| SBI INFRA MANAGEMENT SOLUTIONS PVT LTD (SBIIMS) | | | | | | | |
|---|---|---------------|------------|----------|------------|--|--|
| | (WHOLLY OWNED SUBSIDIARY OF SBI) CIRCLE OFFICE, PATNA | | | | | | |
| | SCHEDULE OF WORKS: ELECTRICAL W | NDRK C | | | | | |
| | FINALISATION OF UNIT RATES | UNKS | 1 | | | | |
| SI No. | Item Description | Unit | Qty. | Rate(Rs) | Amount(Rs) | | |
| PART | A- ELECTRICAL WIRING FOR COMPUTERS, COUNTERS, LIGHTS & FA | | I NTS W | IRING | | | |
| 1 | Supplying, laying, testing & commissioning of PVC insulated | | - | | | | |
| | aluminium armoured 1.1 KV grade 3.5 core cable of following size | | | | | | |
| | with making proper trench/support as per IS specification and | | | | | | |
| | complete with all respect as per the instruction of Engineer-In- | | | | | | |
| | Charge. | | | | | | |
| а | 3.5 sqmm 185 sqmm cable | Mtr. | 1 | | | | |
| | 3.5 sqmm 150 sqmm cable | Mtr. | 1 | | | | |
| | 3.5 core 120 sqmm cable | Mtr. | 1 | | | | |
| | 3.5 core 95 sqmm cable | Mtr. | 1 | | | | |
| е | 3.5 core 70 sqmm cable | Mtr. | 1 | | | | |
| f | 3.5 core 50 sqmm cable | Mtr. | 1 | | | | |
| g | 3.5 core 35 sqmm cable | Mtr. | 1 | | | | |
| | 3.5 core 25 sqmm cable | Mtr. | 1 | | | | |
| i | 4 core 16 sqmm cable | Mtr. | 1 | | | | |
| 2 | 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 compartmen. 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 | | | | | | |
| | | | | | | | |
| | INCOMING : 1 No. 415V, 200A 4P MCCB (35 KA); 1 No. 415V, 160A | 1 | | | | | |
| | 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, 2 sets of 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. | | | | | | |
| | | | | | | | |

| | | | | | , |
|---|---|----------|------|------------|-----|
| | OUTGOING : | | | 1 | |
| | <u>Termination I:</u> (To be connected with Change Over) | | | 1 | |
| | (i) 1 No. 63 A (25KA) 4P MCCB for E-lobby/ATM supply | | | 1 | |
| | (ii) 3 Nos. 63A (10 KA) TPN MCB | | | 1 | |
| | (iii) 6 Nos. 32-63A (10 KA) DP MCB for UPS Incoming, BM AC, | | | 1 | |
| | System AC & LDBs etc. | | | 1 | l l |
| | <u><i>Termination-II:</i></u> (Not to be connected with Change Over) | | | 1 | |
| | (i) 2 Nos. 63A (25KA) 4P MCCB for ACDB | No. | 1 | ۱ ۱ | |
| 3 | (A) UPS INCOMING DB: Supply of all required materials and fixing | | | | |
| | of input UPS box (Company made) having provision of the | | | l i | l i |
| | following arrangement complete with all respects per the | | | 1 | |
| | direction of engineer in charge. | | | 1 | |
| | Incoming: 1 No. 63A (25KA) TPN MCB | | | 1 | l l |
| | Outgoing: 3 Nos. 63 A (10KA) DP MCB | No. | 1 | 1 | |
| | (B) UPS OUTGOING DB: Supply of all required materials and fixing | | ╉╋╧┥ | ۱ | t i |
| | of output UPS box (Company made) having provision of the | | | 1 | |
| | following arrangement complete with all respects per the | | | 1 | l l |
| | direction of engineer in charge. | | | 1 | |
| | č | | | 1 | |
| | Incoming: 1 no. 63 A DP MCB | NI | | 1 | |
| | Outgoing: 4 No. 40A (10KA) DP MCB | No. | 1 | ۱ <u> </u> | ļ |
| 4 | ACDB / RAW POWER DB/ LIGHT DB / COMPUTER DB: | | | 1 | |
| | Supply and installation of following metallic double door MCB | | | 1 | |
| | Distribution Board with MCB having breaking capacity of 10 KA | | | 1 | |
| | (minimum) complete with busbar, interconnection, painting, | | | 1 | |
| | mounted on flat iron frame on wall/flushed with finished wall by | | | 1 | |
| | chase cutting, mending good to original finish painting etc. as | | | 1 | |
| | required. Name plate & number of DBs are to be fixed up on front | | | 1 | l l |
| | door of DBs for their identification. | | | 1 | l l |
| | | | | 1 | l i |
| 2 | ACDB & LDB: Consumer unit TPN MCB DB complete with busbar | <u> </u> | ╉──┤ | ٩ــــــ | 1 1 |
| a | and the following MCBs. | | | 1 | |
| | INCOMING : 1 No. 415V 63A (10KA) FP MCB | | | 1 | |
| | . , | | | 1 | |
| | OUTGOING : 12 Nos. 240V 32A (10 KA) SP MCB | No. | 1 | ۱ | |
| | <u>CDB</u> : Consumer unit SPN MCB DB complete with busbar and the | | | 1 | l l |
| | following MCBs. | | | 1 | |
| | INCOMING : 1 No. 415V 32A (10KA) DP MCB | | | 1 | |
| | OUTGOING : 8 Nos. 240V 10A (10 KA) SP MCB | No. | 1 | 1 | |
| С | LDB / RPDB: Consumer unit SPN MCB DB complete with busbar | | | ,i | |
| | and the following MCBs. | | | 1 | |
| | INCOMING : 1 No. 415V 32A (10KA) DP MCB | | | 1 | |
| | OUTGOING : 8 Nos. 240V 16A (10 KA) SP MCB | NI - | | 1 | |
| | | No. | 1 | · | |

