

**INDIAN INSTITUTE OF TECHNOLOGY KANPUR****Tender Notice No. 65/Elect./2020****SCHEDULE OF QUANTITY****Name of Work: Zonal contract for petty electrical works of academic area Zone- III (Phase -I).****Name of the Contractor**

| Name of the Contractor |  |       |      |                           |        |
|------------------------|--|-------|------|---------------------------|--------|
| S. No                  | Description of Items   | Qty   | Unit | Rate in Figures in Rupees | Amount |
| 1                      | Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with piano type switch, phenolic laminated sheet, suitable size MS box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required. |       |      |                           |        |
| a                      | Group C  | 10.00 | Nos. |                           |        |
| 2                      | Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.                    |       |      |                           |        |
| a                      | Group 'C'  | 10.00 | Nos. |                           |        |
| 3                      | Rewiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable and 1.5 sq.mm FRLS PVC insulated copper conductor single core cable as earth wire in existing surface/ recessed steel/PVC conduit including dismantling as required.  |       |      |                           |        |
| a                      | Group 'C'  | 10.00 | Nos. |                           |        |
| 4                      | Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/recessed steel/PVC conduit as reqd.  |       |      |                           |        |
| a                      | 1 X 1.5 Sq.mm  | 50.00 | Mtr  |                           |        |

|    |  |        |      |  |  |
|----|--|--------|------|--|--|
| b  | 3 X 1.5 Sq.mm  | 150.00 | Mtr  |  |  |
| c  | 3 X 2.5 Sq.mm  | 100.00 | Mtr  |  |  |
| d  | 2 X 4 Sq.mm  | 50.00  | Mtr  |  |  |
| e  | 3 x 4 Sq.mm  | 100.00 | Mtr  |  |  |
| f  | 3 X 6 Sq.mm  | 101.00 | Mtr  |  |  |
| g  | 2 X 10 Sq.mm   | 50.00  | Mtr  |  |  |
| h  | 3 X 10 Sq.mm   | 80.00  | Mtr  |  |  |
| i  | 2 X 16 Sq.mm   | 50.00  | Mtr  |  |  |
| j  | 3 X 16 Sq.mm   | 70.00  | Mtr  |  |  |
| k  | 2 X 25 Sq.mm   | 50.00  | Mtr  |  |  |
| 5  | Supply and drawing following PVC insulated copper conductor flexible round cable for connection of equipment, exhaust fan, AC etc. as reqd.  |        |      |  |  |
| a) | 3 core 1.5 sq.mm   | 50.00  | Mtr. |  |  |
| b) | 3 core 2.5 Sq.mm   | 50.00  | Mtr. |  |  |
| c) | 3 core 4.0 Sq.mm   | 49.00  | Mtr. |  |  |
| d) | 4 core 2.5 Sq.mm   | 50.00  | Mtr. |  |  |
| e) | 4 core 4.0 Sq.mm   | 50.00  | Mtr. |  |  |
| 6  | Supplying and drawing two pair 0.5 dia FRLS PVC insulated annealed copper conductor, unarmoured telephone cable in the existing surface/recessed steel/PVC conduit as reqd.  | 200.00 | Mtr  |  |  |
| 7  | Supplying and fixing of following sizes of steel conduit along with accessories in surface/recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as reqd. |        |      |  |  |
| a  | 20 mm  | 25.00  | Mtr  |  |  |

|    |  |       |      |  |  |
|----|--|-------|------|--|--|
| b  | 25 mm  | 25.00 | Mtr  |  |  |
| c  | 32 mm  | 25.00 | Mtr  |  |  |
| d  | 40 mm  | 25.00 | Mtr  |  |  |
| 8  | Providing and fixing following sizes of PVC casing and capping on surface as reqd.                     |       |      |  |  |
| a  | 20 x 12 mm   | 50.00 | Mtr. |  |  |
| b  | 25 x 16 mm   | 50.00 | Mtr. |  |  |
| 9  | Supply and fixing of 32 x 12.5 mm DLP mini- trunking with independent cover etc. as required complete. | 50.00 | Mtr. |  |  |
| 10 | Supply and fixing of following accessories suitable for 32 mm x 12.5 mm size plastic trunking .        |       |      |  |  |
| a  | End cap  | 2.00  | Nos. |  |  |
| b  | Internal angle/ External angle   | 2.00  | Nos. |  |  |
| c  | Changeable flat angle  | 2.00  | Nos. |  |  |
| d  | Flat Junction  | 2.00  | Nos. |  |  |
| 11 | Supply and fixing of 32 x 20 mm DLP mini- trunking with independent cover etc. as required complete.   | 50.00 | Mtr. |  |  |
| 12 | Supply and fixing of following accessories suitable for 32 mm x 20 mm size plastic trunking.           |       |      |  |  |
| a  | End cap  | 5.00  | Nos. |  |  |
| b  | Internal angle/ External angle   | 5.00  | Nos. |  |  |
| c  | Changeable flat angle  | 5.00  | Nos. |  |  |
| d  | Flat Junction  | 5.00  | Nos. |  |  |
| 13 | Supply and fixing of 105 x 50 mm DLP trunking but without cover and partion etc. as required complete. | 50.00 | Mtr. |  |  |
| 14 | Supply and fixing of following accessories suitable for 105 mm x 50 mm size plastic trunking .         |       |      |  |  |

