

SBI INFRA MANAGEMENT SOLUTIONS PVT LTD (SBIIMS)
(WHOLLY OWNED SUBSIDIARY OF SBI)
CIRCLE OFFICE, PATNA
SCHEDULE OF WORKS: ELECTRICAL WORKS
PROJECT: GOPALPUR BRANCH UNDER RBO-MUNGER

Sl No.	Item Description	Unit	Qty.	Rate(Rs)	Amount(Rs)
PART A- ELECTRICAL WIRING FOR COMPUTERS, COUNTERS, LIGHTS & FAN POINTS WIRING					
1	Supplying, laying, testing & commissioning of PVC insulated aluminium armoured 1.1 KV grade 3.5 core 50 sqmm cable from Pole to Main panel with making proper trench/support as per IS specification and complete with all respect as per the instruction of Engineer-In-Charge.	Mtr.	50		
2	<p>MAIN INCOMING SOURCE PANEL (MISP) : SITC of main incoming (MIP) Panel suitable for wall /floor mounted indoor type, air insulated, totally enclosed vermin-proof (IP 42), dead front, cubicle type, 2 mm thick sheet steel enclosure use on 415 V, 3 Ph., 4 wire, 50 Hz. A.C. system, instrumental panel, CTs, incoming and outgoing cable comparten. The Panel shall be complete with switches as per site requirement, inter connection, G.I. earth busbar of adequate size covering the total length of switch board with drilled holes, G.I. bolts, nuts, washers etc. as directed by E-I-C. The cubicle should be painted with two coats of light grey synthetic enamel paint over two coats of zinc chromate primer. The complete fabrication, construction shall be done as per the site condition and conforming to the relevant IS. Name plate of Panels Danger Board, incoming and outgoing feeders with Ampere rating of switches are to be fixed up on front door above or below the respective switches. Approval of Manufacturer's drawings from EIC. The Panel consists of the following</p> <p>INCOMING : 1 No. 415V, 200A 4P MCCB (35 KA); 1 No. 415V, 160A 4P On-Load Changeover Switch; 1 No. : Digital Multi Function Meter (MFM) for Current, Voltage, Frequency, Power; 3 Nos.: LED Phase indicating lamps; 3 Nos.: Suitable CTS PVC sleeved TPN Tinned Copper Busbar 200 Amp. for phases and neutral; G.I. EARTH BUSBAR 25mm x 3mm covering the total length of panel.</p> <p>OUTGOING :</p> <p>Termination I: (To be connected with Change Over)</p> <p>(i) 1 No. 63 A (25KA) 4P MCCB for E-lobby supply</p> <p>(ii) 2 Nos. 63A (10 KA) TPN MCB</p> <p>(iii) 6 Nos. 32-63A (10 KA) DP MCB for UPS Incoming, BM AC, System AC & LDBs etc.</p> <p>Termination-II: (Not to be connected with Change Over)</p> <p>(i) 1 Nos. 63A (25KA) 4P MCCB for ACDB</p>				
3	<p>(A) UPS INCOMING DB: Supply of all required materials and fixing of input UPS box (Company made) having provision of the following arrangement complete with all respects per the direction of engineer in charge.</p> <p>2 No. 63A (10KA) DP MCB</p>	No.	1		

