



National Accreditation Board for  
Testing and Calibration Laboratories

**CERTIFICATE OF ACCREDITATION**

**AIR WORKS CALIBRATION LABORATORY**

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

AIR WORKS INDIA (ENGINEERING) PVT. LTD., MUMBAI, MAHARASHTRA, INDIA

in the field of

**CALIBRATION**

Certificate Number: CC-2965

Issue Date: 11/06/2020

Valid Until: 13/03/2021\*

\*The validity is extended for one year up to 13.03.2022

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 : AIR WORKS INDIA (ENGINEERING) PVT. LTD.

Signed for and on behalf of NABL



N. Venkateswaran  
Chief Executive Officer



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

AIR WORKS CALIBRATION LABORATORY, AIR WORKS INDIA (ENGINEERING) PVT. LTD., MUMBAI, MAHARASHTRA, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2965

**Page No**

1 of 25

**Validity**

11/06/2020 to 13/03/2021\*

**Last Amended on**

-

\*The validity is extended for one year up to 13.03.2022

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum	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) (Measure)	AC Current @ 1 kHz	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	1 A to 10 A	0.10 % to 0.25 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 1 kHz	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	100 mA to 1 A	0.17 % to 0.10 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 1 kHz	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	30 µA to 100 mA	0.30 % to 0.17 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	1 A to 10 A	0.10 % to 0.25 %



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

AIR WORKS CALIBRATION LABORATORY, AIR WORKS INDIA (ENGINEERING) PVT. LTD., MUMBAI, MAHARASHTRA, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2965

**Page No**

2 of 25

**Validity**

11/06/2020 to 13/03/2021\*

**Last Amended on**

-

\*The validity is extended for one year up to 13.03.2022

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	100 mA to 1 A	0.17 % to 0.10 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	30 µA to 100 mA	0.30 % to 0.17 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	1 mV to 10 mV	4.75 % to 0.55 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	10 mV to 10 V	0.55 % to 0.10 %



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

AIR WORKS CALIBRATION LABORATORY, AIR WORKS INDIA (ENGINEERING) PVT. LTD., MUMBAI, MAHARASHTRA, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2965

**Page No**

3 of 25

**Validity**

11/06/2020 to 13/03/2021\*

**Last Amended on**

-

\*The validity is extended for one year up to 13.03.2022

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	10 V to 1000 V	0.10 % to 0.12 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	1 mV to 30 mV	2.94 % to 0.2 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	10 mV to 10 V	0.55 % to 0.10 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	10 V to 1000 V	0.10 % to 0.12 %



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

AIR WORKS CALIBRATION LABORATORY, AIR WORKS INDIA (ENGINEERING) PVT. LTD., MUMBAI, MAHARASHTRA, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2965

**Page No**

4 of 25

**Validity**

11/06/2020 to 13/03/2021\*

**Last Amended on**

-

\*The validity is extended for one year up to 13.03.2022

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance (1 kHz)	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	1 nF to 10 nF	5.2 % to 1.73 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance (1 kHz)	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	10 mF to 100 mF	1.9 % to 5.1 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance (1 kHz)	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	10 nF to 10 mF	1.73 % to 1.9 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 1 kHz	Using Fluke 5502A by direct method	10 A to 20 A	0.14 % to 0.2 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 1 kHz	Using Fluke 5502A by direct method	3.2 mA to 320 mA	0.13 % to 0.067 %



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

AIR WORKS CALIBRATION LABORATORY, AIR WORKS INDIA (ENGINEERING) PVT. LTD., MUMBAI, MAHARASHTRA, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2965

**Page No**

5 of 25

**Validity**

11/06/2020 to 13/03/2021\*

**Last Amended on**

-

\*The validity is extended for one year up to 13.03.2022

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum	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 Current @ 1 kHz	Using Fluke 5502A by direct method	320 µA to 3.2 mA	0.18 % to 0.13 %
19	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 1 kHz	Using Fluke 5502A by direct method	320 mA to 10 A	0.067 % to 0.14 %
20	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 1 kHz	Using Fluke 5502A by direct method	33 µA to 320 µA	0.5 % to 0.18 %
21	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Fluke 5502A by direct method	10 A to 20 A	0.094 % to 0.2 %
22	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Fluke 5502A + 50 turn Current Coil by direct method	100 A to 1000 A	0.65 % to 0.85 %



