National Accreditation Board for Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. 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

5L/123, N.I.T, FARIDABAD, HARYANA, INDIA

in the field of

CALIBRATION

Certificate Number: CC-2733

Issue Date: 28/06/2023 **Valid Until:** 27/06/2025

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 : Belz Instruments Private Limited

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 :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	1 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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) (Measure)	AC Current (50 Hz/60 Hz)	Using 6½ digital multimeter by direct method	100 mA to 10 A	0.2 % to 0.25 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (50 Hz/60 Hz)	Using 6½ digital multimeter by direct method	50 µA to 100 mA	0.4 % to 0.2 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Current (50 Hz)	Using 6½ DMM & Current Transformer by direct method	10 A to 1000 A	1.3 % to 0.65 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage (50 kHz)	Using HV probe with DMM & AC High voltage source by direct method	1 kV to 28 kV	2.4%

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	2 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Resistance (1kHz)	Using LCR Meter by direct method	1 Ohm to 100 kohm	0.23%
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (50 Hz/60 Hz)	Using 6½ DMM By Direct Method	10 mV to 10 V	0.53 % to 0.12 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (50 Hz/60 Hz)	Using 6½ DMM By Direct Method	10 V to 1000 V	0.12 % to 0.18 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance (1 kHz)	Using LCR Meter by direct method	1 nF to 1 µF	0.2%
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Frequency	Using 6½ DMM by direct method	10 Hz to 1 MHz	0.06%

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	3 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance (1kHz)	Using LCR Meter by direct/ Comparison method	100 µH to 1 H	0.45 % to 0.8 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (50 Hz)	Using multifunction calibrator with current coil by direct method	20 A to 1000 A	0.31 % to 0.90 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (50Hz/ 60Hz)	Using multifunction calibrator by Direct Method	300 mA to 20 A	0.2 % to 0.31 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (50Hz/60Hz)	Using multifunction calibrator by Direct Method	50 µA to 300 mA	0.8 % to 0.2 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power (Active Power 1ø) (1 W to 12 kW) (50 Hz)	Using multifunction calibrator by direct method	0.5 Lag to 0.5 Lead 10 V to 640 V & 1 A to 19 A UPF 240 V 0.1 to 1 A	0.41 % to 0.84 %

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	4 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (50Hz/60Hz)	Using multifunction calibrator by direct method	10 mV to 300 mV	1.16 % to 0.2 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (50Hz/60Hz)	Using multifunction calibrator by direct method	100 V to 1000 V	0.08%
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (50Hz/60Hz)	Using multifunction calibrator by direct method	300 mV to 100 V	0.2 % to 0.08 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1kHz	Using multifunction calibrator by direct method	1 nF to 100 µF	7.2 % to 1.5 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ DMM By Direct Method	1 µA to 10 mA	3.0 % to 0.08 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ DMM By Direct Method	10 mA to 3 A	0.08 % to 0.16 %

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	5 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ DMM By Direct Method	3 A to 10 A	0.16 % to 0.2 %
22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Current	Using 6½ DMM & 900 A / 75 mV Shunt by direct method	10 A to 750 A	1.0%
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with DMM & DC high voltage source by direct method	1 kV to 37 kV	1.7 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ DMM By Direct Method	1 mV to 100 mV	0.5 % to 0.01 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ DMM By Direct/Comparison Method	10 V to 1000 V	0.06 % to 0.02 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ DMM By Direct Method	100 mV to 10 V	0.01 % to 0.06 %

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	6 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 6½ DMM by direct method	1 Mohm to 100 Mohm	0.13 % to 0.9 %
28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 6½ DMM By Direct Method	10 ohm to 1 Mohm	0.06 % to 0.13 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 6½ DMM by direct method	100 Mohm to 1 Gohm	0.9 % to 2.36 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 Wire)	Using Micro Ohm Meter & Low Resistance Standard By Direct Method	1 ohm to 10 ohm	0.6 % to 0.05 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 Wire)	Using Micro Ohm Meter & Low Resistance Standard By Direct Method	100 µohm to 1 ohm	1 % to 0.6 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using multifunction calibrator by direct method	1 µA to 300 mA	1.35 % to 0.03 %

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	7 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using multifunction calibrator with current coil by direct method	20 A to 1000 A	0.12 % to 0.70 %
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using multifunction calibrator by direct method	300 mA to 20 A	0.03 % to 0.12 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power (10 V to 1000 V & 1 A to 19 A)	Using multifunction calibrator by direct method	10 W to 19 kW	0.31%
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using multifunction calibrator by direct method	1 mV to 300 mV	0.75 % to 0.01 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using multifunction calibrator by direct method	300 mV to 300 V	0.01 % to 0.03 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using multifunction calibrator by direct method	300 V to 1000 V	0.03 % to 0.014 %

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	8 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire)	Using high resistance box by direct method	1 Gohm	2.5%
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire)	Using high resistance box by direct method	1 Tohm	2.5%
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire)	Using high resistance box by direct method	10 Gohm	2.5%
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire)	Using high resistance box by direct method	100 Gohm	2.5%
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire)	Using high resistance box by direct method	200 Gohm	2.5%
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire)	Using high resistance box by direct method	500 Gohm	2.5%

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	9 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire)	Using high resistance box by direct method	500 Mohm	2.5%
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using low resistance box (fixed value) by direct method	0.001 ohm	0.2%
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using low resistance box (fixed value) by direct method	0.01 ohm	0.2%
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using low resistance box (fixed value) by direct method	0.1 ohm	0.13%
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using low resistance box (fixed value) by direct method	1 ohm	0.13%
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using low resistance box (fixed value) by direct method	100 µohm	0.3%

SCOPE OF ACCREDITATION

Laboratory Name : BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2733 **Page No** 10 of 99

