

Inspection Procedure of Boiler for Renewal under Boilers Act, 1923

Step 1	<ul style="list-style-type: none"> • Boiler owner shall apply online to the departmental website before expiry of the certificate.
Step 2	<ul style="list-style-type: none"> • Inspector/Competent person shall inform date of inspection and hydraulic test to owner (with 10 days notice).
Step 3	<ul style="list-style-type: none"> • On the said date Inspector/Competent person shall inspect the boiler as per checklist and as per Reg.390 of Indian Boiler Regulation, 1950. • In case of boiler got repaired Inspector/Competent person (Third Party) shall verify details of repair as per Indian Boiler Regulation, 1950. • Boiler shall be inspected and hydraulically tested upto 1.5 times of the maximum working pressure as per Indian Boiler Regulation, 1950. • Inspector/Competent person (Third Party) prepares inspection report at site and hand over a copy to the owner or his representative and inform Director of Boilers within 48 hours. • Renewal certificate granted. • If the condition of the boiler is not found satisfactory and any part or components of boiler found leaking during inspection and hydraulic testing will communicate to the Boiler owner to repair the Boiler as per Indian Boiler Regulation, 1950. All welding work shall be carried out by a certified welder. NDT report/Radiography/SR Chart should be submitted. • After repair owner will apply again to inspection of Boiler.

CHECKLIST: INSPECTION FOR RENEWAL OF BOILER CERTIFICATE

GENERAL INFORMATION	
Date of Inspection	
Name of Owner/Factory/Premises	
Address of Factory/Premises	
Registration No. of Boiler	
Type of Boiler	
Boiler Rating (m ²)	
Maximum Continuous Evaporation(Kg/hr)	
Max. Allowable working Pressure (Kg/cm ²)	
Hydraulic test Pressure (Kg/cm ²)	
Required fees deposited	Yes/No
Preparation for open inspection	
If the Boiler is in battery, all steam & water & furnace flue communication with another boiler shall be disconnected	Yes/No
Access to/condition and cleaning of Boiler, boiler components, boiler mountings, fittings, steam pipes	Yes/No Satisfactory/Not satisfactory

Boiler is completely empty	Yes/No
Boiler is in cold condition	Yes/No
All essential Parts of boiler such as Safety valve Cleaned properly, scales on tubes inside & outside	Yes/No
Manhole, Hand Hole, Sight hole are opened to examine boiler from inside.	Yes/No
Internal & External Condition of Shell/Drum	Satisfactory/Not Satisfactory
Internal & External Condition of Tubes	Satisfactory/Not Satisfactory
Internal & External Condition of Headers and boiler components.	Satisfactory/Not Satisfactory
Condition of mountings and Fittings	Satisfactory/Not Satisfactory
1.Fusile plug	Satisfactory/Not Satisfactory
2.Water Feed Pump	Satisfactory/Not Satisfactory
3.Feed check valves	Satisfactory/Not Satisfactory
4.Stop Valves	Satisfactory/Not Satisfactory
5. Water gauge	Satisfactory/Not Satisfactory
6. Safety valves	Satisfactory/Not Satisfactory
7.Blow off Valve	Satisfactory/Not Satisfactory
8.Steam pressure gauge i. Range ii. Red mark at iii. Type	Satisfactory/Not Satisfactory
9. Mobray / Water level controller	Yes/No

Preparation for hydraulic test	
If the Boiler is in battery, all steam & water & furnace flue communication with another boiler shall be disconnected	Yes/No
The Safety valves removed and chest opening blank flanged	Yes/No
Boiler completely filled with water	Yes/No
Ensure no Air trapped inside boiler.	Yes/No
Water temprature in boiler during Hydraulic Test should be between 20° C and 50° C.	Yes/No
Hydraulic test to be taken to 1.5 times the maximum Working pressure or as per regulation 390 of Indian Boiler Regulation, 1950.	Yes/No
Whether Any leakage or deflection noticed.	Yes/No
Whether Repairs carried out/change of mountings (If yes, then details)	Yes/No
Conclusion- Overall condition of boiler	Satisfactory/Not Satisfactory
Boiler Attendant/BOE details	Appointed/Not appointed
Fuel Used	
Steam use details	

