

(ii) जब गैर विध्वंसकारी परीक्षण के लिए तैयार हो और ताप उपचार के पश्चात् यांत्रिक परीक्षण नमूने का चयन ;

(iii) परीक्षा, अंतिम जांच और स्टैपिंग

**टिप्पण** – ऊपर विनिर्दिष्ट किसी बात के होते हुए भी जहा ढलाई विख्यात ढलाई ईकाइयों द्वारा की जाती है जैसा कि भारतीय बायलर विनियम, 1950 के अधीन केंद्रीय बायलर बोर्ड द्वारा मान्यता प्रदान की गई है, इन परीक्षणों को ढलाईकारों द्वारा स्वयं किया जाएगा और प्रमाणित किया जाएगा तथा अभिलेख रखे जाएंगे।

#### 4. फाउंडरी ईकाइयां:

(i) विनियमों के अनुसार पिघले हुए धातु के रसायन की जांच;

(ii) ताप संख्या का सत्यापन और परीक्षण छड़ों की स्टैपिंग ;

(iii) गैर विध्वंसकारी परीक्षण रिपोर्ट और ताप उपचार रिपोर्टों / अभिलेखों, यांत्रिक परीक्षण का सत्यापन, अंतिम जांच एवं स्टैपिंग

**टिप्पण** – ऊपर विनिर्दिष्ट किसी बात के होते हुए भी जहां कास्टिंग विख्यात फाउंडरी इकाइयों द्वारा की जाती है जैसा कि भारतीय बायलर विनियम, 1950 के अधीन केंद्रीय बायलर बोर्ड द्वारा मान्यता प्रदान की गई है, इन परीक्षणों को ढलाईकारों द्वारा स्वयं किया जाएगा और प्रमाणित किया जाएगा तथा अभिलेख रखे जाएंगे।

#### ड. वाल्व और माउंटिंग

(क) सुसंगत सामग्री परीक्षण प्रमाणपत्रों के साथ सामग्रियों की पहचान;

(ख) हाइड्रोलिक परीक्षण और स्टैपिंग ।”।

[फा. सं. 6(3)/2015-बायलर ]

टी. एस. जी. नारायणन, सचिव, केंद्रीय बायलर बोर्ड

**टिप्पण** – मूल विनियम भारत के राजपत्र में का.आ. 600, तारीख 15 सितंबर, 1950 द्वारा प्रकाशित किए गए थे और इनका अंतिम संशोधन सा.का.नि. 286, तारीख 15 अप्रैल, 2015 द्वारा किया गया।

### MINISTRY OF COMMERCE AND INDUSTRY

(Department of Industrial Policy and Promotion)

(CENTRAL BOILERS BOARD)

#### NOTIFICATION

New Delhi, the 26th August, 2015

**G.S.R. 664 (E).**—Whereas certain draft regulations namely, the Indian Boiler (Second Amendment) Regulations, 2015 further to amend the Indian Boiler Regulations, 1950 were published as required under sub-section (1) of Section 31 of the Boilers Act, 1923 (5 of 1923) *vide* notification number G.S.R. 285(E), dated the 15<sup>th</sup> April, 2015 for inviting objections and suggestions from all persons likely to be affected thereby, before the expiry of the period of forty-five days from the date on which the copies of the said Gazette notification were made available to the public;

And whereas, copies of the said notification were made available to the public on the 23<sup>rd</sup> April, 2015;

And whereas, objections and suggestions have been received from various persons and stakeholders within the specified period in respect of the amendments contained in the said notification and all the objections and suggestions have been duly considered;

Now, therefore, in exercise of the powers conferred by section 28 of the Boilers Act, 1923 (5 of 1923), the Central Boilers Board hereby makes the following regulations further to amend the Indian Boiler Regulations, 1950, namely:—

**1. Short title and commencement.**—(1) These regulations may be called the Indian Boiler (Second Amendment) Regulations, 2015.

(2) They shall come into force on the date of their publication in the Official Gazette.

2. In the Indian Boiler Regulations, 1950 (hereinafter referred to as the said regulations) in regulation 4,—

(i) for clause (e), the following clause shall be substituted, namely:—

“(e) **Certificates for pipes.**—A certificate of manufacture and test in Form III-A, signed by the maker and the Inspecting Authority shall be furnished and well known pipe makers shall also be allowed to furnish digitally signed on-line certificate of manufacture and test in Form III-A.”;

(ii) for clause (f), the following clause shall be substituted, namely:—

“(f) **Certificates for tubes.**—A certificate of manufacture and test in Form III-B, signed by the maker and the Inspecting Authority shall be furnished and well known tube makers shall also be allowed to furnish digitally signed on-line certificate of manufacture and test in Form III-B.”.

