



National Accreditation Board for  
Testing and Calibration Laboratories

**CERTIFICATE OF ACCREDITATION**

**GAT CALIBRATION LAB (GMR AIR CARGO AND  
AEROSPACE ENGINEERING LTD.)**

has been assessed and accredited in accordance with the standard

**ISO/IEC 17025:2017**

**"General Requirements for the Competence of Testing &  
Calibration Laboratories"**

for its facilities at

PLOT NO 1, GMR HYDERABAD AVIATION SEZ LTD, HYDERABAD, RANGA REDDY, TELANGANA, INDIA

in the field of

**CALIBRATION**

Certificate Number: CC-2974

Issue Date: 28/03/2021

Valid Until:

27/03/2023

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website [www.nabl-india.org](http://www.nabl-india.org))

Name of Legal Identity : GMR AIR CARGO AND AEROSPACE ENGINEERING LTD

Signed for and on behalf of NABL



N. Venkateswaran  
Chief Executive Officer



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## SCOPE OF ACCREDITATION

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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 1 kHz	Multi function Calibrator / Direct Method	1 A to 10 A	0.62 % to 0.43 %
2	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 1 kHz	Multi function Calibrator / Direct Method	1 mA to 2 mA	1 % to 0.5 %
3	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 1 kHz	Multi function Calibrator / Direct Method	2 mA to 20 mA	0.5 % to 0.4 %
4	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 1 kHz	Multi function Calibrator / Direct Method	20 mA to 200 mA	0.4%
5	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 1 kHz	Multi function Calibrator / Direct Method	200 mA to 2000 mA	0.4 % to 0.6 %



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6	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Multi function Calibrator / Direct Method	1 A to 10 A	2.2%
7	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Multi function Calibrator / Direct Method	1 mA to 2 mA	2.9 % to 1.2 %
8	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Multi function Calibrator with Current Coil / Direct Method	10 A to 1000 A	2.2 % to 1.4 %
9	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Multi function Calibrator / Direct Method	2 mA to 20 mA	1.12 % to 0.37 %
10	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Multi function Calibrator / Direct Method	20 mA to 200 mA	0.36 % to 0.4 %
11	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Multi function Calibrator / Direct Method	200 mA to 2000 mA	0.4 % to 0.59 %



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12	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1 kHz	Multi function Calibrator / Direct Method	2 V to 20 V	0.4%
13	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1 kHz	Multi function Calibrator / Direct Method	20 V to 200 V	0.4 % to 0.3 %
14	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1 kHz	Multi function Calibrator / Direct Method	200 mV to 2 V	0.3 % to 0.4 %
15	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1 kHz	Multi function Calibrator / Direct Method	200 V to 1000 V	0.3%
16	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Multi function Calibrator / Direct Method	2 V to 20 V	0.4%
17	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Multi function Calibrator / Direct Method	20 mV to 200 mV	3 % to 0.65 %



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18	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Multi function Calibrator / Direct Method	20 V to 200 V	0.4 % to 0.35 %
19	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Multi function Calibrator / Direct Method	200 mV to 2 V	0.65 % to 0.4 %
20	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Multi function Calibrator / Direct Method	200 V to 1000 V	0.35 % to 0.25 %
21	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage@1 kHz	Multi function Calibrator / Direct Method	20 mV to 200 mV	3 % to 0.3 %
22	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Decade capacitance box / Direct method	1 µF to 10 µF	1.19 % to 1.3 %
23	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Decade capacitance box / Direct method	1 nF to 10 nF	4.23 % to 1.47 %



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24	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Decade capacitance box / Direct method	10 $\mu$ F to 100 $\mu$ F	1.3%
25	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Decade capacitance box / Direct method	10 nF to 100 nF	1.47 % to 1.2 %
26	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Decade Capacitance box / Direct method	100 nF to 1 $\mu$ F	1.2 % to 1.19 %
27	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Resistance	Decade Resistance Box / Direct method	1 kOhm to 10 kOhm	0.15%
28	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Resistance	Decade Resistance Box / Direct method	1 MOhm to 10 MOhm	0.15%
29	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Resistance	Decade Resistance Box / Direct method	1 Ohm to 10 Ohm	6 % to 0.7 %