|    |   |       |      |  |  |
|----|---|-------|------|--|--|
| a  | 85 mm width flexible cover  | 50.00 | Mtr. |  |  |
| b  | End cap   | 20.00 | Nos. |  |  |
| c  | Internal angle.   | 10.00 | Nos. |  |  |
| d  | External angle  | 10.00 | Nos. |  |  |
| e  | Flat Junction   | 10.00 | Nos. |  |  |
| f  | Changeable flat angle   | 5.00  | Nos. |  |  |
| g  | Separation partitions   | 25.00 | Mtr. |  |  |
| h  | cover joint   | 10.00 | Nos. |  |  |
| i  | Base joint  | 10.00 | Nos. |  |  |
| 15 | Supplying and fixing of 32 mm dia X 2.00 metres long G.I. pipe (medium class) bracket for mounting of fluorescent / HPMV / HPSV street light fitting on pole including bending the pipe to the required shape, 2 nos 40 mm X 3 mm flat iron clamps with nuts, bolts and washer, painting the flat iron with primer and finish paint etc. as required. | 10.00 | Nos. |  |  |
| 16 | Supply & Laying of 32 mm dia, 8Kg / cm <sup>2</sup> , minimum 2.0 mm thick HDPE pipe, ISI mark in following manners as required complete.   |       |      |  |  |
| a  | In ground i/c excavation sand cushioning protective covering, refilling of eath as reqd.  | 50.00 | Mtr. |  |  |
| b  | Fixing on surface with MS clamp   | 50.00 | Mtr. |  |  |
| c  | In existing pipe  | 20.00 | Mtr. |  |  |
| d  | In existing open duct.  | 20.00 | Mtr. |  |  |
| 17 | Supply & Laying of 40 mm dia, 8Kg / cm <sup>2</sup> , minimum 2.0 mm thick HDPE pipe, ISI mark in following manners as required complete.   |       |      |  |  |
| a  | In ground i/c excavation sand cushioning protective covering, refilling of eath as reqd.  | 50.00 | Mtr. |  |  |
| b  | Fixing on surface with MS clamp   | 50.00 | Mtr. |  |  |

|    |   |       |      |  |  |
|----|---|-------|------|--|--|
| c  | In existing pipe  | 20.00 | Mtr. |  |  |
| d  | In existing open duct.  | 20.00 | Mtr. |  |  |
| 18 | Extra for cutting and drilling hole & panting of down rod of G.I pipe,15 mm dia for ceiling fan etc as required.  | 10.00 | Job  |  |  |
| 19 | Supplying & fixing 15 mm dia GI pipe for down rod for fixing of ceiling fans etc as reqd.   | 10.00 | Mtr. |  |  |
| 20 | S & F of following size of steel flexible pipe alongwith the accessories on surface etc as required.  |       |      |  |  |
| a  | 20 mm   | 5.00  | Mtr. |  |  |
| b  | 25 mm   | 5.00  | Mtr. |  |  |
| c  | 32 mm   | 10.00 | Mtr. |  |  |
| d  | 40 mm   | 5.00  | Mtr. |  |  |
| 21 | Earthing with GI earth electrode 50mm dia x 3 mtr length including earth enhancing compound (Jam Fill quality product) and PIT cover for earthing pit etc as reqd. (193GI JMV)  | 5.00  | Set  |  |  |
| 22 | Earthing with Copper bonded earth electrode 50mm dia x 3 mtr length including earth enhancing compound (Jam Fill quality product) and PIT cover for earthing pit etc as reqd. (503 CBE JMV).  | 5.00  | Set  |  |  |
| 23 | Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.   | 5.00  | Set  |  |  |
| 24 | Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required. | 5.00  | Set  |  |  |
| 25 | Supplying and laying 25 mm X 5 mm G.I. strip at 0.50 metre below ground as strip earth electorde, including soldering etc. as required.   | 10.00 | Mtr  |  |  |

|    |   |       |      |  |  |
|----|---|-------|------|--|--|
| 26 | Providing and fixing 25 mm X 5 mm copper strip in 40 mm dia G.I. pipe from earth electrode including connection with brass nut, bolt, spring, washer excavation and re-filling etc. as required.  | 5.00  | Mtr  |  |  |
| 27 | Providing and fixing 25 mm X 5 mm copper strip on surface or in recess for connections etc. as required.  | 6.00  | Mtr  |  |  |
| 28 | Providing & fixing 25mm x 5mm GI strip on surface or in recessd for connection etc. as reqd.  | 15.00 | Mtr  |  |  |
| 29 | Providing and fixing 6 SWG dia G.I wire on surface or in reces for loop earthing along with existing surface/ recessed conduit/ submain wiring cable/ cable as required.  | 50.00 | Mtr  |  |  |
| 30 | Supplying and fixing 20 amps, 240 volts, SPN industrial type, socket outlet, with 2 pole and earth, metal enclosed plug top alongwith 20 amps "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required. | 10.00 | Nos. |  |  |
| 31 | S & F rotary drive kit complete with handle and padlock facility for 125 amp MCCB etc. as reqd.   | 5.00  | Nos. |  |  |
| 32 | Providing and fixing following rating and breaking capacity four pole 415V 50Hz MCCB in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc as required.  |       |      |  |  |
| a  | 125 Amp, 35/36 kA   | 2.00  | Nos. |  |  |
| b  | 200 Amp, 35/36 kA   | 5.00  | Nos. |  |  |
| c  | 250 Amp, 35/36 kA   | 5.00  | Nos. |  |  |
| d  | 400 Amp, 50 kA  | 5.00  | Nos. |  |  |
| 33 | Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 volts, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)                                |       |      |  |  |
| a  | 6 Way (2+6) , double door   | 2.00  | Nos. |  |  |
| b  | 8 Way (2+8) , double door   | 5.00  | Nos. |  |  |