	<p>(B) UPS OUTGOING DB: Supply of all required materials and fixing of output UPS box (Company made) having provision of the following arrangement complete with all respects per the direction of engineer in charge.</p> <p>Incoming: 1 no. 63 A DP MCB</p> <p>Outgoing: 2 No. 40A (10KA) DP MCB</p>	No.	1		
4	<p>ACDB / RAW POWER DB/ LIGHT DB / COMPUTER DB:</p> <p>Supply and installation of following metallic double door MCB Distribution Board with MCB having breaking capacity of 10 KA (minimum) complete with busbar, interconnection, painting, mounted on flat iron frame on wall/flushed with finished wall by chase cutting, mending good to original finish painting etc. as required. Name plate & number of DBs are to be fixed up on front door of DBs for their identification.</p>				
a	<p>ACDB & LDB: Consumer unit TPN MCB DB complete with busbar and the following MCBs.</p> <p>INCOMING : 1 No. 415V 63A 10KA FP MCB</p> <p>OUTGOING : 8 Nos. 240V 32A 10 KA SP MCB</p>	No.	1		
b	<p>CDB : Consumer unit SPN MCB DB complete with busbar and the following MCBs.</p> <p>INCOMING : 1 No. 415V 32A 10KA DP MCB</p> <p>OUTGOING : 8 Nos. 240V 10A - 16A 10 KA SP MCB</p>	No.	2		
c	<p>LDB / RPDB: Consumer unit SPN MCB DB complete with busbar and the following MCBs.</p> <p>INCOMING : 1 No. 415V 32A 10KA DP MCB</p> <p>OUTGOING : 8 Nos. 240V 16A 10 KA SP MCB</p>	No.	2		
5	<p>SUBMAIN WIRING Supply & laying of submain wiring with following sizes 1100 V grade, single core, PVC insulated multi stranded copper conductor wire (IS:694) in pre - laid (as per ISI) M.S. conduit including interconnection, painting etc. as required to be completed in all respect.</p>				
a	With 4 nos. 10 Sq.mm + 1 nos. 2.5 Sq.mm. (green colour for earth) PVC insulated copper wire from Main panel to ACDBs & Main panel to E-Lobby DB.	Mtr.	40		
b	With 2 nos. 6 Sq.mm + 1 no. 2.5 Sq.mm. (green colour for earth) PVC insulated copper wire from Main panel to UPS Incoming DB/ UPS Outgoing to UPS O/G DB/CDB/Main panel to RPDB.	Mtr.	60		
c	With 2 Nos. 4 Sq.mm. + 1 No. 2.5 Sq.mm. (green colour for earth) PVC insulated copper wire from Main panel to BM & System AC / ACDB to AC power point / LDB to Switch board.	Mtr.	120		
e	With 2 Nos. 2.5 Sq.mm. + 1 x 1.5 Sq.mm. (green colour for earth) PVC insulated copper wire as required.	Mtr.	25		

6	(A) COMPUTER SOCKET OUTLET Computer socket outlet cluster point including supply and fixing of modular type socket outlet clusters components complete in all respect as detailed below. Each computer socket outlet cluster comprising the following 6 Nos. 6/10A 5 pin modular type International sockets 1 No. 16A modular type common controlling switch with indicator on table top with 2 Nos. 2.5 Sq.mm. + 1 x 1.5 Sq.mm. PVC insulated copper wire in pre - laid (as per ISI) M.S. conduit including interconnection, painting etc. as required to be completed in all respect from CDB to Computer point.	No.	6		
	(B) COMPUTER SOCKET OUTLET Computer socket outlet cluster point including supply and fixing of modular type socket outlet clusters components complete in all respect as detailed below. Each computer socket outlet cluster comprising the following 3 Nos. 6/10A 5 pin modular type International sockets 1 No. 16A modular type common controlling switch with indicator on table top with 2 Nos. 2.5 Sq.mm. + 1 x 1.5 Sq.mm. PVC insulated copper wire in pre - laid (as per ISI) M.S. conduit including interconnection, painting etc. as required to be completed in all respect from CDB to Computer point.	No.	8		
	(C) RAW POWER SOCKET OUTLET Raw power socket outlet cluster point including supply and fixing of modular type socket outlet clusters components complete in all respect as detailed below. Each computer socket outlet cluster comprising the following 2 Nos. 16/20A 5 pin modular type International sockets. 1 No. 16/20A modular type controlling switch with 2 Nos. 2.5 Sq.mm. + 1 x 1.5 Sq.mm. PVC insulated copper wire in pre - laid (as per ISI) M.S. conduit including interconnection, painting etc. as required to be completed in all respect from RPDB to Raw Power Outlet.	No.	5		
7	Supply & fixing of Company made approved metal clad socket with 25A SP MCB (2 nos. to be fixed at E-Lobby)	No.	9		
8	Supply & installation of Company made 160 A TPN Switch fuse unit with enclosure to be fixed near Main Panel.	No.	1		
9	(A) Copper plate Earthing: Supply of material and installation of earth electrode made out of 50mm dia class B G.I. pipe of 2.5 metre long with arrangements for fitting./termination of copper wire with G.I. nut bolts, washers and 600x600x3 mm size copper plate including cost of charcoal salt and good quality soil, water pouring arrangements, brick masonry enclosure on top with removable CI cover and complete with labour for excavation of pit conforming of IS: 3043/1987 and as per direction of Engineer-in-charge	No.	1		