| 5 | 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. | | | |
| a | With 4 nos. 10 Sq.mm + 1 nos. 2.5 Sq.mm. PVC insulated copper | | | |
| | wire. | Mtr. | 1 | |
| b | With 4 nos. 6 Sq.mm + 1 no. 2.5 Sq.mm. PVC insulated copper | | | |
| | wire. | Mtr. | 1 | |
| C | With 4 Nos. 4 Sq.mm. + 1 No. 2.5 Sq.mm. PVC insulated copper | | | |
| | wire. | Mtr. | 1 | |
| d | With 2 nos. 10 Sq.mm + 1 no. 2.5 Sq.mm. PVC insulated copper | | | |
| | wire. | Mtr. | 1 | |
| e | With 2 nos. 6 Sq.mm + 1 no. 2.5 Sq.mm. PVC insulated copper | | | |
| | wire. | Mtr. | 1 | |
| f | With 2 Nos. 4 Sq.mm. + 1 No. 2.5 Sq.mm. PVC insulated copper | | | |
| | wire. | Mtr. | 1 | |
| g | With 2 Nos. 2.5 Sq.mm. + 1 x 1.5 Sq.mm. (green colour for earth) | | | |
| | PVC insulated copper wire as required. | Mtr. | 1 | |
| 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. | 1 | |
| | (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. | 1 | |

| | 1 | - | | |
|----|--|------|-----|--|
| | (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. | 1 | |
| 7 | Supply & fixing of Company made approved metal clad socket with | | | |
| | 25A SP MCB / modular type 20A Socket & Top with indicator with | | | |
| | 25A SP MCB. | No. | 1 | |
| 8 | Supply & installation of Company made 200 A TPN Switch fuse unit | | | |
| | with enclosure to be fixed near Main Panel. | No. | 1 | |
| 9 | | 110. | L L | |
| 9 | (A) Copper plate Earthing: Supply of material and installation of | | | |
| | earth electrode made out of 50mm dia class B G.I. pipe of 3.5 | | | |
| | metre long with copper strip 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 masonary 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 outer shell & 25mm dia | | | |
| | innershell of 80-100 microns galvanised chemrod filled with highly | | | |
| | conductive mettalic compoung with permanent sealing at both | | | |
| | | | | |
| | ends with the lead terminal of 32mmX10mm size at the top of | | | |
| | pipe in pipe of 3.5 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 puring arrangements, brick masonary 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 | | | |
| | ובוואוווכבו-ווו-טומואב | . | | |
| | | 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. | 1 | |
| 11 | Supply of materials, laying under ground/walls/floor making end | | | |
| ** | | | | |
| 1 | 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. | | |

| 12 | POINT WIRING: Point wiring with 1100 V grade 3 nos. single core 1.5 | | | |
|----------|---|-----|----|------|
| 12 | 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. | | | |
| | | | | |
| Α | 1 Light control by 1 switch | No. | 1 | |
| В | 2 Light control by 1 switch | No. | 1 | |
| C | Glow sign board wiring | No. | 1 | |
| D | Wall Fan wiring with 2 pin socket | No. | 1 | |
| | Exhaust fan point | No. | 1 | |
| F | Ceiling fan point with supply and fixing of Electronic Regulator (2 | | | |
| | module step, 120 watt rating) | No. | 1 | |
| G | 1x16A 2/3 pin modular socket with switch on separate switch | | | |
| | board outside the Cash Room, Locker Room and Stationary Room | | | |
| | complete with wiring. Suitable Top to be provided for supply to | | | |
| | Cash Room. | No. | 1 | |
| н | 3 pin 6/10A modular socket with switch in each board | No. | 1 | |
| 13 | Supply and fixing of ding-dong calling bell with complete wiring in | | - | |
| 15 | BM's Chamber as per direction of E-I-C | No. | 1 | |
| DADT | B-SUPPLY AND FITTING OF ELECTRICAL FITTINGS | NO. | Т. | |
| | | | | |
| 14 | Supply & Fixing of 36W-2'x2' LED Panel light recessed mounted of | | | |
| | Syska / Phillips / Wipro / CG / HPL / Mescab / Century make | | | |
| | complete with all accessories. Syska cat no. SSK-PAB-6060-B of | | | |
| | lumens >3000. | No. | 1 | |
| 15 | Supply & Fixing of 15W LED Downlighter recessed mounted of | | | |
| 1 | Syska / Phillips / Wipro / CG / HPL / Mescab / Century make | | | |
| | complete with all accessories. | No. | 1 | |
| 16 | Supply & fixing of 18W LED T5 Batten fitting Syska / Phillips / | | | |
| | Wipro / CG / HPL complete with all respect. | No. | 1 | |
| 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 | No. | 1 | |
| 18 | Supply & fixing of 9W LED bulb Syska / Phillips / Wipro / CG / HPL | | | |
| 1 | in UPS Toilets complete with all respect. | No. | 1 | |
| 19 | Supply & fixing of wall fan complete with all respect. (Make: Polar, | | | |
| _ | Orient, CG, Havells, Usha, Mascab) | No. | 1 | |
| L | | | | |