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|----|---|-------|------|--|--|
| c  | 12 Way (2+12), double door  | 5.00  | Nos. |  |  |
| 34 | Supplying and fixing following way prewired TP&N MCB distribution board of steel sheet for 415 volts on surface/ recess complete with loose wire box, terminal connectors for all incoming and outgoing circuits, duly prewired with suitable size FR PVC insulated copper conductor up to terminal blocks, tinned copper bus bar, neutral link, earth bar, din bar, detachable gland plate, interconnections, powder painted including earthing etc. as required.(But without MCB/ RCCB/ Isolator)   |       |      |  |  |
| a  | 4 way ( 4 + 12 ), Double door   | 2.00  | Nos. |  |  |
| b  | 6 way ( 4 + 18 ), Double door   | 5.00  | Nos. |  |  |
| c  | 8 way ( 4 + 24 ), Double door   | 5.00  | Nos. |  |  |
| 35 | Supplying and fixing following way prewired vertical type TP&N MCB distribution board of steel sheet for 415 volts on surface/ recess complete with loose wire box of sheet steel, dust protected, duly powder painted, inclusive of 200 amps tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCB's, terminal connectors for all incoming and outgoing circuits, duly prewired with adequate size of FR PVC insulated copper conductor upto the terminal connector/ neutral link, earthing etc as required (But without MCB/ RCCB/ Isolator). (Note : Prewired vertical type MCB TPDB is normally used where 3 phase outlets are required.) |       |      |  |  |
| a  | 4 way (4 + 12) Double door  | 2.00  | Nos. |  |  |
| b  | 8 way (4 + 24) Double door  | 2.00  | Nos. |  |  |
| c  | 12 way (4 + 36) Double door   | 2.00  | Nos. |  |  |
| 36 | Supplying and fixing following rating, 240/415 volts, 'C' series, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc as reqd.   |       |      |  |  |
| a  | Single Pole ( 5 Amp to 32 Amp )   | 20.00 | Nos. |  |  |

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|----|--|-------|------|--|--|
| b  | Double Pole ( 5 Amp to 32 Amp )  | 5.00  | Nos. |  |  |
| c  | Tripple Pole ( 5 Amp to 32 Amp )   | 5.00  | Nos. |  |  |
| d  | Four Pole ( 5 Amp to 32 Amp )  | 5.00  | Nos. |  |  |
| e  | Single Pole ( 40 Amp to 63 Amp )   | 5.00  | Nos. |  |  |
| f  | Double Pole ( 40 Amp to 63 Amp )   | 5.00  | Nos. |  |  |
| g  | Tripple Pole ( 40 Amp to 63 Amp )  | 5.00  | Nos. |  |  |
| h  | Four Pole ( 40 Amp to 63 Amp )   | 5.00  | Nos. |  |  |
| 37 | Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as reqd.  |       |      |  |  |
| a  | 1 or 2 module (75mm x 75mm)  | 2.00  | Nos. |  |  |
| b  | 3 module (100mm x 75mm)  | 5.00  | Nos. |  |  |
| c  | 4 module (125mm x 75mm)  | 5.00  | Nos. |  |  |
| d  | 6 module (200mm x 75mm)  | 5.00  | Nos. |  |  |
| e  | 8 module (125mm x 125mm)   | 5.00  | Nos. |  |  |
| f  | 12 module (200mm x 150mm)  | 5.00  | Nos. |  |  |
| 38 | S & F wooden board of following sizes on surface or in recessed with suitable size of phenolic laminated sheet cover in the front etc as reqd.   |       |      |  |  |
| a  | 200 mm x 250 mm  | 5.00  | Nos. |  |  |
| b  | 200 mm x 300 mm  | 5.00  | Nos. |  |  |
| 39 | S&F connecting and commissioning independent mounting of MCCB enclosure suitable for upto 250 amp MCCB as per approved make in surface/recess i/c cutting the wall and making good the same in case of recessed etc as reqd. complete. | 5.00  | Nos. |  |  |
| 40 | S & F metal enclosure suitable for DP/TP/FP MCB on surface or recessed etc as reqd.  | 10.00 | Nos. |  |  |



