National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : CHEMICAL & METALLURGICAL LABORATORY, MECHANICAL WORKSHOP, N.E. RAILWAY, IZATNAGAR, BAREILLY, UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-10300 **Page No** 1 of 3

Validity 04/02/2022 to 03/02/2024 **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	Plain Carbon Steel Low Alloy Steel	Carbon (C)	IS 8811
2	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel Low Alloy Steel	Chromium (Cr)	IS 8811
3	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel Low Alloy Steel	Copper(Cu)	IS 8811
4	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel Low Alloy Steel	Manganese (Mn)	IS 8811
5	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel Low Alloy Steel	Molibdenum (Mo)	IS 8811
6	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel Low Alloy Steel	Nickel (Ni)	IS 8811
7	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel Low Alloy Steel	Phosphorous (P)	IS 8811
8	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel Low Alloy Steel	Silicon (Si)	IS 8811
9	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel Low Alloy Steel	Sulphur (S)	IS 8811
10	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel Low Alloy Steel	Vanadium (V)	IS 8811
11	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel, Low Alloy Steel, Structural Steel	Carbon (C)	IS:228 (Part 1)
12	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel, Low Alloy Steel, Structural Steel	Chromium (Cr)	IS:228 (Part 6)
13	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel, Low Alloy Steel, Structural Steel	Manganese (Mn)	IS:228 (Part 2)
14	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel, Low Alloy Steel, Structural Steel	Nickel (Ni)	IS:228(Part 5)
15	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel, Low Alloy Steel, Structural Steel	Phosphorous (P)	IS:228 (Part 3)
16	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel, Low Alloy Steel, Structural Steel	Silicon (Si)	IS:228 (Part 8)
17	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel, Low Alloy Steel, Structural Steel	Sulphur (S)	IS:228 (Part 9)
18	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	IS 9879

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Accreditation Standard ISO/IEC 17025:2017

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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
19	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium (Cr)	IS 9879
20	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper(Cu)	IS 9879
21	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese (Mn)	IS 9879
22	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum(Mo)	IS 9879
23	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel (Ni)	IS 9879
24	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorous (P)	IS 9879
25	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon (Si)	IS 9879
26	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur (S)	IS 9879
27	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material	% Elongation	IS:1608 (Part 1)
28	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material	Bend Test	IS 1599
29	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material	Brinell Hardness Test (3000Kgf, 10mm ball)	IS 1500: Part 1
30	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material	Ultimate Tensile Strength	IS:1608 (Part 1)
31	NON-DESTRUCTIVE-METALS & ALLOYS	Solid Forged Axles for Steel	Ultra Sonic Testing for detection of internal flaws	ASTM - A388
32	NON-DESTRUCTIVE-METALS & ALLOYS	Solid Forged Axles for Steel	Ultra Sonic Testing for detection of internal flaws	Relevant Code Of Procedure (COP) issued by Railway Regulatory Board – RDSO/ Lucknow MC-34 & MC-15
33	NON-DESTRUCTIVE-METALS & ALLOYS	Welded Joints and Other Non Welded Components	Penetrant Testing Solvent Removable (Visible)	IS: 3658: 1999

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Accreditation Standard	ISO/IEC 17025:2017		
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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
Site Facility				
1	NON-DESTRUCTIVE-METALS & ALLOYS	Solid Forged Axles for Steel	Ultra Sonic Testing for detection of internal flaws	ASTM - A388
2	NON-DESTRUCTIVE-METALS & ALLOYS	Solid Forged Axles for Steel	Ultra Sonic Testing for detection of internal flaws	Relevant Code Of Procedure (COP) issued by Railway Regulatory Board – RDSO/ Lucknow MC-34 & MC-15
3	NON-DESTRUCTIVE-METALS & ALLOYS	Welded Joints and Other Non Welded Components	Penetrant Testing Solvent Removable (Visible)	IS: 3658: 1999