National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : CHEMICAL & METALLURGICAL LABORATORY, MECHANICAL WORKSHOP, GORAKHPUR, UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8509 **Page No** 1 of 2

Validity 23/11/2021 to 22/11/2023 **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 & low alloy steel	Carbon	IS 228 Part 1 : 1987
2	CHEMICAL- METALS & ALLOYS	Plain Carbon & low alloy steel	Chromium	IS 228 Part 6 : 1987
3	CHEMICAL- METALS & ALLOYS	Plain Carbon & low alloy steel	Copper	IS 228 Part 15 : 1992
4	CHEMICAL- METALS & ALLOYS	Plain Carbon & low alloy steel	Manganese	IS 228 Part 2 : 1987
5	CHEMICAL- METALS & ALLOYS	Plain carbon & low alloy steel	Nickel	IS 228 Part 5 : 1987
6	CHEMICAL- METALS & ALLOYS	Plain Carbon & low alloy steel	Phosphorous	IS 228 Part 3 : 1987
7	CHEMICAL- METALS & ALLOYS	Plain Carbon & low alloy steel	Silicon	IS 228 Part 8 : 1989
8	CHEMICAL- METALS & ALLOYS	Plain Carbon & low alloy steel	Sulphur	IS 228 Part 9 : 1989
9	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	IS 228 Part 6 : 1987
10	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	IS 228 Part 8 : 1987
11	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous, metals & alloy	Bolt Head Soundness	IS 1367 Part 3
12	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous, metals & alloy	Twist test of Spring and washer	IS 3063:1994
13	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous, non ferrous, metals & alloy	Flattening test	IS 2328
14	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous, non ferrous, metals & alloy	Rockwell hardness test	IS 1586 Part 1
15	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous, non ferrous, metals & alloy	Vicker hardness test	IS 1501 Part 1
16	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous, non ferrous, metals & alloy	% Elongation	IS 1608 Part 1

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17	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous, non ferrous, metals & alloy	% Reduction in area	IS 1608 Part 1
18	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous, non ferrous, metals & alloy	Bend test	IS 1599 : 2012
19	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous, non ferrous, metals & alloy	Brinell hardness test	IS 1500 Part 1
20	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous, non ferrous, metals & alloy	Rockwell hardness test	IS 1586 Part 1
21	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous, non ferrous, metals & alloy	Tensile strength	IS 1608 Part 1
22	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous, non ferrous, metals & alloy	Vicker hardness test	IS 1501 Part 1
23	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous, non ferrous, metals & alloy	Vicker hardness test	IS 1501 Part 1
24	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous, non ferrous, metals & alloy	Yield strength	IS 1608 Part 1
25	MECHANICAL-METALLOGRAPHY TEST	Ferrous, metals & alloy	Macro Etch Test	IS 11371
26	MECHANICAL-METALLOGRAPHY TEST	Ferrous, non ferrous, metals & alloy	Depth of Decarburization	IS 6396
27	MECHANICAL-METALLOGRAPHY TEST	Ferrous, non ferrous, metals & alloy	Grain size determination by comparison method	IS 4748
28	MECHANICAL-METALLOGRAPHY TEST	Ferrous, non ferrous, metals & alloy	Micro structure	ASM handbook volume 9
29	MECHANICAL-METALLOGRAPHY TEST	Ferrous, non ferrous, metals & alloy	Non metallic Inclusion Rating single type DS	IS 4163
30	MECHANICAL-METALLOGRAPHY TEST	Ferrous, non ferrous, metals & alloy	Non metallic Inclusion Rating Thick series A, B, C & D	IS 4163
31	NON-DESTRUCTIVE-METALS & ALLOYS	Forge Carriage & locomotive axle	Ultrasonic Testing (Contact method)	SOP NO. QS/ 52F :
32	NON-DESTRUCTIVE-METALS & ALLOYS	Rim of cast & wheel forged wheel disc	Ultrasonic testing (Contact method)	ASTM E 114: