

SBI INFRA MANAGEMENT SOLUTIONS PVT. LTD. (A Wholly Owned Subsidiary of SBI)

SCHEDULE OF QUANTITIES FOR ELELCTRCAL WORK AT PANVEL BRANCH

SR.NO.	DESCRIPTION	QTY	UNIT
Α	MAIN / SUB MAIN DB'S		
1.A	Supply, installation, testing & commissioning of 250A IC TPN SFU with 250 A HRC fuses (L&T / Siemens/ABB make) 440 V 3 phase & neutral 50 c/s AC23 duty on MS angle iron frame fabricated out of 40 mm. x 40 mm. x 5 mm MS angle duly painted with cable end boxes, earthing, name plate danger board fixing accessories etc.	1	Nos
1.B	Supply, installation, testing & commissioning of 150 A IC TPN SFU with 150 A HRC fuses (L&T / Siemens/ABB make) 440 V 3 phase & neutral 50 c/s AC23 duty on MS angle iron frame fabricated out of 40 mm. x 40 mm. x 5 mm MS angle duly painted with cable end boxes, earthing, name plate danger board fixing accessories etc.	1	Nos
2	Supply and Installation of main LT panel and Automatic Power Factor Control panel floor ' mounted, front operated, dead back, totally enclosed vermin proof, indoor, non-draw out, cubicle type power dist. panel fabricated out of 2mm thick CRCA sheet having gasketed hinged door on each cubicle, fully powder coated / enamel painted after seven tank treatment, incorporating horizontal and vertical sleeved copper bus bars 'complete with all internal wiring, danger board, two earthing lugs, cable chamber etc. as required 'housing below mentioned switch gears / meters.		
	Note :- GA & Control Drawing of the panel shall be approved by the Bank before fabrication. (<u>Panel shall be</u> CPRI approved only.)		
	Incomings -		
	1 Nos 200A MCCB, TP, 36 Ka breaking capacity with all standard accessories & with Static releases, as follows.		
	i) O/L Release Range: 0.4Ir-1.0Ir		
	ii) Rotary Operating Handle.		
	iii) Shunt trip iv) 100x100mm Danger Notice Board in English and Marathi		
	Outgoings:		
	a) 6 Nos., 63A,TPN, MCB with neutral & accessories (submain panel for generator,AC panel,APFC & spare)		
	b) 2 Nos., 100A,TPN, MCB with neutral & accessories (submain panel for generator,AC panel,APFC & spare)		
	c) 1 Set of 300A TPN tinned Copper bus bar with PVC sleeving & accessories		
	d) 1Set, RYB, LED indicating lamps with resistors and fuses		
	e) 1 no., 0-250A, Digital Ammeter with CT & inbuilt S/S		
	f) 1no., 0-500V, Digital Voltmeter with inbuilt S/S g) 1 No of 100 A TPN SFU with 63A HRC fuses for APFC panel		

	I		1
	h)1 no of 6 stage APFC Relay module Digital readout of Syntron 1179D/Beluk with Binary Switching		
	i)Auto Manual switch with On-delay timer in manual mode		
	j) Capacitors 3(2No),5(2No) &10 (2No.) KVAR 415 volts 50 hz AC 3 Phase Delta connected Double Dielectric Metalized Polypropylene for 5 stages with discharge resistors & series Inductor coil		
	k) 6 nos Capacitor duty Contactors with HRC fuses with base as bachup fuses & 2A HRC fuses for contactor coils		
	l) 6 nos of LED read indicating lamps for ON stage indication.		
	m) Push type Red & Green switches for making stages ON/OFF in manual mode.	1	no
3	Supply,installation,testing and commissioning of 4-way VTPN double door generator power main panel having vertical fishbone busbsr type, factory assembled wall mounted sheetmetal fabricated, fully power coated having dust proof & vermin proof hinged door with internals such as DIN channels, neutral link, internal wiring com-lete with double earthing lugs including DB wiring dressing with ferruling etc. with all accessories		
	Incomer: 1 No 100 A FP MCCB Out going: 2 Nos. 32/40A TPN, 6Nos 20/25/32 A SPN MCBs (to UPS,E-lobby, Server room AC, Lighting DB & BM cabin AC)	1	No
	Supply,installation,testing and commissioning of 8-way TPN		
4	double door AC panel having vertical fishbone busbsr type, factory assembled wall mounted sheetmetal fabricated, fully power coated having dust proof & vermin proof hinged door with internals such as DIN channels, neutral link, internal wiring com-lete with double earthing lugs including DB wiring dressing with ferruling etc. with all accessories		
	Incomer: 1 No 100 A FP MCCB Out going: 7Nos 63/40A TPN, 3 Nos 20/25/32 A SPN MCBs (to singage,AC units & raw power)	2	No
5	Supply, Installation, Testing & Commissioning of 4 way <u>Distribution Boards</u> complete with MCBs/Isolators/ Bus bars and interconnections. Standard DB's of specified makes as per list of materials shall be used (DOUBLE DOOR ID42)	2	Nos
a)	TPN 4 Way as follows: LDB & RPDB 1 no., 32A, FP MCB+ELCB as incomer		
	Outgoing 10 A/16A/20 A SP MCBs - 12Nos.		
b)	SPN as follows (UPS DD 12 way DB's)	4	Nos
	Incommer 32A, DP MCB - 1 No. Outgoing 10/16A SP MCBs -10Nos.		
6	Supply, installation, testing & commissioning of 20/25A Plug Sockets_with 3P with 20/25A SP switch (for AC units) with 2x2.5& 1Nos 1.5 sq. mm. wire circuit from AC DB.	10	No
7	Supply,Installation,Testing & Commissioning of 32A/25A DP MCB in M.S box UPS output	2	Nos
8	Supply,Installation,Testing & Commissioning of 40/63A 4P MCB in M.S box.	2	Nos

