

**BOQ for "Electrical cable laying and renovation work at M-120,M-227 in IACS"**

| SI No.   | Description of item                                                                                                                                                                                           | Qty | Unit | Rate | Amount |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|------|--------|
| <b>A</b> | <b>Electrical Work</b>                                                                                                                                                                                        |     |      |      |        |
| 1        | Supply of 3.5 core 150 sq.mm PVC insulated XLPE power cable of 1.1 KV grade conforming the IS code                                                                                                            | 100 | Mtr  |      |        |
|          | <b>Make:</b> Polycab/Glostel/KEI/Havells                                                                                                                                                                      |     |      |      |        |
| 2        | Laying of one number PVC insulated and XLPE power cable of 1.1 KV grade of following size direct in ground including excavation,sand cushioning,protective covering and refilling the trench etc. as required |     |      |      |        |
| (a)      | 150 sq.mm                                                                                                                                                                                                     | 15  | Mtr. |      |        |
| 3        | Laying of one number PVC insulated and XLPE power cable of 1.1 KV grade of following size on the wall surface as required                                                                                     |     |      |      |        |
| (a)      | 150 sq.mm                                                                                                                                                                                                     | 85  | Mtr  |      |        |
| 4        | Supplying and making end termination with brass compression glan and alluminium lugs for follwing size of PVC insulated XLPE aluminium conductor cable of 1.1KV as required                                   | 4   | Nos. |      |        |
| 5        | Supply of 3 core 10 sq.mm PVC insulated XLPE power cable of 1.1 KV grade conforming the IS code                                                                                                               | 20  | Mtr  |      |        |
|          | <b>Make:</b> Ploycab/Mescab/ Havells/ Finolex                                                                                                                                                                 |     |      |      |        |
| 6        | Laying of one number PVC insulated and XLPE power cable of 1.1 KV grade of following size on the wall surface as required                                                                                     |     |      |      |        |
| (a)      | 10 sq.mm                                                                                                                                                                                                      | 20  | Mtr  |      |        |

|      |                                                                                                                                                                                                                                                                                                                                                                 |    |       |  |  |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-------|--|--|
| 7    | Supplying and making end termination with brass compression glan and alluminium lugs for follwing size of PVC insulated XLPE aluminium conductor cable of 1.1KV as required                                                                                                                                                                                     | 4  | Nos.  |  |  |
| 8    | Wiring for light point / fan point / exhaust fan point / call bell point with 1.5sq.mm FRLS PVC insulated coper conductor single core cable in surface / recessed medium class PVC 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 (as per CPWD Categorisation)                                                                                                                                                                                                                                                                                                                            | 4  | Point |  |  |
|      | <b>Make:</b> wire: Finolex, polycab, MESCAB, KEI, Havells<br><b>Conduit :</b> Piazza/ presto/AKG/ precession                                                                                                                                                                                                                                                    |    |       |  |  |
| 9    | Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS/HFFR PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.                                                                                                                                                     |    |       |  |  |
| (a)  | 2 x10 sq.mm + 1 x 6 sq.mm                                                                                                                                                                                                                                                                                                                                       | 45 | Mtr   |  |  |
| (b)  | 2 x 4 sq.mm + 1 x 4 sq.mm                                                                                                                                                                                                                                                                                                                                       | 90 | Mtr   |  |  |
| (c ) | 2 x1.5 sq.mm + 1 x 1.5 sq.mm                                                                                                                                                                                                                                                                                                                                    | 70 | Mtr   |  |  |
|      | <b>Make:</b> wire: Finolex, polycab, MESCAB, KEI, Havells<br><b>Conduit :</b> Piazza/ presto/AKG/ precession                                                                                                                                                                                                                                                    |    |       |  |  |
| 10   | Supply and fixing folowing way,single pole and neutral,sheet steel,MCB distribution board,240 V,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 ,Double door                                                                                                                                                                                                                           | 4 | Nos. |  |  |
| (b)  | 12 way, Double door                                                                                                                                                                                                                          | 2 | Nos. |  |  |
|      | <b>Make:</b> Legrand/L&T/ABB/C&S/Havells/Hagar                                                                                                                                                                                               |   |      |  |  |
| 11   | Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. |   |      |  |  |
| (a)  | Single pole (32 A)                                                                                                                                                                                                                           | 1 | Nos. |  |  |
| (b)  | Single pole (16 A)                                                                                                                                                                                                                           | 6 | Nos. |  |  |
| (c ) | Single pole(6A)                                                                                                                                                                                                                              | 5 | Nos. |  |  |
|      | <b>Make:</b> Legrand/L&T/ABB/C&S/Havells/Hagar                                                                                                                                                                                               |   |      |  |  |
| 12   | Supply and fixing following rating,double pole,240V,isolator in the exiting MCB DB complete with connections, testing and commissioning etc. as required                                                                                     |   |      |  |  |
| (a)  | DP 63 A                                                                                                                                                                                                                                      | 6 | Nos. |  |  |
|      | <b>Make:</b> Legrand/L&T/ABB/C&S/Havells/Hagar                                                                                                                                                                                               |   |      |  |  |
| 13   | Supplying and fixing of following size/ modules, GI/PVC box along with modular base & cover plate for modular switches in recess etc. as required.                                                                                           |   |      |  |  |
| (a)  | 6 Module                                                                                                                                                                                                                                     | 6 | Nos. |  |  |
| (b)  | 8 Module                                                                                                                                                                                                                                     | 6 | Nos. |  |  |
|      | <b>Make:</b> Crabtree/MK/L&T/Hagar/Legrand                                                                                                                                                                                                   |   |      |  |  |

