



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: 28/03/2023

Valid Until:

27/03/2025

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)

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

Signed for and on behalf of NABL



N. Venkateswaran
Chief Executive Officer



National Accreditation Board for Testing and Calibration Laboratories

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Laboratory Name : GAT CALIBRATION LAB (GMR AIR CARGO AND AEROSPACE ENGINEERING LTD), PLOT NO 1, GMR HYDERABAD AVIATION SEZ LTD, HYDERABAD, RANGA REDDY, TELANGANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2974 **Page No** 1 of 13

Validity 28/03/2023 to 27/03/2025 **Last Amended on** 20/04/2023

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 5 ½ Digit / 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 5 ½ Digit /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 5 ½ Digit / 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 5 ½ Digit / Direct Method	20 mA to 200 mA	0.4%
5	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 1 kHz	Multi function Calibrator 5 ½ Digit / Direct Method	200 mA to 1 A	0.4 % to 0.6 %



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

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2974 **Page No** 2 of 13

Validity 28/03/2023 to 27/03/2025 **Last Amended on** 20/04/2023

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)(±)
6	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Multi function Calibrator 5 ½ Digit / Direct Method	1 A to 10 A	2.2%
7	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Multi function Calibrator 5 ½ Digit / 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 5 ½ Digit 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 5 ½ Digit / 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 5 ½ Digit / Direct Method	20 mA to 200 mA	0.37 % to 0.4 %
11	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Multi function Calibrator 5 ½ Digit / Direct Method	200 mA to 2000 mA	0.4 % to 0.59 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : GAT CALIBRATION LAB (GMR AIR CARGO AND AEROSPACE ENGINEERING LTD),
PLOT NO 1, GMR HYDERABAD AVIATION SEZ LTD, HYDERABAD, RANGA REDDY,
TELANGANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2974 **Page No** 3 of 13

Validity 28/03/2023 to 27/03/2025 **Last Amended on** 20/04/2023

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)(±)
12	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1 kHz	Multi function Calibrator 5 ½ Digit / Direct Method	2 V to 20 V	0.4%
13	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1 kHz	Multi function Calibrator 5 ½ Digit / 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 5 ½ Digit / 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 5 ½ Digit / Direct Method	200 V to 1000 V	0.3%
16	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Multi function Calibrator 5 ½ Digit / Direct Method	2 V to 20 V	0.4%
17	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Multi function Calibrator 5 ½ Digit / Direct Method	20 mV to 200 mV	3 % to 0.65 %



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SCOPE OF ACCREDITATION

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2974 **Page No** 4 of 13

Validity 28/03/2023 to 27/03/2025 **Last Amended on** 20/04/2023

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)(±)
18	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Multi function Calibrator 5 ½ Digit / 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 5 ½ Digit / 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 5 ½ Digit / 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 5 ½ Digit / 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	5.77 % to 5.80 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : GAT CALIBRATION LAB (GMR AIR CARGO AND AEROSPACE ENGINEERING LTD),
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TELANGANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2974 **Page No** 5 of 13

Validity 28/03/2023 to 27/03/2025 **Last Amended on** 20/04/2023

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24	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Decade capacitance box / Direct method	10 μ F to 100 μ F	1.3%
25	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Decade capacitance box / Direct method	10 nF to 100 nF	5.8 % to 1.2 %
26	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Decade Capacitance box / Direct method	100 nF to 1 μ F	1.3 % to 1.19 %
27	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Frequency	Multi function calibrator / Direct Method	50 Hz to 999.9 Hz	1.17 % to 0.26 %
28	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	Multi function Calibrator / Direct Method	0.2 mA to 2 mA	2.83%
29	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	Multi function Calibrator / Direct Method	1 A to 10 A	2%



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TELANGANA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2974

Page No

6 of 13

Validity

28/03/2023 to 27/03/2025

Last Amended on

20/04/2023

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)(±)
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Multi function Calibrator with Current Coil / Direct Method	10 A to 1000 A	2% to 1%
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Multi function Calibrator / Direct Method	2 mA to 20 mA	1 % to 0.6 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Multi function Calibrator / Direct Method	20 mA to 200 mA	0.6 % to 0.4 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Multi function Calibrator / Direct Method	200 mA to 2000 mA	0.4 % to 2 %
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Multi function calibrator / Direct Method	2 V to 20 V	0.15%
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Multi function calibrator / Direct Method	20 V to 200 V	0.15%



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : GAT CALIBRATION LAB (GMR AIR CARGO AND AEROSPACE ENGINEERING LTD),
PLOT NO 1, GMR HYDERABAD AVIATION SEZ LTD, HYDERABAD, RANGA REDDY,
TELANGANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2974 **Page No** 7 of 13

Validity 28/03/2023 to 27/03/2025 **Last Amended on** 20/04/2023

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)(±)
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Multi function calibrator / Direct Method	200 mV to 2 V	0.3 % to 0.15 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Multi function calibrator / Direct Method	200 V to 1000 V	0.15%
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Multi function Calibrator / Direct Method	5 mV to 200 mV	2.2 % to 0.3 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 wire)	Decade Resistance Box / Direct method	1 ohm to 10 ohm	6 % to 0.7 %
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 wire)	Decade Resistance Box / Direct method	1 Mohm to 10 Mohm	0.15%
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 wire)	Decade Resistance Box / Direct method	10 Mohm to 100 Mohm	0.15 % to 1 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