2.6	TOTAL of SECTION (B)		
	4C x 10 Sq.mm Copper armoured cable	4	Nos
2.4	4 x 6 Sq.mm Copper flexible lead wires	<u>5</u> 4	Nos
2.3 2.4	4C x 6 Sq.mm Copper 3C x 4 Sq.mm Copper	<u>40</u> 5	Nos Nos
2.2	31/2Cx 30 Sq.mm Al	4	Nos
2.1	31/2C x 120/95Sq.mm AL	2	Nos
۷	crimping type copper lugs, insulation tape etc. as 'required complete with earthing of glands in following sizes		
2	Supply & Installation of <u>end termination</u> of above mentioned cables including compressed type brass glands,		
1.8	4C x 10 Sq.mm Copper armoured cable with bare 12 swg GI wire from generator panel to e-corner	50	Mtrs
1.7	4C x 6 Sq.mm Copper flexible lead wires from UPS input DB to UPS inputs with 1 run 0f 4sqmm Cu flexible wire for Body earth in PVC rigid or flexible pipe.	15	Mtrs
1.6	3C x 4 Sq.mm Copper armoured cable from main panel to Glow Sign Board.	25	Mtrs
1.5	3C x 4 Sq.mm Copper armoured cable for UPS I/P & O/P from main panel to Glow Sign Board.	30	Mtrs
1.4	4C x 4 Sq.mm Copper armoured cable from submain (Generator) panel to LDB panel with bare 12 swg GI wire.	50	Mtrs
1.3	4C x 6 Sq.mm Copper armoured cable from sub main (Generator) panel to UPS panel & for AC outdoor Units with bare 12 swq GI wire.	280	Mtrs
1.2	31/2C 30 sqmm AL armoured cable from main panel to generator panel & AC panel with 8swg GI earth wire	50	Mtrs
1.1	31/2 x 95 Sq.mm AL from main source to main panel with 2x 8swq Cu earth wire.	45	Mtrs
1.1	31/2 x 120 Sq.mm AL from main source to main panel with 2x 8swq Cu earth wire.	5	Mtrs
	extruded PVC sheathed confirming to IS: 1554, laid on wall / ceiling using GI clamps & spacers as per route shown at site and further as directed by Consultant at site in the following sizes:-		
1	Supply & Installation of 1100V <u>grade armoured cable</u> having sector / circular shaped aluminium / copper conductor PVC insulated cores, laid up, PVC tape wrappe d inner sheathed, GI strip / wire armoured and overall		
В	CABELS / MAINS		
	TOTAL of SECTION (A)		
10	accessories, etc. complete as required. (Schneider / Hager / Siemens / Legrand make as approved by client / consultant)	14	Nos
	Supply & Installation of 63/40A, TPN MCB with weatherproof box for terminating supply to AHU's, Pump machines, etc. alongwith all necessary hardware &	1.4	Nas
	accessories, etc. complete as required. (Schneider / Hager / Siemens / Legrand make as approved by client / consultant)		
9	no. 2NO 40A 3M contactor alongwith suitable size enclosure box for signage, etc. including power circuit wiring of (2x4 + 1x4 Sq.mm) FRLS flexible wires laid through PVC conduit directly taken from DB including all necessary hardware &	1	Nos

