BOQ OF ELECTRICAL WORKS IN NEW PREMISES AND ON SITE A.T.M. ROOM AT KHAKHNAR Br. - RBO - Khandwa, M.P.

| S.No. | Description of Item | Qty | Unit | Rate | Amount |
|-------|---|-----|------|------|--------|
| Α | Part - A : Electrical Works : | | | | |
| 1 | ELECTRICAL WIRING | | | | |
| | Providing, fixing, testing and commissioning of POINT WIRING of any length for light point/Wall fan point/Exhaust fan point/ Call bell point/ including call bell/ including fan box(if required), 'S' type fan hook etc with 3 X 1.5 Sq.mm(P/N/E) PVC 650V/1100V Grade FRLS WIRE insulated copper conductor single core multi strended wire in 16 SWG (Medium Gauge) stove enamelled rigid steel conduit 20mm/ 25mm with conduit accessories like bend, junction box etc in concealed/ surface manner as per site requirment with suitable Modular Switches/ Sockets with plate and Metal/ PVC box,Scaddle, angle bracket (if required), 3 plate ceiling rose/bulb holder etc. The floor/ roof/ wall junction box shuold be of MS (heavy duty) box of suitable size and covered with Steel finish Steel cover sheet by screw tight and gasket to avoid water/dust insertion. The item includes Circuit wiring from DB to the switch board with 3x2.5 Sq.MM. The above wiring carried out surface or recess in wall/floor/roof should be cutting by cutter/chiesling, replastering, curing, painting with uniform and smooth finish by specilised workman ship and making the surface neat afterwards complete in all respect as per direction of Bank Engg. (EACH Circuit to take NOT MORE than 7-8 points) The conduit/Flexible conduit/junction box/metal modular box etc must be joined by gland and check nut at both ends. (each circuit to be controlled by one MCB). The colour code of wire are as under: Phase- Red, Neutral- Black, Earth-Green Make of Material for items of BOQ:- (i) Modular Type Switch/socket/step electronic fan regulator, plate, box, TV/telephone, bulb holder/3 pin ceiling rose with all accessories:-Lergand/ Anchor(Roma)/MK/ Crabtree (ii) MS conduit/PVC conduit with all accessories:-BEC/AKG/NIC/Precision (iii) PVC insulated copper wire(FR) 650V/1100 V grade:- Finolex/RR cable/ Havells | | | | |
| i | Providing and fixing of point wiring with above specifications. One light point controlled by one switch. | 58 | Nos. | | |
| ii | Providing and fixing of point wiring with same above specifications. Two light points to be controlled by one switch. | 15 | Nos | | |
| iii | Providing and fixing of point wiring with same above specifications. Three light points to be controlled by one switch. | 3 | Nos | | |
| iv | Call bell point with ceiling rose/ 6amp. 3 pin socket controlled by one 6 amp. Push Modular switch. With call bell | 1 | Nos | | |
| v | Providing and fixing of Ceiling fan point controlled as under (i) one 6 amp switch (ii) one no stepped electronic regulator of two module type. | 16 | Nos. | | |
| vi | Providing and fixing 6 Amps Plug Points with same specs as above and install along with same light switchboard | 8 | Nos | | |
| vii | 6 amp. Modular switch as serial no 1 on seperate Board 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 (max 3 points per circuit). | | Nos | | |
| xiii | 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) max 2 points per circuit | | Nos | | |
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| SPECIAL POINTS: (For Computers). Supply, fixing, testing and commissioning of following Modular type switch socket with cover plate, PVC modular box on Surface / sheet steel box in concealed manner I/c electrical connections and making good all the damages, painting, cleaning the site etc complete including all accessories as per site requirement and as directed. 2 Nos. 6 A Switch + 3 Nos. 6 A, 3 pin Socket (Minimum two and Maximum three points are loop with one circuit as mentioned beolw) AC & Power Point (Single Phase). Supply, Installation, Testing and commissioning of the surface / recess mounting A.C. / GEYSER power | |
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| commissioning of following Modular type switch socket with cover plate, PVC modular box on Surface / sheet steel box in concealed manner I/c electrical connections and making good all the damages, painting, cleaning the site etc complete including all accessories as per site requirement and as directed. 2 Nos. 6 A Switch + 3 Nos. 6 A, 3 pin Socket (Minimum two and Maximum three points are loop with one circuit as mentioned beolw) AC & Power Point (Single Phase). Supply, Installation, Testing and commissioning of the surface / recess mounting A.C. / GEYSER power | |
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| point with the followings: Metra Plug and Socket DBs with one Nos 20 | |
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| Amp SP MCB, 20 Amp plug and socket with complete Enclosur plate and | |
| box 1 set i/c electrical connections and making good all the damages, | |
| painting, cleaning the site etc complete including all accessories as | |
| | |
| required as per site requirement and as directed by Bank Engineer. OR | |
