National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : CHEMICAL & METALLURGICAL LABORATORY, NORTHERN RAILWAY, MECHANICAL WORKSHOP, G. T. ROAD, PUTLIGHAR, AMRITSAR, PUNJAB, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-10088 **Page No** 1 of 2

Validity 16/11/2021 to 15/11/2023 **Last Amended on** 21/12/2021

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	Alloy Steel	Carbon	IS 228 (Part 1)
2	CHEMICAL- METALS & ALLOYS	Alloy Steel	Chromium	IS 228 (Part 6)
3	CHEMICAL- METALS & ALLOYS	Alloy Steel	Manganese	IS 228 (Part 2)
4	CHEMICAL- METALS & ALLOYS	Alloy Steel	Nickel	IS 228 (Part 5)
5	CHEMICAL- METALS & ALLOYS	Alloy Steel	Phosphorus	IS 228 (Part 3)
6	CHEMICAL- METALS & ALLOYS	Alloy Steel	Silicon	IS 228 (Part 8)
7	CHEMICAL- METALS & ALLOYS	Alloy Steel	Sulphur	IS 228 (Part 9)
8	CHEMICAL- METALS & ALLOYS	Carbon Steel	Carbon	IS 228 (Part 1)
9	CHEMICAL- METALS & ALLOYS	Carbon Steel	Manganese	IS 228 (Part 2)
10	CHEMICAL- METALS & ALLOYS	Carbon Steel	Phosphorus	IS 228 (Part 3)
11	CHEMICAL- METALS & ALLOYS	Carbon Steel	Silicon	IS 228 (Part 8)
12	CHEMICAL- METALS & ALLOYS	Carbon Steel	Sulphur	IS 228 (Part 9)
13	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	IS 228 (Part 1)
14	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	IS 228 (Part 6)
15	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	IS 228 (Part 2)
16	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	IS 228 (Part 5)
17	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	IS 228 (Part 3)
18	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	IS 228 (Part 8)

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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	Sulphur	IS 228 (Part 9)
20	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Yield Strength	IS 1608 (Part 1)
21	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Brinell Hardness (HBW) (10/3000)	IS 1500 (Part 1)
22	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Brinell Hardness (HBW) (5/750)	IS 1500 (Part 1)
23	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Elongation	IS 1608 (Part 1)
24	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Hardness Rockwell B Scale (HRB)	IS 1586 (Part 1)
25	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Hardness Rockwell C Scale (HRC)	IS 1586 (Part 1)
26	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	UTS	IS 1608 (Part 1)
27	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vicker hardness (HV)	IS 1501 (Part 1)
28	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous and Non-Ferrous Metals & Alloys	Penetrant Testing (Water Washable, and Solvent Removable, Visible and Fluorescent Techniques)	IS 3658, RDSO/M&C/105
29	NON-DESTRUCTIVE-METALS & ALLOYS	ICF Axles, BOXN and Different Type of Loco and Electric Axles	Ultrasonic Testing (Far End Scanning Near-End low Angle Scan)	MC 42, MC 2, MC 7, MC 13, MC 12, MC 15, MC 34, MC 91, K 143, K 211, K 405, K 162, K 237
30	NON-DESTRUCTIVE-METALS & ALLOYS	Steel Plates/ Boogie & Welder Test Piece & Rail Other Components	Radiography Testing (X-Ray)	IS 2595