Validity 28/06/2023 to 27/06/2025 **Last Amended on** 24/08/2023

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)(±)
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using low resistance box (fixed value) by direct method	50 µohm	1.26%
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using multifunction calibrator by direct method	1 ohm to 4 Mohm	0.36 % to 0.07 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using multifunction calibrator by direct method	4 Mohm to 40 Mohm	0.07 % to 0.18 %
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using multifunction calibrator by direct method	40 Mohm to 400 Mohm	0.18 % to 0.32 %
55	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	AC Active Energy (1 Phase & 3 phase, 0.5 Lag to UPF to 0.5 Lead PF, Voltage: 63.5V/ 50Hz Current: 0.1A to 5 A)	Using reference portable three phase power meter by Comparison Method	3.17 Wh to 952.5 Wh	1.2 %

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	11 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
56	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	AC Active Energy (Single phase and 3 phase 0.5 Lag to UPF to 0.5 Lead PF, Voltage: 63.5 V/ 50Hz, clamp on CT: 0.1A to 100 A)	Using reference portable three phase power meter by Comparison Method	3.17 Wh to 1.9 kWh	1.2 %
57	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	AC Active Energy (Single phase and 3 phase, 0.5 Lag to UPF to 0.5 Lead PF, Voltage: 240V / 50Hz, Current: 0.1A to 5 A)	Using reference portable three phase power meter by Comparison Method	12 Wh to 3600 Wh	1.2 %
58	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	AC Active Energy (Single phase and 3 phase, 0.5 Lag to UPF to 0.5 Lead PF, Voltage: 240V/ 50Hz, Clamp on CT: 0.1A to 100A)	Using reference portable three phase power meter by Comparison Method	12 Wh to 72 kWh	1.2 %
59	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Single Phase Power (UPF to 0.5 Lag/Lead PF, Voltage: 63.5 V/ 50Hz, Current: 0.1A to 5 A)	Using reference portable three phase power meter by Comparison Method	3.17 W to 317 W	0.28 %
60	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Single Phase Power (UPF to 0.5 Lag/Lead PF, Voltage: 240 V / 50Hz, Current: 0.1A to 5A)	Using reference portable three phase power meter by Comparison Method	12 W to 1.2 kW	0.28 %

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	12 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
61	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Single Phase Power Clamp on CT (UPF to 0.5 Lag/Lead PF, Voltage: 240 V / 50Hz, Current: 0.1A to 100 A)	Using reference portable three phase power meter by Comparison Method	12 W to 24 kW	0.28 %
62	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Single Phase Power Clamp on CT (UPF to 0.5 Lag/Lead PF, Voltage: 63.5 V / 50Hz, Current: 0.1A to 100A)	Using reference portable three phase power meter by Comparison Method	3.17 W to 6.3 kW	0.28 %
63	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Three Phase Power (UPF to 0.5 Lag/Lead PF, Voltage: 240 V / 50Hz, Current: 0.1A to 5A)	Using reference portable three phase power meter by Comparison Method	36 W to 3.6 kW	0.28 %
64	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Three Phase Power (UPF to 0.5 Lag/Lead PF, Voltage: 63.5 V / 50Hz, Current: 0.1A to 5A)	Using reference portable three phase power meter by Comparison Method	9.5 W to 952 W	0.28 %
65	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Three Phase Power clamp on CT (UPF to 0.5 Lag/Lead PF, Voltage: 240 V / 50Hz, Current: 0.1A to 100 A)	Using reference portable three phase power meter by Comparison Method	36 W to 72 kW	0.28 %

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	13 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
66	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Three Phase Power clamp on CT (UPF to 0.5 Lag/Lead PF, Voltage: 63.5V / 50Hz, Current: 0.1A to 100 A)	Using reference portable three phase power meter by Comparison Method	9.5 W to 19 kW	0.28 %
67	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Amplitude(Deflection Factor) 1 kHz / 1 MegaOhm	Using multifunction calibrator by direct method	5 mV to 120 V	1.0%
68	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Bandwidth	Using multifunction calibrator by direct method	1 kHz to 250 MHz	5.0%
69	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Sin/Square (DC)	Using multifunction calibrator by direct method	50 kHz to 20 Mhz , 50 Ohm, 20 mV to 2.5 V	1.0%
70	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Time Base (Marker)	Using multifunction calibrator by direct method	10 ns to 5 s	0.5%

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	14 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
71	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Temperature source, Indicator/Controller/ Recorder) ('B' type T/C)	Using Super DAQ Precision Temperature Scanner by direct method	600 °C to 1700 °C	0.18 °C
72	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Temperature source, Indicator/Controller/ Recorder) ('E' type T/C)	Using Super DAQ Precision Temperature Scanner by direct method	-100 °C to 600 °C	0.11°C
73	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Temperature source, Indicator/Controller/ Recorder) ('J' type T/C)	Using Super DAQ Precision Temperature Scanner by direct method	-200 °C to 1200 °C	0.10°C
74	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Temperature source, Indicator/Controller/ Recorder) ('K' type T/C)	Using Super DAQ Precision Temperature Scanner by direct method	50 °C to 1300 °C	0.35°C

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	15 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
75	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Temperature source, Indicator/Controller/ Recorder) ('N' type T/C)	Using Super DAQ Precision Temperature Scanner by direct method	-200 °C to 1300 °C	0.11°C
76	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Temperature source, Indicator/Controller/ Recorder) ('R' type T/C)	Using Super DAQ Precision Temperature Scanner by direct method	600 °C to 1700 °C	0.13°C
77	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Temperature source, Indicator/Controller/ Recorder) ('S' type T/C)	Using Super DAQ Precision Temperature Scanner by direct method	50 °C to 1700 °C	0.12°C
78	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Temperature source, Indicator/Controller/ Recorder) ('T' type T/C)	Using Super DAQ Precision Temperature Scanner by direct method	-200 °C to 400 °C	0.09°C