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|----|---|--------|------|--|--|
| 41 | Supply & fixing of 10 watt 1 feet long wall mounted LED light fitting cat no. LCL-07-CDL Linnet Crompton make or equivalent approved make.  | 2.00   | Nos  |  |  |
| 42 | Cleaning of any type of fittings.   | 75.00  | Nos. |  |  |
| 43 | Supply, fixing, connecting, testing and commissioning of 10 Watt LED bulkhead fitting IP65 surface mounting luminaires with suitable LED lamp and connection Sunrise make Crompton or equivalent approved make. | 2.00   | Nos  |  |  |
| 44 | Supplying, fixing, connecting & commissioning of mirror /Black board light fitting 1x36w i/c suitable arrangement of fixing etc. as reqd.   | 10.00  | Nos. |  |  |
| 45 | Supply, installation, testing and commissioning of following LED lamp in existing fitting as required complete.   |        |      |  |  |
| a  | 20 watt ESENTIAL PHILIPS or equivalent Tube in place of 36/40 W FL tube   | 300.00 | Nos. |  |  |
| b  | 16 watt Tube in place of 28W T5 FL tube   | 50.00  | Nos. |  |  |
| c  | 18 watt tube in place of 36W PLL lamp   | 50.00  | Nos. |  |  |
| 46 | Supply, installation testing and commissioning of following LED light fixtures complete with driver, refelctor, diffuser and lamp as required complete.   |        |      |  |  |
| a  | 1 x 20 watt LED tube fitting surface, rail mounting / ceiling suspended.  | 5.00   | Nos. |  |  |
| b  | 2 x 20 watt LED tube fitting surface, rail mounting / ceiling suspended.  | 5.00   | Nos. |  |  |
| c  | 12 watt LED recess mounted luminaires with diffuser make Crompton or equivalent approved make.  | 5.00   | Nos. |  |  |
| d  | 12 watt LED surface mounted luminaires with diffuser MOONLITE make Crompton or equivalent approved make.  | 5.00   | Nos. |  |  |
| e  | 18 watt LED recess mounted luminaires, POLARIS IV make Crompton or equivalent approved make.  | 5.00   | Nos. |  |  |
| f  | 18 watt LED surface mounted luminaires, POLARIS IV make Crompton or equivalent approved make.   | 5.00   | Nos. |  |  |
| g  | 34/35/36 watt, 600 mm X 600 mm LED recess mounted luminaires, POLARIS I make Crompton or equivalent approved make.  | 5.00   | Nos. |  |  |
| h  | 34/35/36 watt, 600 mm X 600 mm, LED surface mounted luminaires, POLARIS III make Crompton or equivalent approved make.  | 2.00   | Nos. |  |  |

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|----|--|--------|------|--|--|
| i  | 36/40 watt recess mounting LED light fixture 300 x 1200 mm Make Crompton or its equivalent approved make.  | 2.00   | Nos. |  |  |
| j  | 36/40 watt surface mounting LED light fixture 300 x 1200 mm Make Crompton or its equivalent approved make.   | 2.00   | Nos. |  |  |
| 47 | Supplying and fixing, 25 Watt LED street light luminaries with pressure die cast aluminium housing IP66 complete with all accessories complete ASTRA make Crompton or equivalent approved make.  | 5.00   | Nos. |  |  |
| 48 | Supplying and fixing, 45 Watt LED street light luminaries with pressure die cast aluminium housing IP66 complete with all accessories ENDURA PEARL NEO make Havells or equivalent approved make.   | 5.00   | Nos. |  |  |
| 49 | Supply, fixing, connecting, commissioning & testing of 40 watt LED Post top lantern light complete with all accessories including rag bolts with washer MAPLE make Crompton or equivalent approved make.   | 5.00   | Nos. |  |  |
| 50 | Repairing, cleaning and replacement of damaged part i.e holder, Lamp, tubes, chokes starter etc. of any type of fittings(Parts to be supplied by Institute).   | 10.00  | Nos. |  |  |
| 51 | Alteration of internal wiring in existing fitting of any type for retrofitting of tube LED i/c dismantling & refixing as reqd.   | 100.00 | Nos. |  |  |
| 52 | Supplying and fixing 3 pin, 5 amp. Ceiling rose on the existing junction box/ wooden block including connection etc as required.   | 10.00  | Nos. |  |  |
| 53 | Supplying and fixing brass batten/angel holder i/c connection etc as reqd.   | 10.00  | Nos. |  |  |
| 54 | Supplying and fixing call bell/ buzzer suitable for A.C. single phase, 230 volts, complete as required.  | 10.00  | Nos. |  |  |
| 55 | Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting of all types, complete with all accessories and tube etc. directly on ceiling/ wall, including connection with 1.5 sq. mm FR PVC insulated, copper conductor, single core cable and earthing etc. as required. | 10.00  | Nos. |  |  |
| 56 | Supplying and fixing following piano type switch/socket on the existing switch box/cover including connections etc as reqd.  |        |      |  |  |
| a  | 5/6 amps switch  | 40.00  | Nos. |  |  |

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|----|--|-------|------|--|--|
| b  | 15/16 amps switch  | 40.00 | Nos. |  |  |
| c  | 3/5 pin 5/6 amps socket outlet   | 40.00 | Nos. |  |  |
| d  | 3/5 pin 15/16 amps socket outlet   | 40.00 | Nos. |  |  |
| e  | 2 way 5/6 amps switch  | 2.00  | Nos. |  |  |
| f  | Telephone socket outlet  | 2.00  | Nos. |  |  |
| g  | Bell Push  | 2.00  | Nos. |  |  |
| i  | Fan regulator rotary step  | 2.00  | Nos. |  |  |
| 57 | Supplying and fixing following modular switch/socket on the existing modular plate & switch box/ DLP plastic trunking including connections but excluding modular plate etc as reqd. |       |      |  |  |
| a  | 5/6 amps switch  | 50.00 | Nos. |  |  |
| b  | 15/16 amps switch  | 50.00 | Nos. |  |  |
| c  | 3/5 pin 5/6 amps socket outlet   | 50.00 | Nos. |  |  |
| d  | 3/5 pin 15/16 amps socket outlet   | 50.00 | Nos. |  |  |
| e  | Blanking Plate   | 5.00  | Nos. |  |  |
| f  | Telephone socket outlet  | 5.00  | Nos. |  |  |
| g  | Bell Push  | 5.00  | Nos. |  |  |
| i  | Fan regulator rotary step  | 5.00  | Nos. |  |  |
| j  | RJ-11 Telephone Socket   | 5.00  | Nos. |  |  |
| 58 | Supplying and fixing following Modular GI/plastic base & cover plate on existing modular metal boxes/DLP plastic trunking etc. as required.  |       |      |  |  |
| a  | 1 or 2 Module  | 10.00 | Nos. |  |  |
| b  | 3 Module   | 10.00 | Nos. |  |  |