3. In the said regulations, in regulation 290,-

(i) for clause (a), the following clause shall be substituted, namely:—

“(a) All chests and fittings shall be smooth, sound and free from flaws, cracks or other injurious defects and after completion, the chests shall be hydraulically tested at minimum one and half times the working pressure of the boiler for which they are intended.

Hydraulic test shall be made with water which may contain a corrosion inhibitor, with kerosene or with other suitable liquid provided its viscosity is not greater than that of water at a test temperature not above 52°C.”;

(ii) in clause (d), for the words, letters and figures “where,  $f$  = allowable stress in  $\text{kg/mm}^2$  for the material at the working metal temperature ‘ $t$ ’ to be determined on the basis given below:

The allowable stress ‘ $f$ ’ at or below 454°C is the lower of the following two values:

$$f = \frac{Et}{1.5} \qquad f = \frac{R}{2.7}$$

For temperature above 454°C the least of the following three values—

$$(a) f = \frac{Et}{1.5} \qquad (b) f = \frac{Sr}{1.5} \qquad (c) f = Sc$$

“where,  $f$  = maximum allowable stress as available in the governing codes of the country of the material to which it belongs in  $\text{kg/mm}^2$ . In case of non-availability of the value, the following procedure for evaluating the allowable stress values shall be adopted.

For temperature at or below 454°C, the lower of the following two values:

$$f = \frac{Et}{1.5} \qquad f = \frac{R}{2.7}$$

For temperature above 454°C the least of the following three values—

$$(a) f = \frac{Et}{1.5} \qquad (b) f = \frac{Sr}{1.5} \qquad (c) f = Sc$$

4. In the said regulations, for regulation 385, the following regulations shall be substituted, namely:—

“385. Registration fee.—The required fee to accompany an application under sub-section (1) of section 7 of the Act shall be as follows:—

TABLE

Sl. No.	Boiler Ratings	Fee in rupees
(1)	(2)	(3)
1	For Small Industrial Boiler as per Chapter XIV	1200
2	For Boiler Rating not exceeding 10 sq. meters	1800
3	For Boiler Rating exceeding 10 sq. meters but not exceeding 30 sq. meters	2400
4	For Boiler Rating exceeding 30 sq. meters but not exceeding 50 sq. meters	2700
5	For Boiler Rating exceeding 50 sq. meters but not exceeding 70 sq. meters	3300
6	For Boiler Rating exceeding 70 sq. meters but not exceeding 90 sq. meters	3900
7	For Boiler Rating exceeding 90 sq. meters but not exceeding 110 sq. meters	4500
8	For Boiler Rating exceeding 110 sq. meters but not exceeding 200 sq. meters	5100
9	For Boiler Rating exceeding 200 sq. meters but not exceeding 400 sq. meters	5700
10	For Boiler Rating exceeding 400 sq. meters but not exceeding 600 sq. meters	6600
11	For Boiler Rating exceeding 600 sq. meters but not exceeding 800 sq. meters	7200
12	For Boiler Rating exceeding 800 sq. meters but not exceeding 1000 sq. meters	8100
13	For Boiler Rating exceeding 1000 sq. meters but not exceeding 1200 sq. meters	9600
14	For Boiler Rating exceeding 1200 sq. meters but not exceeding 1400 sq. meters	10800
15	For Boiler Rating exceeding 1400 sq. meters but not exceeding 1600 sq. meters	12600
16	For Boiler Rating exceeding 1600 sq. meters but not exceeding 1800 sq. meters	13500
17	For Boiler Rating exceeding 1800 sq. meters but not exceeding 2000 sq. meters	15000
18	For Boiler Rating exceeding 2000 sq. meters but not exceeding 2200 sq. meters	16200
19	For Boiler Rating exceeding 2200 sq. meters but not exceeding 2400 sq. meters	18000
20	For Boiler Rating exceeding 2400 sq. meters but not exceeding 2600 sq. meters	18900
21	For Boiler Rating exceeding 2600 sq. meters but not exceeding 2800 sq. meters	20400
22	For Boiler Rating exceeding 2800 sq. meters but not exceeding 3000 sq. meters	21600

Above 3000 sq. meters, for every 200 sq. meters or part thereof, an additional fee of Rs. 600 shall be charged:

Provided that the Chief Inspector may direct that no fee shall be payable in respect of a fresh application made in pursuance of sub-section (2) of section 14 of the Act.