| Modular 32A DP 1 way switch with plate & box 1 set. + 25A & 10A twin | |
| socket (Only one point is connected with one circuit as mentioned below) | |
| | |
| 6 Nos | |
| AC Point (Three Phase). Supply, Installation, Testing and | |
| | |
| commissioning of the surface / recess mounting A.C. Cassette power | |
| point with the followings: | |
| Metal enclose Four way with one Nos 32 Amp FP MCB with complete | |
| | |
| 4 Enclosur plate and box 1 set i/c electrical connections and making good | |
| all the damages, painting, cleaning the site etc complete as required as | |
| per site requirement and as directed. (Only one point is connected with | |
| | |
| one circuit as mentioned below) including 5 X 4 Sqmm. Copper | |
| multistrend FRLS wire in suitable size of 16 SWG (MMS) steel conduit (| |
| For Cassettee AC) 4 Nos | |
| 1 of Cascottee (10) | |
| CIRCUIT WIRING :(FRLS WIRE) | |
| Supply , installation, testing & commissioning of FRLS circuit wiring | |
| 5 measured in numbers with suitable size of MS conduit 1.6 mm thick and | |
| | |
| 25mm dia. The wiring in MS conduit is as per IS code. The average | |
| length of wiring around between(25-30) Mtr. | |
| 3 X 2.5 sgmm (For UPS Circuit/6 amp Separate Board) in suitable size | |
| of 16 SWG (MMS) steel conduit as per IS code. | |
| | |
| 3 X 4.0 sqmm (For 1 ton, 1.50, 2.00 & 2.00 Cassette AC / Power Circuit) | |
| b in suitable size of 16 SWG (MMS) steel conduit as per IS code. | |
| 4 Nos | |
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| 1. If V 4. Samm, Copper multistrond wire in quitable size of 16 SWC (MMS) | |
| 5 X 4 Sqmm. Copper multistrend wire in suitable size of 16 SWG (MMS) | |
| c 5 X 4 Sqmm. Copper multistrend wire in suitable size of 16 SWG (MMS) steel conduit (For 3 TON Cassettee AC) 4 Nos | |
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| | TAHLA of the St. Profestolation to the conference of | | | ı | |
|----|--|-----|-----|---|---|
| | All kA values indicated shall be Ics breaking capacity | | | | |
| | GA drawings shall be got approved by SBI | | | | |
| а | Fabrication, supply, installation, testing and commissionings of cubicle | | | | |
| _ | type floor/wall mounted L.T. panel made out of 2 mm thick CRCA sheet | | | | |
| | including connection, inter-connection along with 4 strip aluminium busbar | | | | |
| | | | | | |
| | as per CPWD specifications,(Part IV-Sub-station) etc. as | | | | |
| | required.(Meter Board) | | | | |
| | Incoming :- | | | | |
| | i) 1no. 125 Amp 4P MCCB (25 KA) thermal over current, instantaneous, | | | | |
| | Short circuit realease, Earth fault. | | | | |
| | ii) Busbar :-125 Amps 4P aluminum conductor bus bar (BPTM type | | | | |
| | Heat-shrinkable busbar insulation) supported by DMC / FRP insulators. | | | | |
| | Theat-sillinkable busbal ilisulation) supported by Divic / TKF ilisulators. | | | | |
| | Change shall be provide for the BCEC Meter | | | | |
| | Space shall be provide for the BSES Meter | | | | |
| | Meter board shall be lockable. | | | | |
| | Complete panel described as above. | | | | |
| | · · | | | | |
| | | | | | |
| b. | Floor panel shall consists of : - | | | | |
| | INCOMER | | | | |
| | 1no. 125 Amp 4P On Load Change over switch with 1 No. 125 | | | | |
| | Amps, TPN MCCB (25 KA) with extendeble rotary handle each thermal | | | | |
| | over current, instantaneous, Short circuit realease, Earth fault. | | | | |
| | over current, instantaneous, Short circuit realease, Earth fault. | | | | |
| | | | | | |
| | DUCDADO | | | | + |
| | BUSBARS | | | | |
| | 125 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 100/5A ratio, 10 VA Class-1.0 | | | | |
| | metering 1 sets | | | | |
| | Ded/Organ/Archan ON/OFF/TDID indication learns with OA OD MOD | | | | |
| | Red/Green/Amber ON/OFF/TRIP indicating lamps with 2A 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 160/5 | | | | |
| | ratio, 15 VA Class 5P 10 (Numeric Relay not required.) | | | | |
| | Undervoltage, Overvoltage & phase reversal relay for persisted voltage of | | | | |
| | 105-180% & 20-95% of rated voltage. (Numeric Relay not required.) | | | | |
| | | | | | |
| | | | | | 1 |
| | CUTOOINOC | | | | + |
| | OUTGOINGS:- | | | | |
| _ | 3 Nos 63A TPN MCCB (16 kA) for Power, Electrical & AC terminals | | | | |
| | suitable to receive cable on one side and wire connection to Bus bars. | | | | |
| | | | | | |
| | | | | | 1 |
| | For capacitor Bank AND AC VTPN, | | | | |
| | For capacitor Bank AND AC VTPN, 2 Nos 63A TPN MCB (10 kA) terminals suitable to receive cable on one | | | | |
| | For capacitor Bank AND AC VTPN, 2 Nos 63A TPN MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. (For PDB,UPS) | | | | |
| | For capacitor Bank AND AC VTPN, 2 Nos 63A TPN MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. (For PDB,UPS) 1 Nos 40A TPN MCB (10 kA) terminals suitable to receive cable on one | | | | |
| | For capacitor Bank AND AC VTPN, 2 Nos 63A TPN MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. (For PDB,UPS) 1 Nos 40A TPN MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. (For LDB) | | | | |
