8 swg GI wires for earthing	110	Mtrs.		
D	Buy Back Of old Ditribution,Power,And Lighting Panels Only	1	Lot		

No.	PARTICULARS	QTY.	UNIT	RATE	AMOUNT
SUMMARY					
A	SECTION A				
B	SECTION B				
C	SECTION C				
	TOTAL(Exclusive Of GST)				
D	Buy Back Value (Inclusive Of GST)				
	GRAND TOTAL(A+B+C)-D				