National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : BISS LABS -DIVISION OF ITW INDIA PRIVATE LIMITED, #497/E, 14TH CROSS, 4TH PHASE, 2ND STAGE, PEENYA INDUSTRIAL AREA, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7512 **Page No** 1 of 4

Validity 29/06/2021 to 28/06/2023 **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	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous materials, alloys & products	Axial fatigue Test	ASTM E 466
2	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous materials, alloys & products	Axial Fatigue Test for fatigue properties	ASTM E 606M
3	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous materials, alloys & products	Compression Test-Compressive strength	ASTM E9
4	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous materials, alloys & products	Compression Test-YS	ASTM E9
5	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous materials, alloys & products	Creep & Stress Rapture Test-% Elongation	ASTM E139
6	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous materials, alloys & products	Creep & Stress Rapture Test-Strain Rate	ASTM E139
7	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous materials, alloys & products	Creep & Stress Rapture Test-Stress	ASTM E139
8	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous materials, alloys & products	Creep Fatigue loading	ASTM E2714
9	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous materials, alloys & products	Elevated Temperature Tensile Test-%EL	ASTM E21
10	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous materials, alloys & products	Elevated Temperature Tensile Test-0.2% YS	ASTM E21
11	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous materials, alloys & products	Elevated Temperature Tensile Test-UTS	ASTM E21
12	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous materials, alloys & products	Fatigue Crack growth Test	ASTM E647
13	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous materials, alloys & products	Fatigue Test	IS 16651

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14	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous materials, alloys & products	Fracture toughness Test (K1c)	ASTM E399
15	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous materials, alloys & products	Fracture toughness Test using K, J and CTOD parameters	ASTM E1820
16	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous materials, alloys & products	Poisson’s ratio Test	ASTM E132
17	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous materials, alloys & products	Tensile Shear Strength Test (for adhesives for bonding metals)	ASTM D3528
18	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous materials, alloys & products	Tensile Test-%EL	ASTM E8
19	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous materials, alloys & products	Tensile test-0.2% YS	ASTM E8
20	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous materials, alloys & products	Tensile Test-UTS	ASTM E8
21	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous materials, alloys & products	Thermo- mechanical uniaxial fatigue	ASTM E2368
22	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Isotropic and orthotropic reinforced plastic Components	Tensile Shear Strength Test-Shear Strength	ASTM D3528
23	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Isotropic and orthotropic Reinforced Plastic composites	Compression Test	ASTM D1621
24	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Isotropic and orthotropic Reinforced Plastic composites	Compression Test-compression chord Modulus	ISO 14126
25	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Isotropic and orthotropic Reinforced Plastic composites	Compression test-compressive strength	ISO 14126
26	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Isotropic and orthotropic Reinforced Plastic composites	Cracked Sandwich Beam Test-compressive strength	ASTM C393
27	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Isotropic and orthotropic Reinforced Plastic composites	Cracked Sandwich Beam Test-Max load	ASTM C393
28	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Isotropic and orthotropic Reinforced Plastic composites	Face wrinkle Test	ASTM C393
29	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Isotropic and orthotropic Reinforced Plastic composites	Peel Test (peel resistance)	ASTM D1781

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30	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Isotropic and orthotropic Reinforced Plastic composites	Shear test	ASTM C273
31	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Isotropic and orthotropic Reinforced Plastic composites	Tensile shear -Max load	ISO 14129
32	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Isotropic and orthotropic Reinforced Plastic composites	Tensile shear -Shear strength	ISO 14129
33	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Isotropic and orthotropic Reinforced Plastic composites	Tensile shear-Shear modulus	ISO 14129
34	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Isotropic and orthotropic Reinforced Plastic composites	Tensile test-%El	ASTM D3039
35	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Isotropic and orthotropic Reinforced Plastic composites	Tensile test-%El	ISO 527-4
36	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Isotropic and orthotropic Reinforced Plastic composites	Tensile test-UTS	ASTM D3039
37	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Isotropic and orthotropic Reinforced Plastic composites	Tensile test-UTS	ISO 527-4
38	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Isotropic and orthotropic Reinforced Plastic composites	Tensile test-Young’s Modulus	ASTM D3039
39	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Isotropic and orthotropic Reinforced Plastic composites	Tensile test-Young’s Modulus	ISO 527-4
40	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Isotropic and orthotropic Reinforced Plastic composites	Uniaxial Fatigue Test	ISO 13003
41	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polymer matrix composite	Compression test-compressive strength	ASTM D6484
42	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polymer matrix composite	Flexural Test -Flexural Strength	ASTM D2344
43	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polymer matrix composites	Compression test-compressive strength	ASTM D3410
44	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Sandwich pannel	Tensile shear Test	ASTM C297
45	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Structural Adhesives	Fatigue test	ISO 9664
46	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Unreinforced and reinforced composites	Shear Test-Shear strength	ASTM D5379
47	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Unreinforced and reinforced Plastics	Tensile Test-UTS	ASTM D638
48	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Unreinforced and reinforced Plastics and electrical insulating materials	Flexural Test-strength	ASTM D790

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49	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber, Vulacanised or thermoplastic	Shear stiffness Test	ISO4664