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	16 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
79	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Temperature source, Indicator/Controller/ Recorder) (RTD)	Using Super DAQ Precision Temperature Scanner by direct method	-200 °C to 800 °C	0.07°C
80	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Controller/ Recorder) ('B' Type T/C)	Using Multifunction Calibrator by Direct method	600 °C to 1700 °C	0.44°C
81	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Controller/ Recorder) ('E' Type T/C)	Using Multifunction Calibrator by Direct method	-100 °C to 600 °C	0.11°C
82	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Controller/ Recorder) ('J' Type T/C)	Using Multifunction Calibrator by Direct method	-200 °C to 1200 °C	0.12°C
83	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Controller/ Recorder) ('K' Type T/C)	Using Multifunction Calibrator by Direct method	-200 °C to 1300 °C	0.32°C

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	17 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
84	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Controller/ Recorder) ('N' Type T/C)	Using Multifunction Calibrator by Direct method	-200 °C to 1300 °C	0.11°C
85	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Controller/ Recorder) ('R' Type T/C)	Using Multifunction Calibrator by Direct method	0 °C to 1700 °C	0.15°C
86	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Controller/ Recorder) ('S' Type T/C)	Using Multifunction Calibrator by Direct method	0 to 1700 °C	0.12°C
87	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Controller/ Recorder) ('T' Type T/C)	Using Multifunction Calibrator by Direct method	-200 °C to 400 °C	0.10°C
88	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Controller/ Recorder) (RTD)	Using Multifunction Calibrator by Direct method	-200 °C to 800 °C	0.4°C
89	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer / Stop Watch (Digital /Analog)	Using Digital Timer by direct method	14400 s (4 hour)	0.23s

SCOPE OF ACCREDITATION

Laboratory Name : BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2733 **Page No** 18 of 99

Validity 28/06/2023 to 27/06/2025 **Last Amended on** 24/08/2023

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)(±)
90	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer / Stop Watch (Digital /Analog)	Using Digital Timer by direct method	60 s	0.006s
91	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer / Stop Watch (Digital /Analog)	Using Digital Timer by direct method	600 s	0.02s
92	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer / Stop Watch (Digital /Analog)	Using Digital Timer by direct method	7200 s (2 hour)	0.2s
93	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer / Stop Watch (Digital/ Analog)	Using Digital Timer by direct method	1 s	0.003s
94	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer / Stop Watch (Digital/ Analog)	Using Digital Timer by direct method	100 ms	0.003 s
95	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer / Stop Watch (Digital/ Analog)	Using Digital Timer by direct method	1800 s	0.04s

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	19 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
96	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer / Stop Watch (Digital/ Analog)	Using Digital Timer by direct method	3600 s (1 hour)	0.07s
97	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer / Stop Watch (Digital/ Analog)	Using Digital Timer by direct method	86400 s (24 hour)	3s
98	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using multifunction calibrator by direct method	10 Hz to 10 MHz	0.07 % to 0.008 %
99	FLUID FLOW-FLOW MEASURING DEVICES	Air Flow rate - (rotameter /flow meter/ flow measuring equipments)	Using Orifice Flow Calibrator (medium- air /gases) by comparison method	50 SLM to 250 SLM	1.03 % rdg to 0.17 % rdg
100	FLUID FLOW-FLOW MEASURING DEVICES	Air Flow rate- (rotameter /flow meter/ flow measuring equipments)	Using laminar flow calibration system (medium- air /gases) by comparison method	1 SLM to 5 SLM	1.40% rdg
101	FLUID FLOW-FLOW MEASURING DEVICES	Air Flow rate- (rotameter/flow meter/ flow measuring equipments)	Using laminar flow calibration system (medium- air /gases) by comparison method	>5 SLM to 50 SLM	0.86%

SCOPE OF ACCREDITATION

Laboratory Name : BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2733 **Page No** 20 of 99

Validity 28/06/2023 to 27/06/2025 **Last Amended on** 24/08/2023

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)(±)
102	FLUID FLOW-FLOW MEASURING DEVICES	Velocity (Medium Air)	Using Hot Wire Anemometer & L-type Pitot Tube with Indicator using comparison method	0.5 m/s to 1 m/s	9.2 % rdg to 3.8 % rdg
103	FLUID FLOW-FLOW MEASURING DEVICES	Velocity (Medium Air)	Using Hot Wire Anemometer & L-type Pitot Tube with Indicator using comparison method	1 m/s to 5 m/s	3.8 % rdg to 1.5 % rdg
104	FLUID FLOW-FLOW MEASURING DEVICES	Velocity (Medium Air)	Using Hot Wire Anemometer & L-type Pitot Tube with Indicator using comparison method	5 m/s to 20 m/s	1.5% rdg
105	MECHANICAL-ACCELERATION AND SPEED	Contact type rpm (tachometer/ centrifuge & rpm measurement of equipments)	Using standard digital tachometer & RPM source by comparison method	10 rpm to 100 rpm	2.6% rdg.
106	MECHANICAL-ACCELERATION AND SPEED	Contact type rpm (tachometer/ centrifuge & rpm measurement of equipments)	Using standard digital tachometer & RPM source by comparison method	100 rpm to 1000 rpm	0.28% rdg.
107	MECHANICAL-ACCELERATION AND SPEED	Contact type rpm (tachometer/ centrifuge & rpm measurement of equipments)	Using standard digital tachometer & RPM source by comparison method	1000 rpm to 5000 rpm	0.17% rdg.

