National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : ENVIRONMENTAL AND MATERIAL TEST DIVISION, AEROSPACE ENGINEERS PRIVATE LIMITED, THE SALEM AEROPARK, 8/63, NATIONAL HIGHWAYS - 7, AMMAPALAYAM VILLAGE, MALLUR, SALEM, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 14/04/2021 to 13/04/2023 **Last Amended on** 28/10/2021

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- PAINTS & SURFACE COATING	Anodised Aluminium and Aluminium Alloy components	Coating Thickness Test	ASTM B 244
2	CHEMICAL- PAINTS & SURFACE COATING	Coated Metallic components	Salt Spray Test	ASTM B 117
3	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel & Aluminium alloy,products	Rock well Hardness Test HRC	IS 1586 (Pat -1)
4	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel & Aluminum alloy products	Rock well Hardness Test HRB	ASTM E 18
5	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel & Aluminum alloy products	Rock well Hardness Test HRB	IS 1586 (Part 1)
6	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel & Aluminum Alloy products	Rock well Hardness Test HRC	ASTM E 18
7	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel / Aluminium plates and Bars	Bend test	ASTM A 370
8	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Titanium Aluminum alloys and Copper Alloys Bars, Plates, Section, Rods Wires	Tensile Test Yield Strength	IS 1608 Part 1
9	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Titanium Aluminum alloys and Copper Alloys Bars, Plates,Section, Rods wires	Tensile Test % Elongation	IS 1608 Part 1
10	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Titanium, Aluminium and Copper alloys Bars, Plates, Sections ,Rods and wires	Tensile Test % Elongation	ASTM A 370
11	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel,Titanium Aluminium alloys and Copper Alloys,Bar, Plates,Section Rods Wires	Tensile Test Tensile Strength	ASTM A 370
12	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel,Titanium Aluminium alloys Bars, Plates, Section, Rods Wires	Tensile Test Yield Strength	ASTM A 370
13	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel,Titanium Aluminum alloys and copper Alloys,Bars, Plates,Section, Rods Wires	Tensile Test Tensile Strength	IS 1608 Part 1
14	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel/ Aluminium plates and Bars	Bend Test	IS 1599

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15	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Phenolic Moulding Materials	Tensile Test Tensile strength	IS 867
16	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Phenolic moulding materials	Test for Cross Breaking strength	IS 867
17	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic material and products	Density	ASTM D 792
18	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Hardness Shore D	ASTM D 2240
19	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural and Synthetic Rubber & Rubber Products	Ageing test -Change in Tensile elongation	ASTM D 573
20	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural and Synthetic Rubber & Rubber Products	Ageing Test- Change in Tensile strength	ASTM D 573
21	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural and Synthetic Rubber & Rubber Products	Ageing test-Change in hardness	ASTM D 573
22	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural and Synthetic Rubber & Rubber Products	Ageing test-Change in Tear Strength	ASTM D 573
23	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural and Synthetic Rubber & Rubber Products	Brittleness point	ASTM D 2137
24	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural and Synthetic Rubber & Rubber Products	Compression set	ASTM D395
25	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural and Synthetic Rubber & Rubber Products	Density	ASTM D297
26	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural and Synthetic Rubber & Rubber Products	Ozone Resistance Test	ASTM D1149
27	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural and Synthetic Rubber & Rubber Products	Resistance to Liquid-Change in Hardness	ASTM D 471
28	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural and Synthetic Rubber & Rubber Products	Resistance to liquids - Change in Tensile Elongation	ASTM D 471
29	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural and Synthetic Rubber & Rubber Products	Resistance to liquids -Change in Tensile strength	ASTM D 471
30	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural and Synthetic Rubber & Rubber Products	Resistance to Liquids --- Change in Volume	ASTM D 471
31	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural and Synthetic Rubber & Rubber Products	Resistance to liquids-Change in Tear Strength	ASTM D 471
32	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural and Synthetic Rubber & Rubber Products	Shore A Hardness Test	ASTM D2240
33	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural and Synthetic Rubber & Rubber Products	Tensile Test --Elongation	ASTM D412

