National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : CHEMICAL AND METALLURGICAL LABORATORY, CENTRAL WORKSHOPS,SOUTHERN RAILWAY, GOLDEN ROCK, THIRUCHIRAPALLI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-11715 **Page No** 1 of 3

Validity 24/05/2023 to 23/05/2025 **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	Carbon Steel & Alloy Steel products	Carbon	IS:8811
2	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel products	Manganese	IS:8811
3	CHEMICAL- METALS & ALLOYS	Carbon steels and Alloy steel products	Silicon	IS:8811
4	CHEMICAL- METALS & ALLOYS	Carbon steels and Alloy steel products	Vanadium	IS:8811
5	CHEMICAL- METALS & ALLOYS	Carbon steels and Alloy steel products	Chromium	IS:8811
6	CHEMICAL- METALS & ALLOYS	Carbon steels and Alloy steel products	Copper	IS:8811
7	CHEMICAL- METALS & ALLOYS	Carbon steels and Alloy steel products	Molybdenum	IS:8811
8	CHEMICAL- METALS & ALLOYS	Carbon steels and Alloy steel products	Nickel	IS:8811
9	CHEMICAL- METALS & ALLOYS	Carbon steels and Alloy steel products	Phosphorus	IS:8811
10	CHEMICAL- METALS & ALLOYS	Carbon steels and Alloy steel products	Sulphur	IS:8811
11	CHEMICAL- METALS & ALLOYS	Copper & its alloys products	Iron	BS EN 15079
12	CHEMICAL- METALS & ALLOYS	Copper & its alloys products	Lead	BS EN 15079
13	CHEMICAL- METALS & ALLOYS	Copper & its alloys products	Nickel	BS EN 15079
14	CHEMICAL- METALS & ALLOYS	Copper & its alloys products	Tin	BS EN 15079
15	CHEMICAL- METALS & ALLOYS	Copper & its alloys products	Zinc	BS EN 15079
16	CHEMICAL- METALS & ALLOYS	Stainless steel products	Carbon	IS:9879
17	CHEMICAL- METALS & ALLOYS	Stainless steel products	Chromium	IS:9879
18	CHEMICAL- METALS & ALLOYS	Stainless steel products	Copper	IS:9879

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19	CHEMICAL- METALS & ALLOYS	Stainless steel products	Manganese	IS:9879
20	CHEMICAL- METALS & ALLOYS	Stainless steel products	Molybdenum	IS:9879
21	CHEMICAL- METALS & ALLOYS	Stainless steel products	Nickel	IS:9879
22	CHEMICAL- METALS & ALLOYS	Stainless steel products	Phosphorus	IS:9879
23	CHEMICAL- METALS & ALLOYS	Stainless steel products	Silicon	IS:9879
24	CHEMICAL- METALS & ALLOYS	Stainless steel products	Sulphur	IS:9879
25	CHEMICAL- PAINTS & SURFACE COATING	Paint & Surface Coating	Drying Time (b) Hard Dry	IS101(Part3/Sec1)
26	CHEMICAL- PAINTS & SURFACE COATING	Paint & Surface Coating	Drying Time (c) Hard Dry @ 70°C	IS101(Part3/Sec1)
27	CHEMICAL- PAINTS & SURFACE COATING	Paints & enamels	Scratch Hardness	IS101(Part 5/Sec2)
28	CHEMICAL- PAINTS & SURFACE COATING	Paints & surface coating	Finish	IS101(Part 3/Sec4)
29	CHEMICAL- PAINTS & SURFACE COATING	Paints & Surface Coatings	Drying Time (a) Surface Dry	IS101(Part3/Sec1)
30	CHEMICAL- PAINTS & SURFACE COATING	Paints & Surface Coatings	Gloss Value 60°	IS 101(Part 4/Sec 4)
31	CHEMICAL- PAINTS & SURFACE COATING	Paints & Surface Coatings	Mass in Kg/10Ltr	IS101(Part1/Sec7)
32	CHEMICAL- PAINTS & SURFACE COATING	Paints & Surface Coatings	Resistance to 5% H2SO4	ICF/M/D/Spec 045, Annexure A
33	CHEMICAL- PAINTS & SURFACE COATING	Paints & Surface Coatings	Resistance to 5% Na2CO3	ICF/M/D/Spec 045, Annexure B
34	CHEMICAL- PAINTS & SURFACE COATING	Paints & Surface Coatings	Wet Opacity	IS101(Part 4/Sec1)
35	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous material, alloys & products	Rockwell Hardness (HRBW)	IS:1586 (Part 1)
36	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Brinell Hardness (HBW10/3000)	IS 1500 (Part 1)

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37	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Hardness (HRC)	IS:1586 (Part 1)
38	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Strength	IS 1608 part1
39	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness(HV30)	IS 1501 (Part 1)
40	NON-DESTRUCTIVE-METALS & ALLOYS	Penetrant Testing Facility- Roller Bearings of coaches & Diesel Locos	Fluorescent, water washable Liquid Penetrant Test	IS 3658
41	NON-DESTRUCTIVE-METALS & ALLOYS	Ultrasonic Testing Facility- ICF 16.25Ton Carriage Axle	Detection of internal Flaws/defects	MC-34/Revised on May 2017
42	NON-DESTRUCTIVE-METALS & ALLOYS	Ultrasonic Testing Facility- ICF carriage Axles	Detection of internal Flaws/defects	K-405/Jan1993 –Para 3.2.4 reworded on 01.09.2016
43	NON-DESTRUCTIVE-METALS & ALLOYS	Ultrasonic Testing Facility- LHB coach(Assile) Axle	Detection of internal Flaws/defects	MC-85 July 2017
44	NON-DESTRUCTIVE-METALS & ALLOYS	Ultrasonic Testing Facility- WDG4 / WDP4 Diesel Loco Axle	Detection of internal Flaws/defects	MC-71/2004 Revised on Sep 2018
45	NON-DESTRUCTIVE-METALS & ALLOYS	Ultrasonic Testing Facility- WDM2 Diesel Locomotive Axles	Detection of internal Flaws/defects	K-118/1975 Reprint June 1984
46	NON-DESTRUCTIVE-METALS & ALLOYS	Ultrasonic Testing Facility- WDP3A Diesel Loco Axle	Detection of internal Flaws/defects	MC-90 Sep 2005
47	NON-DESTRUCTIVE-METALS & ALLOYS	Ultrasonic Testing Facility-WDG3A Diesel Loco Axle	Detection of internal Flaws/defects	MC-91