

ELECTRICAL WORKS AT SBI SECTOR-109 , GURUGRAM					
S.NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	Electrical work Wiring for light point/ fan point/ wall fan point/ exhaust fan/ light sockets etc. with 1.5 sq.mm. PVC insulated 1100 V Grade copper conductor (FRLS) wires & 1.5 sq.mm. copper earth wire in concealed/ surface using 16 SWG MS conduits, accessories such as bends, tees, saddles, draw boxes, mounting boxes, inner plates, cover plates, ceiling rose etc (wherever required) and chromium plates brass screws/ rowel plug etc. The circuit wiring starting from DB to point control box/ switch box using 2 X 2.5 sq.mm PVC insulated 1100 V grade multi- stranded copper conductor wire & 2.5 sq.mm. PVC insulated earth wire (color code to be used). (Flexible conduit/ elbow not allowed). The conduit to be laid in ceiling with proper clamps/ wall/ floor and filling the chase with cement mortar and finishing the same in original form/ wooden partition/ above false ceiling with proper clamps etc. all complete.				
2	(Wherever required as per standard specifications).				
3	i) Each circuit shall have independent earth wire.				
4	ii) Each point shall be earthed.				
5	iii) Circuit wiring is to be included in point wiring rates.				
6	One light points controlled by one 6 amp. Modular switch	Nos.	10.00		
7	Two light points controlled by one 6 amp. Modular switch	Nos.	4.00		
8	Three light points controlled by one 6 amp. Modular switch	Nos.	6.00		
9	Four light points controlled by one 6 amp. Modular switch	Nos.	4.00		
10	Five light points controlled by one 6 amp. Modular switch	Nos.	6.00		
11	One call bell point with ceiling rose/ 6amp. 3 pin socket controlled by one 6 amp. Push Modular switch. With call bell	Nos.	1.00		
12	One wall fan/ exhaust fan point controlled by one 6 amp. Modular switch. The switch should be at switchboard level	Nos.	10.00		
13	One 5 pin socket controlled by one 6 amp. Modular switch complete assembly includes plate box etc.				
14	Dependent	Nos.	6.00		
15	One ceiling fan point with step type regulator	Nos.	1.00		
16	Same as serial no 1 but using 2*2.5 + 1*2.5 Sqmm Copper Conductor FRLS wires from DB to first 6A, 5 Pin modular socket controlled by one 6A switch and looped to the nearest second point with same 2*2.5 + 1*2.5 Sqmm copper conductor wires FRLS insulated 1100V grade.				
17	Primary	Nos.	7.00		
18	Secondary	Nos.	7.00		
19	Same as serial no 1 but using 2*2.5 + 1*2.5 Sqmm Copper Conductor FRLS wires from DB to first 16 Amp MCB two Nos. , for Glow sign Board.				
20	Primary Point	Nos.	2.00		
21	POWER POINTS				
22	Same as serial no.1, but wiring for 16 Amp, 6-pin sockets by using 2*4 sq.mm. PVC insulated 1100 V grade copper conductor wire with independent 1* 4.0 sq.mm earth wire from D.B. to first point 1 st socket and 1 st to 2 nd , socket with 2*2.5 sq.mm. and 1*2.5 earth wire including providing and fixing of 16 Amp, 6 –pin socket with 16 Amp. Switch. (Modular type switch/ socket/ plate etc. complete assembly).				
