## SBI INFRA MANAGEMENT SOLUTIONS PVT LTD (SBIIMS) (A WHOLLY OWNED SUBSIDIARY OF SBI), CIRCLE OFFICE, PATNA SCHEDULE OF WORKS : ELECTRICAL WORKS

PROJECT : RACC BETTIAH UNDER FI & MM

	ONDER I I & IVIIVI				
SR.	ITEM DESCRIPTIONS	UNIT	QTY.	RATE	AMOUNT
	Supplying, laying, lugging, glanding, 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				
Α	3.5 core 70 sqmm cable	MTR.	50		
	MAIN INCOMING SOURCE PANEL (MISP):  Supply, installation, testing and commissioning 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, interconnection, 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 E-I-C. The work shall include dismantling work as required of old panel. The Panel consists of the following	NO.	1		
	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, 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: Termination I: (To be connected with Change Over) (i) 1 No. 63 A (25KA) 4P MCCB for E-lobby/ATM supply (ii) 3 Nos. 63A (10 KA) TPN MCB (iii) 6 Nos. 32-63A (10 KA) DP MCB for UPS Incoming, BM AC, System AC & LDBs etc.  Termination-II: (Not to be connected				
	with Change Over) (i) 2 Nos. 63A (25KA) 4P MCCB for ACDB  (A) UPS INCOMING DB: Supply of all required materials and fixing of input UPS box (Company made) having provision of the following arrangement complete.  Incoming: 1 No. 63A (25KA) TPN MCB  Outgoing: 3 Nos. 63 A (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.  Incoming: 1 no. 63 A DP MCB Outgoing: 4 No. 40A (10KA) DP MCB	NO.	1		
	ACDB / RAW POWER DB/ LIGHT DB / COMPUTER DB 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.				
	ACDB & LDB: Consumer unit TPN MCB DB complete with busbar and the following MCBs.  INCOMING: 1 No. 415V 63A (10KA) TPN MCB OUTGOING: 12 Nos. 240V 32A (10 KA) SP MCB	NO.	1		
	CDB: Consumer unit SPN MCB DB complete with busbar and the following MCBs.  INCOMING: 1 No. 415V 32A (10KA) DP MCB OUTGOING: 8 Nos.	NO.	2		

С	LDB / RPDB: Consumer unit SPN MCB DB complete with busbar and the following MCBs.	NO.	1		
	INCOMING : 4 No. 44EV 22A (40KA) DD MCD				
	<u>INCOMING :</u> 1 No. 415V 32A (10KA) DP MCB <u>OUTGOING :</u> 8 Nos. 240V 16A (10 KA) SP MCB				
	001001100.011005. 240V 10A (10 NA) OF WILD				
5	Machine/Computer Raw Power/UPS/AC/ power point wiring as mentioned in rows below in				
	MS conduit of IS specification of proper size with all material supply installation and				
	commissioning complete from DB .The wiring shall be carried out on surface above false				
	ceiling by chiseling the existing surface and plastering the same with cement etc., or as cutting				
	of tiles(with finishing) after fixing the MS 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.				
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Α	With 4 nos. 10 Sq.mm + 1 nos. 2.5 Sq.mm. PVC insulated copper wire.	MTR.	55		
В	With 2 nos. 6 Sq.mm + 1 no. 2.5 Sq.mm. PVC insulated copper wire.	MTR.	60		
С	With 2 Nos. 4 Sq.mm. + 1 No. 2.5 Sq.mm. PVC insulated copper wire.	MTR.	155		
D	With 2 Nos. 2.5 Sq.mm. + 1 x 1.5 Sq.mm. PVC insulated copper wire as required.	MTR.	30		
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6	(A) COMPUTER SOCKET OUTLET WITH WIRING	NO.	13		
	Computer socket outlet cluster point including supply and fixing of modular type socket outlet				
	clusters components and its wiring from CDB, 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. (green colour for earth) 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.				
	respect from OBB to Compater point.				
	(D) COMPLITED COCKET OUTLIFT AND ITC WIDING	NO	2	<u> </u>	
	(B) COMPUTER SOCKET OUTLET AND ITS WIRING  Computer socket outlet cluster point including supply and fixing of modular type socket outlet	NO.	3		
	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. (green colour for earth) PVC insulated copper wire (1.1 KV grade				
	FRLS/FR-LSH) 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. (proper colour code must				
	be followed)				
	C ) RAW POWER SOCKET OUTLET AND ITS WIRING	NO.	4		
	Raw power socket outlet cluster point including supply and fixing of modular type socket outlet				
	clusters components AND WIRING 1100V grade, FRLS 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. (green				
	colour for earth) 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. Proper colur code must be followed.				
7	Supply & fixing of Company made approved metal clad socket with 25A SP MCB / modular	NO.	7		
l <sup>'</sup>	type 20A Socket & Top with indicator with 25A SP MCB.		•		
8	Supply & installation of Company made 200 A TPN Switch fuse unit with enclosure to be fixed	NO.	1		
ľ	near Main Panel.	'10.	'		
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RS.(Total In word):-		TOTAL			
27	Supply and installation of 40 Amp. 240/250V Double Pole Change over switch Havells make on suitable size of iron clamp including connections etc. as required.	NO.	2		
26	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.	20		
25	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, DIGISOL)	MTR.	450		
24	Supply of 2 mtr. Long E-CAT 6 PATCH CHORD (Make: D-LINK, AMP, HCL, Legrand, DIGISOL)	NO.	20		
23	Supply & installation of Extra drain pipe for Split ACs if required.	MTR.	30		
	Supply & installation of Extra copper pipe with insulation for split ACs if required.	MTR.	30		
21	Air Conditioners: Supply and installation of Split Type 1.5 tonne capacity Air-Conditioners (3 Star) 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.	5		
20	Supply & fixing of Exhaust fan complete with all respect. (Make: Polar, Orient, CG, Havells, Usha,Mascab)	NO.	5		
19	Supply & fixing of Ceiling fan complete with all respect. (Make: Polar, Orient, CG, Havells, Usha, Mascab)	NO.	5		

## NOTE:-

**CONTRACTOR'S SIGN. & SEAL** 

<sup>\*</sup>All safety norms, I.S.Code, I.E.Rules must be followed. In case of any confusion please contact to the SBIIMS Engineer.

<sup>\*</sup> Rate are inclusive of transportation charge etc. but exclusive of GST.