| | For capacitor Bank AND AC VTPN, 2 Nos 63A TPN MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. (For PDB,UPS) 1 Nos 40A TPN MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. (For LDB) 2 Nos 40A DP MCB (10 kA) terminals suitable to receive cable on one | | | | |
| | For capacitor Bank AND AC VTPN, 2 Nos 63A TPN MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. (For PDB,UPS) 1 Nos 40A TPN MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. (For LDB) 2 Nos 40A DP MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. | | | | |
| | For capacitor Bank AND AC VTPN, 2 Nos 63A TPN MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. (For PDB,UPS) 1 Nos 40A TPN MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. (For LDB) 2 Nos 40A DP MCB (10 kA) terminals suitable to receive cable on one | | Set | | |
| | For capacitor Bank AND AC VTPN, 2 Nos 63A TPN MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. (For PDB,UPS) 1 Nos 40A TPN MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. (For LDB) 2 Nos 40A DP MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. | | Set | | |
| | For capacitor Bank AND AC VTPN, 2 Nos 63A TPN MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. (For PDB,UPS) 1 Nos 40A TPN MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. (For LDB) 2 Nos 40A DP MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. The electrical panel as described above & specifications complete. | 1 | | | |
| b | For capacitor Bank AND AC VTPN, 2 Nos 63A TPN MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. (For PDB,UPS) 1 Nos 40A TPN MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. (For LDB) 2 Nos 40A DP MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. The electrical panel as described above & specifications complete. 6-way TPN DB (LIGHT DB) | | Set | | |
| b | For capacitor Bank AND AC VTPN, 2 Nos 63A TPN MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. (For PDB,UPS) 1 Nos 40A TPN MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. (For LDB) 2 Nos 40A DP MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. The electrical panel as described above & specifications complete. 6-way TPN DB (LIGHT DB) Incomer:- | 1 1 | | | |
| b | For capacitor Bank AND AC VTPN, 2 Nos 63A TPN MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. (For PDB,UPS) 1 Nos 40A TPN MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. (For LDB) 2 Nos 40A DP MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. The electrical panel as described above & specifications complete. 6-way TPN DB (LIGHT DB) | 1 1 | | | |
| b | For capacitor Bank AND AC VTPN, 2 Nos 63A TPN MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. (For PDB,UPS) 1 Nos 40A TPN MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. (For LDB) 2 Nos 40A DP MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. The electrical panel as described above & specifications complete. 6-way TPN DB (LIGHT DB) Incomer:- 1 No. 32 Amp TPN (10 KA) MCB with 40 A DP RCCB (100 MA) each | 1 1 | | | |
| b | For capacitor Bank AND AC VTPN, 2 Nos 63A TPN MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. (For PDB,UPS) 1 Nos 40A TPN MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. (For LDB) 2 Nos 40A DP MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. The electrical panel as described above & specifications complete. 6-way TPN DB (LIGHT DB) Incomer:- 1 No. 32 Amp TPN (10 KA) MCB with 40 A DP RCCB (100 MA) each phase | 1 1 | | | |
| b | For capacitor Bank AND AC VTPN, 2 Nos 63A TPN MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. (For PDB,UPS) 1 Nos 40A TPN MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. (For LDB) 2 Nos 40A DP MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. The electrical panel as described above & specifications complete. 6-way TPN DB (LIGHT DB) Incomer:- 1 No. 32 Amp TPN (10 KA) MCB with 40 A DP RCCB (100 MA) each phase Outgoing:- | 1 1 | | | |
| b | For capacitor Bank AND AC VTPN, 2 Nos 63A TPN MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. (For PDB,UPS) 1 Nos 40A TPN MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. (For LDB) 2 Nos 40A DP MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. The electrical panel as described above & specifications complete. 6-way TPN DB (LIGHT DB) Incomer:- 1 No. 32 Amp TPN (10 KA) MCB with 40 A DP RCCB (100 MA) each phase | 1 1 | | | |
| b | For capacitor Bank AND AC VTPN, 2 Nos 63A TPN MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. (For PDB,UPS) 1 Nos 40A TPN MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. (For LDB) 2 Nos 40A DP MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. The electrical panel as described above & specifications complete. 6-way TPN DB (LIGHT DB) Incomer:- 1 No. 32 Amp TPN (10 KA) MCB with 40 A DP RCCB (100 MA) each phase Outgoing:- | 1 1 | | | |
| b | For capacitor Bank AND AC VTPN, 2 Nos 63A TPN MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. (For PDB,UPS) 1 Nos 40A TPN MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. (For LDB) 2 Nos 40A DP MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. The electrical panel as described above & specifications complete. 6-way TPN DB (LIGHT DB) Incomer:- 1 No. 32 Amp TPN (10 KA) MCB with 40 A DP RCCB (100 MA) each phase Outgoing:- | 1 1 | | | |