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	21 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
108	MECHANICAL-ACCELERATION AND SPEED	Contact type rpm (tachometer/ centrifuge & rpm measurement of equipments)	Using standard digital tachometer & RPM source by comparison method	5000 rpm to 10000 rpm	0.04% rdg.
109	MECHANICAL-ACCELERATION AND SPEED	Contact type rpm (tachometer/ centrifuge & rpm measurement of equipments)	Using standard digital tachometer & RPM source by comparison method	6 rpm to 10 rpm	4.37% rdg.
110	MECHANICAL-ACCELERATION AND SPEED	Non contact type rpm (stroboscope / pulse engine tachometer, digital tachometer, centrifuge & rpm measurement of equipments)	Using standard digital tachometer & RPM source by comparison method	10 rpm to 100 rpm	3.93% rdg.
111	MECHANICAL-ACCELERATION AND SPEED	Non contact type rpm (stroboscope / pulse engine tachometer, digital tachometer, centrifuge & rpm measurement of equipments)	Using standard digital tachometer & RPM source by comparison method	6 rpm to 10 rpm	5.84% rdg.

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	22 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
112	MECHANICAL-ACCELERATION AND SPEED	Non contact type rpm (stroboscope / pulse engine tachometer, digital tachometer, centrifuge & rpm measurement of equipments)	Using standard digital tachometer & RPM source by comparison method	100 rpm to 1000 rpm	0.35% rdg.
113	MECHANICAL-ACCELERATION AND SPEED	Non contact type rpm (stroboscope / pulse engine tachometer, digital tachometer, centrifuge & rpm measurement of equipments)	Using standard digital tachometer & RPM source by comparison method	1000 rpm to 10000 rpm	0.09% rdg.
114	MECHANICAL-ACCELERATION AND SPEED	Non contact type rpm (stroboscope / pulse engine tachometer, digital tachometer, centrifuge & rpm measurement of equipments)	Using standard digital tachometer & RPM source by comparison method	10000 rpm to 50000 rpm	0.02% rdg.

SCOPE OF ACCREDITATION

Laboratory Name : BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2733 **Page No** 23 of 99

Validity 28/06/2023 to 27/06/2025 **Last Amended on** 24/08/2023

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)(±)
115	MECHANICAL-ACCELERATION AND SPEED	Non contact type rpm (stroboscope / pulse engine tachometer, digital tachometer, centrifuge & rpm measurement of equipments)	Using standard digital tachometer & RPM source by comparison method	50000 rpm to 100000 rpm	0.01% rdg.
116	MECHANICAL-ACOUSTICS	Sound Level meter (1 kHz)	Using sound level calibrator by direct method	114 dB	0.45dB
117	MECHANICAL-ACOUSTICS	Sound Level meter (1kHz)	Using sound level calibrator by direct method	94 dB	0.45 dB
118	MECHANICAL-DENSITY AND VISCOSITY	Density Hydrometers, Lactometers	Using standard hydrometers & compatible liquids by comparison method as per IS 3104	0.6 g/ml to 1.8 g/ml	0.0015g/ml
119	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate (Squarness of Exterior Faces over Width H)	Using slip gauge grade ‘0’, master cylinder & surface plate by comparison method	Upto 300 mm	10 µm

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	24 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
120	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate (Flatness)	Using Surface plate and Dial test indicator by comparison method	Upto 300 mm	4.6 µm
121	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate (Parallelism)	Using Surface plate and Dial test indicator by comparison method	Upto 300 mm	4.9 µm
122	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate (Squareness of end Faces w.r.t exterior faces over total length L)	Using slip gauge grade ‘0’, master cylinder & surface plate by comparison method	Upto 300 mm	10 µm
123	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre (Parallelism)	Using test mandrel & dial test indicator by comparison method	upto 300 mm	10.0 µm
124	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre (Coaxiality)	Using test mandrel & dial test indicator by comparison method	up to 300 mm	10 µm

SCOPE OF ACCREDITATION

Laboratory Name : BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2733 **Page No** 25 of 99

Validity 28/06/2023 to 27/06/2025 **Last Amended on** 24/08/2023

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)(±)
125	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel protractor (L.C: 5 min) / Combination set (L.C: 1°)	Using slip gauge set grade 0, sine bar & master cylinder & angle gauge set by comparison method	0° to 90° to 0°	5.0 min of arc
126	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C: 0.1 µm)	Using standard foils by comparison method	10 µm to 250 µm	2.2µm
127	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C: 1 µm)	Using standard foils by comparison method	10 µm to 1500 µm	5.0 µm
128	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand - Flatness	Using electronic level by comparison method	300 mm X 300 mm	1.2Sq. Root (L+W)/ 150 ,Where L & W are in mm
129	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand - Flatness	Using dial test indicator	300 x 300 mm to mm	4.7µm

SCOPE OF ACCREDITATION

Laboratory Name : BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2733 **Page No** 26 of 99

Validity 28/06/2023 to 27/06/2025 **Last Amended on** 24/08/2023

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)(±)
130	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cube Mould	Using Digital Caliper by Comparison Method	20 mm to 300 mm	26.5µm
131	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Caliper / Depth Gauge (L.C : 0.01 mm)	Using slip gauge set grade ‘0’, long gauge blocks & caliper checker by comparison method	0 to 300 mm	7.5 µm
132	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer (L.C : 0.01 mm)	Using slip gauge set grade‘0’, long gauge blocks & caliper checker by comparison method	0 to 300 mm	7.0 µm
133	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Bore Gauge (L.C.: 0.001 mm) Transmission Error)	Using single axis measuring machine by comparison method	0 to 1 mm	1.2 µm
134	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Calibrator Tester (L.C: 0.001 mm)	Using slip gauge grade '0' & electronic probe by comparison method	0 to 25 mm	1.0 µm