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|----|--|--------|------|--|--|
| c  | 4 Module   | 5.00   | Nos. |  |  |
| d  | 6 Module   | 10.00  | Nos. |  |  |
| e  | 8 Module   | 5.00   | Nos. |  |  |
| f  | 12 Module  | 10.00  | Nos. |  |  |
| 59 | Supplying and fixing following Module Plastic box for fixing modular switches/sockets in surface/recess etc as required.   |        |      |  |  |
| a  | 1 or 2 Module  | 2.00   | Nos. |  |  |
| b  | 3 Module   | 2.00   | Nos. |  |  |
| c  | 4 Module   | 2.00   | Nos. |  |  |
| d  | 6 Module   | 2.00   | Nos. |  |  |
| e  | 8 Module   | 2.00   | Nos. |  |  |
| f  | 12 /16 Module  | 4.00   | Nos. |  |  |
| 60 | Providing connection for motor/ panel starter/ transformer upto 1 Kva / steblizer.   | 10.00  | Nos. |  |  |
| 61 | Supply fixing connecting & commissioning of 5 Amp. 3 pin Plug top ISI mark as reqd.  | 20.00  | Nos. |  |  |
| 62 | Supply fixing connecting & commissioning of 15 Amp. 3 pin Plug top ISI mark as reqd.   | 20.00  | Nos. |  |  |
| 63 | Supply fixing connecting & commissioning 3 pin metal enclosed plug top 20 Amp. as reqd.  | 10.00  | Nos. |  |  |
| 64 | Supply fixing connecting & commissioning 3 pin metal clade socket 20 Amp. as reqd.   | 10.00  | Nos. |  |  |
| 65 | Fixing, Internet Box of size 75mm x 75mm x 40 mm including brass screw on surface / recessed as reqd.  | 50.00  | Nos. |  |  |
| 66 | Drawing of computer network cable/ PVC insulated flexible copper/ Aluminium single core cable of size 1.5sqmm to 25 sqmm/ telephone cable upto 10 pair in existing pipe / casing and capping as reqd including numbering the wires at both the ends. | 200.00 | Mtr. |  |  |

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|----|--|------|------|--|--|
| 67 | Installation of exhaust fan upto 450 mm sweep in the existing opening, including making the hole to suit the size of the above fan, making good the damage, connection, testing, commissioning etc as required.  | 1.00 | Nos. |  |  |
| 68 | S & F fan hook l/c cutting the slab and fixing with the reinforcement and making damage, painting etc as the same.   | 5.00 | Nos. |  |  |
| 69 | Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CMM/W) minimum 6.85, Air delivery minimum 215 CMM, 350 RPM (tolerance as per IS : 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required. | 5.00 | Nos  |  |  |
| 70 | Supply,Installation, connecting , testing and commissioning of following sizes exhaust fan, 220 volt, 50 Hz in the existing opening as reqd complete.  |      |      |  |  |
| a  | 300 mm   | 5.00 | Nos. |  |  |
| b  | 380 mm   | 5.00 | Nos. |  |  |
| c  | 450 mm   | 5.00 | Nos. |  |  |
| d  | 600 mm   | 5.00 | Nos. |  |  |
| 71 | Supply, Fixing, shutter for following sizes of exhaust fan on rag bolts as reqd. complete.   |      |      |  |  |
| a  | 300 mm   | 2.00 | Nos. |  |  |
| b  | 380 mm   | 2.00 | Nos. |  |  |
| c  | 450 mm   | 2.00 | Nos. |  |  |
| d  | 600 mm   | 1.00 | Nos. |  |  |

