

**PONDICHERRY UNIVERSITY  
ELECTRICAL WING**

**SCHEDULE OF WORK**

**Name of work:** Purification of transformer oil at various Sub Stations, road crossing Guarding, painting the HT tubular poles and servicing the AB switches at University Campus.

| Sl. No. | Description of Item  | Qty.             | Unit         | Rate | Amount |
|---------|--|------------------|--------------|------|--------|
| 1.      | Purification of oil in the 315 KVA out door plinth mountable LT distribution transformer for three circulations by streamline process method up to the rated BDV<br>a. 315 KVA Transformer<br>b. 500 KVA Transformer | 9 nos.<br>3 nos. | Each<br>Each |      |        |
| 2.      | De rusting and painting of transformer including painting the earth and neutral strips between the transformer with one coat of enamel paint of approved colour.   | 11nos.           | Each         |      |        |
| 3.      | Topping up additional transformer oil and replacing old oil from transformer conform to IS specification 335 if required for the transformers after purification. Oil Make:Electrol                                  | 600 lts.         | Lts.         |      |        |
| 4.      | Supply and replacing silica gel in the breather up to MVA rating of transformers.  | 11 nos           | Nos.         |      |        |
| 5.      | Servicing of 22 KV grade, 400A air blast switch set by applying the grease and correct the switch for smooth operation as required.  | 20 sets          | Each         |      |        |
| 6.      | Replacement of following accessories in 400A air blast switch set as required.<br>a. Female contract.<br>b. Spring.  | 15nos<br>100nos. | Each<br>Each |      |        |
| 7.      | Supply and replacement of suitable Bi-metallic clamp in the connection terminal of the ACSR conductors and copper conductors as required. (heavy)  | 120nos.          | Each         |      |        |
| 8.      | Painting of 22 KV outdoor following tubular pole structure, structure channels with one coat of zinc chromate primer and one coat of aluminum paint.<br>a. Double pole structure.<br>b. Triple pole structure.       | 10 nos.<br>1 no. | Each<br>Each |      |        |

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|-----|--|---------|------|--|--|
| 9.  | Charges for BDV test using standard test kit and should issue test certificate for the test result. The oil has to be tested after and before the purification/ replacement of oil.  | 11 nos. | Each |  |  |
| 10. | Charges for testing acidity of the oil form the approved chemical lab.   | 11 nos. | Each |  |  |
| 11. | Supplying of Bi-metallic clamp (heavy).  | 30nos.  | Each |  |  |
| 12. | Supplying and making indoor end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.   | 3nos.   | Each |  |  |
| 13. | S/E 7/4.00 mm stay set with bow tightener:<br>Supplying and erection of stay set complete (galvanized) with 19/20 mm dia x 1.8 metres long stay rod, anchor plate of size 45 cm x 45 cm x 6 mm, thimble, stay clamps, bow tightener, 7/4 mm dia G.I stay wire and stain insulator etc in cement concrete 1:3:6 (1 cement: 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) foundation of height 15 cm including excavation and refilling etc. as required. | 4set    | Each |  |  |
| 14. | Providing and straining of HT guarding for road crossing in G.I wire No. 8 SWG with 4 wire line cross bit for one meter each including binding etc as required.  | 120mtr  | Mtr  |  |  |
| 15. | Supplying and erecting 22 KV lighting arrester:<br>Supplying and erection of nonlinear resistor type lightning arrester suitable for 3 wire, 22 KV overhead lines complete with galvanized clamping arrangement, G.I. bolts, nuts, washers etc. as required. Make: Lamco   | 15 nos. | Each |  |  |
| 16. | Providing and fixing 25mm x 3mm copper strip on surface or in recess for connections of transformer neutral earthing etc., as required.  | 50mtr   | mtr  |  |  |
| 17. | Supplying and fixing of 22KV double pole structure solid copper jumper size No. zero copper including suitable size of PVC sleeve with copper binding etc as required.   | 110 mtr | Mtr  |  |  |
| 18. | Supplying and replacing of 7/4 mm dia stay wire and stain insulator in the existing say set as required.   | 8 nos.  | Each |  |  |

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|-----|---|---------|------|--|--|
| 19. | Supplying of channel iron 75mm x 40mm x 6mm thick following size of cross arm with clamp bolts and nuts including drilling of holes etc as required.<br>a. 6.5 feet.<br><br>b. 13 feet. | 2nos.   | Each |  |  |
|     |   | 2 nos.  | Each |  |  |
| 20. | Supplying and fixing of metal door hinges in the damaged feeder pillar door at varies location in the campus.   | 30 nos. | Each |  |  |
|     | <b>TOTAL</b>  |         |      |  |  |