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	27 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
135	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge (L.C.: 0.001 mm)	Using single axis measuring machine by comparison method	0 to 100 mm	1.4µm
136	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Test Indicator (L.C.: 0.001 mm)	Using single axis measuring machine by comparison method	0 to 1.0 mm	1.3µm
137	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge (L.C.:0.001 mm)	Using slip gauge set grade ‘0’ by comparison method	0 to 50 mm	1.0 µm
138	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Level / Spirit level (Sensitivity 0.001mm/m)	Using electronic level & Level calibrator (tilting table with fine levelling screw jacks) by comparison method	+/-2 mm/m	3.7 µm/m

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	28 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
139	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Level / Spirit level (Sensitivity 0.01mm/m)	Using electronic level & Level calibrator (tilting table with fine leveling screw jacks) by comparison method	+/-200 mm/m	7.0 µm/m
140	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Level / Spirit level (Sensitivity 0.02 mm/m)	Using electronic level & Level calibrator (tilting table with fine leveling screw jacks) by comparison method	+/-100 mm/m	12.0 µm/m
141	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Probe (L.C: 0.1 µm)	Using slip gauge set grade '0' by comparison method	0 to 25 mm	0.6 µm
142	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineering Square/Right Angle (Flatness)	Using dial test indicator & surface plate by comparison method	upto 500 mm	5.7µm

SCOPE OF ACCREDITATION

Laboratory Name : BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2733 **Page No** 29 of 99

Validity 28/06/2023 to 27/06/2025 **Last Amended on** 24/08/2023

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)(±)
143	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineering Square/Right Angle (Perpendicularity)	Using Slip Gauge set Grade '0' & Master Cylinder by comparison method	upto 500 mm	5.0µm
144	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C: 0.001 mm)	Using slip gauge set grade ‘0’ by comparison method	0 to 100 mm	1.5 µm
145	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C: 0.001 mm)	Using slip gauge set grade ‘0’ & long gauge blocks by comparison method	100 mm to 150 mm	2.5 µm
146	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C: 0.001 mm)	Using slip gauge set grade ‘0’ & long gauge blocks by comparison method	150 mm to 300 mm	3.8 µm
147	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using single axis measuring machine by comparison method	0.01 to 1 mm	1.2µm

SCOPE OF ACCREDITATION

Laboratory Name : BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2733 **Page No** 30 of 99

Validity 28/06/2023 to 27/06/2025 **Last Amended on** 24/08/2023

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)(±)
148	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Foils	Using single axis measuring machine by comparison method	0.01 mm to 1.5 mm	1.2µm
149	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (L.C: 0.001 mm)	Using slip gauge set grade ‘0’ & caliper checker by comparison method	0 to 600 mm	6.0 µm
150	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (L.C: 0.01 mm)	Using slip gauge set grade ‘0’ & caliper checker, long gauge blocks by comparison method	0 to 1000 mm	12.8 µm
151	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Hole Test (Inside 3 Point Micrometer) (L.C. 0.001 mm)	Using master ring by comparison method	6 mm to 100 mm	1.95µm
152	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Dial Caliper (L.C. 0.01 mm)	Using slip gauge grade ‘0’ by comparison method	5 mm to 100 mm	5.8µm

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	31 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
153	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer (L.C: 0.001 mm)	Using slip gauge set grade ‘0’ & accessories set by comparison method	0 to 300 mm	4.0 µm
154	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Length Gauge / Setting Master / Length Bar / Micrometer Setting Rod / Height Setting Master	Using single axis measuring machine & long gauge block set by comparison method	100 mm to 600 mm	3.9µm
155	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Length Gauge/ Setting Master/ Length Bar / Micrometer Setting Rod/ Height Setting Master	Using single axis measuring machine by comparison method	0.5 mm to 100 mm	1.3 µm
156	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Magnetic V Block (Flatness)	Using dial test indicator & surface plate by comparison method	upto 150 mm	5.7 µm
157	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Magnetic V Block (Perpendicularity)	Using slip gauge grade '0', master cylinder & surface plate by comparison method	upto 150 mm	6.0 µm

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	32 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
158	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Magnetic V Block (Symmetricity Error)	Using dial test indicator, test mandrel & surface plate by comparison method	up to 150 mm	8.3 µm
159	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Magnetic V Block Parallelism of opposite face	Using dial test indicator, test mandrel & surface plate by comparison method	upto 150 mm	8.3µm
160	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Magnetic V Block Parallelism of V Flank	Using dial test indicator & surface plate by comparison method	upto 150 mm	5.7µm
161	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pin Gauge	Using single axis measuring machine by comparison method	0.5 mm to 20 mm	1.2 µm
162	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape (L.C.: 1 mm)	Using standard scale with DRO by comparison method	0 to 50 m	154 sq. root L µm, Where L is in m

SCOPE OF ACCREDITATION

Laboratory Name : BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2733 **Page No** 33 of 99

Validity 28/06/2023 to 27/06/2025 **Last Amended on** 24/08/2023

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)(±)
163	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using single axis measuring machine by comparison method	0.5 to 100 mm	1.2 µm
164	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using single axis measuring machine and long gauge blocks by comparison method	100 mm to 300 mm	1.68µm
165	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	Using single axis measuring machine and master ring gauge by comparison method	3 mm to 100 mm	1.8µm
166	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	Using single axis measuring machine and master ring gauge by comparison method	100 mm to 300 mm	2.6 µm
167	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge/ Radius Chart/ Radius Template/ Radius Measurement	Using profile projector by comparison method	0 to 100 mm	96 µm