23	Primary point	Nos.	5.00		
24	Secondary point	Nos.	5.00		
25	Same as serial no.1, but wiring for A/C socket by using 2*4 sq.mm. PVC insulated 1100 V grade copper conductor wire and earthing with 1*4.0 sq.mm. PVC insulated 1100 V grade copper conductor wire with modular type AC box(tiny trip type) with socket complete in all respects controlled by 25/32 A SP MCB to be provided near indoor unit. The point starts from DB to stabilizer to the point near the indoor unit including top.	Nos.	2.00		
26	COMPUTER POINTS				
27	Wiring with 2x2.5 sq.mm. + 1x2.5 sq.mm. PVC insulated 1100 V grade multi stranded copper conductor wires in 2 mm thick PVC conduit from UPS DB to computer point. Each point to have 3 nos. 6 amps. 5 pin modular type sockets, one 6 amps modular switch with all accessories, inner/ outer plates, metal box etc. and to be fixed on wooden partitions/ by grouting on wall etc. as per requirement at site. The switch should be fixed above the top of counter with indicator and sockets under the counter.				
28	Primary	Nos.	4.00		
29	Secondary	Nos.	7.00		
30	Wiring with 2x2.5 sq.mm + 1x2.5 sq.mm PVC insulated 1100 V grade multi stranded copper conductor wires in 2 mm thick PVC conduit from UPS DB to computer point. Each point to have 1 nos. 16 amps 5 pin modular type sockets, 1 No's 16 amps modular switch with all accessories, inner/ outer plates, metal box etc and to be fixed on wooden partitions/ by grouting on wall etc as per requirement at site. The switch should be fixed above the top of counter and sockets under the counter. or as directed by the engineer incharge.				
31	Primary	Nos.	2.00		
32	Secondary	Nos.	2.00		
33	CONDUITING FOR TELEPHONE, COMPUTER & CONDUITING, WIRING FOR T.V. SYSTEM.				
34	TELEPHONE SYSTEM				
35	Wiring for VOICE from Jack Panel in data rack to computer workstation with CAT-6a voice cable in PVC conduits of size 20/ 25 mm including providing ferrules at both ends and termination at both ends including providing & fixing frame for telephone socket with shutter, RJ 47 outlet, faceplate and mounting box complete of modular type. This work includes supply and laying of CAT-6a cable in PVC conduits throughout the length, from the I/O hub to the point.	Nos.	5.00		
36	Supplying, laying, effecting terminations, testing and commissioning of 0.51 mm dia Cu. Conductor, twisted, colour coded with polythene capor barrier, telephone cables in the existing tray or in conduit including providing &fixing conduit pipe or cable tray as required from building tag block to the floor as required.				

37	Supplying & fixing 10 pair krone tag block with enclosure.	Nos.	1.00		
38	COMPUTER NETWORKING				
39	Wiring for computer networking from Jack Panel in data rack to computer workstation with CAT-6a computer cable in PVC conduits of size 20/ 25 mm including providing ferrules at both ends and termination at both ends including providing & fixing frame for CAT-6a with shutter, RJ 45 outlet, faceplate and mounting box complete of modular type, This work includes supply and laying of CAT-6a cable in PVC conduits throughout the length, from the I/O hub to the point.	Nos.	12.00		
40	Supplying and fixing 9U (Rack with glass door, opening in the front power panel 1 (horizontal), cable manager 1 lock & key).	Nos.	1.00		
41	Supply, Installation, Testing & Commissioning of 24 port Jack Panel.	Nos.	1.00		
42	Supplying and fixing Patch Cord-2 Meter- (DBPS Mounting Cord)	Nos.	6.00		
43	Supplying and fixing Patch Cord-1 Meter-	Nos.	12.00		
44	CABLES, MAINS & SUBMAINS				
45	Supplying all materials and laying/ pulling 1100 volts grade PVC insulated copper conductor wires (FRLS) in MS conduit with all fixing accessories after cutting the floor, wall and the like etc. and replastering the floor level to original. Conduit must be 30 mm below the floor finish level.				