	(B) Chemical Earthing: Supply of material and installation of earth electrode made out of 50mm dia class B G.I. pipe in pipe of 3 metre long with arrangements for fitting/termination of G.I. flats/wire with G.I. nut bolts and washers including cost of backfill compound and good quality soil, water purging arrangements, brick masonry enclosure on top with removable CI over complete with labour for excavation of pit conforming to IS: 3043/1987 and as per direction of Consultant or Engineer-in-charge	No.	1		
10	Supply of materials, laying under ground/walls/floor, making end termination and testing of 2x6 mm multistrand copper wire to be inside PVC. Conduit cables laid from earth pit to UPS Outgoing DB and complete as per direction of Engineer-in-charge	Mtr.	50		
11	Supply of materials, laying under ground/walls/floor making end termination and testing of G.I. flat (25x3mm) laid from GI pipe earth pit to main panel as per direction of E-I-C	Mtr.	50		
12	POINT WIRING: Point wiring with 1100 V grade 3 nos. single core 1.5 sq.mm. and 1 for earth PVC insulated stranded copper conductor wire (IS:694) through suitable size M.S. conduit (ISI marked embossed on conduit surface) by thred cutting, complete with junction box, circular box, elbows, bends, couplers and other accessories on surface above false ceiling or concealed by chase cutting on wall from light & fan switch board to light, fan & 6A socket outlet on the same switch board or separately mounted switch board. The work includes supply and fixing of all materials such as modular type 6A switch for light and fan point, 6A 2/3 pin shuttered socket outlet with switch in each switch board, 3 plate ceiling rose / angle or batten holder etc. as required. The point wiring also includes circuit wiring with 1100 V grade 2 nos. single core 2.5 sq.mm. + 1 no. single core 1.5 sq.mm. PVC insulated stranded copper conductor cable (IS:694) through suitable size M.S. conduit as described above from DB to switch board, interconnection, mending good all damages to original finish, painting etc.				
A	1 Light control by 1 switch	Nos.	20		
B	2 Light control by 1 switch	Nos.	20		
C	Glow sign board wiring	No.	2		
D	Exhaust fan point	Nos.	6		
E	Ceiling fan point with supply and fixing of Electronic Regulator (2 module step, 120 watt rating)	Nos.	5		
F	1x16A 2/3 pin modular socket with switch on separate switch board outside the Cash Room and Locker Room complete with wiring. Suitable Top to be provided for supply to Cash Room.	Nos.	1		
G	3 pin 6/10A modular socket with switch in each board	Nos.	10		