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|----|--|-------|------|--|--|
| 72 | Supply and Fixing, of 400 mm sweep AC 230/250 volts, 50 HZ wall mounting revolving fan with brackets etc. required complete  | 5.00  | Nos. |  |  |
| 73 | Supplying and fixing connecting and commissioning of AC 230/250 volts, 50 HZ, 250 mm sweep fresh air fan including providing nuts, bolts, mounting frame and other accessories etc. complete | 5.00  | Nos. |  |  |
| 74 | Supply, Fixing, wall mounting aircirculator fan 450 mm Crompton make or equivalent make as reqd  | 1.00  | Nos. |  |  |
| 75 | Supply, Fixing, wall mounting aircirculator fan 600 mm Crompton make or equivalent make as reqd  | 1.00  | Nos. |  |  |
| 76 | Supply, Fixing, copper lug suitable for following size of conductor/ cable.  |       |      |  |  |
| a  | 6/10/16 Sqmm   | 40.00 | Nos. |  |  |
| b  | 25/3.5/50 Sqmm   | 45.00 | Nos. |  |  |
| 77 | Supplying and laying of one no. 2 x 6 sq.mm. XLPE steel armoured aluminium conductor power cable of grade 1.1 kV as per following details.   |       |      |  |  |
| a  | direct in ground l/c excavation, sand cushioning, protective covering and refilling the trench etc. as reqd.   | 20.00 | Mtr. |  |  |
| b  | On surface with MS clamp   | 20.00 | Mtr. |  |  |
| c  | In pipe  | 14.00 | Mtr. |  |  |
| d  | In open duct   | 10.00 | Mtr. |  |  |
| 78 | Supplying and laying of one no. 4 x 16 sq.mm. XLPE steel armoured aluminium conductor power cable of grade 1.1 kV as per following details.  |       |      |  |  |
| a  | Direct in ground l/c excavation, sand cushioning, protective covering and refilling the trench etc. as reqd.   | 20.00 | Mtr. |  |  |
| b  | On surface with MS clamp   | 10.00 | Mtr. |  |  |
| c  | In pipe  | 10.00 | Mtr. |  |  |
| d  | In open duct   | 10.00 | Mtr. |  |  |
| 79 | Supplying and laying of one no. 3½C x 25 sq.mm. XLPE steel armoured aluminium conductor power cable of grade 1.1 kV as per following details.  |       |      |  |  |
| a  | Direct in ground l/c excavation, sand cushioning, protective covering and refilling the trench etc. as reqd.   | 20.00 | Mtr. |  |  |

|    |  |       |      |  |  |
|----|--|-------|------|--|--|
| b  | On surface with MS clamp   | 10.00 | Mtr. |  |  |
| c  | In pipe  | 20.00 | Mtr. |  |  |
| d  | In open duct   | 10.00 | Mtr. |  |  |
| 80 | Supplying and laying of one no. 3½C x 35 sq.mm. XLPE steel armoured aluminium conductor power cable of grade 1.1 kV as per following details.        |       |      |  |  |
| a  | Direct in ground I/c excavation, sand cushioning, protective covering and refilling the trench etc. as reqd.   | 10.00 | Mtr. |  |  |
| b  | On surface with MS clamp   | 10.00 | Mtr. |  |  |
| c  | In pipe  | 10.00 | Mtr. |  |  |
| d  | In open duct   | 10.00 | Mtr. |  |  |
| 81 | Supplying and laying of one no. 3½C x 50 sq.mm. XLPE steel armoured aluminium conductor power cable of grade 1.1 kV as per following details.        |       |      |  |  |
| a  | Direct in ground I/c excavation, sand cushioning, protective covering and refilling the trench etc. as reqd.   | 12.00 | Mtr. |  |  |
| b  | On surface with MS clamp   | 10.00 | Mtr. |  |  |
| c  | In pipe  | 5.00  | Mtr. |  |  |
| d  | In open duct   | 5.00  | Mtr. |  |  |
| 82 | Lifting & removing cable of following size from trenches or clamped on surface, making rol depositing the same in the store I/c cartage etc as reqd. |       |      |  |  |
| a  | Up to 35 sqmm  | 10.00 | Mtr. |  |  |
| b  | Above 35 sqmm to 95 sqmm   | 10.00 | Mtr. |  |  |
| 83 | Laying of one no. PVC insulated, PVC sheathed/XLPE power cable of 1.1kV grade of size Upto 35 sq. mm   |       |      |  |  |
| a  | Direct in ground I/c excavation, sand cushioning, protective covering and refilling the trench etc. as reqd.   | 20.00 | Mtr. |  |  |
| b  | On surface with MS clamp   | 10.00 | Mtr. |  |  |

|    |   |       |      |  |  |
|----|---|-------|------|--|--|
| c  | In pipe   | 5.00  | Mtr. |  |  |
| d  | In open duct  | 5.00  | Mtr. |  |  |
| 84 | Laying of one no. PVC insulated, PVC sheathed/XLPE power cable of 1.1kV grade of size Above 35 sq. mm and upto 95 sq. mm.   |       |      |  |  |
| a  | Direct in ground l/c excavation, sand cushioning, protective covering and refilling the trench etc. as reqd.  | 20.00 | Mtr. |  |  |
| b  | On surface with MS clamp  | 10.00 | Mtr. |  |  |
| c  | In pipe   | 10.00 | Mtr. |  |  |
| d  | In open duct  | 10.00 | Mtr. |  |  |
| 85 | Laying of one no. PVC insulated, PVC sheathed/XLPE power cable of 1.1kV grade of size Above Above 95 sq. mm and upto 185 sq. mm   |       |      |  |  |
| a  | Direct in ground l/c excavation, sand cushioning, protective covering and refilling the trench etc. as reqd.  | 15.00 | Mtr. |  |  |
| b  | On surface with MS clamp  | 10.00 | Mtr. |  |  |
| c  | In pipe   | 9.00  | Mtr. |  |  |
| d  | In open duct  | 10.00 | Mtr. |  |  |
| 86 | Supplying and making end termination with brass compression gland with aluminium lugs for following size of PVC insulated & PVC sheathed/XLPE aluminium cable of 1.1kV grade as reqd. |       |      |  |  |
| a  | 2x6 sqmm  | 5.00  | Nos. |  |  |
| b  | 2x10 sqmm   | 5.00  | Nos. |  |  |
| c  | 2x16 sqmm   | 5.00  | Nos. |  |  |
| d  | 4x16 sqmm   | 5.00  | Nos. |  |  |
| e  | 3-1/2x25 sqmm   | 5.00  | Nos. |  |  |
| f  | 3-1/2x35 sqmm   | 8.00  | Nos. |  |  |