Inspection fee for separately fired Super-heater, Re-heater and Economiser shall be charged at the same rate as the registration fee.

For Heat Recovery Steam Generators with finned tubes, the fee shall be calculated on heating surface area of bare tubes and on one fourth of heating surface area of fins.

**Note:** The State Government may, by notification in the Official Gazette, make rules for prescribing fees as per clause (f) of sub-section (1) of section 29 of the Act, which shall prevail.

385A. Inspection fee for renewal of Certificate.-- The required fee to accompany an application under sub-section (5A) of section 8 of the Act shall be as follows :—

**TABLE**

S.No.	Boiler Ratings	Fee in rupees
(1)	(2)	(3)
1	For Small Industrial Boiler as per Chapter XIV	1000
2	For Boiler Rating not exceeding 10 sq. meters	1600
3	For Boiler Rating exceeding 10 sq. meters but not exceeding 30 sq. meters	2100
4	For Boiler Rating exceeding 30 sq. meters but not exceeding 50 sq. meters	2400
5	For Boiler Rating exceeding 50 sq. meters but not exceeding 70 sq. meters	2700
6	For Boiler Rating exceeding 70 sq. meters but not exceeding 90 sq. meters	3400
7	For Boiler Rating exceeding 90 sq. meters but not exceeding 110 sq. meters	4000
8	For Boiler Rating exceeding 110 sq. meters but not exceeding 200 sq. meters	4500
9	For Boiler Rating exceeding 200 sq. meters but not exceeding 400 sq. meters	5000
10	For Boiler Rating exceeding 400 sq. meters but not exceeding 600 sq. meters	5800
11	For Boiler Rating exceeding 600 sq. meters but not exceeding 800 sq. meters	6300
12	For Boiler Rating exceeding 800 sq. meters but not exceeding 1000 sq. meters	7100
13	For Boiler Rating exceeding 1000 sq. meters but not exceeding 1200 sq. meters	8400
14	For Boiler Rating exceeding 1200 sq. meters but not exceeding 1400 sq. meters	9500
15	For Boiler Rating exceeding 1400 sq. meters but not exceeding 1600 sq. meters	11100
16	For Boiler Rating exceeding 1600 sq. meters but not exceeding 1800 sq. meters	11900
17	For Boiler Rating exceeding 1800 sq. meters but not exceeding 2000 sq. meters	13200
18	For Boiler Rating exceeding 2000 sq. meters but not exceeding 2200 sq. meters	14300
19	For Boiler Rating exceeding 2200 sq. meters but not exceeding 2400 sq. meters	15800
20	For Boiler Rating exceeding 2400 sq. meters but not exceeding 2600 sq. meters	16600

21	For Boiler Rating exceeding 2600 sq. meters but not exceeding 2800 sq. meters	18000
22	For Boiler Rating exceeding 2800 sq. meters but not exceeding 3000 sq. meters	19000

Above 3000 sq. meters, for every 200 sq. meters or part thereof an additional fee of Rs. 500 shall be charged:

Provided that the Chief Inspector may direct that no fee shall be payable in respect of a fresh application made in pursuance of sub-section (2) of section 14 of the Act.

Inspection fee for separately fired Super-heater, Re-heater and Feed water heater shall be charged at the same rate.

For Heat Recovery Steam Generators with finned tubes, the fee shall be calculated on heating surface area of bare tubes and on one fourth of heating surface area of fins.

For renewal of certificate for a period of six months or less on the request of owner, half of applicable fee shall be payable.

Applicable fee shall be payable again for the re-inspection of a defective boiler after completion of repairs.

For inspection on Sundays and Public Holidays under the Negotiable Instrument Act, 1881 (26 of 1881), on the request of owner, additional fee equivalent to half of applicable fee shall be payable.

**Note:** If any State Government has notified rules before the commencement of these regulations, for fee payable for renewal of certificate which is higher than that specified in this regulation, they may exercise option to charge fee as per those rules or as provided in this regulation.”

5. In the said regulations, regulation 388 shall be numbered as sub-regulation (1) thereof and after sub-regulation as so re-numbered, the following sub-regulation shall be inserted, namely:—

“(2) A fee of Rs. 1000 per boiler shall be charged by the transferor State from the boiler owner.”