| | 4 | | 1 | | |
|------|--|----|------|---------|----------|
| | 1 No. 63 Amp TPN (10 KA) MCB | | | | |
| | Outgoing:- | | | | |
| | 10 Nos.16 Amp (10 KA) SP MCB | | | | |
| | | | | | |
| d | 4-way V-TPN DB (LIGHT) | 1 | Set | | |
| | Incomer:- | | | | |
| | 1 No. 80 Amp 4 Pole (16 KA) MCCB | | | | |
| | Outgoing:- | | | | |
| | 4No. 40 Amp (16 KA) TP MCB | | | | |
| | 5 Nos. 25 Amp (10 KA) SP MCB | | | | |
| | 3 1403. 23 Allip (10 144) 31 WOB | | | | |
| | 0 V/TRN RR (40) | | | | |
| е | 8-way V-TPN DB (AC) | 1 | Set | | |
| | Incomer:- | | | | |
| | 1 No. 80 Amp 4 Pole (16 KA) MCCB | | | | |
| | Outgoing:- | | | | |
| | 4No. 40 Amp (16 KA) TP MCB | | | | |
| | 5 Nos. 25 Amp (10 KA) SP MCB | | | | |
| | | | | | |
| f | 4-way TPN DB UPS ROOM | 1 | Set | | |
| | Incomer:- | | | | |
| | 1 No. 63 Amp TPN (10 KA) MCB with 40 A DP RCCB (100 MA) each | | | | |
| | phase | | | 1 | |
| | Outgoing:- | | | | |
| | 2Nos. 40 Amp (10 KA) DP MCB, For UPS outgoings tto individual SDB | | | | 1 |
| | | | | | |
| | | | | | |
| g | 12-way SPN DB (For UPS Sub DB) | 2 | Set | | |
| | Incomer:- | | | | |
| | 1 No. 40 Amp DP (10 KA) MCB with 25 A DP RCCB (100 MA) | | | | |
| | Outgoing:- | | | | |
| | 8-10 Nos.6/10Amp (10 KA) SP MCB | | | | |
| | | | | | |
| h | KIT KAT 200 AMP. | 1 | Set | | |
| - '' | Providing and fixing of Kit Kat Rewirable Porcelian fuse carrier & base | ' | 361 | | _ |
| | with wooden frame of 200 amp/415 Volt near meter box | | | | |
| 7 | CABLES | | | | |
| - | Supplying, unloading, storage, laying, testing and commissioning of | | | | |
| | PVC/XLPE insulated (Heavy Duty) Al/Cu conductor armoured cable | | | | |
| | suitable for working voltage upto and including 1100 V grade, laid and | | | | |
| | tied on existing overhead cable trays, or laid and tied over MS supports in | | | | |
| | masonry trenches with copper/al cable lugs, single compression brass | | | | |
| | cable glands, tapping, crimping etc. as required and all cables run with | | | | |
| | double run(2 No.) of GI wire of 8 SWG size. The size of cables are as | | | | |
| | under:- Make of Material:- (i) PVC/XLPC Armoured cable:- Finolex, | | | | |
| | Havells, RR cable, CCI(Cable Corp. of India) (ii) Cable Termination: | | | 1 | |
| i | Dowells, Comet 3.5 X 50 Sq.mm XLPE. Al. armoured Cable (AC VTPN, BUS BARS & | | | | |
| ' | A.C. DB)/Main cable | 5 | Mtr | | |
| | Supplying, laying, testing & commissioning of 4 C X 10 sq.mm. at 1100 | | | | |
| | volts grade PVC insulated copper conductor armoured cable with 10 | | | 1 | |
| ii | gauge earth copper wire including cables end termination using | | | 1 | |
| | appropriate Lugs, Glands, termination acessories, Clamps etc. as | | | 1 | |
| | required as per specification from Main board to UPS Room | 40 | Mtr | | |
| | Supplying, laying, testing & commissioning of 4 C X 25 sq.mm. at 1100 | | | | |
| | volts grade PVC insulated aluminum conductor armoured cable with 10 | | | 1 | |
| iii | gauge earth copper wire including cables end termination using | | | 1 | |
| | appropriate Lugs, Glands, termination acessories, Clamps etc. as | | N 14 | 1 | |
| | required as per specification Pane to (POWER/UPS) DB | 50 | Mtr | | <u> </u> |
| | Supplying, laying, testing & commissioning of 4 C X 16 sq.mm. at 1100 | | | 1 | |
| iv | volts grade PVC insulated aluminum conductor armoured cable with 10 gauge earth copper wire including cables end termination using | | | 1 | |
| 'V | 1 | | 1 | 1 | 1 |
| | Jannronriate Lugs Glands termination accessories Clamps etc. as | | , , | | |
| | appropriate Lugs, Glands, termination accessories, Clamps etc. as required as per specification (<i>Light DB</i>). | 20 | Mtr | | |

| _ | 5 | | | • |
|-----|--|-----|------|---|
| v | Supplying, laying, testing & commissioning of 4 C x 50 sq.mm. at 1100 volts grade PVC insulated aluminum conductor armoured cable with 10 gauge earth copper wire including cables end termination using appropriate Lugs, Glands, termination acessories, Clamps etc. as required as per specification (<i>Mains</i>). | | Mtr | |
| | | | | |
| 8 | EARTHING | | | |
| | COPPER PLATE EARTH STATION: | | | |
| а | Preparation of the Plate Earth Station:(As per IS:3043) (a) Excavation of hard rocky earth, soft murrum, hard murrum etc and back filling with black cotton soil for the earth station, the earth pit size is 1000 mm X 1000 mm X 2500 mm. (b) Supply and fixing of Copper Plate of Size 600 mm X 600 mm X 3.0 mm thick. (c) Fixing of 50 mm X 6 mm, 3 Mtrs copper strips from Copper Plate to earth terminal including brazing/welding at plate etc. (d) Supply and laying in position 19 mm, 2 Mtrs G.I "B" Class pipe for watering with reducer/funnel with mesh. (e) Supply and Fixing of the following in the earth station. (i) 75 Kg. Charcoal. (ii) 15 Kg. Original Salt. (iii) Black Cotton soil of adequate amount. (f) Construction of earth pit chamber including necessary brick work concrete, plastering, S/F of C.I Cover of size 12" X 12" complete as per site requirment. | | Nos | |