Inspection Procedure of Boiler for Registration under Boilers Act, 1923

Steps	Procedure
Step 1	Boiler owner shall apply online to the department website with relevant documents for registration of boiler as per regulation 381 and section 7 of the Boilers Act, 1923.
Step 2	Inspector/Competent person (Third Party) shall inform date of inspection to the owner The following documents to be kept ready for inspection of boiler- Form No. II or Form No. XVII, Form No. III Form No. IIIA, IIIB, III C Form No. IV or IV A Drawingsetc
Step 3	<ul style="list-style-type: none"> • In case of packaged boiler (Case A) Inspector/Competent person (Third Party) shall visit the site to inspect boiler, boiler components, mountings and fittings along with relevant certificates and test reports to verify as per checklist shown below. • • Inspector/Competent person (Third Party) shall witness hydraulic test. • Boiler and Steam Pipe Line shall be hydraulically tested to 1.5 times of the maximum working pressure. • Inspector/Competent person prepare inspection report at site and hand over a copy to the owner or his representative. <ul style="list-style-type: none"> • In case of erection of boiler at site (Case B) Owner of Boiler may ask for stage inspection after the material is received at site/completion of part erection. • The Inspector/Competent person (Third Party) shall visit the site to inspect boiler, boiler components, mountings and fittings along with relevant certificates and test reports to verify as per checklist shown below. • Inspector/Competent person (Third Party) shall witness hydraulic test during various stages/after complete erection of boiler as required. • Boiler and Steam Pipe Line shall be hydraulically tested to 1.5 times of the maximum working pressure. • Inspector/Competent person prepare inspection report at site and hand over a copy to the owner or his representative.
Step 4	Boiler owner has to produce to the Inspector/Competent person (Third Party) all documents and test reports related to boiler, boiler components, mountings, fittings and steam pipeline before final hydraulic test.
Step 5	After inspection Inspector/Competent person shall prepare Boiler and steam pipe line inspection reports and submit inspection reports along with all documents and test reports to Chief Inspector/Director of Boilers to register the boiler. PO shall be issued within 48 hours of inspection.

CHECKLIST: INSPECTION FOR REGISTRATION OF BOILER

GENERAL INFORMATION	
Date of Inspection	
Name of Owner/Factory/Premises	
Address of Factory/Premises	
Boiler Maker No.	
Name of Boiler Manufacture	
Year of Manufacture	
Type of Boiler	
Boiler Rating	
Maximum Continuous Evaporation(Kg/hr)	
Maximum Allowable Working Pressure (Kg/cm ²)	
Hydraulic Test Pressure(Kg/cm ²)	
Inspection during erection	
Certificate of boiler, boiler components, mountings, fittings, steam pipes etc in form-II, III, III C IV, IV-A submitted or available for inspection.	Yes/No
Boiler Drawings available for inspection.	Yes/No
Required fees deposited	Yes/No
Approved Steam pipeline drawings available for inspection.	Yes/No If Yes Approval No.
In case of Boiler to be erected at site and Site welding carried out: (a)Boiler drums, boiler components, mountings, fittings, steam pipes etc. accessible for inspection for any transit damage and verification as per certificates/stamps.	Yes/No
Internal & External Condition of Shell/Drum	

Internal & External Condition of Tubes	Satisfactory/Not Satisfactory
Internal & External Condition of Headers and boiler components	Satisfactory/Not Satisfactory
(b) Weld joints and test reports should be made available for inspection. Test reports such as Radiography carried out and Reports & films available for inspection.	Yes/No
Stress Relieving (SR) reports available for inspection.	Yes/No
Details of Recognised boiler Repairer.	
Details of IBR certified welders	
Condition of Mountings and Fittings	
1.Fusile plug	Satisfactory/Not Satisfactory
2.Feed Pump	Satisfactory/Not Satisfactory
3.Feed check valves	Satisfactory/Not Satisfactory
4.Stop Valve	Satisfactory/Not Satisfactory
5. Water gauge	Satisfactory/Not Satisfactory
6. Safety valves	Satisfactory/Not Satisfactory
7.Blow off Valves	Satisfactory/Not Satisfactory
8.Steam pressure gauge	Satisfactory/Not Satisfactory
9. Mobray / Water level controller	Satisfactory/Not Satisfactory

Preparation for Hydraulic Test	
If the Boiler is in battery, all steam & water & furnace flue communication with another boiler shall be disconnected	Yes/No
The Safety valves removed and chest opening blank flanged	Yes/No
Boiler completely filled with water	Yes/No
Ensure no trap of air	Yes/No
The Temperature of water in boiler during Hydraulic Test should be between 20° C and 50° C.	Yes/No
Hydraulic test to be taken to 1½ times the maximum Working pressure.	Yes/No
Any leakage or deflection noticed.	Yes/No
Conclusion- Overall condition of boiler	Satisfactory/Not Satisfactory
Boiler completely filled with water	Yes/No
Ensure no Air trapped inside boiler.	Yes/No
Any leakage or deflection noticed.	Yes/No
Boiler Attendant/BOE Certificate Details	Appointed/Not appointed
Boiler Attendant/BOE Certificate Certificate no.	
Fuel Used	
Steam use details	