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30	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Resistance	Decade Resistance Box / Direct method	10 kOhm to 100 kOhm	0.15%
31	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Resistance	Decade Resistance Box / Direct method	10 MOhm to 100 MOhm	0.15 % to 1 %
32	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Resistance	Decade Resistance Box / Direct method	10 Ohm to 100 Ohm	0.7 % to 0.15 %
33	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Resistance	Decade Resistance Box / Direct method	100 kOhm to 1 MOhm	0.15%
34	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Resistance	Decade Resistance Box / Direct method	100 Ohm to 1000 Ohm	0.15%
35	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	Multi function Calibrator / Direct Method	0.2 mA to 2 mA	1%



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36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Multi function Calibrator / Direct Method	1 A to 10 A	2%
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Multi function Calibrator with Current Coil / Direct Method	10 A to 1000 A	2 % to 1 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Multi function Calibrator / Direct Method	2 mA to 20 mA	1 % to 0.6 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Multi function Calibrator / Direct Method	20 mA to 200 mA	0.6 % to 0.4 %
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Multi function Calibrator / Direct Method	200 mA to 2000 mA	0.4 % to 2 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Multi function calibrator / Direct Method	2 V to 20 V	0.15%





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42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Multi function calibrator / Direct Method	20 V to 200 V	0.15%
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Multi function calibrator / Direct Method	200 mV to 2 V	0.3 % to 0.15 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Multi function calibrator / Direct Method	200 V to 1000 V	0.15%
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Multi function Calibrator / Direct Method	5 mV to 200 mV	2.2 % to 0.3 %
46	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Test Indicator (LC 0.001 mm)	Slip Gauge Grade 0 and comparator stand / Direct Method	0 to 10 mm	5.76µm



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47	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge LC 0.001mm	Electronic comparator and Slip gauge grade 0.	0 to 25 mm	1.50 µm
48	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (LC 0.001 mm)	Slip Gauge Grade 0	0 to 25 mm	6µm
49	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (LC 0.0254 mm)	Slip Gauge Grade 0	0 to 125 mm	29.5 µm
50	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Digimatic micrometer	0 to 2 mm	2.3 µm
51	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plug Gauge	Electronic Comparator and Slip Gauge Grade 0.	0 to 25 mm	1.43 µm



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52	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Slip Gauge Grade 0 / Direct method	0 to 100 mm	1.5 µm
53	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	VERNIER CALIPER LC 0.01 mm	CALIPER CHECKER , COMPARISON METHOD	0 to 200 mm	12.1µm
54	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	VERNIER CALIPER LC 0.01 mm	CALIPER CHECKER , COMPARISON METHOD	0 to 150 mm	12µm
55	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Height Gauge LC 0.02 mm	Caliper Checker and Slip Gauge Grade 0 / Direct Method	0 to 600 mm	16.88µm
56	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge - Hydraulic	Using Pressure Comparator by Comparison Method	0 to 689.47 bar	1.03 bar



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57	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure gauges (Hydraulic)	Hand held Pressure comparator and Pressure Comparator using DKD-R6-1	0 to 100 bar	0.66%
58	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure gauges (Hydraulic)	Hand pump / Pressure Comparator by comparison method using DKD-R6-1	0 to 700 bar	0.20%
59	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench (Type I-Class A,B & C Type II-Class A B)	Torque Wrench Tester / Direct Method: Using Torque Sensors with digital Indicator based on IS 16906	271 Nm to 1322 Nm	1.34%
60	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench (Type I class A,B,C,D & E. Type II class A,B,D & E)	Torque Wrench Tester / Direct Method: Using Torque Sensor with digital Indicator based on IS 16906	0 to 40 Nm	1.36%
61	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench (Type I-Class B & C, Type II-Class A & B)	Using Torque Transducer with Indicator & Torque Wrench Calibration System as per IS/ISO 6789: 2003 (RA 2013)	27 Nm to 271 Nm	2.14%rdg



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62	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity meters , Temperature / Thermo Hygrometers, Thermometers.	Temperature and Humidity chamber with Digital Thermo/ Hygro indicator and sensor.	20 % RH to 94 %RH @ 25 °C	2.12 % RH
63	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity meters , Temperature / Thermo Hygrometers, Thermometers.	Temperature and Humidity chamber with Digital Thermo/ Hygro indicator and sensor.	5 °C to 50 °C @ 50%RH	1.04°C



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Site Facility					
1	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure gauges (Hydraulic)	Hand held Pressure comparator and Pressure Comparator using DKD-R6-1	0 to 100 bar	0.66%
2	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure gauges (Hydraulic)	Hand pump / Pressure Comparator by comparison method using DKD-R6-1	0 to 700 bar	0.20%

\* CMCs represent expanded uncertainties expressed at approximately the 95% level of confidence, using a coverage factor of k = 2.