| b | G.I.PLATE EARTH STATION: Preparation of the Plate Earth Station: (as per IS:3043) (a) Excavation of rocky earth, soft murrum, hard murrum etc and back filling with black cotton soil for the earth station, the earth pit size is 1000 mm x 1000 mm x 2500 mm deep. (b) S/F of G.I. plate of size 600 x 600 x 6.0 mm thick. (c) S/F fixing 50 mm x 6 mm, 3 mtrs G.I, strips from G.I.plate to earth terminal including brazing / welding at plate etc. (d) Supplying and laying in position 19 mm, 2 mtrs G.I. `B' class pipe for watering.with reducer/funnel with mesh. (e) S/F of the following in the earth station. 75 Kg. Charcoal, 15 Kg. Original Salt. and Black Cotton soil of adequate amount. (f) Construction of earth pit chamber including necessary brick work concrete, plastering, S/F of C.I. Cover of size 12" x 12" complete as per site req.and marking its value & identification etc. | | Nos | |
| d | Providing and fixing of Copper / GI strips in surface or in recess for loop | | | |
| i | earthing etc. as required. 25 mm x 3 mm copper strip with proper clamps | 4.5 | V 41 | |
| ii | 25 mm x 5 mm GI strip | 15 | _ | |
| | · | 15 | Mtr | |
| iii | 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. | | Mtr | |
| е | OCCUPANCY SENSORS:- Supply, installation, testing and commissioning of occupancy sensor surface/recess mounted as per site condition complete with all wiring/conduit/Switch etc complete in all respect as per site condition as required Honeywell Make K5015/16, Siemens/Johnson Control OR Equivalent as per Bank's approved. | 2 | | |
| 9 | TELEPHONE POINT | | | |
| | | | | 1 |

| Two pair, 0.61 mm dia. telephone cable inned copper conductor, P. V.C. insulated and sheathed, fire raterding, and tremite, cobur coded velsed pairs and rip cord, Double outlet The length of telephone cable upto 35 meter length or less as per site condition with shurter modular type Telephone Outlets (RI — 11) with suitable size MS (PVC) modular boxes and it laving, fixing, setting and commissioning in suitable size 2025 mm dia 16 8VPC (Medium Gauge) thickness rigid PVC conduit with count accessorable be benedity incurs to V cover place sheet size of an analysis of the set of the complete as required as per size condition. The floor/ort/vall junction box should be of MS/heavy duty) box of suitable size and covered with Steel finish Steel cover sheet by screw light and gasket to avoid water/dust insertion. Make of Material: Delton/Finolex/RR cable Supplying and fixing of krone telephone tag block on surface/ recess mounted with its accessories suitable for the multi-core telephone cable and shall accommodate sin-plated phosphor bronze connectors, the connectors shall splice unskined cables up to 0.61 mm dia and shall be terminate both incoming and out giving limiter, the tag blocks shall be terminate both incoming and out giving limiter, the tag blocks shall be learninate both incoming and out giving limiter, the tag blocks shall be learninate both incoming and out giving limiter, the tag blocks shall be learninate both incoming and out giving limiter, the tag blocks shall be learninate both incoming and out giving limiter, the tag blocks of the pair LITP CAT 6 LAN cables length up to 30 meter length or less a per site conditionin suitable size 2022 mm dia. 16 SVIG wall histoness rigid PVC conduit with conduit accessories like hendiquicion box if and box et on surface/recessed manner and making good all the damages, painting, cleaning the site et complete as required at per site of the pair o | | Two main 0.04 mans also talent and a state that a discount of the DMO | | 1 | |
|--|-----|---|----|-----|--|
| mounted with its accessories suitable for the multi core telephone cable and shall accommodate tin-plated phosphor bronze connectors, the connectors shall splice unskinned cables up to 0.61 mm dia and shall be terminate both incoming and out going lines, the tag blocks shall be mounted inside, water proof box and locking arrangement and shall be truly accessible. (A) 20 Pair tag block 1 DATA CABLING FOR LAN Providing, fixing, testing and commissioning of all nodes of four pair UTP CAT 6 LAN cables length upto 30 meter length or less as per site conditionin suitable size 20/25 mm dia, 16 SWG wall thickness rigid PVC conduit with conduit accessories like bend/junction box/ fan box etc on surface/recessed manner and making good all the damages, painting, cleaning the site etc complete as required as per site condition and as directed as required. Junction box shuld be covered with Stainless steel plate with screw with gasket for protection of water/dust. Providing, fixing, testing and commissioning of modular type Information Outlets with suitable size of MS/PVC modular boxes complete, all accessories with insulation displacement connectors etc suitable for CAT 6 UTP cabling with RJ-45 socket with testing and commissioning of STP cabling with RJ-45 socket with testing and commissioning of STP cabling with scanner for all the nodes/switches/jack