



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

MPRAGATI IIT DELHI, 021, GROUND FLOOR, ACADEMIC COMPLEX EAST, IIT DELHI, HAUZ KHAS, NEW DELHI, DELHI, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-16477

Page No

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Validity

22/07/2025 to 10/07/2026

Last Amended on

03/09/2025

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 Testing				
1	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Biomaterials (Metals and Metallic Alloys)	Elongation after Fracture	ASTM E8/E8M
2	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Biomaterials (Metals and Metallic Alloys)	Fatigue life	ISO 22407
3	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Biomaterials (Metals and Metallic Alloys)	Ultimate Tensile Strength	ASTM E8/E8M
4	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Biomaterials (Metals and Metallic Alloys)	Yield Strength	ASTM E8/E8M
5	MECHANICAL-MEDICAL DEVICE	Biomaterials	Microindentation Hardness	ASTM E384
6	MECHANICAL-MEDICAL DEVICE	Bone Plates	Bending Strength	ISO 9585
7	MECHANICAL-MEDICAL DEVICE	Bone Plates	Equivalent Bending Stiffness	ISO 9585
8	MECHANICAL-MEDICAL DEVICE	Bone Screws	Breaking Angle	ASTM F543
9	MECHANICAL-MEDICAL DEVICE	Bone Screws	Maximum Torque	ASTM F543
10	MECHANICAL-MEDICAL DEVICE	Bone Screws	Torsional Yield Strength	ASTM F543
11	MECHANICAL-MEDICAL DEVICE	IMFD Locking Screws	Fatigue Life at prescribed Bending Moment	ASTM F1264
12	MECHANICAL-MEDICAL DEVICE	Intramedullary Fixation Devices	Fatigue Life at prescribed Bending Moment	ASTM F1264
13	MECHANICAL-MEDICAL DEVICE	Intramedullary Fixation Devices	Load at Yield	ASTM F1264



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14	MECHANICAL-MEDICAL DEVICE	Intramedullary Fixation Devices	Load-Displacement Slope	ASTM F1264
15	MECHANICAL-MEDICAL DEVICE	Intramedullary Fixation Devices	Moment at Yield	ASTM F1264
16	MECHANICAL-MEDICAL DEVICE	Intramedullary Fixation Devices	Structural Stiffness	ASTM F1264
17	MECHANICAL-MEDICAL DEVICE	Intramedullary Fixation Devices	Torsional Stiffness	ASTM F1264
18	MECHANICAL-MEDICAL DEVICE	Metallic Bone Plates	Bending Stiffness	ASTM F382
19	MECHANICAL-MEDICAL DEVICE	Metallic Bone Plates	Bending Strength	ASTM F382
20	MECHANICAL-MEDICAL DEVICE	Metallic Bone Plates	Bending Structural Stiffness	ASTM F382
21	MECHANICAL-MEDICAL DEVICE	Metallic Bone Plates	Fatigue Life at prescribed Bending Moment	ASTM F382
22	MECHANICAL-MEDICAL DEVICE	Metallic Materials	Hardness	ASTM E92
23	MECHANICAL-MEDICAL DEVICE	Tissue Engineered Scaffolds	Porosity	ASTM F3259
24	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Biomaterials (Polymers)	Compressive Strength	ASTM D695
25	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Biomaterials (Polymers)	Compressive Yield Strength	ASTM D695
26	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Biomaterials (Polymers)	Flexural Strain	ASTM D790
27	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Biomaterials (Polymers)	Flexural Strength	ASTM D790



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28	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Biomaterials (Polymers)	Modulus of elasticity in compression	ASTM D695
29	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Biomaterials (Polymers)	Modulus of Elasticity	ASTM D638
30	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Biomaterials (Polymers)	Percent elongation at break	ASTM D638
31	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Biomaterials (Polymers)	Tangent modulus in bending	ASTM D790
32	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Biomaterials (Polymers)	Tensile strength at break	ASTM D638
33	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Biomaterials (Polymers)	Tensile strength at Yield	ASTM D638
34	MECHANICAL-PLASTICS AND PLASTIC PRODUCTS	Biomaterials (Polymers)	Uniaxial Fatigue Limit	ASTM D7791