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SUB-SECTION (i)]
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GOVERNMENT OF INDIA
MINISTRY OF COMMERCE AND INDUSTRY
(DEPARTMENT OF INDUSTRIAL POLICY AND PROMOTION)
(CENTRAL BOILERS BOARD)

New Delhi, dated the 28th October , 2010.

NOTIFICATION

G.S.R. 195 .- Whereas certain draft regulations further to amend the Indian Boiler Regulations, 1950 were published, as required by sub-section (1) of section 31 of the Boilers Act , 1923 (5 of 1923), in Part-II, Section 3, Sub-section (i) of the Gazette of India dated 1st May, 2010, vide notification of the Government of India in the Ministry of Commerce and Industry (Department of Industrial Policy and Promotion) (Central Boilers Board), number G.S.R. 80, dated the 29th April, 2010 for inviting objections and suggestions from all persons likely to be affected thereby till 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, the copies of the said Gazette were made available to the public on the 17th June, 2010;

And whereas, no objections or suggestions have been received;

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, 2010.

(2) They shall come into force after final publication in the Official Gazette.

2. In the Indian Boiler Regulations, 1950 (hereinafter referred to as the said regulations), in regulation 282, in sub-regulation (a), for clause (vi), the following shall be substituted, namely:-

"(vi) Alloy steel castings shall comply with the following requirements, namely:-

Carbon Molybdenum Castings	
(a) Chemical composition %	
Carbon	0.25 max.
Silicon	0.60 max.
Manganese	0.50 – 0.80
Molybdenum	0.45 –0.65
Sulphur	0.045 max
Phosphorus	0.04 max
(b) Specified Residual Elements %	
Copper	0.50 max
Nickel	0.50 max
Chromium	0.35 max
Tungsten	0.10 max
Total content of these Residual Elements	1.00 max
(c)Mechanical Properties:	
Minimum tensile strength	47 kg./mm²
Minimum yield strength	***25*** kg./ mm²
% Elongation on gauge length = 50mm	24 min.
Reduction in area in %	35 min.
Bend Test	120° on -D = 3t
(Where D=diameter of the mandrel and t = thickness of test piece)	
Heat Treatment: The castings shall be supplied in the normalized and tempered condition to obtain the desired properties. The normalized	

castings shall be tempered at a temperature of 595°C min.

Chromium Molybdenum Steel Castings:-

(a)Chemical composition %

	Gr. A	**Gr. B**
Carbon	0.05 - 0.20 max.	0.05-0.18 max.
Silicon	0.60 max	0.60 max
Manganese	0.50 - 0.80	0.40 – 0.70
Chromium	1.00 - 1.50	2.00 – 2.75
Molybdenum	0.45 – 0.65	0.90 – 1.20
Sulphur	0.045 max	0.045 max
Phosphorus	0.04 max	0.04 max

(b) Specified Residual Elements %

	Gr. A	**Gr. B**
Copper	0.50 max	0.50 max
Nickel	0.50 max	0.50 max
Tungsten	0.10 max	0.10 max
Total content of these Residual Elements	1.00 max	1.00 max

(c)Mechanical Properties:

	Gr. A	**Gr. B**
Minimum tensile strength	49 kg./mm²	49 kg./mm²
Minimum yield strength	28 kg./ mm²	28 kg./ mm²
% Elongation on gauge length = 50mm	20 min.	20 min.
Reduction in area in %	35 min.	35 min.
Bend Test	120° on -D = 3t	90° on -D = 3t

(Where D=diameter of the mandrel and t = thickness of test piece)

Heat Treatment: The castings shall be supplied in the normalized and tempered condition to obtain the desired properties. The normalized castings shall be subsequently tempered at a temperature of 595°C min. in case of Gr. A and 675 °C min in case of Gr. B ;".

3. In regulation 338 of the said regulations, in sub-regulation (b) , in the Table, for the figures, letters and brackets “3.35 mm(0.128 in)” occurring under Seamless Hot finished against Over 51 mm(2 in.) upto and including 76 mm (3 in.) , the figures, letters and brackets “3.25 mm(0.128 in)” shall be substituted.

4. In regulation 561 of the said regulations, in sub-regulation (b), in clause (iv), in 3rd paragraph, for the words, figures, brackets and letters “the test being carried out at a temperature between 50°C (122°F) and 100°C (212°F)”, the words, figures and letters “the test being carried out at a temperature of 20± 2°C” shall be substituted.

5. In regulation 611 of the said regulations, after sub- regulations (e), the following shall be inserted, namely:-

“(f) **Opportunity by the Competent Authority**- The Competent Authority shall not refuse to grant of Welder Certificate unless the applicant is given a notice in writing,-

(i) informing him of the grounds on which it is proposed to refuse to grant the Welder Certificate;

(ii) giving him opportunity of, making a representation in writing within a period of three weeks from the date of receipt of notice and being heard;

(g) **Decision of the Competent Authority**-The decision of the Competent Authority on refusal to grant Welder Certificate thereon shall be final.”.