panel complete (Each point/circuit/cable from both load and source end to be marked with ferrules.) Make of Material: (i) Data Cable, Cat 6 cable, Switch, Jack panel, Rack, Patch cords & Other accessories: D-Link, Legrand Providing, assembling, fixing, testing and commissioning Floor/Wall mounted RACK for gig switches, patch panels etc including cooling DuAL tan trays, a 10 Point PDU, Fixed Trays as necessary connectivity complete as required & (D-Link make) Providing, fixing,testing and commissioning of four pair CAT 6 LAN cable in suitable size of 20/25mm PVC medium gauge 165WG conduit including all accessories to interconnect the switches from different location. | (i) | insulated and sheathed , fire retarding, anti termite, colour coded twisted pairs and rip cord, Double outlet The length of telephone cable upto 35 <i>meter length</i> or less as per site condition with shutter modular type Telephone Outlets (RJ — 11) wth suitable size MS / PVC modular boxes and it laying, fixing, testing and commissioning in suitable size 20/25 mm dia,16 SWG (Medium Gauge) thickness rigid PVC conduit with conduit accessories like bend/junction box / cover plate/ sheet steel/PVC box on surface/ concealed manner i/c electrical connections and making goods all the damages, replastering, painting, cleaning the site etc complete as required as per site condition. The floor/roof/wall junction box shuold be of MS(heavy duty) box of suitable size and covered with Steel finish Steel cover sheet by screw tight and gasket to avoid water/dust insertion. Make of Material:- Delton/Finolex/RR cable | - | Nos | |
| Providing, fixing, testing and commissioning of all nodes of four pair UTP CAT 6 LAN cables length upto 30 meter length or less as per site condition suitable size 20/25 mm dia, 16 SWG wall thickness rigid PVC conduit with conduit accessories like bend/junction box/ fan box etc on surface/recessed manner and making good all the damages, painting, cleaning the site etc complete as required as per site condition and as directed as required. Junction box shuld be covered with Stainless steel plate with screw with gaskef for protection of water/dust. Providing, fixing, testing and commissioning of modular type Information Outlets with suitable size of MS/PVC modular boxes complete, all accessories with insulation displacement connectors etc suitable for CAT 6 UTP cabling with RJ-45 socket with testing and commissioning of STP cabling with scanner for all the nodes/switches/jack panel complete (Each point/circuit/cable from both load and source end to be marked with ferrules.) Make of Material: (i) Data Cable, Cat 6 cable, Switch, Jack panel, Rack, Patch cords & Other accessories: D-Link, Legrand Providing and fixing Patch Panels 30 port (100 base TX) CAT 6 patch/jack panel with connector, out lets and necessary connectivity complete as required & (D-Link make) Providing, assembling, fixing, testing and commissioning Floor/Wall mounted RACKS for gig switches, patch panels etc including cooling DUAL fan trays, a 10 Point PDU, Fixed Trays as necessarycomplete. 9 U wall mounted RACKS for gig switches, patch panels etc including cooling DUAL fan trays, a 10 Point PDU, Fixed Trays as necessarycomplete. 9 U wall mounted RACKS for gig switches, patch panels etc including cooling DUAL fan trays, a 10 Point PDU, Fixed Trays as necessarycomplete. 9 U wall mounted RACK for gig switches, patch panels etc including cooling DIAL fan trays, a 10 Point PDU, Fixed Trays as necessarycomplete. 9 U wall mounted RACK for gig switch for the subject of the patch of the p | | mounted with its accessories suitable for the multi core telephone cable and shall accommodate tin-plated phosphor bronze connectors, the connectors shall splice unskinned cables up to 0.61 mm dia and shall be terminate both incoming and out going lines, the tag blocks shall be mounted inside, water proof box and locking arrangement and shall be fully accessible. (A) 20 Pair tag block | | Nos | |
| CAT 6 LAN cables length upto 30 meter length or less as per site conditionin suitable size 20/25 mm dia, 16 SWG wall thickness rigid PVC conduit with conduit accessories like bendjunction box/ fan box etc on surface/recessed manner and making good all the damages, painting, cleaning the site etc complete as required as per site condition and as directed as required as per site condition and as directed as required sa per site condition and as directed as required should be covered with Stainless steel plate with screw with gasket for protection of water/dust. Providing, fixing, testing and commissioning of modular type Information Outlets with suitable size of MS/PVC modular boxes complete, all accessories with insulation displacement connectors etc suitable for CAT 6 UTP cabling with RJ-45 socket with testing and commissioning of STP cabling with scanner for all the nodes/switches/jack panel complete (Each point/circuit/cable from both load and source end to be marked with ferrules.) Make of Material: (i) Data Cable, Cat 6 cable, Switch, Jack panel, Rack, Patch cords & Other accessories: D-Link, Legrand Providing and fixing Patch Panels 30 port (100 base TX) CAT 6 patch/jack panel with connector, out lets and necessary connectivity complete as required & (D-Link make) Providing, assembling, fixing, testing and commissioning Floor/Wall mounted RACKS for gig switches, patch panels etc including cooling DUAL fan trays, a 10 Point PDU, Fixed Trays as necessarycomplete. 