National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : CHEMICAL AND METALLURGICAL LABORATORY, NORTHERN RAILWAY CARRIAGE & WAGON WORKSHOP, JAGADHRI, YAMUNANAGAR, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8354 **Page No** 1 of 3

Validity 21/02/2022 to 20/02/2024 **Last Amended on** 08/04/2022

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	Copper & its alloys	Aluminium (Al)	BS EN 15079
2	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Iron (Fe)	BS EN 15079
3	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Lead (Pb)	BS EN 15079
4	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Manganese (Mn)	BS EN 15079
5	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Nickel (Ni)	BS EN 15079
6	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Silicon (Si)	BS EN 15079
7	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Tin (Sn)	BS EN 15079
8	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Zinc (Zn)	BS EN 15079
9	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (LAS)	Carbon (C)	IS 8811
10	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (LAS)	Chromium (Cr)	IS 8811
11	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (LAS)	Copper (Cu)	IS 8811
12	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (LAS)	Manganese (Mn)	IS 8811
13	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (LAS)	Molybdenum (Mo)	IS 8811
14	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (LAS)	Nickel (Ni)	IS 8811
15	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (LAS)	Phosphorus (P)	IS 8811
16	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (LAS)	Silicon (Si)	IS 8811
17	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (LAS)	Sulphur (S)	IS 8811
18	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (LAS)	Vanadium (V)	IS 8811

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19	CHEMICAL- METALS & ALLOYS	Stainless Steel (SS)	Carbon (C)	IS 9879
20	CHEMICAL- METALS & ALLOYS	Stainless Steel (SS)	Chromium (Cr)	IS 9879
21	CHEMICAL- METALS & ALLOYS	Stainless Steel (SS)	Copper (Cu)	IS 9879
22	CHEMICAL- METALS & ALLOYS	Stainless Steel (SS)	Manganese (Mn)	IS 9879
23	CHEMICAL- METALS & ALLOYS	Stainless Steel (SS)	Nickel (Ni)	IS 9879
24	CHEMICAL- METALS & ALLOYS	Stainless Steel (SS)	Phosphorus (P)	IS 9879
25	CHEMICAL- METALS & ALLOYS	Stainless Steel (SS)	Silicon (Si)	IS 9879
26	CHEMICAL- METALS & ALLOYS	Stainless Steel (SS)	Sulphur (S)	IS 9879
27	CHEMICAL- PAINTS & SURFACE COATING	Ready Mixed, PU Paint, Synthetic Enamel under Coating & Finishing, Priming Red Oxide Zinc Chrome, Aluminium Paint, Epoxy Paints	Color	IS 5:2007 RA
28	CHEMICAL- PAINTS & SURFACE COATING	Ready Mixed, PU Paint, Synthetic Enamel under Coating & Finishing, Priming Red Oxide Zinc Chrome, Aluminium Paint, Epoxy Paints	Consistency	IS 101 (Part 1, Section 5)
29	CHEMICAL- PAINTS & SURFACE COATING	Ready Mixed, PU Paint, Synthetic Enamel under Coating & Finishing, Priming Red Oxide Zinc Chrome, Aluminium Paint, Epoxy Paints	Dry Film Thickness (DFT)	IS 101 (Part 3, Section 2)
30	CHEMICAL- PAINTS & SURFACE COATING	Ready Mixed, PU Paint, Synthetic Enamel under Coating & Finishing, Priming Red Oxide Zinc Chrome, Aluminium Paint, Epoxy Paints	Finish	IS 101 (Part 3, Section 4)
31	CHEMICAL- PAINTS & SURFACE COATING	Ready Mixed, PU Paint, Synthetic Enamel under Coating & Finishing, Priming Red Oxide Zinc Chrome, Aluminium Paint, Epoxy Paints	Flash Point	IS 101 (Part 1, Section 6)
32	CHEMICAL- PAINTS & SURFACE COATING	Ready Mixed, PU Paint, Synthetic Enamel under Coating & Finishing, Priming Red Oxide Zinc Chrome, Aluminium Paint, Epoxy Paints	Flexibility & Adhesion	IS 101 (Part 5, Section 2)
33	CHEMICAL- PAINTS & SURFACE COATING	Ready Mixed, PU Paint, Synthetic Enamel under Coating & Finishing, Priming Red Oxide Zinc Chrome, Aluminium Paint, Epoxy Paints	Gloss Value	IS 101 (Part 4, Section 4)
34	CHEMICAL- PAINTS & SURFACE COATING	Ready Mixed, PU Paint, Synthetic Enamel under Coating & Finishing, Priming Red Oxide Zinc Chrome, Aluminium Paint, Epoxy Paints	Hard Dry	IS 101 (Part 3, Section 1)

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35	CHEMICAL- PAINTS & SURFACE COATING	Ready Mixed, PU Paint, Synthetic Enamel under Coating & Finishing, Priming Red Oxide Zinc Chrome, Aluminium Paint, Epoxy Paints	Mass Per 10 litres	IS 101 (Part 1, Section 7)
36	CHEMICAL- PAINTS & SURFACE COATING	Ready Mixed, PU Paint, Synthetic Enamel under Coating & Finishing, Priming Red Oxide Zinc Chrome, Aluminium Paint, Epoxy Paints	Surface Dry	IS 101 (Part 3, Section 1)
37	CHEMICAL- PAINTS & SURFACE COATING	Ready Mixed, PU Paint, Synthetic Enamel under Coating & Finishing, Priming Red Oxide Zinc Chrome, Aluminium Paint, Epoxy Paints	Tack Free	IS 101 (Part 3, Section 1)
38	CHEMICAL- PAINTS & SURFACE COATING	Ready Mixed, PU Paint, Synthetic Enamel under Coating & Finishing, Priming Red Oxide Zinc Chrome, Aluminium Paint, Epoxy Paints	Viscosity by Ford Cup	IS 101 (Part 1, Section 5)
39	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Material	Brinell Hardness	IS 1500 (Part 1)
40	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Material	Rockwell Hardness Test	IS 1586 (Part 1)
41	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Non-Metallic Material	Shore Hardness - D	ASTM D2240
42	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Synthetic Rubber, Rubber Profile, Excluder and Packing Ring	% Elongation at Break	IS 3400 (Part 1)
43	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Synthetic Rubber, Rubber Profile, Excluder and Packing Ring	Accelerated Ageing Change in Shore A Hardness	RCF/MDTS 30
44	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Synthetic Rubber, Rubber Profile, Excluder and Packing Ring	Accelerated Ageing in % Elongation at Break	RCF/MDTS 30
45	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Synthetic Rubber, Rubber Profile, Excluder and Packing Ring	Accelerated Ageing Test Change in Tensile Strength	RCF/MDTS 30
46	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Synthetic Rubber, Rubber Profile, Excluder and Packing Ring	Shore Hardness - A	ASTM D2240
47	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Synthetic Rubber, Rubber Profile, Excluder and Packing Ring	Tensile Strength	IS 3400 (Part 1)
48	NON-DESTRUCTIVE- METALS & ALLOYS	Ultrasonic Testing of Wheel Axle by Contact Technique	Ultrasonic Testing of Axle	As per RDSO Code of Procedures (COP)