



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

BHARAT FORGE LIMITED - METALLURGICAL LAB, PUNE CANTONMENT
BOARD, MUNDHWA, PUNE, MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-12944

Page No

1 of 4

Validity

16/01/2026 to 15/01/2030

Last Amended on 23/01/2026

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Testing				
1	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	% Elongation	JIS Z2241
2	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	% Reduction in Area	ASTM E8/8M
3	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	% Elongation	ASTM E8/8M
4	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	% Elongation	IS-1608 Part 1
5	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	% Elongation	ISO 6892 Part 1
6	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	% Reduction in Area	IS-1608 Part 1
7	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	% Reduction in Area	ISO 6892 Part 1
8	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	% Reduction in Area	JIS Z2241
9	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	0.2% Yield Strength	ASTM E8/8M
10	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	0.2% Yield Strength	IS-1608 Part 1
11	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	0.2% Yield Strength	ISO 6892 PART 1
12	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	0.2% Yield Strength	JIS Z2241
13	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	Bend Testing of Material for Ductility	ASTM E290
14	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	Bend Testing of Material for Ductility	IS 1599



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2 of 4

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15	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	Brinell Hardness Test (HBW) (10mm/3000Kgf)	ASTM E10
16	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	Brinell Hardness Test (HBW) (10mm/3000Kgf)	IS 1500 Part 1
17	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	Brinell Hardness Test (HBW) (10mm/3000Kgf)	ISO 6506 Part 1
18	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	Micro Vickers Hardness Test @ HV1.0 Kgf	ASTM E384
19	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	Micro Vickers Hardness Test @ HV1.0 Kgf	ISO 6507 Part 1
20	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	Rockwell Hardness test (HRA)	ASTM E18
21	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	Rockwell Hardness test (HRA)	IS 1586 Part 1
22	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	Rockwell Hardness test (HRA)	ISO 6508-PART 1
23	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	Rockwell Hardness test (HRBW)	ASTM E18
24	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	Rockwell Hardness test (HRBW)	IS 1586 Part 1
25	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	Rockwell Hardness test (HRBW)	ISO 6508 Part 1
26	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	Rockwell Hardness test (HRC)	ASTM E18
27	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	Rockwell Hardness test (HRC)	IS 1586 Part 1
28	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	Rockwell Hardness test (HRC)	ISO 6508 Part 1



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3 of 4

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29	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	Tensile Strength	ASTM E8/8M
30	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	Tensile Strength	IS-1608 Part 1
31	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	Tensile Strength	ISO 6892 Part 1
32	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	Tensile Strength	JIS Z2241
33	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Izod Impact test (Room temperature)	BS131 Part 1
34	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Izod Impact test (Room temperature)	IS 1598
35	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	V & U notch Charpy Impact Test (Room Temperature to -196 deg C)	ASTM E23
36	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	V & U notch Charpy Impact Test (Room Temperature to -196 deg C)	ISO 148-Part 1
37	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	V & U notch Charpy Impact Test (Room Temperature to -196 deg C)	JIS Z 2242
38	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metals, alloys & product	% Elongation	ASTM A370
39	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metals, alloys & product	% Reduction in Area	ASTM A370
40	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metals, alloys & product	0.2% Yield Strength	ASTM A370
41	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous metals, alloys & product	Tensile Strength	ASTM A370
42	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non-Ferrous metals, alloys & product	Microstructure Examination	ASM Hand Book Vol.9
43	MECHANICAL-METALLOGRAPHY TEST	Metallic materials	Estimation of Grain Size By Comparison method Untwined Grains (0-10 Grain Size)	ASTM E 112



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44	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Estimation of Grain Size By Comparison method Untwined Grains (0-10 Grain Size)	ISO 643
45	MECHANICAL-METALLOGRAPHY TEST	Steel	Depth of Decarburized Layer by Hardness traverse method	SAE J 419
46	MECHANICAL-METALLOGRAPHY TEST	Steel	Depth of Decarburized Layer by Micro indentation hardness method	ASTM E1077
47	MECHANICAL-METALLOGRAPHY TEST	Steel	Depth of Decarburized Layer by Microscopic method	ASTM E1077
48	MECHANICAL-METALLOGRAPHY TEST	Steel	Determination of inclusion rating (Comparison Method)	IS 4163
49	MECHANICAL-METALLOGRAPHY TEST	Steel	Determination of inclusion rating (Comparison Method)	ISO 4967
50	MECHANICAL-METALLOGRAPHY TEST	Steel	Determination of inclusion rating (Method A)	ASTM E 45
51	MECHANICAL-METALLOGRAPHY TEST	Steel	Effective Case Depth measurement by micro hardness method	DIN EN 10328
52	MECHANICAL-METALLOGRAPHY TEST	Steel	Effective Case Depth measurement by micro hardness method	IS 6416
53	MECHANICAL-METALLOGRAPHY TEST	Steel	Macro Etch Test	ASTM E381