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|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------|--|--|
| 14  | Supplying and fixing of following modular switch/socket on the existing modular plate & switch box including connections but excluding plate etc. as required                                                                                                                                                       |    |      |  |  |
| (a) | 6 A Switch                                                                                                                                                                                                                                                                                                          | 12 | Nos. |  |  |
| (b) | 6 A Socket                                                                                                                                                                                                                                                                                                          | 18 | Nos. |  |  |
| (c) | 16 A Switch                                                                                                                                                                                                                                                                                                         | 12 | Nos. |  |  |
| (d) | 16 A Socket                                                                                                                                                                                                                                                                                                         | 12 | Nos. |  |  |
|     | <b>Make:</b> Crabtree/MK/L&T/Hagar/Legrand                                                                                                                                                                                                                                                                          |    |      |  |  |
| 15  | Supplying and fixing of modular type 25A AC starter switch along with GI box to be recessed/surface in wall including connections but excluding providing modular plate etc. as required.                                                                                                                           | 2  | Nos. |  |  |
|     | <b>Make:</b> Crabtree/MK/L&T/Hagar/Legrand                                                                                                                                                                                                                                                                          |    |      |  |  |
| 16  | Supply,installation,testing & commissioning of Microprocessor based sequential AC timer , capable to switch between two nos. of 1.5 TR/2 TR AC sequentially,with auto/manual/bypass mode as per requirement.                                                                                                        | 1  | No   |  |  |
|     | <b>Make:</b> Saitronics Systems/ carrier /Custom make                                                                                                                                                                                                                                                               |    |      |  |  |
| 17  | Supply and fixing of industrial plug socket with 32 A DP MCB                                                                                                                                                                                                                                                        | 1  | No.  |  |  |
|     | <b>Make:</b> Crabtree/MK/L&T/Hagar/Legrand                                                                                                                                                                                                                                                                          |    |      |  |  |
| 18  | Supplying and fixing (with chain & fastnut arrangement) of indoor type 36 W, 2 feet X 2 feet recess mounted LED down light with die cast aluminium housing, heat sink, anti glare polycarbonate/acrylic diffuser and integrated energy efficient electronic driver. With colour temperature 5700K (cool day light). | 18 | Nos. |  |  |
|     | <b>Make:</b> Crompton/Phillips/bajaj/Havells/wipro                                                                                                                                                                                                                                                                  |    |      |  |  |

|     |                                                                                                                                                      |     |     |       |  |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-------|--|
| 19  | Providing and fixing of 4 mm dia copper wire on surface or in recess for loop earthing as required                                                   | 280 | Mtr |       |  |
| 20  | Cutting road and making good the same including supply of extra quantities of materials,i.e.,aaggregate,moorum screening,red bajriand labour requird |     |     |       |  |
| (a) | Water bound macadam                                                                                                                                  | 6   | CUM |       |  |
|     |                                                                                                                                                      |     |     | Total |  |
|     | CGST@ 9% considered in the above BOQ                                                                                                                 |     |     |       |  |
|     | <a href="#">SGST@ 9% considered in the above BOQ</a>                                                                                                 |     |     |       |  |

**In Words: Rupees.....**