

| BILL OF QUANTITY FOR ELECTRICAL AND ALLIED WORKS FOR SBI SECTOR 104 BRANCH, GURUGRAM | | | | | |
|--|---|------|----------|---------------|-----------------|
| S. No. | Description | Unit | Quantity | Rate (in Rs.) | Amount (in Rs.) |
| 1 | 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. | | | | |
| | (Wherever required as per standard specifications). | | | | |
| | i) Each circuit shall have independent earth wire. | | | | |
| | ii) Each point shall be earthed. | | | | |
| | iii) Circuit wiring is to be included in point wiring rates. | | | | |
| i | One light points controlled by one 6 amp. Modular switch | Nos. | 22.00 | | |
| ii | Two light points controlled by one 6 amp. Modular switch | Nos. | 16.00 | | |
| iii | Three light points controlled by one 6 amp. Modular switch | Nos. | 2.00 | | |
| iv | Four light points controlled by one 6 amp. Modular switch | Nos. | 4.00 | | |
| v | Five light points controlled by one 6 amp. Modular switch | Nos. | 3.00 | | |
| vi | One call bell point with ceiling rose/ 6amp. 3 pin socket controlled by one 6 amp. Push Modular switch. With call bell | Nos. | | | |
| vii | One wall fan/ exhaust fan point controlled by one 6 amp. Modular switch. The switch should be at switchboard level | Nos. | 15.00 | | |
| viii | One 5 pin socket controlled by one 6 amp. Modular switch complete assembly includes plate box etc. | | | | |
| a | Dependent | Nos. | 6.00 | | |
| ix | 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 | | | | |
| a | Primary | Nos. | 6.00 | | |
| b | Secondary | Nos. | 10.00 | | |
| x | 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. | | | | |
| a | Primary Point | Nos. | 2.00 | | |
| 2 | POWER POINTS | | | | |
| | 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) | | | | |
| a) | Primary point | Nos. | 14.00 | | |
| b) | Secondary point | Nos. | 10.00 | | |
| 3(a) | 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. | 4.00 | | |
| 3(b) | Same as serial no.1, but wiring for A/C socket by using 4*6 sq.mm. PVC insulated 1100 V grade copper conductor wire and earthing with 1*6.0 sq.mm. PVC insulated 1100 V grade copper conductor wire of weather proof type 4 way SPN DB complete in all respects controlled by with 40 Amp (10 KA) MCB to be provided near outdoor unit. The point starts from DB to the point near the outdoor unit | Nos. | 2.00 | | |
| 4 | COMPUTER POINTS | | | | |
| a | 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 | | | | |
| | Primary | Nos. | 6.00 | | |
| | Secondary | Nos. | 6.00 | | |
| b | 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. | | | | |
| | Primary | Nos. | 3.00 | | |
| | Secondary | Nos. | 2.00 | | |
| B. | CONDUITING FOR TELEPHONE, COMPUTER & CONDUITING, WIRING FOR T.V. SYSTEM. | | | | |
| 1.0 | TELEPHONE SYSTEM | | | | |
| 1.1 | Wiring for VOICE from Jack Panel in data rack to computer workstation with Cat-6 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-6 cable in PVC conduits throughout the length, from the I/O hub to the point. | Nos. | 10.00 | | |

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| S. No. | Description | Unit | Quantity | Rate (in Rs.) | Amount (in Rs.) |
|-----------|--|------|----------|---------------|-----------------|
| 1.2 | 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. | | | | |
| a) | Supplying & fixing 12 pair krone tag block with enclosure. | Nos. | 1.00 | | |
| 2 | COMPUTER NETWORKING | | | | |
| 2.1 | Wiring for computer networking from Jack Panel in data rack to computer workstation with Cat-6 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-6 cable in PVC conduits throughout the length, from the I/O hub to the point. | Nos. | 11.00 | | |