9 U wall mounted RACKs for gig switches, patch panels etc including cooling DUAL fan trays, a 10 Point PDU, Fixed Trays as necessarycomplete. 9 U wall mounted RACKs for gig switches, patch panels etc including cooling DUAL fan trays, a 10 Point PDU, Fixed Trays as necessarycomplete. 9 U wall mounted RACKs for gig switches, patch panels etc including cooling DUAL fan trays, a 10 Point PDU, Fixed Trays as necessarycomplete. 9 U wall mounted RACKs for gig switches, patch panels etc including cooling Dual face so for gig switch panels and patch patc | 10 | | | | |
| b patch/jack panel with connector, out lets and necessary connectivity complete as required & (D-Link make) Providing, assembling, fixing, testing and commissioning Floor/Wall mounted RACKS for gig switches, patch panels etc including cooling DUAL fan trays, a 10 Point PDU, Fixed Trays as necessarycomplete. 9 U wall mounted RACK d Providing and fixing of flowing factory fabricated Patch cords. (UTP/CAT 6 complte with connector on both side.) i) for 1 Mt. long for 2 Mt. long Providing, fixing,testing and commissioning of four pair CAT 6 LAN cable in suitable size of 20/25mm PVC medium gauge 16SWG conduit including all accessories to interconnect the switches from different location. 30 Mtr TV POINT:-Supply, installation, testing and commissioning of TV point(Modular) with RG-6 cable in the Medimum Gauge 1.6 mm PVC Conduit with all accessories complete in all respect 1 Nos Supply and installation of Vinyl sticker for on Electrical DBs like, "Switch Off at Night", Switch Off For Safety, etc Making & Providing of 3 sets of Asbuilt Drawing with coloured print for entier Electrical work (Power/UPS/Light/Data/ Telephone/AC etc.) as advised by the Bank's Authority. | а | CAT 6 LAN cables length upto <i>30 meter length</i> or less as per site conditionin suitable size 20/25 mm dia, 16 SWG wall thickness rigid PVC conduit with conduit accessories like bend/junction box/ fan box etc on surface/recessed manner and making good all the damages, painting, cleaning the site etc complete as required as per site condition and as directed as required. Junction box shuld be covered with Stainless steel plate with screw with gasket for protection of water/dust. Providing, fixing, testing and commissioning of modular type Information Outlets with suitable size of MS/PVC modular boxes complete, all accessories with insulation displacement connectors etc suitable for CAT 6 UTP cabling with RJ-45 socket with testing and commissioning of STP cabling with scanner for all the nodes/switches/jack panel complete (Each point/circuit/cable from both load and source end to be marked with ferrules.) Make of Material:- (i) Data Cable, Cat 6 cable, Switch, Jack panel, Rack, Patch cords & Other accessories:- D-Link, Legrand | 14 | Nos | |
| c mounted RACKS for gig switches, patch panels etc including cooling DUAL fan trays, a 10 Point PDU, Fixed Trays as necessarycomplete. 9 U wall mounted RACK d Providing and fixing of flowing factory fabricated Patch cords. (UTP/CAT 6 complte with connector on both side.) i) for 1 Mt. long | b | patch/jack panel with connector, out lets and necessary connectivity complete as required & (D-Link make) | 1 | Nos | |
| i) for 1 Mt. long ii) for 2 Mt. long Providing, fixing,testing and commissioning of four pair CAT 6 LAN cable in suitable size of 20/25mm PVC medium gauge 16SWG conduit including all accessories to interconnect the switches from different location. 7V POINT:-Supply, installation, testing and commissioning of TV point(Modular) with RG-6 cable in the Medimum Gauge 1.6 mm PVC Conduit with all accessories complete in all respect 1 Nos 12 Supply and installation of Vinyl sticker for on Electrical DBs like, "Switch Off at Night", Switch Off For Safety, etc Making & Providing of 3 sets of Asbuilt Drawing with coloured print for entier Electrical work (Power/UPS/Light/Data/ Telephone/AC etc.) as advised by the Bank's Authority. | С | mounted RACKS for gig switches, patch panels etc including cooling DUAL fan trays, a 10 Point PDU, Fixed Trays as necessarycomplete. 9 U wall mounted RACK | | Nos | |
| ii) for 1 Mt. long iii) for 2 Mt. long Providing, fixing,testing and commissioning of four pair CAT 6 LAN cable in suitable size of 20/25mm PVC medium gauge 16SWG conduit including all accessories to interconnect the switches from different location. TV POINT:-Supply, installation, testing and commissioning of TV point(Modular) with RG-6 cable in the Medimum Gauge 1.6 mm PVC Conduit with all accessories complete in all respect Supply and installation of Vinyl sticker for on Electrical DBs like, "Switch Off at Night", Switch Off For Safety, etc Making & Providing of 3 sets of Asbuilt Drawing with coloured print for entier Electrical work (Power/UPS/Light/Data/ Telephone/AC etc.) as advised by the Bank's Authority. | d | | | | |
