



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	BHARAT FORGE LIMITED - METALLURGICAL LAB, PUNE CONTONMENT BOARD, MUNDHWA, PUNE, MAHARASHTRA, INDIA	Page No	1 of 4
Accreditation Standard	ISO/IEC 17025:2017	Last Amended on	-
Certificate Number	TC-12944		
Validity	16/01/2024 to 15/01/2026		

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 Facility				
1	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	% Elongation	ASTM A370
2	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	% Elongation	JIS Z2241
3	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	% Reduction in Area	ASTM E8/8M
4	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	% Elongation	ASTM E8/8M
5	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	% Elongation	IS-1608 Part 1
6	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	% Elongation	ISO 6892 PART 1
7	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	% Reduction in Area	ASTM A370:
8	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	% Reduction in Area	IS-1608 Part 1:
9	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	% Reduction in Area	ISO 6892 PART 1
10	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	% Reduction in Area	JIS Z2241
11	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	0.2% Yield Strength	ASTM A370
12	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	0.2% Yield Strength	ASTM E8/8M
13	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	0.2% Yield Strength	IS-1608 Part 1



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14	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	0.2% Yield Strength	ISO 6892 PART 1
15	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	0.2% Yield Strength	JIS Z2241
16	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	Bend Testing of Material for Ductility	ASTM E290
17	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	Bend Testing of Material for Ductility	IS1599
18	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	Brinell Hardness Test (HBW) (10mm/3000Kgf)	ASTM E10
19	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	Brinell Hardness Test (HBW) (10mm/3000Kgf)	IS 1500 Part 1
20	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	Brinell Hardness Test (HBW) (10mm/3000Kgf)	ISO-6506-Part:1
21	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	Micro Vickers Hardness Test @ HV1.0 Kgf	ASTM E384
22	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	Micro Vickers Hardness Test @ HV1.0 Kgf	ISO-6507 Part 1
23	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	Rockwell Hardness test (HRA)	ASTM E18
24	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	Rockwell Hardness test (HRA)	IS 1586 Part 1
25	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	Rockwell Hardness test (HRA)	ISO 6508-PART 1
26	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	Rockwell Hardness test (HRBW)	ASTM E18
27	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	Rockwell Hardness test (HRBW)	IS 1586 Part 1



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28	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	Rockwell Hardness test (HRBW)	ISO 6508 Part 1
29	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	Rockwell Hardness test (HRC)	ASTM E18
30	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	Rockwell Hardness test (HRC)	IS 1586 Part 1
31	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	Rockwell Hardness test (HRC)	ISO 6508 Part 1
32	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	Tensile Strength	ASTM A370
33	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	Tensile Strength	ASTM E8/8M
34	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	Tensile Strength	IS-1608 Part 1
35	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	Tensile Strength	ISO 6892 PART 1
36	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous metals, alloys & product	Tensile Strength	JIS Z2241
37	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Izod Impact test (Room temperature)	BS131 Part 1:
38	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Izod Impact test (Room temperature)	IS 1598: 1977 RA : 2015
39	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	U Notch Charpy Impact Test (Room to -196 deg C)	IS-1499
40	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	V & U notch Charpy Impact Test (Room Temperature to -196 deg C)	ASTM E23
41	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



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42	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	V & U notch Charpy Impact Test (Room Temperature to -196 deg C)	JIS Z 2242
43	MECHANICAL- METALLOGRAPHY TEST	Ferrous & Non-Ferrous metals, alloys & product	Microstructure Examination	ASM Hand Book Vol.9
44	MECHANICAL- METALLOGRAPHY TEST	Ferrous materials, alloys & products	Depth of Decarburized Layer by Hardness traverse method	SAE J 419:
45	MECHANICAL- METALLOGRAPHY TEST	Ferrous materials, alloys & products	Depth of Decarburized Layer by Micro indentation hardness method	ASTM E1077
46	MECHANICAL- METALLOGRAPHY TEST	Ferrous materials, alloys & products	Depth of Decarburized Layer by Microscopic method	ASTM E1077
47	MECHANICAL- METALLOGRAPHY TEST	Ferrous materials, alloys & products	Determination of inclusion rating (Comparison Method)	IS 4163
48	MECHANICAL- METALLOGRAPHY TEST	Ferrous materials, alloys & products	Determination of inclusion rating (Comparison Method)	ISO 4967
49	MECHANICAL- METALLOGRAPHY TEST	Ferrous materials, alloys & products	Determination of inclusion rating (Method A)	ASTM E 45
50	MECHANICAL- METALLOGRAPHY TEST	Ferrous materials, alloys & products	Effective Case Depth measurement by micro hardness method	DIN EN 10328
51	MECHANICAL- METALLOGRAPHY TEST	Ferrous materials, alloys & products	Effective Case Depth measurement by micro hardness method	IS 6416
52	MECHANICAL- METALLOGRAPHY TEST	Ferrous materials, alloys & products	Estimation of Grain Size By Comparison method Untwined Grains	ASTM E 112
53	MECHANICAL- METALLOGRAPHY TEST	Ferrous materials, alloys & products	Estimation of Grain Size By Comparison method Untwined Grains	ISO 643
54	MECHANICAL- METALLOGRAPHY TEST	Ferrous materials, alloys & products	Macro Etch Test	ASTM E381