46	2 X 6 sq.mm. + 1 X 6 sq.mm.	RM	30.00		
47	2 X 4 sq.mm. + 1 X 4 sq.mm.	RM	30.00		
48	Supplying, laying, testing & commissioning of 4 C X 16 sq.mm. at 1100 volts grade PVC insulated aluminium conductor armoured cable with 10 gauge earth copper wire including cables end termination using appropriate Lugs, Glands, termination accessories, Clamps etc. as required as per specification (LIGHT PLUG DB, UPS Room, Power DB & VTPN DB).	RM	35.00		
49	Supplying, laying, testing & commissioning of 4 C X 10 sq.mm. at 1100 volts grade PVC insulated aluminium conductor armoured cable with 10 gauge earth copper wire including cables end termination using appropriate Lugs, Glands, termination accessories, Clamps etc. as required as per specification (AHU Machines).	RM	10.00		
50	Supplying, laying, testing & commissioning of 3.5 C X 35 sq.mm. at 1100 volts grade PVC insulated aluminum conductor armoured cable including cables end termination using appropriate Lugs, Glands, termination accessories, Clamps etc. as required as per specification (for Main Connection)	RM	50.00		
51	DISTRIBUTION BOARD				
52	Supplying, installing, testing & commissioning of surface/ recessed mountings, Double door 415 volts TPN MCB distribution board of steel steel, 1.6mm thick dust phosphatized and painted, inclusive of 100 amps, tinned copper busbars, earthbar, common neutral link, din bar for mounting of MCB's detachable gland/ knock out plate & with built in loose wire box, and superior make terminal connectors for all incoming and outgoing circuits duly prewired with adequate size of PVC insulated copper wires between the bus bars and the MCB's as well as the incomer and upto the terminal connectors/ neutral link and ready for installation of following ways as required.				
53	Use 'B' curve MCB's for lighting & small power circuits, 'C' curve for motor duty i.e. for pumps, AC motors, window and split AC's etc. & 'D' curve for UPS DB's i.e. for computers/ PC's circuit. Main incomer & outgoing circuit MCB's shall be selected accordingly i.e. type B,C & D. Contractor to select the MCB's accordingly as per the nature of the circuit/ load.				
54	Each DB shall have separate neutral links of rating not less than 100A for each phase. The main incoming neutral link shall be in addition to three outgoing neutral links and shall be of 125 A.				
55	UPS DB's shall have a dedicated Earthing link fixed on insulated supports, which will be in addition to body earth link.				
56	All internal inter connecting wiring with in the DB's shall be PVC insulated flexible copper conductor wires of adequate capacity as per the current rating.				
57	Inside each DB, a DB chart is to be fixed.				
58	6-way TPN DB (LIGHT DB & 6 A raw point)	No.	1.00		
59	Incomer:-				
60	1 No. 40 Amp TPN (10 KA) MCB with 40 A DP RCCB (100 MA) each phase				
61	Outgoing:-				
62	12 Nos.10/20 Amp (10 KA) SP MCB				
63	6-way TPN DB (POWER DB)	No.	1.00		
64	Incomer:-				
65	1 No. 40 Amp TPN (10 KA) MCB with 40 A DP RCCB (100 MA) each phase				
66	Outgoing:-				
67	12 Nos.10/20/25 Amp (10 KA) SP MCB				
68	8-way SPN DB (UPS INPUT)	No.	1.00		
69	Incomer:-				
70	1 No. 63 Amp TPN				
71	Outgoing:-				
72	2 Nos.40 Amp DP MCB				
73	4-way V-TPN DB (AC)	No.	1.00		
74	Incomer:-				
75	1 No. 63 Amp TPN 4 Pole (16KA) MCCB				
76	Outgoing:-				
77	2 Nos. 32 Amp (10 KA) TP MCB				
78	6 Nos. 32 Amp (10 KA) SP MCB				
79	2-way SPN DB with 40 A DP MCB (For UPS Input / output)	No.	4.00		
