

Quality And Accreditation Institute Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Certificate of Accreditation

Hindustan Forging and Steel Industries

Plot No.- F6/1 & 2, Road No.- 25 & 34, Wagle Industrial Estate,
Thane-400604, Maharashtra, India

has been assessed and accredited in accordance with the Standard
ISO/IEC 17025:2017

“General Requirements for the Competence of Testing and Calibration Laboratories”
In the field of
Testing

This certificate remains valid for the Scope of Accreditation as specified
in the annexure subject to continued compliance to the above standard &
any other requirements specified by QAI.



QAI/CIA/TL/2025/0104

Valid from: 25 February 2025

Valid until: 24 February 2027

Dr. Bhupendra Kumar Rana
Chief Executive Officer

Prof. Vikram Kumar
Chair, CIA



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Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
1.	Ferrous & Non-ferrous Metal	Ultimate Tensile Strength	IS 1608-Part 1: 2022
2.	Ferrous & Non-ferrous Metal	Ultimate Tensile Strength	ISO 6892 – 1: 2019
3.	Ferrous & Non-ferrous Metal	Ultimate Tensile Strength	ASTM A 370: 2024
4.	Ferrous & Non-ferrous Metal	Yield Strength	IS 1608 - Part 1: 2022
5.	Ferrous & Non-ferrous Metal	Yield Strength	ISO 6892 – 1: 2019
6.	Ferrous & Non-ferrous Metal	Yield Strength	ASTM A 370: 2024
7.	Ferrous & Non-ferrous Metal	Proof Stress 0.2%	IS 1608 - Part 1: 2022
8.	Ferrous & Non-ferrous Metal	Proof Stress 0.2%	ISO 6892 – 1: 2019
9.	Ferrous & Non-ferrous Metal	Proof Stress 0.2%	ASTM A 370: 2024
10.	Ferrous & Non-ferrous Metal	Proof Stress 0.5%	IS 1608 - Part 1: 2022
11.	Ferrous & Non-ferrous Metal	Proof Stress 0.5%	ISO 6892 – 1: 2019
12.	Ferrous & Non-ferrous Metal	Proof Stress 0.5%	ASTM A 370: 2024
13.	Ferrous & Non-ferrous Metal	Elongation	IS 1608 - Part 1: 2022
14.	Ferrous & Non-ferrous Metal	Elongation	ISO 6892 – 1: 2019
15.	Ferrous & Non-ferrous Metal	Elongation	ASTM A 370: 2024
16.	Ferrous & Non-ferrous Metal	Reduction Area	IS 1608 - Part 1: 2022
17.	Ferrous & Non-ferrous Metal	Reduction Area	ISO 6892 – 1: 2019

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1 of 7

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
18.	Ferrous & Non-ferrous Metal	Reduction Area	ASTM A 370: 2024
19.	Ferrous & Non-ferrous Metal	Charpy Impact Test – V Notch/U Notch (–60 to 35°C)	IS 1757 Part 1: 2020
20.	Ferrous & Non-ferrous Metal	IZOD Impact Test (Ambient temperature)	IS 1598: 2024
21.	Ferrous & Non-ferrous Metal	Charpy Impact Test – V Notch/U Notch (–60 to 35°C)	ISO 148: 1: 2016
22.	Ferrous & Non-ferrous Metal	Rockwell Hardness - HRC	IS 1586 Part 1: 2018
23.	Ferrous & Non-ferrous Metal	Rockwell Hardness - HRC	ASTM A 370: 2024
24.	Ferrous & Non-ferrous Metal	Rockwell Hardness - HRC	ASTM E 18: 2024
25.	Ferrous & Non-ferrous Metal	Rockwell Hardness - HRC	ISO 6508 – 1: 2023 (E)
26.	Ferrous & Non-ferrous Metal	Rockwell Hardness - HRBW	IS 1586 Part 1: 2018
27.	Ferrous & Non-ferrous Metal	Rockwell hardness - HRBW	ASTM A 370: 2024
28.	Ferrous & Non-ferrous Metal	Rockwell Hardness - HRBW	ASTM E 18: 2024
29.	Ferrous & Non-ferrous Metal	Rockwell Hardness - HRBW	ISO 6508 -1: 2023 (E)
30.	Ferrous & Non-ferrous Metal	Brinell Hardness - HBW (10/3000)	IS 1500 Part 1: 2019
31.	Ferrous & Non-ferrous Metal	Brinell Hardness - HBW (10/3000)	ASTM A 370: 2024