|    |   |       |      |  |  |
|----|---|-------|------|--|--|
| g  | 3-1/2x 50 sqmm  | 5.00  | Nos. |  |  |
| 87 | Supplying and making straight through joint with cast resin compound and aluminium lugs for following size of PVC insulated & PVC sheathed/XLPE aluminium cable of 1.1kV grade as reqd.   |       |      |  |  |
| a  | 2x16 / 2x10 sqmm  | 5.00  | Nos. |  |  |
| b  | 4x16 sqmm   | 5.00  | Nos. |  |  |
| c  | 3-1/2x25 sqmm   | 5.00  | Nos. |  |  |
| d  | 3-1/2x35 sqmm   | 5.00  | Nos. |  |  |
| e  | 3-1/2x 50 sqmm  | 5.00  | Nos. |  |  |
| 88 | Dismantling & refixing brass compression cable type cable gland up to size 400 Sqmm cable.  | 10.00 | Nos. |  |  |
| 89 | Dismantling the old conduit pipe/wood batten of all sizes from surface/recessed & making good the damages I/c filling the holes of the surface etc as reqd.   | 50.00 | Mtr. |  |  |
| 90 | Dismantling damaged DB/TPN Switches/ loose wire boxes/ M.S. boxes alongwith all accessories and depositing the same in the store as reqd.   | 30.00 | Nos. |  |  |
| 91 | Dismantling & refixing DB/TPN Switches upto 100A/ loose wire boxes/ M.S. boxes alongwith all accessories etc as reqd.   | 20.00 | Nos. |  |  |
| 92 | Fixing of telephone DP/network rack on wall floor with suitable brick foundation on bolts and nut etc. as reqd.   | 11.00 | Nos. |  |  |
| 93 | Installation, testing and commissioning of ceiling fan including wiring the down rods of standard length (upto 30 cm)/wall fan/cabin fan, with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable, including providing and fixing phenolic laminated sheet cover on the fan box etc. as required. | 20.00 | Nos. |  |  |
| 94 | Dismantling of ceiling fan / rally fan / all type fitting without regulator I/c depositing in store etc as reqd.  | 20.00 | Nos. |  |  |

|     |   |        |        |  |  |
|-----|---|--------|--------|--|--|
| 95  | Fixing of 20/25/32 mm dia steel conduit pipe/DLP plastic trunking alongwith the accessories in surface/recessed i/c painting in case of surface conduit or cutting the wall & making good the same in case of recessed conduit as reqd. | 75.00  | Mtr.   |  |  |
| 96  | Supplying and fixing following rating MCB type changeover switch suitable for inductive load of following poles in the existing MCB DB/enclosure complete with connections, testing and commissioning etc as reqd.                      |        |        |  |  |
| a   | Double Pole ( 25/32 Amp )   | 5.00   | Nos.   |  |  |
| b   | Double Pole ( 40-63 Amp )   | 5.00   | Nos.   |  |  |
| c   | Four Pole ( 40-63 Amp )   | 5.00   | Nos.   |  |  |
| 97  | S & F, connecting and commissioning 4 pole Front handle operated in sheet steel enclosure On Load changeoverswitch of following capacity etc. as reqd.  |        |        |  |  |
| a   | 63 Amp Four Pole  | 2.00   | Nos.   |  |  |
| b   | 100 Amp Four Pole   | 2.00   | Nos.   |  |  |
| c   | 200 Amp Four Pole   | 2.00   | Nos.   |  |  |
| d   | 400 Amp Four Pole   | 2.00   | Nos.   |  |  |
| 98  | Fixing 100 A to 400 A TPN switch / MCCB /Changeover switch on existing frame / board i/c providing nut and bolts with washer etc. as reqd.  | 15.00  | Nos.   |  |  |
| 99  | S & F bakelite sheet 5 mm thick complete with required nuts & bolts as reqd.  | 100.00 | Sq.cm. |  |  |
| 100 | S & F 3 mm thick phenolic laminated sheet on existing board with brass screw & cup washer etc as reqd.  | 110.00 | Sq.cm. |  |  |
| 101 | Locating fault in the cable lines with megger etc. and rectifying moving & restoring supply the same & making good the damages etc as reqd.   | 20.00  | Nos.   |  |  |
| 102 | Locating fault in wiring rectifying removing & restoring supply the same & making good the damages etc as reqd.   | 25.00  | Nos.   |  |  |
| 103 | Digging cable trench, lifting brick & cable for locating fault and relaying the cable i/c refilling the trench, extra sand if required shall be i/c in the item as required.  | 50.00  | Mtr.   |  |  |