Supply & Installation of concealed / surface point wiring using 600v grade 3 nos of 1.5 sqmm copper conductor PVC insulated FRLS wires (with proper R,Y,B color code) pulled through heavy gauge PVC conduits / casing-capping laid concealed over false ceiling or in wall chases or on the ceiling in case of an open ceiling as per the instructions given at site including 2.5 sqmm circuit wires from the relevant DB and also including 2.5 sqmm green color copper earth wire and switch plate, switches, etc. as approved by the consultant. The wires from ceiling junction to light points shall be drawn in flexible PVC conduit with adoptor & cover junction box & crimp type lugs at both ends.Saddle & clamps shall be PVC (Each circuit shall not feed more than 8 points OR 800 watts as per following configuration.)		
Primary light points including the cost of MS concealed box	110	Nos
qrid plate & 6A switch. 1.2 Secondary light points looped from the above point	115	Nos
1.3 Two way light points including the cost of MS concealed box grid plate.	3	Nos
1.4 6A 2/3 -pin combined shuttered socket points separetly on boards(primary)	20	Nos
1.5 Secondary 6A Plug point on switch board / looped from above 6A primary plug point.	20	Nos
1.6 Exhaust/wall fan points comprising of 5A socket near fan and switch on light switch board or exhaust/wall fan	10	Nos
1.7 Ceiling fan points comprising of wiring as above with steps type electronic regulator on lighting board(120 watts) and supply and installation of anchor fastener & hook to suspend the ceiling fan	18	Nos
BELL POINT comprising of wiring as above including G- 1.8 Magic wireless out door bell 4061 with remote, 32 - melodies & flash light.	6	nos
Supply,laying,installation & testing of following concealed SOCKET POINT wiring using 1100 v grade 3 nos of 2.5 sqmm Copper conductor PVC insulated FRLS wires (with Proper RYB colour code) pulled through rigid /flexible 25mm /20mm PVC conduits of medium quality & crimp type lugs at both ends for pantry/toilet/strong room etc .Each circuit feeding not more than three points.		
2.1 5/15 A socket & 16 A switch point directly taken from lighting DB	8	nos
2.2 5/15 A socket & 16 A switch point loop from above point	8	nos
TOTAL of SECTION (C)		
D CONDUITS / RACEWAYS FOR POWER WIRING:		
Supply and laying of following RACEWAYS/CONDUITS in required size trenches with proper ties / clamps at appropriate intervals. The rate shall be inclusive of carefully removing the floor tiles by machine cutting &removing the		
malwa below the tiles for laying raceways conduits for power, telephone,Data cables etc. The depth of the trenches shall be minimum 2" or upto the RCC of slab from the finished floor level . The rate shall also inclusive of back filling the trenches with mix of 1:2 PCC after laying the raceways /conduits for smooth finish upto the floor level.	650	Mtrs

