

Government of Tripura
Labour Department
(Factories & Boilers Organisation)

**Inspection Procedure and inspection checklist/form under
the Boilers Act, 1923, Indian Boiler Regulations, 1950 & Rules**

❖ **Inspection Procedure for Boilers:**

1. Ground Inspection of pressure parts before erection.
2. Simulation Test of pressure parts.
3. Boiler drums alignment inspection.
4. Inspection of Tack welding before final welding.
5. Inspection of Welded joints.
6. Marking of Welded joints for Radiography Test.
7. Checking of Radiography Test Reports.
8. Hydraulic Test.
9. Issue of Provisional Order (Form-V) on successful Hydraulic Test.
10. Steam Test as per Regulations.
11. Issue of Final Operation certificate (Form-VI).

❖ **Inspection Checklist/Form for Boilers:**

1. Verification of engraved Boiler Registration number.
2. Checking the physical condition of safety valves i.e., any rust, scale or other foreign substances.
3. Quality of boiler feed water (pH, TDS or hardness).
4. Working of feed water pumps.
5. Availability of boiler attendants & verify their certificates.
6. Condition of all valves (main stop valves, feed check valves, air vent, blow down, feed inlet, water gauge mountings, water level controller) & fusible plug etc.
7. Condition of internal surface of shell, gussets, stays provided, stiffeners on furnace, external surface of tubes shall be checked.

Contd.

- 8. Any scale or oil solvents in internal or external parts of boiler.
- 9. Any corrosion or grooving or cracks observed in internal and external parts of boiler.
- 10. Condition of tubes internal for any blockages & leakages, bulges or cracks or defective weld.
- 11. Any distortions or bulging or blistering or leaks in furnace or fire box.
- 12. Condition of stay bolts or tube ends.
- 13. Any leak, expansions or contractions in steam pipe connections

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