6. In the said regulations, for regulation 392, the following regulation shall be substituted, namely:—

“392. Repairs to Boilers and Steam Pipes.— (1) Major repairs or replacements such as tubes, coils, headers, drums, fusion welded or riveted patches to shells, fireboxes and end plates of boilers and extensive building up of wasted parts of boilers permitted under these regulations, the renewal of furnaces and end plates, parts of shell, fireboxes, girders and steam-pipes, etc., shall only be entrusted to a firm who is recognised as a repairer under these regulations.

(2) Any firm seeking recognition shall apply to the Chief Inspector of Boilers of the State in which the recognition is sought alongwith the following fee:—

**TABLE**

S.No.	Class of boiler repairer	Fee for recognition in rupees	Fee for renewal of recognition in rupees	Fee for endorsement in rupees
(1)	(2)	(3)	(4)	(5)
1.	Special Class	15,000/-	7,500/-	5,000/-
2.	Class I	10,000/-	5,000/-	4,000/-
3.	Class II	5,000/-	2,500/-	2,000/-
4.	Class III	2,500/-	1,250/-	1,000/-

- (3) A firm seeking recognition as a repairer shall meet the following requirements depending upon the class of boilers, namely:—
- (i) Class I boiler repairer.—The owner of the firm himself shall have a degree in mechanical or Production or Power Plant or Metallurgical engineering or the firm shall have on its rolls a permanently employed engineer having a degree in mechanical or Production or Power Plant or Metallurgical engineering and the said owner or the permanently employed engineer shall also have an experience of at least five years in an organisation engaged in fabrication, erection, repair or maintenance and quality control of boilers; and the firm shall also have qualified and permanently employed welders as per the provisions of these regulations;
  - (ii) Class II boiler repairer.—The owner of the firm himself shall have a diploma in mechanical engineering or the firm shall have on its rolls a permanently employed engineer having a diploma in mechanical engineering and the said owner or the permanently employed engineer shall also have an experience of at least three years in an organisation engaged in fabrication, erection, repair or maintenance and quality control of boilers; and the firm shall also have qualified and permanently employed welders as per the provisions of these regulations;
  - (iii) Class III boiler repairer.— The owner of the firm himself or a person permanently employed with the firm shall have a minimum three years' experience in repair, maintenance, operation, erection or inspection of boiler and the firm shall also have qualified and permanently employed welders as per the provisions of these regulations;
  - (iv) Special class boiler repairer.—The owner of the firm himself shall have a degree in mechanical or welding engineering alongwith specialised experience in welding technology for a minimum period of three years or the firm shall have on its rolls a permanently employed engineer having a degree in mechanical or welding engineering alongwith specialised experience in welding technology for a minimum period of three years, and have permanently employed welders as per the provisions of these regulations who should also have valid certificate for carrying out Tungsten Inert Gas welding;
  - (v)
    - (a) Where the power stations, fertilizer plants, chemical and petrochemical plants or refineries apply for repair of their own boilers, they shall have all the facilities in-house and may apply to the Chief Inspector of Boilers of the State for permission to repair their own boilers in accordance with these regulations;
    - (b) On receipt of the application for permission to repair to a boiler, the Chief Inspector of Boilers of the State shall reply to the request within a period of fifteen days of the receipt of the application.
- (4) On receipt of the application under sub-regulation (3), the Chief Inspector shall send a questionnaire in 'Form XVIII' to the applicant.
- (5) The Chief Inspector shall scrutinise and evaluate the application along with the replies to the questionnaire and after satisfying himself that the following requirements are fulfilled, shall recognise the firm as a repairer within a period of thirty days, in the category applied for, namely:—
- (i) that the firm possesses rectifier or generator, grinder, general tools and tackles, dye-penetrant kit, expander and measuring instruments;
  - (ii) that the electric arc or oxy-acetylene welding sets and all other tools and plant in his possession for carrying out repairs are suitable for the work undertaken;
  - (iii) that the quality of material used conforms to the specifications prescribed in these regulations;
  - (iv) that the supervisory and operational staff employed by the firm possesses the necessary training and experience for the work undertaken;
  - (v) that all welders employed by the firm possess certificates issued as required under Chapter XIII of these regulations;
  - (vi) standard of work should be of high order and comply with all the requirements and test that may be specified by the Chief Inspector.
- (6) The recognition of the firm as a repairer shall be for a period of two years and thereafter it shall apply for renewal of its recognition at least two months before the expiry of said period.