13	Supply and fixing of ding-dong calling bell with complete wiring in BM's Chamber as per direction of E-I-C	Nos.	1		
PART B-SUPPLY AND FITTING OF ELECTRICAL FITTINGS					
14	Supply & Fixing of 36W-2'x2' LED Panel light recessed mounted of Syska / Phillips / Wipro / CG / HPL / Mescab make complete with all accessories. Syska cat no. SSK-PAB-6060-B of lumens >3000.	Nos.	22		
15	Supply & Fixing of 15W LED Downlighter recessed mounted of Syska / Phillips / Wipro / CG / HPL / Mescab make complete with all accessories.	Nos.	20		
16	Supply & fixing of 18W LED T5 Batten fitting Syska / Phillips / Wipro / CG / HPL complete with all respect.	Nos.	12		
17	Supply & fixing of 35W LED Street Light with suitable mounting pipe & CFL Lamp etc. of Syska / Phillips / Wipro / CG / HPL complete in all respect	Nos.	2		
18	Supply & fixing of 9W LED bulb Syska / Phillips / Wipro / CG / HPL in UPS Toilets complete with all respect.	Nos.	5		
19	Supply & fixing of wall fan complete with all respect. (Make: Polar, Orient, CG, Havells, Usha,)	Nos.	15		
20	Supply & fixing of Ceiling fan complete with all respect. (Make: Polar, Orient, CG, Havells, Usha,)	Nos.	4		
21	Supply & fixing of Exhaust fan complete with all respect. (Make: Polar, Orient, CG, Havells, Usha,)	Nos.	6		
PART C – AIR CONDITIONING WORK					
22	Air Conditioners :- Supply and installation of Split Type 1.5 tonne capacity Air-Conditioners of (Voltas/Blue star/hitachi/carrier/o-general/LG/Panasonic) including 4 KVA automatic stabiliser of v guard/Sen & Pandit and fixing of outdoor units with steel stand all accessories complete in all respect. (2 nos. AC to be installed at E-Lobby)	Nos.	8		
23	Air Conditioners :- Supply and installation of Split Type 1.0 tonne capacity Air-Conditioners at system room with suitable timer for timely interval of changeover of ACs of (Voltas/Blue star/hitachi/carrier/o-general/LG/Panasonic) including 4 KVA automatic stabiliser of v guard/Sen & Pandit and fixing of outdoor units with steel stand all accessories complete in all respect.	Nos.	2		
24	Supply & installation of Extra copper pipe with insulation if required.	Mtr.	40		
25	Supply & installation of Extra drain pipe if required.	Mtr.	40		
PART D- LAN CABLING WORK					
26	Supplying and installation of switch 24 ports 10/100 BASE-TX ports, Switch as approved by the Bank. (Make: D Link, HCL, AMP, CISCO)	No.	1		

27	Supplying and installation of switch 24 ports Patch Panel as approved by the Bank. (Make: Legrand, D Link)	No.	1		
28	Supply of 2 mtr. Long E-CAT 6 PATCH CHORD (Make: D-LINK, AMP, HCL, Legrand)	Nos.	14		
29	Supply of 1 mtr. Long E-CAT 6 PATCH CHORD (Make: D-LINK, AMP, HCL, Legrand)	Nos.	14		
30	Supply and laying of E-CAT 6 UTP cable for the Data Circuit through the PVC conduit, Rate to include for termination on both end or as directed by E-I-C. (MAKE- D-LINK, AMP, HCL)	Mtr.	500		
31	Supply and fixing of information outlet box suitable for RJ 45 terminals including mounting box (PVC) & top cover, to be fixed a concealed manner in partition by necessary bolts & nuts or as directed at site. (MAKE- D-LINK, AMP, HCL, Legrand)	Nos.	20		
32	Supply & installation of 9U Rack with power supply arrangement, ventilation fan, mounting racks ect. Complete with all accessories. Make: VALRACK, Legrand, HCL	No.	1		
33	Removing of old unnecessary switchgears, cables, wires, conduit pipe etc. from the existing wiring	Lumsum			
PART E - E-LOBBY WORK					
34	E-Lobby Main DB: Supply & Installation of Company made Consumer unit TPN MCB DB complete with busbar and the following MCBs. INCOMING : 1 No. 415V 63A 10KA FP MCCB OUTGOING : (i) 4 Nos. 240V 32-63A 10 KA DP MCB (ii) 4 nos. 240V 32A 10 KA SP MCB	No.	1		
35	(A) UPS INCOMING DB: Supply of all required materials and fixing of input UPS box (Company made) having provision of the following arrangement complete with all respects per the direction of engineer in charge. 2 No. 63A (10KA) DP MCB	No.	1		
	(B) UPS OUTGOING DB: Supply of all required materials and fixing of output UPS box (Company made) having provision of the following arrangement complete with all respects per the direction of engineer in charge. Incoming: 1 no. 63 A DP MCB Outgoing: 8 No. 16A (10KA) SP MCB	No.	1		

36	POWER SOCKET OUTLET cluster point including supply and fixing of modular type socket outlet clusters components complete in all respect as detailed below. Each computer socket outlet cluster comprising the following 2 Nos. 16/20A 5 pin modular type International sockets. 1 No. 16/20A modular type controlling switch with 2 Nos. 2.5 Sq.mm. + 1 x 1.5 Sq.mm. PVC insulated copper wire in pre - laid (as per ISI) M.S. conduit including interconnection, painting etc. as required to be completed in all respect from UPS outgoing DB to Power Outlet.	Nos.	5		
		Total			

GST will be paid Extra as applicable.