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|-----|--|-------|------|--|--|
| 104 | Supplying, installation, testing and commissioning of Astronomical time switch capable of following output in feeder pillars / Lighting DBs for automatic switching On & OFF of street lights at sun set & sun rise or twilight (Auto ON, Auto OFF, Auto) with manual override facility with 12/24 hour display format with suitable battery and indication for relay status i/c programming at site complete as required.<br>1 output per phase and suitable for single phase supply. | 2.00  | Nos. |  |  |
| 105 | P&F, connecting and commissioning of surface mounted timer switch for 24 hrs. setting & fixing in the existing enclosure complete with connections, testing and commissioning etc as reqd.   | 2.00  | Nos. |  |  |
| 106 | Supplying & fixing Connecting , testing & commisioning, direct online ( DOL ) starter suitable upto 10.0 HP 3 phase induction motor 415V, 50Hz make Siemens or equivalent approved makes.  | 2.00  | Nos. |  |  |
| 107 | Supplying, Installation, testing & commissioning, 4-zone microprocessor based automatic fire alarm control panel with power supply & battery charger having battery box etc as required.   | 5.00  | Nos. |  |  |
| 108 | Supplying, Installation, testing & commissioning, 8-zone microprocessor based automatic fire alarm control panel with power supply & battery charger having battery box etc as required.   | 5.00  | Nos. |  |  |
| 109 | Supplying, installation, testing & commissioning, of ionozatinn smoke detectors with standard base including base plate & mounting accessories as reqd.  | 5.00  | Nos. |  |  |
| 110 | Supplying, installation, testing & commissioning, of dust & vermin proof manual call box with push button, breakable glass cover, hammer made out from CRC sheet & steel chain including other accessories as required.  | 10.00 | Nos. |  |  |
| 111 | Supplying, installation, testing & commissioning, of hooter 24 V D.C.type high intensity suitable for recessed / surface mounting complete with enclosure as reqd.   | 10.00 | Nos. |  |  |
| 112 | Supplying, erection, testing & commissioning, of remote response indicator, complete with lamp test facility etc as required   | 10.00 | Nos. |  |  |
| 113 | Supplying and fixing 32 amps, 230 volts, 2P+E industrial type, socket outlet, with 3 pin metal enclosed plug top along with 32 amps ' C ' series double pole MCB, in the sheet steel enclosure, on surface or in recess, with chained metal cover for the socket as required complete.   | 2.00  | Nos. |  |  |

|     |  |       |      |  |  |
|-----|--|-------|------|--|--|
| 114 | Supplying and fixing 32 amps, 415 volts, 3P+N+E industrial type, socket outlet, with 5 pin metal enclosed plug top along with 32 amps ' C ' series four pole MCB, in the sheet steel enclosure, on surface or in recess, with chained metal cover for the socket as required complete.   | 2.00  | Nos. |  |  |
| 115 | Supplying and fixing 63 amps, 415 volts, 3P+N+E industrial type, socket outlet, with 5 pin metal enclosed plug top along with 63 amps ' C ' series four pole MCB, in the sheet steel enclosure, on surface or in recess, with chained metal cover for the socket outlet complete with connections, testing and commissioning as required complete.             | 2.00  | Nos. |  |  |
| 116 | Rewinding of ceiling fans of following sizes i/c dismantling of rotor cutting the damaged winding and providing rewinding along with insulation paper, varnish, connecting copper leads of suitable quality including dismantling and refixing from normal/abnormal height and refixing as required. (Old burnt wire shall be retain by the contractor.)       |       |      |  |  |
| a   | Old model 48"/new mode 56"   | 20.00 | Nos. |  |  |
| b   | New model 48"  | 20.00 | Nos. |  |  |
| 117 | Rewinding of exhaust fans of following sizes i/c dismantling cutting the damaged winding and providing rewinding along with insulation paper, varnish, connecting copper leads of suitable quality including dismantling and refixing from normal/abnorml height and refixing as required.( old burnt wire shall be retain by the contactor.)                  |       |      |  |  |
| a   | exhaust fan12"   | 20.00 | Nos. |  |  |
| b   | exhaust fan15"   | 20.00 | Nos. |  |  |
| c   | exhaust fan18"   | 20.00 | Nos. |  |  |
| 118 | Overhauling of ceiling fan / exhaust fan of any size including bearings, checking, cleaning the all parts and supplying & replacement of rubber real, rubber rings, nut bolts, hanger clamps, bearing plates, cotter/ split pin, varnishing if reqd etc, reassembling testing, commissioning, dismantling & disconnecting and refixing as required complete. . |       |      |  |  |
| a)  | ceiling fan  | 25.00 | Nos. |  |  |

|     |   |        |      |  |  |
|-----|---|--------|------|--|--|
| b)  | exhaust fan   | 25.00  | Nos. |  |  |
| 119 | Supplying and fixing 2.5 mfd capacitor suitable for ceiling fan.  | 25.00  | Nos. |  |  |
| 120 | Supplying and fixing 4.0 mfd capacitor suitable for exhaust fan.  | 25.00  | Nos. |  |  |
| 121 | Supplying and fixing connecting and commissioning of 8.0 mfd capacitor as required complete.  | 25.00  | Nos. |  |  |
| 122 | Repairing of housing of bearing side /bush side in fan body of ceiling fan /exhaust fan/ rally fan etc.   | 20.00  | Nos. |  |  |
| 123 | Painting of ceiling fan in installed position with one or more coats of spray painting with synthetic enamel paint of approved brand and manufacture to give an even shade, including cleaning of surface with detergent etc. as required | 21.00  | Nos. |  |  |
| 124 | Cartage of Ceiling fan and regulator / exhaust fan From store to site as reqd.  | 30.00  | Nos. |  |  |
| 125 | Cleaning of ceiling fan with detergent at site and replacement of damaged items i.e. rubber reel, cotter pin, capacitor clamp, nut and bolts of hanger clamps etc as required.  | 100.00 | Nos. |  |  |
|     | Total Rs.   |        |      |  |  |