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

AIR WORKS CALIBRATION LABORATORY, AIR WORKS INDIA (ENGINEERING) PVT. LTD., MUMBAI, MAHARASHTRA, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2965

**Page No**

6 of 25

**Validity**

11/06/2020 to 13/03/2021\*

**Last Amended on**

-

\*The validity is extended for one year up to 13.03.2022

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Fluke 5502A by direct method	120 µA to 320 µA	0.5 % to 0.18 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Fluke 5502A by direct method	3.2 mA to 320 mA	0.13 % to 0.067 %
25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Fluke 5502A by direct method	320 µA to 3.2 mA	0.18 % to 0.13 %
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Fluke 5502A by direct method	320 mA to 10 A	0.067 % to 0.094 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Fluke 5502A by direct method	33 µA to 320 µA	0.5 % to 0.18 %



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

AIR WORKS CALIBRATION LABORATORY, AIR WORKS INDIA (ENGINEERING) PVT. LTD., MUMBAI, MAHARASHTRA, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2965

**Page No**

7 of 25

**Validity**

11/06/2020 to 13/03/2021\*

**Last Amended on**

-

\*The validity is extended for one year up to 13.03.2022

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1 kHz	Using Fluke 5502A by direct method	1 mV to 30 mV	2.76 % to 0.2 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1 kHz	Using Fluke 5502A by direct method	30 mV to 300 mV	0.2 % to 0.043 %
30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1 kHz	Using Fluke 5502A by direct method	30 V to 1000 V	0.038 % to 0.061 %
31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1 kHz	Using Fluke 5502A by direct method	300 mV to 30 V	0.043 % to 0.038 %
32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50Hz	Using Fluke 5502A by direct method	1 mV to 30 mV	2.94 % to 0.2 %



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

AIR WORKS CALIBRATION LABORATORY, AIR WORKS INDIA (ENGINEERING) PVT. LTD., MUMBAI, MAHARASHTRA, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2965

**Page No**

8 of 25

**Validity**

11/06/2020 to 13/03/2021\*

**Last Amended on**

-

\*The validity is extended for one year up to 13.03.2022

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
33	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50Hz	Using Fluke 5502A by direct method	30 mV to 300 mV	0.2 % to 0.043 %
34	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50Hz	Using Fluke 5502A by direct method	30 V to 1000 V	0.038 % to 0.061 %
35	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50Hz	Using Fluke 5502A by direct method	300 mV to 30 V	0.043 % to 0.038 %
36	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance (1 kHz)	Using Fluke 5502A by direct method	1 nF to 3 nF	1.86 % to 0.98 %
37	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance (1 kHz)	Using Fluke 5502A by direct method	10 µF to 1 mF	0.42 % to 1.27 %



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

AIR WORKS CALIBRATION LABORATORY, AIR WORKS INDIA (ENGINEERING) PVT. LTD., MUMBAI, MAHARASHTRA, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2965

**Page No**

9 of 25

**Validity**

11/06/2020 to 13/03/2021\*

**Last Amended on**

-

\*The validity is extended for one year up to 13.03.2022

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
38	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance (1 kHz)	Using Fluke 5502A by direct method	10 mF to 30 mF	0.428 % to 0.659 %
39	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance (1 kHz)	Using Fluke 5502A by direct method	3 nF to 100 nF	0.98 % to 0.42 %
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	1 A to 10 A	0.085 % to 0.20 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	10 µA to 100 mA	0.36 % to 0.065 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	100 mA to 1 A	0.065 % to 0.085 %



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

AIR WORKS CALIBRATION LABORATORY, AIR WORKS INDIA (ENGINEERING) PVT. LTD., MUMBAI, MAHARASHTRA, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2965