80	12-way SPN DB (For UPS OUTPUT)	No.	1.00		
81	Incomer:-				
82	1 No. 40 Amp DP (10 KA) MCB with 40 A DP RCCB (100 MA)				
83	Outgoing:-				
84	8 Nos.10/16 Amp (10 KA) SP MCB				
85	08-way SPN DB (For ATM LIGHT+POWER OUTPUT)	No.	1.00		

86	Incomer:-				
87	1 No. 40 Amp DP (10 KA) MCB with 40 A DP RCCB (100 MA)				
88	Outgoing:-				
89	4 Nos.10/16/25 Amp (10 KA) SP MCB				
90	08-way SPN DB (For ATM UPS db)	No.	1.00		
91	Incomer:-				
92	1 No. 25 Amp DP (10 KA) MCB with 25A DP RCCB (100 MA)				
93	Outgoing:-				
94	04 Nos.10/16 Amp (10 KA) SP MCB				
95	(LIGHT FITTINGS & ACCESSORIES)				
96	Supplying, installation with hanging support, testing and commissioning of following light fixtures with electronic Ballasts, Tubes, lamps, all fixing materials including connecting wires etc. all complete as per the directions of Engineer-in-charge (All LED Light Fixures should be covered with minimum 3 Years onsite replacement warranty).TISVA/Polycab/WIPRO				
97	FULL GLOW 2 X 2 LED 32 W slim Smart Panel of make As specified in tender document or approved by SBI/ Architect.	Nos.	26.00		
98	Supplying, fixing, testing and commissioning of 15/18 W LED commercial type down lighter of make As specified in tender document or approved by SBI/ Architect.	Nos.	30.00		
99	Supplying, fixing, testing and commissioning of 20 W LED T 8 fitting make As specified in tender document or approved by SBI/ Architect.	Nos.	4.00		
100	LED Strip for cove lighting 15 W per 5 M with driver and necessary installation supporting fittings of Led strip light (5 mtr.) make as specified in tender document or approved by SBI/ Architect.	Nos.	10.00		
101	Wall mounted fans 400/450 mm dia. make As specified in tender document or approved by SBI/ Architect. (METAL BODY)	Nos.	10.00		
102	Ceiling fans 1200 mm dia. make As specified in tender document or approved by SBI/ Architect. Only BLDC 5star rated	Nos.	1.00		
103	Supply & fixing of 230 mm exhaust INDUSTRIAL FAN with CFM 300 louvers and METAL body with all accessories etc. complete of make As specified in tender document or approved by SBI/ Architect.	Nos.	1.00		
104	Supplying, fixing, testing and commissioning of commercial type SUSPENDED LIGHT FIXTURE Decorative Light ,Round 50W(approx) light of make As specified in tender document or approved by SBI/Architect. (Basic price start 10500 rs)	Nos.	1.00		
105	Supplying, fixing, testing and commissioning of 15W COB LIGHT fitting make As specified in tender document or approved by SBI/ Architect.	Nos.	6.00		
106	EARTHING SYSTEM				
107	Supply, Installation, Testing and Commissioning of Maintenace Free Earthing system made up of copper-bonded rod of 10 feet length,23 mm dia. (Minimum copper bonding shall be 0.25mm) along with Rod-to-Conductor connectors, Earth enhancement material, Pit Cover and other accessories as required and as per specification and other applicable codes (include chamber for earthing, Earthing certificate to be submitted along with the bill).	Nos	2.00		
108	Supply, Installation, Testing and Commissioning of Maintenace Free Earthing system made up of copper-bonded rod of 10 feet length, 17.2 mm dia. (Minimum copper bonding shall be 0.25 mm) along with Rod-to-Conductor connectors, Earth enhancement material, Pit Cover and other accessories as required and as per specification and other applicable codes (include chamber for earthing, Earthing certificate to be submitted along with the bill).	Nos	2.00		