| 2.2 | Supplying and fixing 9 U (Rack with glass door, opening in the front power panel 1 (horizontal), cable manager 1 lock & key). | Nos. | 1.00 | | |
| 2.3 | Supply, Installation, Testing & Commissioning of 24 port Jack Panel. | Nos. | 1.00 | | |
| 2.4 | Supplying and fixing Patch Cord-2 Meter- (DBPS Mounting Cord) | Nos. | 11.00 | | |
| 2.5 | Supplying and fixing Patch Cord-1 Meter- | Nos. | 9.00 | | |
| C. | CABLES, MAINS & SUBMAINS | | | | |
| 1 | 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. | | | | |
| i | 2 X 6 sq.mm. + 1 X 6 sq.mm. | RM | 50.00 | | |
| ii | 2 X 4 sq.mm. + 1 X 4 sq.mm. | RM | | | |
| iii | 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, Power DB, UPS Room) | RM | 75.00 | | |
| iv | Supplying, laying, testing & commissioning of 4 C X 25 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 (AC DB) | RM | 25.00 | | |
| v | Supplying, laying, testing & commissioning of 4 C X 50 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 | 55.00 | | |
| D. | DISTRIBUTION BOARD | | | | |
| | 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 work as required. | | | | |
| | 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 | | | | |
| | 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. | | | | |
| | UPS DB's shall have a dedicated Earthing link fixed on insulated supports, which will be in addition to body earth link. | | | | |
| | 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. | | | | |
| | Inside each DB, a DB chart is to be fixed. | | | | |
| a | 6-way TPN DB (LIGHT DB & 6 A Raw Point-Ground Floor) | No. | 1.00 | | |
| | Incomer:- | | | | |
| | 1 No. 40 Amp TPN (10 KA) MCB with 40 A DP RCCB (100 MA) each phase | | | | |
| | Outgoing:- | | | | |
| | 12 Nos.10/20 Amp (10 KA) SP MCB | | | | |
| b | 6-way TPN DB (POWER DB- Ground floor) | No. | 1.00 | | |
| | Incomer:- | | | | |
| | 1 No. 63 Amp TPN (10 KA) MCB with 63 A DP RCCB (100 MA) each phase | | | | |
| | Outgoing:- | | | | |
| | 12 Nos.10/20/25/ Amp (10 KA) SP MCB | | | | |
| c | 6-way TPN DB (AC DB) | No. | 1.00 | | |
| | Incomer:- | | | | |
| | 1 No. 63 Amp TPN (10 KA) MCB with 63 A DP RCCB (100 MA) each phase | | | | |
| | Outgoing:- | | | | |
| | 12 Nos.25/32 Amp (10 KA) SP MCB | | | | |
| d | 8 way SPN DB (ATM L+P DB) | No. | 1.00 | | |
| | Incomer:- | | | | |
| | 1 No. 40 Amp DP (10 KA) MCB with 32 A DP RCCB (100 MA) | | | | |
| | Outgoing:- | | | | |
| | 4 Nos.6/10/16 Amp (10 KA) SP MCB | | | | |
| e | 12 way SPN DB (E-Lobby L+P DB) | No. | 1.00 | | |
| | Incomer:- | | | | |
| | 1 No. 40 Amp DP (10 KA) MCB with 40 A DP RCCB (100 MA) | | | | |
| | Outgoing:- | | | | |

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| S. No. | Description | Unit | Quantity | Rate (in Rs.) | Amount (in Rs.) |
| | 8 Nos.6/10/16 Amp (10 KA) SP MCB | | | | |
| f | 12-way SPN DB (UPS OUT PUT MAIN DB) Incomer:- 1 No. 63 Amp TPN MCB Outgoing:- 3 Nos.40 Amp DP MCB | No. | 1.00 | | |
| g | 2-way SPN DB with 40 A DP MCB (For UPS Input / output) | No. | 3.00 | | |
| h | 12 way SPN DB (UPS OUTPUT DB -GROUND FLOOR) Incomer:- 1 No. 40 Amp DP (10 KA) MCB Outgoing:- 10 Nos.6/10/16 Amp (10 KA) SP MCB | No. | 1.00 | | |
| i | 12 way SPN DB (ATM UPS DB) Incomer:- 1 No. 40 Amp DP (10 KA) MCB with 40 A DP RCCB (100 MA) Outgoing:- 8 Nos.6/10/16 Amp (10 KA) SP MCB | No. | 1.00 | | |
| E | (LIGHT FITTINGS & ACCESSORIES) | | | | |
| | 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 <i>warranted) Philips Wipro Havells</i> | | | | |