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	34 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
168	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Receiving Gauge / Profile Gauge / Profile of Work Piece (Angle)	Using Profile Projector by comparison method	0 ° to 360 °	3'
169	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Receiving Gauge / Profile Gauge / Profile of Work Piece (Linear)	Using Profile Projector / Digital Caliper/ Digital Micrometer by Comparison Method	0 to 100 mm	10µm
170	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Scale & Tape Calibration Unit LC 0.001 mm	Using slip gauge set grade ‘0’ & long gauge blocks by comparison method	0 to 1000 mm	60 µm
171	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar (Centre Distance)	Using electronic probe & slip gauge set grade '0' by comparison method	up to 300 mm	4.00 µm
172	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar (Flatness)	Using electronic probe & surface plate by comparison method	up to 300 mm	3.80 µm

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	35 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
173	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar (Parallelism)	Using electronic probe & surface plate by comparison method	up to 300 mm	3.80 µm
174	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar (Setting Angle) Center Distance up to 300 mm	Using surface plate, angle gauge, electronic probe & slip gauge set grade '0' by comparison method	up to 45 °	6.2 s
175	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Centre (Centre Distance)	Using slip gauge block grade ‘0’ & dial test indicator by comparison method	up to 300 mm	3.8 µm
176	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Centre (Coaxiality of Dead center)	Using test mandrel & dial test indicator by comparison method	up to 300 mm	4.0 µm
177	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Centre (Parallelism of working surface)	Using electronic probe & surface plate by comparison method	up to 300 mm	4.0 µm

SCOPE OF ACCREDITATION

Laboratory Name : BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2733 **Page No** 36 of 99

Validity 28/06/2023 to 27/06/2025 **Last Amended on** 24/08/2023

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)(±)
178	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge / Gap Gauge	Using slip gauge set grade '0' by comparison method	1 mm to 150 mm	2.2 µm
179	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Standard Steel Ball	Using single axis measuring machine by comparison method	4 mm to 100 mm	1.4µm
180	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Steel Scale (L.C.: 1mm)	Using standard scale with DRO by comparison method	0 to 1000 mm	154 Sq. root L µm L is in meter
181	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge (Straightness)	Using surface plate & slip gauge set grade '0' by comparison method	Up to 1000 mm	3.4µm
182	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge (Parallelism)	Using surface plate & dial test indicator by comparison method	Upto 1000 mm	5.3 µm

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	37 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
183	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using electronic level by comparison method	6000 mm x 4000 mm	1.3 x Sq.root (L+W)/ 125where L & W are in mm
184	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Mandrel (Lack of trueness of rotation between centers)	Using sine centre & dial test indicator by comparison method	up to 300 mm	16µm
185	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Mandrel (Variation in diameter)	Using sine centre & dial test indicator by comparison method	up to 300 mm	2.4µm
186	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves (Aperture Size)	Using digital caliper by comparison method	4 mm to 50 mm	20 µm
187	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves (Aperture Size)	Using digital caliper by comparison method	50 mm to 125 mm	30 µm

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	38 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
188	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves (Aperture Size & Wire Diameter)	Using profile projector by comparison method	0.032 to 4.0 mm	6.2 µm
189	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge - pitch & flank angle	Using profile projector by comparison method	0.40 mm to 7.0 mm	Length: 7.0 µm, Angle: 3.0 min of arc
190	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (effective diameter)	Using single axis measuring machine, thread measuring wire & long gauge block set by comparison method	100 mm to 300 mm	3.1µm
191	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (effective diameter)	Using single axis measuring machine and thread measuring wire by comparison method	3 mm to 100 mm	2.8µm
192	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Effective Dia Only)	Using single axis measuring machine & master ring by comparison method	4 mm to 100 mm	3.4µm

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	39 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
193	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Three Wire Unit	Using single axis measuring machine by comparison method	0.17 mm to 4 mm	1.2 µm
194	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge LC 0.1 mm	Using slip gauge set grade '0' by comparison method	0 mm to 100 mm	57.8µm
195	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier / Dial / Digimatic Caliper (L.C : 0.01 mm)	Using slip gauge set grade ‘0’, long gauge blocks & caliper checker by comparison method	0 to 300 mm	8.0 µm
196	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier / Dial / Digimatic Caliper (L.C : 0.01 mm)	Using slip gauge set grade ‘0’, long gauge blocks & caliper checker by comparison method	0 to 1000 mm	14.70 µm
197	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier/ Dial/ Digimatic Caliper (L.C: 0.02 mm)	Using slip gauge set grade ‘0’, long gauge blocks by comparison method	0 to 1250 mm	49.0 µm

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	40 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
198	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector/ VMM (Angle Measurement) (L.C: 1 s)	Using angle gauges by comparison method	0 ° to 360 °	75s of arc
199	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector/ VMM (Linear Dimension) (X-Y axis) (L.C: 1 µm)	Using slip gauge grade '0' & long gauge block by comparison method	0 to 300 mm	3.9µm
200	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector/ VMM (Magnification)	Using slip gauge grade '0' & digital caliper by comparison method	50X	1%
201	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring Machine/ single axis measuring machine (Resolution: 0.0001 mm)	Using slip gauge grade '0' by comparison method	0 to 100 mm	0.5µm
202	MECHANICAL-DUROMETER	Rubber Hardness Tester / Durometer (Shore A)	Using rubber hardness calibration setup & Digital force gauge of 10 N (L.C: 0.001 N)	10 Shore A to 100 Shore A	1.47Shore A
203	MECHANICAL-DUROMETER	Rubber Hardness Tester / Durometer (Shore D)	Using rubber hardness calibration setup & Digital force gauge of 50 N (L.C: 0.01 N)	10 Shore D to 100 Shore D	0.66Shore D

