National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : METALLURGICAL LABORATORY, RAIL WHEEL FACTORY (INDIAN RAILWAYS), YELAHANKA, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8737 **Page No** 1 of 2

Validity 21/03/2023 to 20/03/2025 **Last Amended on** -

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	CHEMICAL- METALS & ALLOYS	Cast Railway Wheel & Axles (Low Alloy Steel)	Chromium	ASTM E-415
2	CHEMICAL- METALS & ALLOYS	Cast Railway Wheel & Axles (Low Alloy Steel)	Copper	ASTM E-415
3	CHEMICAL- METALS & ALLOYS	Cast Railway Wheel & Axles (Low Alloy Steel)	Manganese	ASTM E-415
4	CHEMICAL- METALS & ALLOYS	Cast Railway Wheel & Axles (Low Alloy Steel)	Molybdenum	ASTM E-415
5	CHEMICAL- METALS & ALLOYS	Cast Railway Wheel & Axles (Low Alloy Steel)	Nickel	ASTM E-415
6	CHEMICAL- METALS & ALLOYS	Cast Railway Wheel & Axles (Low Alloy Steel)	Phosphorous	ASTM E-415
7	CHEMICAL- METALS & ALLOYS	Cast Railway Wheel & Axles (Low Alloy Steel)	Vanadium	ASTM E-415
8	CHEMICAL- METALS & ALLOYS	Cast Railway Wheel and Axles (Low Alloy Steel)	Silicon	ASTM E-415
9	CHEMICAL- METALS & ALLOYS	Cast Railway Wheels & Axles (Low Alloy Steel)	Carbon	ASTM E-415
10	CHEMICAL- METALS & ALLOYS	Cast Railway Wheels and Axles (Low Alloy Steel)	Sulphur	ASTM E-415
11	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Cast Wheels / Forged Axles	Brinell hardness test - HBW 10/3000	IS 1500 Part I
12	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Cast Wheels / Forged Axles	Brinnel Hardness test - HBW 5/750	IS 1500 Part I
13	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Cast Wheels / Forged Axles	Rockwell Hardness test - HRBW	IS 1586 - Part 1
14	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Cast Wheels / Forged Axles	Rockwell Hardness test - HRC	IS 1586 - Part 1
15	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Tensile Test	Elongation	IS 1608-Part 1
16	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Tensile Test	Ultimate Tensile Strength	IS 1608 -Part 1

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17	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tensile Test	Yield Strength	IS 1608-Part 1
18	MECHANICAL-METALLOGRAPHY TEST	Cast Wheels / Forged Axles	Micro Structure examination	ASM Hand Book - Vol 9 - 2004 & IS 7739 Part 5