	Supply and laying of following sizes of FLOOR JUNCTION		
	BOXES with top cover for above raceways /conduits		
	fabricated out of hot dip Galvanized Steel with removable		
	screwed cover plates on all four sides for blocking the entry		
2	All the junction boxes to be properly earth bonded with		
	raceways pipe using 14 SWG Copper bare wire. Stainless		
	Steel plate of 14 SWG paper coated mirror finish for		
	junction boxes with mirror screws for fixing		
2.1	300mm X 300mm X 50mm X 2mm thick	2	Nos
2.2	200mm X 200mm X 50mm X 2mm thick	20	Nos
2.3	100mm X 100mm X 50mm X 2mm thick	10	Nos
	Supply, laying, installation & testing of following RAW /UPS		
	POWER SWITCH SOCKET POINTS on skirting/walls by		
	using 3 X 2.5 sqmm Copper conductor PVC FRLS wires		
	pulled through already laid floor . raceways/conduits and		
_	taken upto the position marked, using PVC rigid /flexible		
3	conduits run concealed within walls/partitions/ work station		
	etc with concealed MS box flush to the surface, front plate		
	etc & hardware as required .Not more than three points in		
	one circuits .Rate is inclusive of all raiser PVC flexible		
	conduits as required.		
3.1	5/16 A socket & 16 A switch point directly from UPS/RAW	15	Nos
	DB		
3.2	5/16 A socket & 16 A switch secondary point.	30	Nos
3.3	6 A 2/3 pin socket & 6 A switch point directly from UPS DB	10	Nos
3.4	6 A 2/3 pin socket & 6 A switch point directly from UPS DB	10	Nos
	Supply, laying, installation & testing of following		
	COMPUTER SWITCH SOCKET POINTS on skirting/walls		
	by using 3C X 2.5 sqmm Copper conductor PVC FR		
	sheathed WHITE colour flexible cable pulled through		
	already laid floor . raceways/conduits and taken upto the		
4	position marked, using PVC rigid /flexible conduits run		
	concealed within walls/partitions/ work station etc with		
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1.9	S & I of Wall mounted Exhaust fan (9" dia,230V,1400 rpm) of decorative plastic body and blade with louvers outside.	8	Nos
1.10	S & I of Wall mounted <u>Ceiling fan</u> (48").	18	Nos
1.11	S & I of Wall mounted <u>certific fair</u> (40°).	4	Nos
	TOTAL of SECTION (E)		
F	EARTHING Preparation and commissioning of earth pits as per IS		
	3043-1987 made up of the following size electrode		
	embedded 3 meter in ground with 115mm alternate layer		
1	of charcoal ,salt and sand. The bus bar bolted to earth		
	plate by a bolt and check nut & washer. Watering		
	arrangement of funnel for chamber with cast iron cover for		
	whole assembly.		
1.1	GI earthing pit made up of 600 x 600 x6mm thick hot dipped galvanized electrode.	1	Nos
4.2	COPPER PLATE earthing pit made up of 600 x 600 x3mm	_	NI
1.2	thick hot dipped galvanized electrode.	2	Nos
1.3 1.4	25 X 3mm thick copper strip	20	Mtrs Mtrs
	25 X 3mm thick GI strip 1C x 10 sq.mm flexible Cu. Wire through heavy guage PVC	50	
1.5	conduit (Dedicated LIPS Farthing)	100	Mtrs
	Isolated Earthing bus bar comprising of 300 X 40 X 6 mm thick Copper bar fixed on insulated support and having		
	25 nos of holes and nut and bolts for clamping the earth		
	leads. The whole assembly in MS box of size 400mmX	2	Nos
	300mm X50mm deep and having transperant acrylic cover		
	etc. TOTAL of SECTION (F)		
G	VOICE NETWORKING		
	Supply and fixing of 50 Pair telephone MDF consisting of tag blocks in groups of 10 Pair krone, disconnector type,		
	with S.S brackets for krone complete with powder coated		
1	metal enclosure, krone tag block mounting arrangement,	2	Nos.
	telephone distribution chart and locking arrangement (for		
	EPABX Field side).		
	Supply and laying of 50 pair Cu ARM jelly field cable of 0.5		
_	sqmm electrolytic grade tinned copper PVC insulated twin		
2	of Krone type connector wherever necessary through	150	mtrs
	already laid conduits/ Raceways.		
	Supply & installation of Telephone point wiring on		
	workstations/tables/partitions by using 2-pair cable pulled		
	through already laid floor raceways/conduits and taken		
3	upto the table top using PVC rigid / flexible conduits run	43	Nos.
	concealed. Each point consists of one RJ-11 jack type		
	telephone socket, MS box flush to the surface, front plate etc & hardware as required.		
	·		-
4	Providing temporary supply to work stations, lighting ,telephone connections during the work in progress.	1	lumsu
4	Removing all unwanted wires, casing cap, conduits etc	1	m
	TOTAL of SECTION (G)		
	DIVDACE OF ALL ELECTRICAL ITEMS INCLUDING		luman
н	BUYBACK OF ALL ELECTRICAL ITEMS INCLUDING PANELS DRS. LIGHT FITTINGS. FANS FTC	-1	
	BUYBACK OF ALL ELECTRICAL ITEMS INCLUDING PANELS,DBs, LIGHT FITTINGS, FANS ETC	-1	lumsu m
H Nos		-1	

В	CABLES / MAINS	
С	LIGHTING & POWER WIRING	
D	CONDUITS & RACEWAYS FOR POWER WIRING	
E	LIGHTING FIXTURES	
F	EARTHING	
G	VOICE NETWORKING	
	TOTAL - (A to G)	
	BUYBACK (H)	
	TOTAL AFTER BUYBACK	
	GST(18%)	
	TOTAL INCLUDING GST	