National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : CSIR-CENTRAL MECHANICAL ENGINEERING RESEARCH INSTITUTE, MATERIAL AND STRUCTURAL EVALUATION GROUP, MAHATMA GANDHI AVENUE, DURGAPUR, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5424 **Page No** 1 of 2

Validity 12/07/2022 to 11/07/2024 **Last Amended on** 31/08/2022

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	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium alloy and other composition	Rotating bar bending fatigue testing	IS 5075, ISO 1143
2	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium alloys	% Elongation for Load range 2kN-100kN	ASTM E 8-16, IS 1608 Part 1
3	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium alloys	% reduction of area for load range 2kN-100kN	ASTM E 8-16, IS 1608 Part 1
4	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium alloys	Yield strength	ASTM E 8-16, IS 1608 Part 1
5	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium/Titanium alloys	Fatigue testing	ASTM E466-21
6	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminum alloys	Ultimate Tensile strength	ASTM E 8-16, IS 1608 Part 1
7	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous material	Rotating bar bending fatigue testing	IS 5075, ISO 1143
8	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	% Elongation For load range 20 KN to 98.1 KN	IS1786- 2008, IS 1608 Part 1
9	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	% Elongation for load range 20kN-392.4kN	IS 1786-2008, IS1608 Part 1
10	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	% Elongation for Load range 20kN-981kN	IS 1786-2008, IS 1608 Part 1
11	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	% Elongation for Load Range 2kN-100kN	ASTM E 8-16, IS 1608 Part 1
12	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	% of Reduction of Area for Load range 20kN-392.4kN	IS 1786-2008, IS 1608 Part 1
13	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	% Reduction of area for Load range 20kN-98.1kN	IS 1786-2008, IS 1608 Part 1

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14	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	% Reduction of area for Load range 20kN-981kN	IS 1786-2008, IS 1608 Part 1
15	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	% Reduction of Area for Load range 2kN-100kN	ASTM E 8-16, IS 1608 Part 1
16	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Fatigue testing	ASTM E466-21
17	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Ultimate Tensile strength	ASTM E 8-16, IS 1608 Part 1
18	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Ultimate Tensile strength	IS 1786-2008, IS 1608 Part 1
19	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Ultimate Tensile strength	IS 1786-2008, IS1608 Part 1
20	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Ultimate Tensile strength	IS 1786-2008, IS1608 Part 1
21	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Yield strength	ASTM E 8-16, IS 1608 Part 1
22	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Yield Strength	IS 1786 - 2008, IS 1608 Part 1
23	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Yield Strength	IS 1786- 2008, IS 1608 Part 1
24	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Yield strength	IS 1786-2008, IS 1608 Part 1