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www.qai.org.in



2 of 7

Quality And Accreditation Institute

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
32.	Ferrous & Non-ferrous Metal	Brinell Hardness - HBW (10/3000)	ASTM E 10: 2023
33.	Ferrous & Non-ferrous Metal	Brinell Hardness - HBW (10/3000)	ISO 6506 - 1: 2014
34.	Ferrous & Non-ferrous Metal	Microstructure Examination	ASM Handbook VOL. 9: 2004
35.	Ferrous & Non-ferrous Metal	Grain Size by Microscopic Method	IS 4748: 2021
36.	Ferrous & Non-ferrous Metal	Grain Size by Microscopic method	ASTM E 112: 2024
37.	Ferrous & Non-ferrous Metal	Inclusion Rating Method A, D	IS 4163: 2021
38.	Ferrous & Non-ferrous Metal	Inclusion Rating Method A, D	ASTM E45: 2018a (RA 2023)



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metal and Alloys		
1.	Carbon Steel & Low Alloy Steel	Carbon	ASTM E 415: 2021
2.	Carbon Steel & Low Alloy Steel	Manganese	ASTM E 415: 2021
3.	Carbon Steel & Low Alloy Steel	Silicon	ASTM E 415: 2021
4.	Carbon Steel & Low Alloy Steel	Sulphur	ASTM E 415: 2021
5.	Carbon Steel & Low Alloy Steel	Phosphorus	ASTM E 415: 2021
6.	Carbon Steel & Low Alloy Steel	Chromium	ASTM E 415: 2021
7.	Carbon Steel & Low Alloy Steel	Molybdenum	ASTM E 415: 2021
8.	Carbon Steel & Low Alloy Steel	Nickel	ASTM E 415: 2021
9.	Carbon Steel & Low Alloy Steel	Copper	ASTM E 415: 2021
10.	Carbon Steel & Low Alloy Steel	Aluminium (Al)	ASTM E 415: 2021
11.	Carbon Steel & Low Alloy Steel	Vanadium	ASTM E 415: 2021
12.	Carbon Steel & Low Alloy Steel	Carbon	IS 8811: 1998
13.	Carbon Steel & Low Alloy Steel	Manganese	IS 8811: 1998
14.	Carbon Steel & Low Alloy Steel	Silicon	IS 8811: 1998
15.	Carbon Steel & Low Alloy Steel	Sulphur	IS 8811: 1998

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www.qai.org.in



4 of 7

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metal and Alloys		
16.	Carbon Steel & Low Alloy Steel	Phosphorus	IS 8811: 1998
17.	Carbon Steel & Low Alloy Steel	Chromium	IS 8811: 1998
18.	Carbon Steel & Low Alloy Steel	Molybdenum	IS 8811: 1998
19.	Carbon Steel & Low Alloy Steel	Nickel	IS 8811: 1998
20.	Carbon Steel & Low Alloy Steel	Copper	IS 8811: 1998
21.	Carbon Steel & Low Alloy Steel	Aluminium (Al)	IS 8811: 1998
22.	Carbon Steel & Low Alloy Steel	Vanadium	IS 8811: 1998
23.	Stainless Steel	Carbon	ASTM E 1086: 2022
24.	Stainless Steel	Manganese	ASTM E 1086: 2022
25.	Stainless Steel	Silicon	ASTM E 1086: 2022
26.	Stainless Steel	Sulphur	ASTM E 1086: 2022
27.	Stainless Steel	Phosphorus	ASTM E 1086: 2022
28.	Stainless Steel	Chromium	ASTM E 1086: 2022
29.	Stainless Steel	Molybdenum	ASTM E 1086: 2022
30.	Stainless Steel	Nickel	ASTM E 1086: 2022

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5 of 7

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metal and Alloys		
31.	Stainless Steel	Copper	ASTM E 1086: 2022
32.	Stainless Steel	Carbon	IS 9879 : 1998
33.	Stainless Steel	Manganese	IS 9879 : 1998
34.	Stainless Steel	Silicon	IS 9879 : 1998
35.	Stainless Steel	Sulphur	IS 9879: 1998
36.	Stainless Steel	Phosphorous	IS 9879: 1998
37.	Stainless Steel	Chromium	IS 9879: 1998
38.	Stainless Steel	Molybdenum	IS 9879: 1998
39.	Stainless Steel	Nickel	IS 9879: 1998
40.	Stainless Steel	Copper	IS 9879: 1998
41.	Stainless Steel	Carbon	JIS G 1253: 2002
42.	Stainless Steel	Manganese	JIS G 1253: 2002
43.	Stainless Steel	Silicon	JIS G 1253: 2002
44.	Stainless Steel	Sulphur	JIS G 1253: 2002
45.	Stainless Steel	Phosphorus	JIS G 1253: 2002

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6 of 7

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metal and Alloys		
46.	Stainless Steel	Chromium	JIS G 1253: 2002
47.	Stainless Steel	Molybdenum	JIS G 1253: 2002
48.	Stainless Steel	Nickel	JIS G 1253: 2002
49.	Stainless Steel	Copper	JIS G 1253: 2002
50.	Stainless Steel	Cobalt	JIS G 1253: 2002

***Note:**

Scope Extension 1:

Following scope of accreditation is extended w.e.f. **23 July 2026:**

Chemical Testing-

- Metal and Alloys (S. No. 1 to 50; Page No.-4 to 7)