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34	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural and Synthetic Rubber & Rubber Products	Tensile Test --Tensile strength	ASTM D412
35	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Vulcanised Rubber	Tear Strength	ASTM D624
36	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Aerospace and Defence Application Components	Angle Measurement	SOP No. AEQAL/DIT-CMM Issue No.1.
37	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Aerospace and Defence application Components	Angle Measurement	SOP No. AEQAL/DIT-VMM Issue No.1.
38	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Aerospace and Defence Application Components	Dimensional Test --Height and Depth	SOP No. AEQAL/DIT-VHDG Issue No.1:
39	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Aerospace and Defence Application Components	Dimensional Test Length / Diameter / Thickness	SOP No. AEQAL/DIT-DVC Issue No.1.
40	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Aerospace and Defence Application Components	Dimensional Test --Length / Diameter / Thickness	SOP No. AEQAL/DIT-MIC Issue No.1.
41	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Aerospace and Defence application Components	Geometric Dimensional Test	SOP No. AEQAL/DIT-CMM Issue No.1.
42	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Aerospace and Defence Application Components	Geometric Dimensional Test	SOP No. AEQAL/DIT-VMM Issue No.1.
43	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Aerospace and Defence application Components	Surface Roughness Test	SOP No. AEQAL/DIT-SRT Issue No.1.
44	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Aerospace and Defence application Components .	Dimensional Test --Radius	SOP No. AEQAL/DIT-CMM Issue No.1.
45	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	CRES, Steel, Aluminium and Titanium fittings	Burst Pressure Test	Aerospace Standard SAE AS2094 (Section - 4.5)
46	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	CRES, Steel, Aluminium and Titanium fittings	Flexure Test	Aerospace Standard SAE ARP1185
47	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	CRES, Steel, Aluminium and Titanium fittings	Joint Strength Test	Aerospace Standard SAE AS18280 (Section - 3.6.7)

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48	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	CRES, Steel, Aluminium and Titanium fittings	Pneumatic Pressure Test	Aerospace Standard SAE AS2094 (Section - 4.2)
49	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	CRES, Steel, Aluminium and Titanium fittings	Proof Pressure Test	Aerospace Standard SAE AS2094 (Section - 4.1)
50	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	CRES, Steel, Aluminium and Titanium fittings	Repeated Assembly Test	Aerospace Standard SAE AS2094 (Section - 4.8)
51	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	PTFE Hose and Hose assembly	Burst Pressure Test	SAE AS 2078
52	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	PTFE Hose and Hose Assembly	Elongation and Contraction test	SAE AS 2078
53	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	PTFE Hose and Hose assembly	Fire test	SAE AS 1055
54	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	PTFE Hose and Hose assembly	Flexibility and Vacuum test	SAE AS 620 /1227
55	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	PTFE Hose and Hose assembly	Fuel Resistance Test	SAE AS 2078
56	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	PTFE Hose and Hose assembly	Hydraulic Proof pressure test	SAE AS 2078
57	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	PTFE Hose and Hose assembly	Impulse test	SAE AS 603/ 2078
58	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	PTFE Hose and Hose assembly	Leakage test	SAE AS 2078
59	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	PTFE Hose and Hose assembly	Low Temperature flexing Test	SAE AS 2078
60	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	PTFE Hose and Hose assembly	Oil resistance Test	SAE AS 620/1227
61	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	PTFE HOSE and Hose assembly	Pneumatic effusion test	SAE AS 2078

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62	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	PTFE Hose and Hose assembly	Pneumatic leakage Test	SAE AS 2078
63	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	PTFE Hose and Hose assembly	Pneumatic Proof pressure test	SAE AS 620/ 1424
64	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	PTFE Hose and Hose assembly	Pneumatic surge test	SAE AS 2078
65	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	PTFE Hose and Hose assembly	Pressure surge test	SAE AS 620/1227
66	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	PTFE Hose and Hose assembly	Repetitive assembly torque test	SAE ARP 908
67	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	PTFE Hose and Hose assembly	Stress Degradation test	SAE AS 1946/ 2078
68	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	PTFE Hose and Hose assembly	Vacuum test	SAE AS 2078
69	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	PTFE Hose and Hose assembly	Volumetric Expansion test	SAE AS 2078