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	41 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
204	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Push pull gauge & other mobile force measuring device	Using standard newtonian weights as per VDI/VDE 2624 part 2.1	1 N to 100 N	0.1N
205	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Push pull gauge & other mobile force measuring device	Using standard newtonian weights as per VDI/VDE 2624 part 2.1	100 N to 900 N	1.1N
206	MECHANICAL-PRESSURE INDICATING DEVICES	Barometric Pressure Gauge	Using digital barometric pressure indicator by comparison method	150 mbar to 1050 mbar	0.67mbar
207	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic pressure (gauge, manometer, differential gauge, transmitter, transducer, magnehalic gauge, pressure switch) (Digital/Analog)	Using standard digital pressure calibrator. DMM by comparison method	-250 Pa to 250 Pa	1.0Pa
208	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic pressure (gauge, manometer, differential gauge, transmitter, transducer, magnehalic gauge, pressure switch) (Digital/Analog)	Using standard digital manometer, DMM by comparison method	0 to 200 mbar	0.20mbar

SCOPE OF ACCREDITATION

Laboratory Name : BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2733 **Page No** 42 of 99

Validity 28/06/2023 to 27/06/2025 **Last Amended on** 24/08/2023

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)(±)
209	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic pressure (gauge, manometer, differential gauge, transmitter, transducer, magnehalic gauge, pressure switch) (Digital/Analog)	Using standard digital pressure calibrator, DMM by comparison method	-2000 Pa to 2000 Pa	2.67Pa
210	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (gauge, transmitter, transducer) (Analog/Digital) - Hydraulic	Using dead weight tester, DMM by direct method	1 kg/cm2 to 40 kg/cm2	0.05 %rdg.
211	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (gauge, transmitter, transducer) (Analog/Digital) - Hydraulic	Using dead weight tester and DMM by direct method	40 kg/cm2 to 800 kg/cm2	0.055 %rdg.
212	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (gauge, transmitter, transducer, pressure switch) (digital/analog) - pneumatic	Using standard digital pressure gauge & pressure comparator, DMM by comparison method	0 to 30 bar	0.04bar
213	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (gauge, transmitter, transducer, pressure switch) (digital/analog) - pneumatic	Using standard digital pressure gauge & pressure comparator, DMM by comparison method	0 bar to 3 bar	0.0028bar

SCOPE OF ACCREDITATION

Laboratory Name : BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2733 **Page No** 43 of 99

Validity 28/06/2023 to 27/06/2025 **Last Amended on** 24/08/2023

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)(±)
214	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (gauge, transmitter, transducer, pressure switch) (Analog/Digital) - Hydraulic	Using standard digital pressure gauge & pressure comparator, DMM by comparison method	0 to 70 bar	0.065bar
215	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (gauge, transmitter, transducer, pressure switch) (Analog/Digital) - Hydraulic	Using standard digital pressure gauge & pressure comparator, DMM by comparison method	0 bar to 1000 bar	0.63bar
216	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum (Gauge, Transmitter, transducer) (Digital / Analog)	using standard digital pressure gauge and DMM by comparison method	-0.95 bar to 0	0.003bar
217	MECHANICAL-TORQUE GENERATING DEVICES	Torque Screw Driver Type I: Class D, E Type II: Class D, E, F	Using Digital Torque Tester as per IS 16906: 2018	1 Nm to 10 Nm	2.01 % rdg
218	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench/ Torque Generating devices Type I: Class B,C,D,E	Using Torque wrench testing system as per IS 16906: 2018	0.5 Nm to 500 Nm	0.8% rdg.
219	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench/ Torque Generating devices Type II: Class A,B,D,E	Using Torque wrench testing system as per IS 16906: 2018	0.5 Nm to 2000 Nm	0.8% rdg.

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	44 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
220	MECHANICAL-VOLUME	Glassware (Measuring Cylinder/ Jar, Volumetric Flask, Beaker, Glass Pipette, Dispenser, Soap Bubble Meter, Burette and other volumetric apparatus)	Using digital weighing balance (resolution 0.1 g) by gravimetric method as per ISO 4787: 2022	>2 l to 5 l	0.43ml
221	MECHANICAL-VOLUME	Glassware (Measuring Cylinder/ Jar, Volumetric Flask, Beaker, Glass Pipette, Dispenser, Soap Bubble Meter, Burette and other volumetric apparatus)	Using digital weighing balance (resolution 0.01 g) by gravimetric method as per ISO 4787: 2022	>500 ml to 2 l	0.05ml
222	MECHANICAL-VOLUME	Glassware (Measuring Cylinder/ Jar, Volumetric Flask, Beaker, Glass Pipette, Dispenser, Soap Bubble Meter, Burette and other volumetric apparatus)	Using digital weighing balance (resolution 0.01 mg) by gravimetric method as per ISO 4787: 2022	1 ml to 100 ml	0.06µl

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	45 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
223	MECHANICAL-VOLUME	Glassware (Measuring Cylinder/ Jar, Volumetric Flask, Beaker, Glass Pipette, Dispenser, Soap Bubble Meter, Burette and other volumetric apparatus)	Using digital weighing balance (resolution: 0.001 g) by gravimetric method as per ISO 4787: 2022	100 ml to 500 ml	11.7 µl
224	MECHANICAL-VOLUME	Glassware (Measuring Cylinder/ Jar, Volumetric Flask, Beaker, Glass Pipette, Dispenser, Soap Bubble Meter, Burette and other volumetric apparatus)	Using digital weighing balance (resolution 0.1 g) by gravimetric method as per ISO 4787: 2022	5 l to 10 l	1.1ml
225	MECHANICAL-VOLUME	Glassware (Measuring Cylinder/ Jar, Volumetric Flask, Beaker, Glass Pipette, Dispenser, Soap Bubble Meter, Burette and other volumetric apparatus)	Using digital weighing balance (resolution 0.001 mg) by gravimetric method as per ISO 4787: 2022	0.1 ml to 1 ml	0.05µl
226	MECHANICAL-VOLUME	Volume (Micro pipette)	Using micro balance (resolution 0.001 mg) as per ISO 8655: 2021	1 µl to 10 µl	0.02µl