109	Providing and fixing of Copper/ GI strips in surface or in recess for loop earthing etc. as required.				
110	Providing and fixing 2 X 8 SWG dia. Cu earth wire in PVC conduit on surface or in recess for loop earthing along with the existing surface/ recess cable as required eith using of copper lug at end termination	RM	200.00		
111	MAIN PANEL AND METER BOARD				
112	supply, installation, testing and commissionings of cubicle type floor/wall mounted L.T. Metal D.B of reputeded make with extendible rotary handle and extended connecting links				
113	1 No. 125 Amps,TPN MCCB (25 KA) with standard enclosure as per manufacturer specification or as approved by the architect/Bank's Engineer	Nos.	1.00		
114	Designing, fabrication, supply, installation, testing and commissionings of front operated cubicle type compartmentalised, front access, free standing on 75MM "I" MS channel, dust and vermin proof (IP 42 degree protection) panel suitable for use at 415V, 3 phase, 4-wire/XLPE Cable 50Hz system suitable for fault level of required value symmetrical at 415V fabricated from 2 mm thick CRCA MS sheets with hinged, gasketted (Metal based neoprene) lockable doors having structural reinforcement including 3 mm thick gland plates on top and bottom, lifting hooks, GI earth strip of required size with 2 nos earth terminals, 1 nos 230V AC operated 250 mm X 250 mm size axial fans for exhaust of heat with On-Off toggle switches including 2 coated primer and 2 power coated paint fnish of approved shade over metal surface cleaned and treated with seven tank process complete with interconnections etc as per specifications as required main panel board shall be CPRI approved and as approved by Architect /Bank.				
115	Type of Approval as instructed by the SBI/ Architect). All live accessible parts shall be shrouded and all equipment shall be finger touch proof. The busbars insulation shall be with heat shrinkable sleeves SMC/ DMC shrouds and busbar supports shall be used. Padlocking facility shall be provided on all outgoing feeders doors and switch handles shall be locable in OFF position.				
116	Suitable arrangement shall be made for termination of multiple incoming cables.				
117	All kA values indicated shall be lcs breaking capacity				
118	GA drawings shall be got approved by Architect / SBI				
119	Floor panel shall consists of : -				
120	INCOMER FROM MAIN LINE				

121	1 No. 100 Amps,TPN MCCB (25 KA) with extendible rotary handle each thermal over current, instantaneous, Short circuit release,Earth fault.				
122	BUSBARS				
123	125 amps TPN pole busbar chamber of suitable length with copper busbars. All busbars and interconnections shall be of suitable size copper strips.				
124	INDICATING PANEL				
125	Digital flush type class-1.0 accuracy multifunction meter showing V, A, PF etc. with 3 Nos. current transformers of 125/5A ratio, 10 VA Class-1.0 metering. - 1 sets				
126	Red/Blue/Yellow three phase indicating lamps with SP MCB backup protection.				
127	OUTGOINGS:-				
128	1 Nos 40A TPN MCCB (16 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. For capacitor Bank ,				
129	1 Nos 63A TPN MCCB (16 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. For AC VTPN,				
130	INCOMER FROM MAIN PANEL BUS BAR				
131	1no. 100 Amp 4-P On Load Change over switch with 1 No. 100 Amps, TPN MCCB (25 KA) with extendible rotary handle.				
132	BUSBARS				
133	125 amps TPN pole busbar chamber of suitable length with copper busbars. All busbars and interconnections shall be of suitable size copper strips.				
134	INDICATING PANEL				
135	Digital flush type class-1.0 accuracy multifunction meter showing V, A, PF etc. with 3 Nos. current transformers of 100/5A ratio, 10 VA Class-1.0 metering. - 1 sets				
136	OUTGOINGS:-				
137	3 Nos 63A TPN MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. (For PDB, UPS & spare)				
138	2 Nos 40A TPN MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. (For LDB & Spare)				
139	3 Nos 40A DP MCB (10 kA) terminals suitable to receive cable on one side and wire connection to				
140	The electrical panel as described above and specifications complete.	Set	1.00		
141	Supply, installation, testing and commissioning of 10 KVAR capacitor as following-				
142	Incoming- 40A 4pole MCCB, Outgoing- APFC power factor relay with 3 nos. 50/5 current transformer	Set	1.00		
143	PUBLIC ADDRESS SYSTEM				
144	Supply and laying Wiring of 1.5 sq mm twin core shelded type of speaker cable with Providing and	Nos.	6.00		
145	Supply, installation, testing and commissioning of following Philips/Bosch/Ahuja make Music Accessories / Equipments.				
