

**PONDICHERRY UNIVERSITY  
ELECTRICAL WING**

**SCHEDULE OF WORK**

**Name of Work:** Shifting of 250 KVA DG set from Science Block to Guest House in the University Campus.

S. No.	Description of Item/work	Qty	Unit	Rate	Amount
1)	Dismantling, lifting of existing 200 KVA DG Set including AMF panel from existing place and keeping it at 20 feet away in the University Guest House. Dismantling, lifting, and shifting of existing 250KVA DG set with AMF panel from University Science Block to University Guest House and installing, testing, commissioning of the DG set including transportation.	1 job	job		
2)	<p>Supplying, testing and commissioning of suitable powder coated cap-on acoustic enclosure to a 250 KVA DG set conforming to relevant standards suitable to out door installation exposed to weather conditions, made of 16 SWG thick CRCA sheet and to limit over all noise level to 75dB at a distance of 1 metre from the enclosure as per CPCB norms under free field conditions. The specification includes the following:</p> <p>a) The acoustical should be mounted on suitable rubber pad in the existing floor with sufficient space around the DG set for inspection and service.</p> <p>b) There should be four door with neoprene rubber gasket and heavy duty lock and engine control panel side with glass for monitoring.</p> <p>c) Provision of rain cap should be ensured.</p> <p>d) The enclosure should be designed to provide proper ventilation to ensure temperature safety of DG set. The temperature rise inside the enclosure should not be more than 5°C for maximum ambient above 40°C and it should be below 10°C for ambient below 40°C.</p> <p>e) The batteries should accommodated with enclosure in battery rack.</p> <p>f) The acoustic enclosure should be suitable for cable connection/connection through bus trunking and dust proof conforming to IP-65 protection.</p> <p>g) The complete enclosure should be of modular.</p>	1 job	job		

3)	Supply of one number PVC insulated and PVC sheathed/XLPE armored aluminum conductor power cable 1.1 KV grade of size 3.5 x 240sq mm.	20 mtr	mtr		
4)	Laying of one number PVC insulated and PVC sheathed armored aluminum conductor power cable 1.1 KV grade of size 4x240 sq mm on surface/in existing trench etc as required.	10 mtr	mtr		
5)	Supplying and making end termination with brass compression gland and aluminum lugs for following size of PVC insulated and PVC sheathed/XLPE aluminium conductor cable of 1.1kv grade as required. 4x240sq.mm	4 nos.	Each		
6)	Supplying and laying of 8 core 2.5sq.mm copper flexible cable for sensing.	7 mtr	mtr		
7)	Replacement of AMF panel switch gear handles, providing of 1/2" MS pipe for fuel line from fuel tank to DG set, retrofiting exhaust pipe line with 5" MS pipeline with necessary bends, flanges, gasket and supporting angles etc., as required.	1 job	job		
8)	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.	2 sets	Each		
9)	Supplying and laying 25 mm X 5 mm copper strip at 0.50 metre below ground as strip earth electrode, including connection/terminating with nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of brass nut bolt & spring washer spaced at 50mm)	2 mtr	mtr		
10)	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.	3 mtr	mtr		
11)	Providing and fixing 25 mm X 5 mm copper strip on surface or in recess for connections etc. as required.	3 mtr	mtr		
<b>Total</b>					