| i | FULL GLOW 2 X 2 LED 36 W slim Smart Panel of make As specified in tender document or approved by SBI/ Architect. | Nos. | 14.00 | | |
| ii | Supplying, fixing, testing and commissioning of 10 W LED commercial type down lighter of make As specified in tender document or approved by SBI/ Architect. | Nos. | 57.00 | | |
| iii | Supplying, fixing, testing and commissioning of 20 W LED 2ft, T 8 fitting make As specified in tender document or approved by SBI/ Architect. | Nos. | 5.00 | | |
| iv | LED Strip for cove lighting 15 W per 5 M with driver fixed in aluminium corner profile with necessary installation supporting fittings of Led strip light (5 mtr.) make as specified in tender document or approved by SBI/ Architect. | Mtrs. | 50.00 | | |
| v | Wall mounted fans 400/450 mm dia. make As specified in tender document or approved by SBI/ Architect. (METAL BODY) | Nos. | 10.00 | | |
| vi | Supply & fixing of 230 mm exhaust fan with louvers and plastic body with all accessories etc. complete of make As specified in tender document or approved by SBI/ Architect. | Nos. | 2.00 | | |
| F. | EARTHING SYSTEM | | | | |
| 1 | Supply, Installation, Testing and Commissioning of Maintenance 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 | | |
| 2 | Supply, Installation, Testing and Commissioning of Maintenance 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 | | |
| 3 | Providing and fixing of Copper/ GI strips in surface or in recess for loop earthing etc. as required. | | | | |
| i | Providing and fixing 25 x 3mm GI Flat Strip for loop earthing along with the existing surface/ recess cable as required. (for Main panel) | RM | 50.00 | | |
| ii | 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 | 80.00 | | |
| G. | MAIN PANEL AND METER BOARD | | | | |
| 1 | Supply, installation, testing and commissioning of cubicle type floor/wall mounted L.T. Metal DB of reputed make with extendable rotary handle and extended connecting links. 1 No. 125 Amps, TPN MCCB (25 KA) with standard enclosure as per manufacturer specification or as approved by the architect/Bank's Engineer | | | | |
| | Designing, fabrication, supply, installation, testing and commissioning of front operated cubicle type compartmentalised, front access, free standing on 75MM "T" 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) locale 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 finish 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 of approved make (Supertech Power Control/Zeniya/Shwtech) or make as approved by | | | | |
| | 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 locale in OFF position. | | | | |
| | Suitable arrangement shall be made for termination of multiple incoming cables. | | | | |
| | All kA values indicated shall be lcs breaking capacity | | | | |
| | GA drawings shall be got approved by Architect/ SBI | | | | |

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| S. No. | Description | Unit | Quantity | Rate (in Rs.) | Amount (in Rs.) |
| a | Floor panel shall consists of :- | | | | |
| | INCOMER | | | | |
| | 1 No. 125 Amps, TPN MCCB (25 KA) with extendable rotary handle each thermal over current, instantaneous, Short circuit release, Earth fault. | Set | 1.00 | | |
| | BUSBARS | | | | |
| | 150 amps TPN pole busbar chamber of suitable length with copper busbars. All busbars and interconnections shall be of suitable size copper strips. | | | | |
| | INDICATING PANEL | | | | |
