

| Schedule of Work                                                                                         |                                                                                                                                                                                                                                                                                                                                                                  |     |       |            |             |         |
|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------|------------|-------------|---------|
|                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                  |     |       |            |             |         |
| Name of Work: Electrical Renovation Work for Room No-064 (EPR LAB) situated in the Main Building of IACS |                                                                                                                                                                                                                                                                                                                                                                  |     |       |            |             |         |
|                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                  |     |       |            |             |         |
| Item No.                                                                                                 | Description                                                                                                                                                                                                                                                                                                                                                      | Qty | Unit  | Rate (Rs.) | Amount (Rs) | Remarks |
| 1                                                                                                        | Wiring for light point / fan point / exhaust fan point / call bell point with 1.5sq.mm FRLS PVC insulated copper 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. |     |       |            |             |         |
|                                                                                                          | Group C (as per CPWD Categorisation)                                                                                                                                                                                                                                                                                                                             | 4   | Point |            |             |         |
|                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                  |     |       |            |             |         |
| 2                                                                                                        | Wiring for circuit/submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required.                                                                                                                                                              |     |       |            |             |         |
| a)                                                                                                       | 4X10 sq.mm+ 2X6 sq.mm earth wire                                                                                                                                                                                                                                                                                                                                 | 5   | Metre |            |             |         |
| b)                                                                                                       | 2X4sq.mm +1X4sq.mm earth wire                                                                                                                                                                                                                                                                                                                                    | 35  | Metre |            |             |         |
| c)                                                                                                       | 2X6sq.mm +1X6sq.mm earth wire                                                                                                                                                                                                                                                                                                                                    | 40  | Metre |            |             |         |
| 3                                                                                                        | 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)                                                                                                       | 2 Module                                                                                                                                                                                                                                                                                                                                                         | 4   | Nos   |            |             |         |
| b)                                                                                                       | 6 Module                                                                                                                                                                                                                                                                                                                                                         | 3   | Nos   |            |             |         |
| 4                                                                                                        | Supplying and fixing of following modular/universal type switch/socket on the existing modular plate & switch box including connections but excluding plate etc. as required.                                                                                                                                                                                    |     |       |            |             |         |
| b)                                                                                                       | 6 pin 15/16A Socket (4 modular + 4 universal)                                                                                                                                                                                                                                                                                                                    | 8   | Nos.  |            |             |         |
| c)                                                                                                       | 15/16 amp switch                                                                                                                                                                                                                                                                                                                                                 | 6   | Nos.  |            |             |         |
|                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                  |     |       |            |             |         |
| 5                                                                                                        | Supply & drawing 2 pair 0.5 mm dia FRLS PVC insulated annealed copper conductor unarmoured telephone Cable in the existing surface/recessed steel/pvc conduit as required.                                                                                                                                                                                       | 15  | Metre |            |             |         |
| 6                                                                                                        | Supply 36W,Double Tube light set with LED light (as per philips Cat. No. TMC-502 with 2nos. 22W master LED length 1200mm,2100lumen or equivalent model) complete with all accessories including connection with 1.5 sq.mm FRLS PVC insulated copper conductor ,single core cable and earthing etc. as required                                                   | 4   | Nos.  |            |             |         |
| 7                                                                                                        | Installation, testing and commissioning of pre-wired, LED fitting / compact Led fitting of all types, complete with all accessories and tube etc. directly on ceiling, including connection with 1.5sq.mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required.                                                                 | 4   | Nos.  |            |             |         |
| 8                                                                                                        | Supplying & Fixing of modular type 25Amp A.C. starter switch with GI/PVC Box complete surface/recessed in wall.                                                                                                                                                                                                                                                  | 2   | Nos.  |            |             |         |
|                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                  |     |       |            |             |         |