6. In regulation 612 of the said regulations, after sub-regulation (d), the following shall be inserted, namely:-

“(e) **Opportunity of being heard**- The Competent Authority shall not refuse to grant of Welder Certificate unless the applicant is given a notice in writing ,-

(i) informing him the grounds of refusal to grant the Welder Certificate;

(ii) giving him opportunity of, making a representation in writing within a period of three weeks from the date of receipt of notice and being heard.

(f) Decision of the Competent Authority-The decision of the Competent Authority on refusal to grant Welder Certificate thereon shall be final.".

7. In regulation 619 of the said regulations, in sub-regulation (a), for the figures and word " 22.75 litres" the figures, words and brackets "25 litres (such capacity being measured from the feed check valve to the main steam stop valve)" shall be substituted.

8. In Form III-C of the said regulations, the Note shall be numbered as Note-1 thereof, and after Note-1 as so numbered , the following Note shall be inserted, namely:-

"Note-2: In case of safety valves, details and test results as required under item No. 11 of Form III shall also be furnished duly signed by the manufacturer and Inspecting Authority.".

9. In Form- XVIII of the said regulations, in item number 7, for the words "Xerox copy", the word "photocopy" shall be substituted.

10. In Appendix-JA to the said regulations, the following note shall be inserted at the end, namely:-

"Note: Wherever HP and LP Boilers operate from the same enclosure, the procedure for inspection as applicable to HP Boiler shall also be applicable to LP Boiler.":

[F. No.6(9)/2001-Boilers]

T. S. G. Narayannen
Secretary, Central Boilers Board

Note: - The principal regulations were published in the Gazette of India, *vide,* number S.O. 600, dated the 15th day of September, 1950 and subsequently amended, *vide,* the following notifications, namely:-
(i) G.S.R. 178, dated the 24th March, 1990;
(ii) G.S.R. 179, dated the 24th March, 1990;

(iii) G.S.R. 488, dated the 9th October, 1993;
(iv) G.S.R. 516, dated the 23rd October, 1993;
(v) G.S.R. 634, dated the 25th December, 1993;
(vi) G.S.R. 107, dated the 26th February, 1994;Errata G.S.R. 223, dated the 14th May,1994;
(vii) G.S.R. 250, dated the 4th June, 1994;
(viii) G.S.R. 402, dated the13th August, 1994;
(ix) G.S.R. 427, dated the 20th August, 1994;
(x) G.S.R. 562, dated the12th November, 1994;
(xi) G.S.R. 607, dated the10th December, 1994;
(xii) G.S.R. 83, dated the 25th February, 1995;
(xiii) G.S.R. 93, dated the 4th March, 1995;
(xiv) G.S.R. 488, dated the 9th November, 1996;
(xv) G.S.R. 582, dated the 28th December, 1996;
(xvi) G.S.R. 59, dated the 25th January, 1997;
(xvii) G.S.R. 117, dated the 1st March, 1997;
(xviii) G.S.R. 172, dated the 29th March, 1997;
(xix) G.S.R. 221, dated the 21st November, 1998;
(xx) G.S.R. 131, dated the 1st May, 1999;
(xxi) G.S.R. 139, dated the 8th May, 1999; Errata G.S.R. 201, dated the 7th April, 2001;
(xxii) G.S.R. 237, dated the 31st July, 1999;
(xxiii) G.S.R. 345, dated the 23rd October, 1999;
(xxiv) G.S.R. 397, dated the 14th October, 2000;
(xxv) G.S.R. 219, dated the 14th April, 2001;
(xxvi) G.S.R. 496, dated the 8th September, 2001;
(xxvii) G.S.R. 672, dated the 15th December, 2001;
(xxviii)G.S.R. 127, dated the 13th April, 2002;
(xxix) G.S.R. 407, dated the 22nd November, 2003;
(xxx) G.S.R. 201, dated the 19th June, 2004;
(xxxi) G.S.R. 203, dated the 19th June, 2004;
(xxxii) G.S.R. 265, dated the 7th August, 2004;
(xxxiii)G.S.R. 32, dated the 29th January, 2005;
(xxxiv)G.S.R. 66, dated the 26th February, 2005;
(xxxv) G.S.R. 67, dated the 26th February, 2005;
(xxxvi) G.S.R. 423, dated the 24th December, 2005;
(xxxvii)G.S.R. 27, dated the 4th February, 2006;
(xxxviii) G.S.R. 201, dated the 12th August, 2006;
(xxxix)G.S.R. 280, dated the 18th November, 2006;
(xl) G.S.R. 216, dated the 17th March, 2007;
(xli) G.S.R. 123, dated the 27th June, 2008;
(xlii) G.S.R. 212, dated the 4th December, 2008;
(xliii) G.S.R. 821(E), dated the 7th October, 2010.

To
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