| | Digital flush type class-1.0 accuracy multifunction meter showing V, A, PF etc. with 3 Nos. current transformers of 160/5A ratio, 10 VA Class-1.0 metering. - 1 sets Red/Blue/Yellow three phase indicating lamps with SP MCB backup protection. 1 set of three phase indicating lamps along with 2A SP MCB backup protection Restricted Earth fault relay with 3 Nos. current transformers of 125/5A ratio, 10 VA Class 5P 10 (Numeric Relay not required) | | | | |
| | OUTGOINGS:- | | | | |
| | 1 Nos 63A TPN MCCB (16 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. For capacitor Bank. | | | | |
| | 1 No 63A TPN MCCB (16 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. For AC DB . | | | | |
| | 1 No 40A TPN MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. | | | | |
| | INCOMER FROM MAIN PANEL BUS BAR | | | | |
| | 1no. 125 Amp 4P On Load Change over switch with 1 No. 125 Amps, TPN MCCB (25 KA) with extendable rotary handle each thermal over current, instantaneous, Short circuit release. Earth fault | | | | |
| | BUSBARS | | | | |
| | 150 amps TPN pole busbar chamber of suitable length with copper busbars. All busbars and interconnections shall be of suitable size copper strips. | | | | |
| | INDICATING PANEL | | | | |
| | 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 Red/Blue/Yellow three phase indicating lamps with SP MCB backup protection. | | | | |
| | OUTGOINGS:- | | | | |
| | 2 Nos 63A TPN MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. (SPARE) | | | | |
| | 1 Nos 40A TPN MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. (For LPDB's & Spare) | | | | |
| | 1 Nos 63A DP MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. (For INVERTER) | | | | |
| | 3 Nos 40A DP MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. (For LPDB - E- Lobby . SIGNAGE & Spare) | | | | |
| | The electrical panel as described above and specifications complete. | Set | 1.00 | | |
| | Supplying, installation, testing & commissioning of 12 KVAR, APFC Panel auto operation with 5 steps stage and power factor should be nearing unity complete as required including all contactors, relays, indicating units etc. as required at site. Capacitor make: ABB/ Siemens/ Neptune | | | | |
| | 3 nos. of capacitor duty contactors | | | | |
| | 1 Nos. 2 KVAR MPP type heavy duty capacitor banks along with 2 Nos. 10A TP MCB of 10 KA service breaking capacity with heavy duty solid detachable neutral link | | | | |
| | 2 Nos. 5 KVAR MPP type heavy duty capacitor banks along with 3 Nos. 16A TP MCB of 10 KA service breaking capacity with heavy duty solid detachable neutral link | | | | |
| | The electrical panel as described above and specifications complete. | | | | |
| | The electrical panel as described above and specifications complete. | Set | 1.00 | | |
| H | PUBLIC ADDRESS SYSTEM | | | | |
| 1 | Supply and laying Wiring of 1.5 sq mm twin core shielded type of speaker cable with Providing and fixing in position the following FRLS PVC conduits including all accessories concealed/exposed in F.Ceiling/Wall complete as required including 1.6/2.0 mm thick PVC junction or pull boxes with 3mm thick perspex sheet cover plate complete with 1.6 mm dia GI pull wires in the length of conduit including all accessories | Nos. | 10 | | |
| 2 | Supply, installation, testing and commissioning of following Philips/Ahuja/Bosch make Music Accessories / Equipments. | | | | |
| a. | Ceiling Speaker Unit 6 Watts | Nos. | 10 | | |
| b | Power Amplifier, min 70 Watts with output transformer etc. complete Philips/Ahuja or as approved by the Bank capable of taking Inputs from USB Also. | Nos. | 1 | | |
| | TOTAL FOR ELECTRICAL & ALLIED WORKS | | | | |

Note:- The rates quoted includes all other taxes , duties , loading, unloading , transportation, other expenses etc to site. Only GST will be paid Extra