| | | | | 1 | 1 | | | | |
|------|--|--------|----------|---|---|--|--|--|--|
| 20 | Supply & fixing of Ceiling fan complete with all respect. (Make: | | | | | | | | |
| | Polar, Orient, CG, Havells, Usha, Mascab) | No. | 1 | | | | | | |
| 21 | Supply & fixing of Exhaust fan complete with all respect. (Make: | | | | | | | | |
| | Polar, Orient, CG, Havells, Usha,Mascab) | No. | 1 | | | | | | |
| | PART C – AIR CONDITIONING WORK | | | | | | | | |
| 22 | Air Conditioners :- Supply and installation of Cassette Type 2.0 | | | | | | | | |
| | tonne capacity Air-Conditioners (3 star) of (Voltas / Blue star / | | | | | | | | |
| | hitachi / carrier / O-general / LG / Panasonic / Lloyd) including | | | | | | | | |
| | fixing of outdoor units with steel stand all accessories complete | | | | | | | | |
| | in all respect. | | 1 | | | | | | |
| 23 | Supply & laying of copper pipe with insulation material etc. for | | | | | | | | |
| | Cassette AC with as required to be completed in all respect. | | | | | | | | |
| | | Mtr. | 1 | | | | | | |
| 24 | Supply & laying of heavy duty drain pipe for Cassette AC with | | | | | | | | |
| | supporting material etc. with as required to be completed in all | | | | | | | | |
| | respect. | Mtr. | 1 | | | | | | |
| 25 | Air Conditioners :- Supply and installation of Split Type 1.5 tonne | | | | | | | | |
| | capacity <u>Air-Conditioners</u> (3 <u>Star)</u> 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. | | | | | | | | |
| | | No. | 1 | | | | | | |
| 26 | Air Conditioners :- Supply and installation of Split Type 1.0 tonne | | | | | | | | |
| | capacity Air-Conditioners (3 Star) 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. | | | | | | | | |
| | | No. | 1 | | | | | | |
| 27 | Supply & installation of Extra copper pipe with insulation for split | | | | | | | | |
| | ACs if required. | Mtr. | 1 | | | | | | |
| 28 | Supply & installation of Extra drain pipe for Split ACs if required. | ivici. | - | | | | | | |
| 20 | Supply & installation of Extra drain pipe for Split Acs in required. | N/tr | 1 | | | | | | |
| DAPT | D- LAN CABLING WORK | Mtr. | Ţ | | | | | | |
| 29 | MANAGED SWITCH : Supplying and installation of switch 24 ports | | | | | | | | |
| 29 | Managed Switch as approved by the Bank. | | | | | | | | |
| | (Make: CISCO, HCL, AMP, D-LINK, DIGISOL) | No. | 1 | | | | | | |
| 30 | Supply of 2 mtr. Long E-CAT 6 PATCH CHORD | 1.0. | - | | | | | | |
| 50 | (Make: D-LINK, AMP, HCL, Legrand, DIGISOL) | No. | 1 | | | | | | |
| 31 | Supply and laying of E-CAT 6 UTP cable for the Data Circuit | 1.0. | <u> </u> | | | | | | |
| | through the PVC conduit, Rate to include for termination on both | | | | | | | | |
| | end or as directed by E-I-C. (MAKE- D-LINK, AMP, HCL, DIGISOL) | | | | | | | | |
| | end of as directed by L-r-C. (IMAKE- D-LINK, AIVIF, ACL, DIGISOL) | N /1+ | 1 | | | | | | |
| | | Mtr. | 1 | | | | | | |

| 32 | 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, DIGISOL) | | | |
|----|--|-----|-----|--|
| | | No. | 1 | |
| 33 | Supply & installation of 9U Rack with power supply arrangement, ventilation fan, mounting racks ect. Complete with all accessories. (Make: VALRACK, Legrand, HCL) | No. | 1 | |
| 34 | Supply & installation of 6U Rack with power supply arrangement, ventilation fan, mounting racks ect. Complete with all accessories. (Make: VALRACK, Legrand, HCL) | No. | 1 | |
| 35 | Removing of old unnecessary switchgears, cables, wires, conduit pipe etc. from the existing wiring, Redressing of existing cables & wires as required and advised by EIC / Bank. | | sum | |

GST WILL BE PAID AS PER GOVT. NORMS.