**Page No**

10 of 25

**Validity**

11/06/2020 to 13/03/2021\*

**Last Amended on**

-

\*The validity is extended for one year up to 13.03.2022

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	1 mV to 100 mV	0.45 % to 0.045 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	10 V to 1000 V	0.005 % to 0.007 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	100 mV to 10 V	0.045 % to 0.005 %
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	1 M Ohm to 10 M Ohm	0.013 % to 0.048 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	1 Ohm to 10 Ohm	0.36 % to 0.046 %



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

AIR WORKS CALIBRATION LABORATORY, AIR WORKS INDIA (ENGINEERING) PVT. LTD., MUMBAI, MAHARASHTRA, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2965

**Page No**

11 of 25

**Validity**

11/06/2020 to 13/03/2021\*

**Last Amended on**

-

\*The validity is extended for one year up to 13.03.2022

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	10 M Ohm to 100 M ohm	0.048 % to 0.94 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	10 Ohm to 100 Ohm	0.046 % to 0.016 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	100 M ohm to 1 G Ohm	0.94 % to 2.30 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	100 Ohm to 1 M ohm	0.016 % to 0.013 %
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Fluke 5502A by direct method	10 µA to 320 µA	0.26 % to 0.025 %



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

AIR WORKS CALIBRATION LABORATORY, AIR WORKS INDIA (ENGINEERING) PVT. LTD., MUMBAI, MAHARASHTRA, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2965

**Page No**

12 of 25

**Validity**

11/06/2020 to 13/03/2021\*

**Last Amended on**

-

\*The validity is extended for one year up to 13.03.2022

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Fluke 5502A by direct method	10 A to 20 A	0.075 % to 0.12 %
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Fluke 5502A+50 turn current coil by direct method	100 A to 1000 A	0.47 % to 0.65 %
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Fluke 5502A by direct method	2.9 A to 10 A	0.046 % to 0.075 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Fluke 5502A by direct method	320 $\mu$ A to 320 mA	0.025 % to 0.014 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Fluke 5502A by direct method	320 mA to 2.9 A	0.014 % to 0.046 %



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

AIR WORKS CALIBRATION LABORATORY, AIR WORKS INDIA (ENGINEERING) PVT. LTD., MUMBAI, MAHARASHTRA, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2965

**Page No**

13 of 25

**Validity**

11/06/2020 to 13/03/2021\*

**Last Amended on**

-

\*The validity is extended for one year up to 13.03.2022

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Fluke 5502A by direct method	1 mV to 10 mV	0.74 % to 0.089 %
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Fluke 5502A by direct method	10 mV to 320 mV	0.089 % to 0.008 %
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Fluke 5502A by direct method	3.2 V to 1000 V	0.006 % to 0.01 %
61	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Fluke 5502A by direct method	320 mV to 3.2 V	0.008 % to 0.006 %
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Insulation Resistance (n steps of 1-2-5-10)	Using Standard High Resistance box	100 kOhm to 1000 MOhm	1.32 % to 1.39 %



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

AIR WORKS CALIBRATION LABORATORY, AIR WORKS INDIA (ENGINEERING) PVT. LTD., MUMBAI, MAHARASHTRA, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2965

**Page No**

14 of 25

**Validity**

11/06/2020 to 13/03/2021\*

**Last Amended on**

-

\*The validity is extended for one year up to 13.03.2022

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Fluke 5502A by direct method	1 MOhm to 50 MOhm	0.019 % to 0.58 %
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Fluke 5502A by direct method	1 Ohm to 100 Ohm	0.71 % to 0.015 %
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Fluke 5502A by direct method	100 kOhm to 1 MOhm	0.015 % to 0.019 %
66	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Fluke 5502A by direct method	100 Ohm to 100 kOhm	0.015%
67	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple K-Type	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	120 °C to 1370 °C	0.20 °C to 0.47 °C



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

AIR WORKS CALIBRATION LABORATORY, AIR WORKS INDIA (ENGINEERING) PVT. LTD., MUMBAI, MAHARASHTRA, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2965

