

SCOPE OF WORK & MANPOWER DEPLOYMENT, QUALIFICATION & EXPERIENCE

A. SCOPE OF WORK:

Work Schedule 1: Breakdown and Preventive Maintenance of VAD 1&2, VOD and 70T EAF:

i. Repair and fitting of Hydraulic power Pack, Cleaning and changing of filter unit, checking and making of oil level, Hydraulic and Pneumatic cylinders, Pilot Valve, Pump motors along with complete assembly. Cleaning/repair/fitting of Copper insert, Bus Tube, insulation change, tightening of bolt of all the water cooled cable, water leakage/blockage rectification, Roof/water cooled panels testing/repair & changing work and other mechanical and hydraulic maintenance related work of VAD 1&2, VOD & 70T EAF.

ii. Repair/ Maintenance of PLC Controlled DC Drive/Thyristor control system, Resistance box, winch motors, Limit switch, MCC and Control Desk. Repair/Maintenance of 33KV/11 KV Substn., 400sq mm/300sq mm XLPE Cable, Making of transformer oil level, Heat Exchanger cleaning, Maint. of Furnace Transformer, riser, water cooled cable repair/change and other allied maintenance work of HT and LT power/control system of VAD 1&2, VOD & 70T EAF.

iii. Repair/Maintenance of Temperature measuring instruments, Temperature and Pressure Gauge, Making/Repair of Lance and other allied electronic instrumentation work of VAD 1&2, VOD & 70T EAF.

Work Schedule 2: Preventive Maintenance on Sunday/Holydays and “C” Shift:

Preventive maintenance work all mechanical, hydraulic, electrical and electronics part of VAD-1 & 2 and 70T EAF.

B. MANPOWER DEPLOYMENT: The main responsibility of the deployed work force will be smooth operation of VAD 1&2, VOD & 70T EAF along with its auxiliaries under consideration. For this contractor will deploy adequate no. of qualified and experienced work force for assistance to the maintenance staff for the maintenance of VAD 1&2, VOD & 70T EAF as per instructions of the Executive In charge. The desirable manpower and their minimum qualification criteria required to be supplied by the contractor at the site are as listed below:

1. **Fitters:** They should have a qualification of ITI (Mechanical Fitter) and an experience of minimum 3 years in mechanical and hydraulic maintenance of machines. Out of 4 fitters, 2 fitter may not have ITI but must have a work experience 8 Yrs in Mechanical and hydraulic maintenance.

2. **Electricians:** They should have a qualification of ITI (Electrical/Electronics) and an experience of minimum 3 years in electrical and electronics maintenance of machines/equipments preferably including transformers, VCB Panels, Control systems, drives etc. Out of 4 electricians, 1 electrician must have work experience in HT line. Ie. 11 KV or above.

3. **Instrument Mechanic:** They should have a qualification of ITI (Electronics/Instrumentation) and an experience of minimum 3 years in electronics/instrumentation maintenance of machines.

4. **Welder:** They should have a qualification of ITI (Welder) and an experience of minimum 3 years in mechanical and hydraulic maintenance of machines.

The overall team must be experienced and must also be capable of handling maintenance activities and have basic knowledge of electrical, mechanical, hydraulic and electronics.

The deployment of work force will be in two shifts on regular basis and in third shift as per the exigencies of the work.