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

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2974 **Page No** 8 of 13

Validity 28/03/2023 to 27/03/2025 **Last Amended on** 20/04/2023

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)(±)
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 wire)	Decade Resistance Box / Direct method	100 ohm to 1000 ohm	0.15%
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 wire)	Decade Resistance Box / Direct method	10ohm to 100ohm	0.8% to 0.15%
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance(2 wire)	Decade Resistance Box / Direct method	1 kohm to 10 kohm	0.15%
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance(2 wire)	Decade Resistance Box / Direct method	10 kohm to 100 kohm	0.15%
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance(2 wire)	Decade Resistance Box / Direct method	100 kohm to 1 Mohm	0.15%
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance(2 wire)	Decade Resistance Box / Direct Method	100 Mohm to 1 Gohm	1 % to 5.66 %



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

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2974

Page No

9 of 13

Validity

28/03/2023 to 27/03/2025

Last Amended on

20/04/2023

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)(±)
48	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Test Indicator (LC 0.01 mm)	Slip Gauge Grade 0 and Comparator stand / Direct Method	0 to 20 mm	5.81µm
49	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
50	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge LC 0.001mm	Electronic comparator and Slip gauge grade 0 / Direct method	0 to 25 mm	1.50 µm
51	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (LC 0.001 mm)	Slip Gauge Grade 0 /Direct Method	0 to 25 mm	6µm
52	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (LC 0.0254 mm)	Slip Gauge Grade 0 / Direct Method	0 to 125 mm	29.5 µm



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

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2974 **Page No** 10 of 13

Validity 28/03/2023 to 27/03/2025 **Last Amended on** 20/04/2023

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53	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Digimatic micrometer / Direct Method	0 to 1 mm	2.3 µm
54	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plug Gauge	Electronic Comparator and Slip Gauge Grade 0 / Direct Method	0 to 25 mm	1.43 µm
55	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Slip Gauge Grade 0 / Direct method	0 to 100 mm	1.5 µm
56	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper LC 0.01 mm	Caliper Checker / Comparison Method	0 to 200 mm	12.1µm
57	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper LC 0.01 mm	Caliper Checker / Comparison Method	0 to 150 mm	12µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : GAT CALIBRATION LAB (GMR AIR CARGO AND AEROSPACE ENGINEERING LTD),
PLOT NO 1, GMR HYDERABAD AVIATION SEZ LTD, HYDERABAD, RANGA REDDY,
TELANGANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2974 **Page No** 11 of 13

Validity 28/03/2023 to 27/03/2025 **Last Amended on** 20/04/2023

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58	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 450 mm	16.80µm
59	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge - Hydraulic	Using Pressure Comparator by Comparison Method	0 to 100 bar	0.66%
60	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge - Hydraulic	Using Pressure Comparator by Comparison Method	0 to 700 bar	0.20%
61	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure gauges (Hydraulic)	Hand held Pressure comparator and Pressure Comparator using Comparison Method	0 to 100 bar	0.66%
62	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure gauges (Hydraulic)	Hand pump / Pressure Comparator / comparison method	0 to 700 bar	0.20%
63	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench (Type I-Class A,B & C Type II-Class A B)	Using Torque Sensors with digital Indicator based on IS 16906 : 2018	271 Nm to 1322 Nm	1.48%



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

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

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2974 **Page No** 12 of 13

Validity 28/03/2023 to 27/03/2025 **Last Amended on** 20/04/2023

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)(±)
64	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench (Type I class A,B,C,D & E. Type II class A,B,D & E)	Using Torque Sensor with digital Indicator based on IS 16906:2018	0 to 40 Nm	1.36%
65	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 16906:2018	27 Nm to 271 Nm	2.14%rdg
66	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity meters , Temperature / Thermo Hygrometers, Thermometers.	Using Temperature and Humidity chamber with Digital Thermo/ Hygro indicator and sensor by comparison method	20 % rh to 95 % rh @ 25 °C	2.13% rh
67	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity meters , Temperature / Thermo Hygrometers, Thermometers.	using Temperature and Humidity chamber with Digital Thermo/ Hygro indicator and sensor by comparison method	5 °C to 50 °C @ 50% rh	1.04°C



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : GAT CALIBRATION LAB (GMR AIR CARGO AND AEROSPACE ENGINEERING LTD),
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TELANGANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2974 **Page No** 13 of 13

Validity 28/03/2023 to 27/03/2025 **Last Amended on** 20/04/2023

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Site Facility					
1	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure gauges (Hydraulic)	Hand held Pressure comparator and Pressure Comparator using Comparison Method	0 to 100 bar	0.66%
2	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure gauges (Hydraulic)	Hand pump / Pressure Comparator / comparison method	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.