| ii) for 2 Mt. long Providing, fixing, testing and commissioning of four pair CAT 6 LAN cable in suitable size of 20/25mm PVC medium gauge 16SWG conduit including all accessories to interconnect the switches from different location. TV POINT:-Supply, installation, testing and commissioning of TV point(Modular) with RG-6 cable in the Medimum Gauge 1.6 mm PVC Conduit with all accessories complete in all respect Supply and installation of Vinyl sticker for on Electrical DBs like, " Switch Off at Night", Switch Off For Safety, etc Making & Providing of 3 sets of Asbuilt Drawing with coloured print for entier Electrical work (Power/UPS/Light/Data/ Telephone/AC etc.) as advised by the Bank's Authority. 13 Nos 14 Nos Nos Lum Lum sum | i) | · | 13 | Nos | |
| Providing, fixing,testing and commissioning of four pair CAT 6 LAN cable in suitable size of 20/25mm PVC medium gauge 16SWG conduit including all accessories to interconnect the switches from different location. TV POINT:-Supply, installation, testing and commissioning of TV point(Modular) with RG-6 cable in the Medimum Gauge 1.6 mm PVC Conduit with all accessories complete in all respect Supply and installation of Vinyl sticker for on Electrical DBs like, "Switch Off at Night", Switch Off For Safety, etc Making & Providing of 3 sets of Asbuilt Drawing with coloured print for entier Electrical work (Power/UPS/Light/Data/ Telephone/AC etc.) as advised by the Bank's Authority. | | · · | | | |
| 11 point(Modular) with RG-6 cable in the Medimum Gauge 1.6 mm PVC Conduit with all accessories complete in all respect 1 Nos Supply and installation of Vinyl sticker for on Electrical DBs like, " Switch Off at Night", Switch Off For Safety, etc Making & Providing of 3 sets of Asbuilt Drawing with coloured print for entier Electrical work (Power/UPS/Light/Data/ Telephone/AC etc.) as advised by the Bank's Authority. Lum sum | | Providing, fixing,testing and commissioning of four pair CAT 6 LAN cable in suitable size of 20/25mm PVC medium gauge 16SWG conduit including all accessories to interconnect the switches from different location. | | | |
| Supply and installation of Vinyl sticker for on Electrical DBs like, " Switch Off at Night", Switch Off For Safety, etc Making & Providing of 3 sets of Asbuilt Drawing with coloured print for entier Electrical work (Power/UPS/Light/Data/ Telephone/AC etc.) as advised by the Bank's Authority. 10 Nos Lum sum | 11 | point(Modular) with RG-6 cable in the Medimum Gauge 1.6 mm PVC | | Nos | |
| entier Electrical work (Power/UPS/Light/Data/ Telephone/AC etc.) as advised by the Bank's Authority. Lum sum | 12 | Supply and installation of Vinyl sticker for on Electrical DBs like, " Switch Off at Night", Switch Off For Safety, etc | 10 | | |
| Description of light / fail fixture | 13 | entier Electrical work (Power/UPS/Light/Data/ Telephone/AC etc.) as advised by the Bank's Authority. | | | |
| | | Description of light / fail fixture | | | |

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| 14 | LED LUMINARES:- 2' x2' (FULL GLOW TYPE) LED light fittings (600 X600mm) dimension suitable for grid/gypsum ceiling complete with its electrionic driver as required per instruction of Bank's Model No are as under:- PHILIPS:- RC380B G2 LED 35S-6500 PSU OD WH LED (FULLGLOW) WIPRO:- CRCO1ORO 38 HP57 HAVELLS:- LHECDIL7IL1W036 (Edge- Lit) CG:- LCTAR3-40-CDL | 30 | Nos | |
| 15 | LED DOWNLIGHTER: 15 Watt, recessed mounted circular down lighter, 6" dimension with complete its electronic driver are as under:- PHILIPS:- GREENLED-DN193B LED-12S-6500 PSU WIPRO:- IRIS LED LD 71-121-XXX-50-XX HAVELLS:- LHEBJNP ZPZ 1W 015(ENDURA LOW DEPTH) CG:- LC DD-15-CDL, | 38 | Nos | |
| 16 | LED Spot Light, 3 Watt, 2/3"(Inches) size as per site requirment. PHILIPS, WIPRO, HAVELLS, CG | 10 | Nos | |
| 17 | LED COVE / STRIP LIGHT WITH ITS ELECTRONIC DRIVER(BLUE COLOUR):- Supply, installation, testing and commissioning of bright LED strip light with its electronic driver complete as required. PHILIPS, WIPRO, HAVELLS, CG | 75 | Mtr | |
| 18 | Providing & fixing of "Digital Clock" /Digital Panel indicating Time, Day, Date, Temperature at outside of big size,(Ajanta - OLC-1070) as suitable over the facade as advised by the Bank with standard power back up. Make:- Ajanta, Titan | 1 | Nos | |
| 19 | BOX TYPE LUMINAIRES: LED TUBE FITTINGS, 1200mm, 18/20 Watt - PHILIPS/WIPRO/HAVELLS/CG | 14 | Nos | |
| 20 | CEILING FAN: Single phase heavy duty grease filled double ball bearing, aerodynamically designed heavy gauge aluminium blades, copper wounded and impregnated silicon stamping motors etc 1200 mm sweep, brilliant white CG/USHA/ ORIENT/HAVELLS | 16 | Nos | |
| | Sub Total : Part A (Electrical Works) | | | |
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Note:- The rates quoted includes all other taxes, duties, loading, unloading, transportation, other expenses etc to site.

GST will be paid additionally as applicable

Seal & Signature of Contractor