National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : UNIVERSAL PRECISION SCREWS, TESTING LAB, NH-10, DELHI ROAD, KHARAWAR BY-PASS, ROHTAK, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5617 **Page No** 1 of 3

Validity 24/06/2022 to 23/06/2024 **Last Amended on** 11/11/2022

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- CORROSION TESTS	Ferrous and Non Ferrous Material	salt spray test	ASTM B117
2	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fasteners - Carbon Steel & Alloys	Torque/Clamp force tests	ISO 16047
3	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fasteners Carbon Steels & Alloys	Proof Load (Bolt)	ISO-898-1
4	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fasteners Carbon Steels & Alloys	Proof Load (Nut)	ISO-898-2
5	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fasteners Carbon Steels & Alloys	Tensile Strength	ISO-898-1
6	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fasteners Carbon Steels & Alloys	Tensile Strength under wedge	ISO-898-1
7	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fasteners Steels and Alloys	Residual Embrittlement(HE) Test	ASTM B839
8	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Micro Vickers Hardness	ASTM E384
9	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	% Elongation	ISO-6892-1
10	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	%Reduction Area	ISO-6892-1
11	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	0.2% Proof Stress, Yield Strength	ISO-6892-1
12	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Charpy Impact Test (V-Notch) (Ambient to -20 degree C)	ISO-148-1
13	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Micro Vickers Hardness	ASTM E384

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14	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness on A Scale	ASTM E18
15	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness on B Scale	ASTM E18
16	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness on C Scale	ASTM E-18
17	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile strength	ISO-6892-1
18	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness HV10	ISO-6507-1
19	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness HV30	ISO-6507-1
20	MECHANICAL-METALLOGRAPHY TEST	Bolt, Screw and Stud (Fasteners)	Thread Laps	ISO 6157-3
21	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non Ferrous Material	Average Grain Size by intercept method	ASTM E-112
22	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non Ferrous Material	Coating thickness (Microscopic Method)	ASTM B487
23	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non Ferrous Material	Coating Thickness by X-ray Fluorescence (Cd on Steel)	ISO-3497
24	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non Ferrous Material	Coating Thickness by X-ray Fluorescence (Zn on Steel)	ISO-3497
25	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non Ferrous Material	Coating Thickness by X-ray Fluorescence (Zn-Ni on Steel)	ISO 3497
26	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non Ferrous Material	Micro structure	ASM Handbook Vol 9 : 2004
27	MECHANICAL-METALLOGRAPHY TEST	Metals and Alloys.	Macro structure	ASTM E340
28	MECHANICAL-METALLOGRAPHY TEST	Steel	Depth of decarburization (Microscopic Method)	ISO 3887
29	MECHANICAL-METALLOGRAPHY TEST	Steel	Effective case depth by Hardness Method	IS 6416
30	MECHANICAL-METALLOGRAPHY TEST	Steel	Inclusion Rating Method A	ASTM E45

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31	MECHANICAL-METALLOGRAPHY TEST	Steel	Total Case Depth by Hardness Method	IS 6416
32	MECHANICAL-METALLOGRAPHY TEST	Steel Bolt, Screw, Stud and Nut	Decarburization & Carburization by microindentation hardness method	ASTM-F2328