**Page No**

15 of 25

**Validity**

11/06/2020 to 13/03/2021\*

**Last Amended on**

-

\*The validity is extended for one year up to 13.03.2022

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
68	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple K-Type	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	-50 °C to 120 °C	0.32 °C to 0.19 °C
69	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple K-type	Using Fluke 5502A by direct method	120 °C to 1370 °C	0.20 °C to 0.47 °C
70	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple K-type	Using Fluke 5502A by direct method	-50 °C to 120 °C	0.22 °C to 0.20 °C
71	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	10 Hz to 1 MHz	0.058 % to 0.012 %
72	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Stop Watch	Using Digital Stop Watch by comparison Method	1 min to 1 hrs	0.63 s to 5.08 s



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

AIR WORKS CALIBRATION LABORATORY, AIR WORKS INDIA (ENGINEERING) PVT. LTD., MUMBAI, MAHARASHTRA, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2965

**Page No**

16 of 25

**Validity**

11/06/2020 to 13/03/2021\*

**Last Amended on**

-

\*The validity is extended for one year up to 13.03.2022

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
73	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Fluke 5502A by direct method	10 Hz to 120 Hz	0.06 % to 0.006 %
74	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Fluke 5502A by direct method	120 Hz to 100 kHz	0.008 % to 0.009 %
75	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Measuring Pins	Using External Micrometer	0.1 mm to 5 mm	2µm
76	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.:0.001 mm)	Using Slip gauge set	0 to 25 mm	1.5µm
77	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using External Micrometer by comparison method	0.03 mm to 1 mm	2µm



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

AIR WORKS CALIBRATION LABORATORY, AIR WORKS INDIA (ENGINEERING) PVT. LTD., MUMBAI, MAHARASHTRA, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2965

**Page No**

17 of 25

**Validity**

11/06/2020 to 13/03/2021\*

**Last Amended on**

-

\*The validity is extended for one year up to 13.03.2022

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
78	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (L.C.:0.01 mm)	Using Caliper Checker and surface plate	0 to 300 mm	11.50µm
79	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper (L.C. 0.01 mm)	Using Caliper Checker	0 to 300 mm	12.0µm
80	MECHANICAL-PRESSURE INDICATING DEVICES	Analog and Digital Vacuum gauges, Transducers, Transmitters	Using Digital Pressure Calibrator as per DKD R-6-1 by comparison Method	-0.95 bar to 0	0.015bar
81	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure: Analog and Digital Pressure Gauge, Pressure Transducer, Pressure Transmitter	Using Digital Pressure Calibrator as per DKD R-6-1	0 to 1000 bar	0.77bar
82	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Analog and Digital Pressure gauges, Pressure Transducers, Pressure Transmitters	Using Digital Pressure Calibrator as per DKD R-6-1 by comparison method	0 to 40 bar	0.038bar



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

AIR WORKS CALIBRATION LABORATORY, AIR WORKS INDIA (ENGINEERING) PVT. LTD., MUMBAI, MAHARASHTRA, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2965

**Page No**

18 of 25

**Validity**

11/06/2020 to 13/03/2021\*

**Last Amended on**

-

\*The validity is extended for one year up to 13.03.2022

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
83	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrenches (Type I & II)	Using Manual Torque Wrench Calibration system as per IS 16906	10 Nm to 1000 Nm	1.21%
84	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrenches (Type I & II)	Using Manual Torque Wrench Calibration system as per IS 16906	2 Nm to 10 Nm	1.50%
85	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance	Using F1 class weights as per IS 1702	0 to 100 kg	14g



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

AIR WORKS CALIBRATION LABORATORY, AIR WORKS INDIA (ENGINEERING) PVT. LTD., MUMBAI, MAHARASHTRA, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2965

**Page No**

19 of 25

**Validity**

11/06/2020 to 13/03/2021\*

**Last Amended on**

-

\*The validity is extended for one year up to 13.03.2022

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 1 kHz	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	1 A to 10 A	0.10 % to 0.25 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 1 kHz	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	100 mA to 1 A	0.17 % to 0.10 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 1 kHz	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	30 µA to 100 mA	0.30 % to 0.17 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	1 A to 10 A	0.10 % to 0.25 %



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

AIR WORKS CALIBRATION LABORATORY, AIR WORKS INDIA (ENGINEERING) PVT. LTD., MUMBAI, MAHARASHTRA, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2965