| Item No. | Description                                                                                                                                                                                                                                                                                                                            | Qty | Unit | Rate (Rs.) | Amount (Rs) | Remarks |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|------------|-------------|---------|
| 9        | supply and fixing of DP sheet steel enclosure on surface/recess along with 25/32 A 240 V "C" curve DP MCB complete with connections,testing and commissioning etc. as required.                                                                                                                                                        | 2   | No.  |            |             |         |
| 10       | Supplying and fixing following way,Four pole,sheet steel Busbar Chamber,415V,on surface/recess ,complete with 200A tinned copper bus bar mounting on FRP insulator,facility of at least Four cables interconnections,powder painted including earthing terminals,Danger plate,door lock etc.as required ,(Make- Havells or Equivalent) |     |      |            |             |         |
|          | 200 A,415V AC,50Hz,4WAY                                                                                                                                                                                                                                                                                                                | 1   | No.  |            |             |         |
| 11       | Supplying and fixing following way,single pole and neutral,sheet steel MCB distribution board,240V,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)                                          |     |      |            |             |         |
|          | 6 way ,Double door SPN DB                                                                                                                                                                                                                                                                                                              | 3   | No   |            |             |         |
|          | <b>XLPE armoured Al cable: -</b>                                                                                                                                                                                                                                                                                                       |     |      |            |             |         |
| 12       | Supplying of XLPE insulated and PVC sheathed armoured heavy duty aluminium conductor cable of CC/Universal/POLYCAB make 1.1KV grade as per relevant IS specifications for the following sizes:                                                                                                                                         |     |      |            |             |         |
| a)       | 4cx35 sq.mm <b>(ALUMINIUM)</b>                                                                                                                                                                                                                                                                                                         | 25  | mt.  |            |             |         |
| b)       | 4cx25 sq.mm <b>((ALUMINIUM))</b>                                                                                                                                                                                                                                                                                                       | 15  | mt.  |            |             |         |
| 13       | Laying & Fixing of 1no. PVC insulated and PVC sheathed/XLPE power cable of 1.1KV Grade of following size on wall surface as required.                                                                                                                                                                                                  |     |      |            |             |         |
| a)       | 4cx35sq.mm(clamped with1mm thick saddle)                                                                                                                                                                                                                                                                                               | 25  | mt.  |            |             |         |
| b)       | 4cx25 sq.mm (clamped with1mm thick saddle)                                                                                                                                                                                                                                                                                             | 15  | mt.  |            |             |         |
|          | <b>Cable Termination: -</b>                                                                                                                                                                                                                                                                                                            |     |      |            |             |         |
| 14       | Supplying and making end termination with brass compressor gland and copper lugs for following size of XLPE insulated and (PVC sheathed aluminium conductor cable of 1.1KV grade as required).                                                                                                                                         |     |      |            |             |         |
| a)       | 3.5cx35 sq.mm                                                                                                                                                                                                                                                                                                                          | 2   | nos. |            |             |         |
| b)       | 4cx25 sq.mm                                                                                                                                                                                                                                                                                                                            | 2   | nos. |            |             |         |
| c)       | 4cx 10 sq.mm                                                                                                                                                                                                                                                                                                                           | 2   | nos. |            |             |         |
| 15       | Providing & Fixing 4mm dia copper wire on surface/recess for loop earthing along with existing surface/recessed conduit/submain wiring/cable as required.                                                                                                                                                                              | 80  | mt.  |            |             |         |

| Item No. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |   | Unit | Rate (Rs.)   | Amount (Rs) | Remarks |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|--------------|-------------|---------|
| 16       | Supplying and fixing following rating 415 volts, "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)       | 100 A MCB,TPN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1 | No.. |              |             |         |
| b)       | 100 A MCB,TP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1 | No.. |              |             |         |
| c)       | 63 A MCB, TPN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1 | Nos. |              |             |         |
| d)       | 20 A MCB, SP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3 | Nos. |              |             |         |
| e)       | 16 A MCB, SP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 7 | Nos. |              |             |         |
| f)       | 32 A MCB SP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3 | Nos. |              |             |         |
| g)       | 32 A MCB DP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3 | Nos. |              |             |         |
| 17       | Distribution Board - (PDB): Supplying and fixing following way prewired <b>Vertical type</b> TP&N MCB distribution board of steel sheet for 415Volts 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 FRLS PVC insulated copper conductor upto the terminal connector/neutral link, earthing etc as required with provision for mounting 4pole MCCB (But without MCB/RCCB/Isolator). |   |      |              |             |         |
| a)       | 63A,4way(4+12) TPN DB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1 | No.  |              |             |         |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |      | <b>TOTAL</b> |             |         |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |      |              |             |         |
|          | <b>(Rupees</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |   |      |              |             |         |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |      |              |             |         |
| i)       | GST No.-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |   |      |              |             |         |
| ii)      | SAC No.-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |   |      |              |             |         |
| iii)     | Please enclosed GST Registration certificate copy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |      |              |             |         |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |      |              |             |         |
|          | Note: The quoted rate shall be inclusive of all taxes & duties, levies, cess etc i/c GST also Nothing extra will be paid to the Contrator except the accepted rate.i,ii & iii is mandetory.                                                                                                                                                                                                                                                                                                                                                                                                                                                      |   |      |              |             |         |