

## FREQUENTLY ASKED QUESTIONS

Q.1 What is Boiler?

Ans: “Boiler” means a pressure vessel in which steam is generated for use external to itself by application of heat which is wholly or partly under pressure when steam is shut off but does not include a pressure vessel-

- I. With capacity less than 25 litres (such capacity being measured from the feed check valve to the main steam stop valve);
- II. With less than one kilogram per centimeter square design gauge pressure and working gauge pressure; or
- III. In which water is heated below one hundred degree centigrades;

Q.2 What is Small Industrial Boiler?

Ans: “Small Industrial Boiler” means-

- (a) A shell type boiler generating steam for use external to itself under pressure upto 7 kg/cm<sup>2</sup> and having a volumetric capacity exceeding 22.75 litres, but not exceeding 500 litres including the volumetric capacity of all pressure parts being heated from the same heating source and connected to the boiler; or
- (b) A coil type boiler or a once through boiler or a water tube boiler having the conditions specified in clause (a) above except that-
  - i) The limitation of pressure shall be 12 Kg/cm<sup>2</sup>, and
  - ii) The capacity shall be not exceeding 150 litres:

Provided that in case of boilers having combined features of clauses (a) and (b), the working pressure shall be restricted to 7 Kg/Cm<sup>2</sup> and the volumetric capacity of particular pressure parts shall not exceed the limits specified in the respective clauses above subject to an aggregate of 500 litres.

Q.2 What is Boiler Components?

Ans: “Boiler Components” means steam piping, feed piping, economizer, super heater, any mounting or other fitting and any other external or internal part of a boiler which is subject to pressure exceeding one kilogram per centimeter square gauge.

Q.3 What is Steam Pipe?

Ans: “Steam Pipe” means any pipe through which steam passes if-

- I. The pressure at which steam passes through such pipe exceeds 3.5 kilogram per square centimeters above atmospheric pressure, or

II. Such pipe exceeds 254 millimetres in internal diameter and the pressure of steam exceeds 1 kilogram per square centimeters above the atmospheric pressure, And includes in either case any connected fitting of a steam pipe;

Q.4 What is the meaning of Structural alteration , addition or renewal?

Ans: Structural alteration , addition or renewal means;-

- I. Any change in the design of a boiler or boiler component;
- II. Replacement of any part of boiler or boiler component by a part which does not conform to the same specifications; or
- III. Any addition to any part of a boiler or boiler component;

Q.5 Under what circumstances a boiler with valid certificate can not be used ?

Ans.: A boiler with valid certificate can not be used under following circumstances:-

- When any accident occurs to the boiler.
- When boiler is shifted from its place to other place (not applicable for portable boiler or boiler less than 20 square metre of heating surface area).
- When any alteration, addition or renewal is made/proposed to boiler.
- When Chief Inspector directs to make any alteration, addition or renewal to boiler.
- When an order is sent by Boiler Inspectorate to owner that boiler or steam pipe line are in dangerous condition.

Q.6 What is the responsibility of the owner when accident occurs?

Ans.: Reporting of accident with full details must be submitted within 24 hours to Boiler Inspectorate. Boiler Inspectorate shall carry out investigation & shall propose necessary repairs. After carrying out suggested repairs, inspection & necessary tests of boiler shall be carried out and boiler shall be permitted for further use.

Q.7 Where an appeal can be filed if a person is aggrieved by an order issued by Inspector under the Boilers Act - 1923?

Ans.: If a person is aggrieved by an order of an Inspector he can file an appeal within 30 days from the date of issue of order to the Chief Inspector as per provision of section 19 of the Act. In case the person is not satisfied with the order of Chief Inspector, he may file an appeal to Central Government within 30 days against the order of Chief Inspector as per provision of section 20 of the Act.

Q.8. Is it necessary to get the boiler registered ?

Ans: Yes. it is mandatory to get the boiler registered under Sec 7 of the the Boilers Act - 1923..

Q.9. What is the procedure of registration of a boiler?

Ans.: Owner has to apply for Registration of Boiler along with all IBR documents and details of manufacturing along with required fee on online through this website details process for different boilers website. [Note: For Boiler Rating less than 20 Mtrs & Working Pressure upto 7 Kg.cm<sup>2</sup> manufacturing details not required]

Q.10 Whether it is compulsory to engage recognized boiler erector or boiler repairer for erection of a new boiler or repairs to a boiler?

Ans.: As per provision of regulation 392 of IBR - 1950 it is compulsory to engage a recognized boiler erector or boiler repairer of appropriate class. Recognised boiler erector or boiler repairer have experienced engineers, technicians, certified welders, proper tools/tackles and internal quality control system to ensure the quality of workmanship.

Q.11 Can a IBR qualified welder of one state, work in other state?

Ans.: Yes, This is possible after getting endorsement on original welder certificate by CIB of other state. Endorsement fees as per regulation 616 is to be paid.

Q.12 Is it mandatory to get the boiler inspected every year? Whether inspection can be offered before the due date ?

Ans.: Section 6(c) of Boilers Act - 1923 prohibits use of a boiler after expiry of validity of its certificate. Hence, it is mandatory to get the boiler inspected after expiry of validity period. If plant is forced shutdown due to other reasons, inspection of boiler can be arranged during the period of shutdown; i.e. before the validity of the certificate so that boiler may not be stopped again for annual inspection.

Q.13 Whether annual inspection of a boiler is compulsory if boiler is not to be used in future?

Ans.: A valid certificate is mandatory for use of a boiler. If boiler is not to be use in future after expiry of validity, then annual inspection of boiler is not necessary. It is desirable to intimate to Boiler Inspectorate for not using the boiler in future.

Q.18. Whether prior approval is required for carrying out any repairs to boiler or pipe line.

Ans.: it is compulsory to take prior approval as per provision of section 12 & 13 of Act to carry out any repairs to boiler or pipe line so as to ensure quality of workmanship & use of standard material for the safety of boiler.

Q.19 Whether any welder can be deployed for welding in boiler or pipe line?

Ans.: No. As per provision of chapter 13 of IBR - 1950 welders are tested and certified for various grades of material & various test positions. Only appropriate class of welder having valid certificate can be deployed for welding work.

Q.20. Is it necessary to inform Boiler office if I purchase second hand boiler?

Ans: Yes, Second hand boiler byer(owner) has to apply for erection permission, change of ownership of boiler along with documents of copy of previous boiler certificate a letter from previous owner, erection details & required fees, sale deed, identity and address proof etc.

Q.21 Is it compulsory to get prior approval for drawing of steam pipe line before installation. ?

Ans: Prior approval for drawing of steam pipe line is compulsory. As per requirement of service conditions (steam pressure & temperature), the design of pipe line & its material specification, gradient, drainage, support, arrangement of isolation for safety and capacity of safety valves etc. are checked as per technical standards prescribed in IBR-1950. Thus, the safety of pipe line is ensured so that it may not explode during use.

Q.22 Who conducts the examinations for Boiler Attendants & Boiler Operation Engineers?

Ans: State Government has constituted Board of Examiners to conduct examinations for Boiler Attendants & Boiler Operation Engineers. Persons with minimum qualification & experience in boilers as prescribed in rules may appear in the examination. This Inspectorate conducts examinations for Second Class Boiler Attendants, First Class Boiler Attendants & Boiler Operation Engineers.