146	Ceiling Speaker Unit 6 Watts	Nos.	6.00		
147	Power Amplifier, min 70 Watts with output transformer etc. complete. Philips/Bosch/Ahuja or as approved by the Bank capable of taking Inputs from USB Also.	Nos.	1.00		

SUMMARY		
TAOTAL ELECTRICAL WORK		-
(Note : Tax should be paid extra as applicable)		
	Pages :	Authorised Registered Signature
	Place :	
	Date :	
NOTES-		
* Material should be disposed off within 24hours.		
* Shifting of office table and furniture etc. during the concurrence of work will be in scope of the Contractor.		
* Green safety net to be installed by the contractor on external facade from top to bottom without any additional cost.		
* Wherever required, the contractor will provide temporary plywood partition inside the premises for separating office area from area of repair without any additional cost.		
	Items of work under this Contract shall be executed strictly to fulfill the requirements laid down in the technical specifications. Equipment type, material specifications, methods of installation and testing and type of control shall be in accordance with the specifications, approved shop drawings and the relevant Indian Standards. The unit rate for all equipments or materials shall include cost in RUPEES including all applicable taxes (excl. GST) and duties forwarding, freight, insurance and transport upto site, storage, installation, testing, balancing, commissioning and other related works required. The quoted rates shall also include the following:	
i.	Wastage on materials and labour.	
ii.	Loading, transporting, unloading, handling/double handling, hoisting to all levels, setting, fitting and fixing in position, protecting, disposal of debris and all other labour necessary in and for the full and entire execution and for the job in accordance with the contract documents, good practice and recognize	
iii.	Liabilities, obligations and risks arising out of Conditions of Contract.	
iv.	All requirements of Specifications, whether such requirements are mentioned in the item or not. The Specifications and Drawings where available, are to be read as complimentary to and part of the Schedule of Quantities and any work called for in one shall be taken as required for all.	
v.	In the event of conflict between Schedule of Quantities and other documents including the Specifications, the most stringent shall apply. The interpretation of the Owner/Consultant/Project Manager shall be final and binding.	
vi.	All equipments, quantities and technical data indicated in this Schedule are for the Contractor's guidance only, these are based on the documents prepared by the Consultant. This schedule must be read in conjunction with other documents. The Contractor shall be paid for the actual quantity of work executed by him	
vii.	This Schedule shall be fully priced and the extensions and totals duly checked. The rates for all items shall be filled in INR including NIL items.	
viii.	No alteration whatsoever is to be made to the text or quantities of this Schedule unless such alteration is authorised in writing by Consultant. Any such alterations, notes or additions shall, unless authorized in writing, be disregarded when tender documents are considered	
7	In the event of an error occurring in the amount of the Schedule, as a result of wrong extension of the unit rate and quantity, the unit rate quoted by the tenderer shall be regarded as firm and the extensions shall be amended on the basis of rates.	
8	Any error in totaling in the amount column and in carrying forward total shall be corrected. Any error, in description or in quantity, omission of items from this Schedule shall not vitiate this Contract but shall be corrected and deemed to be variation required by the Consultant/Project Manager.	
9	The Contractor shall procure and bring Materials/Equipment to the site only on the basis of drawings approved for construction and shop drawings and not on the basis of Schedule of Quantities which are provisional only. This also applies to the Contractor's requisition for Owner supplied materials.	
10	HVAC contractor shall clearly mention the scope of electrical work involved.	
11	Static pressure for indoor units/fan motors shall be checked & confirmed by the vendor at the time of quote & reconfirmed at award & prior to ordering the equipment without any price implication.	