

## **6.0 SCOPE OF WORK**

### **A. NAME OF THE WORK :**

- i) MECHANICAL MAINTENANCE ASSISTANCE IN INSULATOR MAINTENANCE SECTION**
- ii) MAINTENANCE ASSISTANCE IN BOILER & COMPRESSOR**

Requirement of Maintenance Assistance in following areas of Mech Maintenance Section:

1. TUNNEL DRYER CAR (TD CAR) REPAIR WORK – About 1500 cars
2. ASSISTING MAINTENANCE WORK OF FINISHING WHEELS – 18 Wheels
3. ASSISTING MAINTENANCE WORK IN ASSEMBLY & TESTING
4. ASSISTING MAINTENANCE WORK IN BOILER & COMPRESSOR

### **B. BRIEF DESCRIPTION OF THE WORK :**

#### **1. TUNNEL DRYER CAR (TD CAR) REPAIR WORK**

- Replacing damaged rubber tyres – front wheel 2 nos. big tyres & rear swiveling wheel 4 nos. small tyres.
- Replacing damaged CI wheels – front 2 wheels & rear 2 set of swiveling wheels.
- Replacing damaged bearings, axle pins, swiveling bracket, line shaft of front wheel, end brackets etc.
- Replacing damaged pusher plates.
- Periodic lubricating of the TD Car wheels.
- Helping & guiding welder while welding the car parts.
- Collecting spares viz rubber tyres, bearings, CI wheels, and fasteners from stores and stacking them neatly in Maint Sub-store.
- Keeping the shop floor clean by removing the grease/oil soaked cotton waste, damaged bearings, damaged tyres etc. from shop floor and shifting them to scrap yard
- Other associated works for TD car maintenance viz., cleaning, painting, marking etc.

#### **2. ASSISTING MAINTENANCE WORK FINISHING WHEELS**

- Helping the fitters during repairs and reconditioning work as follows:
- Resetting the gunmetal flange bush for free rotation of shaft without vibration
- Replacing the damaged flat canvas belts and V-belts
- Replacing the pillow block bearings, V-pulleys of the driving unit
- Replacing the worn out pivoting hardened pin & button in the shaft
- Resetting the tool post height to suit the job height
- Removing the broken screws in the tool holder and replacing with new screws
- Replacing the damaged/worn-out pulleys (loose pulley & tight pulley)
- Periodic lubrication of the parts viz., gunmetal bushes, rotating/sliding shafts & bearings

**3. ASSISTING MAINTENANCE WORK IN ASSEMBLY & TESTING**

- To work with maintenance group to attend maintenance activities of the section
- Attending the break down work individually or with maintenance group
- Attending the preventive maintenance work with maintenance group
- Attending major reconditioning work with maintenance group
- Attending routine maintenance work viz., lubrication of equipment, tightening the fasteners, replacing the damaged belts, collecting the spares from stores etc
- Keeping the shop floor/maintenance room clean by removing the grease/oil soaked cotton waste, damaged bearings, worn out components etc. from shop floor and shifting them to scrap yard.

**4. ASSISTING MAINTENANCE WORK IN BOILER & COMPRESSOR**

- Assisting for operation and maintenance of Boilers (2 Nos IBR & 4 Nos Non-IBR).
- Assisting for operation and maintenance of Compressors (9 Nos big, 6 Nos small).
- Assisting for repair and recondition works of Boiler and Compressors accessories.
- Assisting for erection, commissioning and recertification of pipe line for steam and compressor air.

1. (a) Skill required, number of persons and wage details (**Mech.Maint Sec**)

Sl No	Job	Skill Category	No. of persons	Gross Daily wage payable excluding contractor margin
1	TD Car repair work	Skilled	2	Rs.177.38
2	Assisting Maintenance work of Finishing Wheels	Skilled	1	Rs.177.38
3	Assisting Maintenance work in Assy &Testing	Skilled	1	Rs.177.38

(b) Skill required, number of persons and wage details (**Boiler & Compressor**)

Sl No	Job	Skill Category	No. of persons	Gross Daily wage payable excluding contractor margin
4	Assisting Boiler & Compressor operation and maintenance.	SSW	1	Rs. 167.31
5	Assisting pipe line works.	Welder	1	Rs.215.07

2. Working Hours: 6-00 AM to 2-00 PM or 2-00 PM to 10-00 PM or 8-00 AM to 4-30 PM, on all week days as per the shift roster.

**ANNEXURE – II**

**1. PRICE BID FORMAT :**

**NAME OF THE WORK : MECHANICAL MAINTENANCE ASSISTANCE IN INSULATOR MAINTENANCE SECTION, BOILERS AND COMPRESSORS**

**NOTE : RATE TO BE QUOTED PER MONTH INCLUSIVE OF MINIMUM WAGES PAYABLE TO WORKMEN, ESI & PF AS PER RULES, ANNUAL BONUS, LEAVE, TRANSPORT ALLOWANCE AND CONTRACTOR MARGIN**

Sl No	Jobs outsourced	Skill Category	No. of Persons	Average No. of Days per month	Rate per Month
1	TD Car repair work	Skilled	2	26	
2	Assisting Maintenance work of Finishing Wheels	Skilled	1	26	
3	Assisting Maintenance work in Assy & Testing	Skilled	1	26	
4	Assisting Boiler & Compressor operation and maintenance.	SSW	1	26	
5	Assisting pipe line works.	Welder	1	26	
TOTAL					

**(SIGNATURE OF THE BIDDER & SEAL)**