**Page No**

20 of 25

**Validity**

11/06/2020 to 13/03/2021\*

**Last Amended on**

-

\*The validity is extended for one year up to 13.03.2022

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	100 mA to 1 A	0.17 % to 0.10 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	30 µA to 100 mA	0.30 % to 0.17 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	1 mV to 10 mV	4.75 % to 0.55 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	10 mV to 10 V	0.55 % to 0.10 %



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

AIR WORKS CALIBRATION LABORATORY, AIR WORKS INDIA (ENGINEERING) PVT. LTD., MUMBAI, MAHARASHTRA, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2965

**Page No**

21 of 25

**Validity**

11/06/2020 to 13/03/2021\*

**Last Amended on**

-

\*The validity is extended for one year up to 13.03.2022

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	10 V to 1000 V	0.10 % to 0.12 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	10 mV to 10 V	0.55 % to 0.10 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	10 V to 1000 V	0.10 % to 0.12 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance (1 kHz)	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	1 nF to 10 nF	5.2 % to 1.73 %



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

AIR WORKS CALIBRATION LABORATORY, AIR WORKS INDIA (ENGINEERING) PVT. LTD., MUMBAI, MAHARASHTRA, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2965

**Page No**

22 of 25

**Validity**

11/06/2020 to 13/03/2021\*

**Last Amended on**

-

\*The validity is extended for one year up to 13.03.2022

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance (1 kHz)	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	10 mF to 100 mF	1.9 % to 5.1 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance (1 kHz)	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	10 nF to 10 mF	1.73 % to 1.9 %
15	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	1 A to 10 A	0.085 % to 0.20 %
16	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	10 µA to 100 mA	0.36 % to 0.065 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	100 mA to 1 A	0.065 % to 0.085 %



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

AIR WORKS CALIBRATION LABORATORY, AIR WORKS INDIA (ENGINEERING) PVT. LTD., MUMBAI, MAHARASHTRA, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2965

**Page No**

23 of 25

**Validity**

11/06/2020 to 13/03/2021\*

**Last Amended on**

-

\*The validity is extended for one year up to 13.03.2022

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
18	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	1 mV to 100 mV	0.45 % to 0.045 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	10 V to 1000 V	0.005 % to 0.007 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	100 mV to 10 V	0.045 % to 0.005 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	1 M Ohm to 10 M Ohm	0.013 % to 0.048 %
22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	1 Ohm to 10 Ohm	0.36 % to 0.046 %



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

AIR WORKS CALIBRATION LABORATORY, AIR WORKS INDIA (ENGINEERING) PVT. LTD., MUMBAI, MAHARASHTRA, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2965

**Page No**

24 of 25

**Validity**

11/06/2020 to 13/03/2021\*

**Last Amended on**

-

\*The validity is extended for one year up to 13.03.2022

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	10 M Ohm to 100 M ohm	0.048 % to 0.94 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	10 Ohm to 100 Ohm	0.046 % to 0.016 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	100 M ohm to 1 G Ohm	0.94 % to 2.30 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	100 Ohm to 1 M ohm	0.016 % to 0.013 %
27	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple K-Type	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	120 °C to 1370 °C	0.20 °C to 0.47 °C



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

AIR WORKS CALIBRATION LABORATORY, AIR WORKS INDIA (ENGINEERING) PVT. LTD., MUMBAI, MAHARASHTRA, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2965

**Page No**

25 of 25

**Validity**

11/06/2020 to 13/03/2021\*

**Last Amended on**

-

\*The validity is extended for one year up to 13.03.2022

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
28	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple K-Type	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	-50 °C to 120 °C	0.32 °C to 0.19 °C
29	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Standard Multimeter Fluke 8846A by Direct Method	10 Hz to 1 MHz	0.058 % to 0.012 %
30	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability 0.001 kg) (Class III & Coarser)	Using F1 class weight as per OIML R-76-1	0 to 15 kg	1.3g
31	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability 0.01 kg) (Class III&coarser)	Using F1 Class weights as per OIML R-76-1	0 to 100 kg	14g

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