National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : QUALITY CONTROL LABORATORY, ORDNANCE FACTORY KANPUR, ORDNANCE FACTORY, KALPI ROAD, KANPUR, UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6606 **Page No** 1 of 4

Validity 13/07/2022 to 12/07/2024 **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	Carbon Steel (Through Wet Analysis)	Molybdenum	IS 228 PART 7
2	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Chromium	ASTM E 1251
3	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Copper	ASTM E 1251
4	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Iron	ASTM E 1251
5	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Lead	ASTM E 1251
6	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Magnesium	ASTM E 1251
7	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Manganese	ASTM E 1251
8	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Nickel	ASTM E 1251
9	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Silicon	ASTM E 1251
10	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zinc	ASTM E 1251
11	CHEMICAL- METALS & ALLOYS	Carbon Steel	Carbon	ASTM E415
12	CHEMICAL- METALS & ALLOYS	Carbon Steel	Chromium	ASTM E415
13	CHEMICAL- METALS & ALLOYS	Carbon Steel	Manganese	ASTM E415
14	CHEMICAL- METALS & ALLOYS	Carbon Steel	Molybdenum	ASTM E415
15	CHEMICAL- METALS & ALLOYS	Carbon Steel	Nickel	ASTM E415
16	CHEMICAL- METALS & ALLOYS	Carbon Steel	Phosphorus	ASTM E415
17	CHEMICAL- METALS & ALLOYS	Carbon Steel	Silicon	ASTM E415
18	CHEMICAL- METALS & ALLOYS	Carbon Steel	Sulphur	ASTM E 415

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Validity 13/07/2022 to 12/07/2024 **Last Amended on** -

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19	CHEMICAL- METALS & ALLOYS	Carbon Steel (Through Wet Analysis)	Carbon	IS 228 PART 1
20	CHEMICAL- METALS & ALLOYS	Carbon Steel (Through Wet Analysis)	Chromium	IS 228 PART 6
21	CHEMICAL- METALS & ALLOYS	Carbon Steel (Through Wet Analysis)	Manganese	IS 228 PART 2
22	CHEMICAL- METALS & ALLOYS	Carbon Steel (Through Wet Analysis)	Nickel	IS 228 PART 5
23	CHEMICAL- METALS & ALLOYS	Carbon Steel (Through Wet Analysis)	Phosphorus	IS 228 PART 3
24	CHEMICAL- METALS & ALLOYS	Carbon Steel (Through Wet Analysis)	Silicon	IS 228 PART 8
25	CHEMICAL- METALS & ALLOYS	Carbon Steel (Through Wet Analysis)	Sulphur	IS 228 PART 9
26	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Arsenic	BS EN 15079
27	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Chromium	BS EN 15079
28	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Iron	BS EN 15079
29	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Lead	BS EN 15079
30	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Manganese	BS EN 15079
31	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Nickel	BS EN 15079
32	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Phosphorus	BS EN 15079
33	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Silicon	BS EN 15079
34	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Tin	BS EN 15079
35	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Zinc	BS EN 15079
36	CHEMICAL- METALS & ALLOYS	Copper & its alloys (Through Wet Analysis)	Copper	IS 4027 PART 1
37	CHEMICAL- METALS & ALLOYS	Copper & its alloys (Through Wet Analysis)	Lead	IS 4027 PART 1

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38	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	ASTM E-1086
39	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	ASTM E-1086
40	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	ASTM E-1086
41	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	ASTM E-1086
42	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	ASTM E-1086
43	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	ASTM E-1086
44	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	ASTM E-1086
45	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	ASTM E-1086
46	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	ASTM E-1086
47	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Products	%Elongation	IS 1608
48	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Products	%Reduction of Area	IS 1608
49	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Products	0.2% Proof Stress	IS 1608
50	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Products	Charpy Impact Test (U Notch)	IS 1499
51	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Products	Charpy Impact Test (V Notch)	IS 1757
52	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Products	IZOD Impact Test	IS 1598 (at Room Temperature)
53	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Products	Tensile test Tensile Strength	IS 1608

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54	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Products	Vickers Hardness Test (HV 10)	IS 1501
55	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Products	Vickers Hardness Test (HV 30)	IS 1501
56	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Products	Vickers Hardness Test (HV 5)	IS 1501
57	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Products	Yield stress	IS 1608
58	MECHANICAL-METALLOGRAPHY TEST	Aluminium and its alloy products	MACRO ETCH	IS 12573
59	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non-Ferrous Products	MICROSTRUCTURE	ASM HANDBOOK (VOL 9 EDITION :2004)
60	MECHANICAL-METALLOGRAPHY TEST	Steel Products	AVERAGE GRAIN SIZE	IS 4748
61	MECHANICAL-METALLOGRAPHY TEST	Steel products	Case depth of Induction Hardened Components (Microscopic Method)	IS 6416
62	MECHANICAL-METALLOGRAPHY TEST	Steel Products	Case depth of Nitrided Test piece (Microscopic Method)	IS 6416
63	MECHANICAL-METALLOGRAPHY TEST	Steel Products	Macro Etch Test	IS 13015
64	MECHANICAL-METALLOGRAPHY TEST	Steel Products	NON METALLIC INCLUSION CONTENT	IS 4163
65	MECHANICAL- TEXTILE MATERIALS	PROTECTIVE CLOTHING	Resistance of prorective clothing material to penetration by blood and body fluids from class 1 to class 6 as per ISO 16603:2004 Procedure C & D	ISO 16603
66	MECHANICAL- TEXTILE MATERIALS	Protective Clothing	Resistance of prorective clothing materials to penetration by blood and body fluids Procedure A & B as per ASTM F 1670-17.	Procedure A & B as per ASTM F 1670