**ANNEXURE: I**

**SUB**: **Repairing of sliding gearbox in 500 ton press machine IN NTB BLK III AND Repairing and Servicing of 300 ton press machine Block III.**

**Scope of work:**

A. **Repairing of sliding gearbox in 500-ton press machine IN NTB BLK III**

1. Dismantle of sliding air box.
2. Dismantling of lead screw columns.
3. Dismantling of MS box nut.
4. Dismantling of shaft and bearing.
5. Dismantling of gear coupling.
6. To bring down the top middle bottom of bed.
7. Servicing/replacement of all oil seals O rings gaskets and other rubber sealing items.
8. Replacement of all worm /worm gears and other brass bronze items like bushes etc.
9. Threading and trapping in lead screw.
10. Strapping and alignment of sliding gearbox so that the operation of sliding bed happens smoothly.
11. Equaling the thread of lead screw length approx. 08 meters up to 1 mm 2 mm and correcting it.
12. Scope of making all 4 no box nut is under contractor and contractor has the permission to take the lead screw outside of the BHEL if required.
13. Assembling of lead screw columns shaft and bearing MS box Nut, coupling sliding gearbox Sliding gear box.
14. All material will be provided by the BHEL Bhopal except **04 Nos box nuts** & **01 No Hydraulic Pressure Gauge 500 Kg.**
15. BHEL will provide the required raw materials for electricity pneumatic air air water welding machine crane frock lifter and gas cutting plant gas cutting torch there consumes electricity and compressed air free of cost.

**B. Repairing and Servicing of 300 ton press machine Block III**

1. Servicing/Replacement of all oil seals. O rings gaskets and other rubber/sealing items.
2. Repairing/servicing of hydraulic pumps. Hydraulic motors, flow & direction control valves Pressure relief valves servo valves and manifolds etc to run effectively.
3. Dismantle/Assembly of gear coupling.
4. Dismantle/Assembly of shaft and bearing.
5. Checking of limit switches and other safety interlock.
6. Filling of fresh oil in gear box.
7. Check the all pipes flanges and joint with vibration proof and leakage proof.
8. For Oiling & greasing.
9. Check the power pack system.
10. BHEL provided the machining & welding of opened wheel.
11. All the damaged gear will provide by BHEL.

**Material in scope of contractor.**

1. **04 No MS Box Nut.**
2. **01 No Hydraulic Pressure Gauge 500 Kg.**

**DY.MGR(FRX)**