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	46 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
227	MECHANICAL-VOLUME	Volume (Micro pipette)	Using micro balance (resolution 0.001 mg) as per ISO 8655-6: 2021	1 ml to 10 ml	2.39 µl
228	MECHANICAL-VOLUME	Volume (Micro pipette)	Using micro balance (resolution 0.001 mg) as per ISO 8655: 2021	100 µl to 1000 µl	0.88 µl
229	MECHANICAL-VOLUME	Volume (Micro pipette)	Using micro balance (resolution 0.001 mg) as per ISO 8655-6: 2021	10 µl to 100 µl	0.19 µl
230	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance (L.C: 0.1 kg)	Using F1& M1 class standard weights by comparison method	0 to 100 kg	60g
231	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class - I & coarser) (Resolution= 0.0001 mg or coarser)	Using E1 class standard weights as per OIML R76-1	0 to 2.2 g	0.004mg
232	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class I & coarser) (Readability 0.001 mg & Coarser)	Using E1 class standard weights as per OIML R76-1	0 to 22 g	0.01mg
233	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class I & coarser) (Readability=0.01 mg & Coarser)	Using E1 class standard weights as per OIML R76-1	0 to 250 g	0.07mg

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	47 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
234	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class I & coarser) (Readability=1 mg) & Coarser	Using E1 & E2 class standard weights as per OIML R76-1	0 to 1000 g	0.002g
235	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class II & coarser) (Readability=0.01 g & Coarser)	Using E1 & F1 class standard weights as per OIML R76-1	0 to 6 kg	0.01g
236	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class II & coarser) (Readability=0.1 g & Coarser)	Using E1 and F1 class standard weights as per OIML R76-1	0 to 32 kg	0.06g
237	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class III & coarser) (Readability=1 g & Coarser)	Using F1 class standard weights as per OIML R76-1	0 to 100 kg	0.8g
238	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class IIII) (Readability=10 g & Coarser)	Using F1 & M1 class standard weights as per OIML R76-1	0 to 500 kg	28g
239	MECHANICAL-WEIGHTS	Mass (Test Weights / Dead Weights / Newtonic Weights)	Using E2 & F1 class standard weights and digital weighing balance 6 kg (resolution 0.01 g) by Direct method	>250 g to 6 kg	15.62mg

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	48 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
240	MECHANICAL-WEIGHTS	Mass (Test Weights / Dead Weights / Newtonic Weights)	Using E2 & F1 class standard weights & digital weighing balance 100 kg (resolution 0.001 kg) by Direct method	>32 kg to 100 kg	2.22g
241	MECHANICAL-WEIGHTS	Mass (Test Weights / Dead Weights / Newtonic Weights)	Using E2 & F1 class standard weights & digital weighing balance 32 kg (resolution 0.1 g) by Direct method	>6 kg to 32 kg	172mg
242	MECHANICAL-WEIGHTS	Mass (Test Weights / Dead Weights / Newtonic Weights)	Using E2 class standard weights & weighing balance 250 g (resolution 0.01mg) by Direct method	0 to 250 g	0.1mg
243	MECHANICAL-WEIGHTS	Mass (weights) of E2 class & coarser	Using E1 class standard weights & micro balance (resolution 0.001 mg) by substitution method as per OIML R-111:2004	1 g	0.004mg

SCOPE OF ACCREDITATION

Laboratory Name : BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2733 **Page No** 49 of 99

Validity 28/06/2023 to 27/06/2025 **Last Amended on** 24/08/2023

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)(±)
244	MECHANICAL-WEIGHTS	Mass (weights) of E2 class & coarser	Using E1 class standard weights & micro balance (resolution 0.001 mg) by substitution method as per OIML R-111:2004	1 mg	0.0020mg
245	MECHANICAL-WEIGHTS	Mass (weights) of E2 class & coarser	Using E1 class standard weights & micro balance (resolution 0.001mg) by substitution method as per OIML R-111:2004	10 g	0.008mg
246	MECHANICAL-WEIGHTS	Mass (weights) of E2 class & coarser	Using E1 class standard weights & micro balance (resolution 0.001 mg) by substitution method as per OIML R-111:2004	10 mg	0.0018mg
247	MECHANICAL-WEIGHTS	Mass (weights) of E2 class & coarser	Using E1 class standard weights & semi micro balance (resolution 0.01mg) by substitution method as per OIML R-111:2004	100 g	0.026mg

SCOPE OF ACCREDITATION

Laboratory Name : BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2733 **Page No** 50 of 99

Validity 28/06/2023 to 27/06/2025 **Last Amended on** 24/08/2023

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)(±)
248	MECHANICAL-WEIGHTS	Mass (Weights) of E2 Class & Coarser	Using E1 class standard weights & micro balance (resolution 0.001 mg) by substitution method as per OIML R-111:2004	100 mg	0.0018mg
249	MECHANICAL-WEIGHTS	Mass (weights) of E2 class & coarser	Using E1 class standard weights & micro balance (resolution 0.001 mg) by substitution method as per OIML R-111:2004	2 g	0.005mg
250	MECHANICAL-WEIGHTS	Mass (weights) of E2 class & coarser	Using E1 class standard weights & micro balance (resolution 0.001 mg) by substitution method as per OIML R-111:2004	2 mg	0.0018mg
251	MECHANICAL-WEIGHTS	Mass (weights) of E2 class & coarser	Using E1 class standard weights & micro balance (resolution 0.001mg) by substitution method as per OIML R-111:2004	20 g	0.012mg

SCOPE OF ACCREDITATION

Laboratory Name : BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2733 **Page No** 51 of 99

Validity 28/06/2023 to 27/06/2025 **Last Amended on** 24/08/2023

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)(±)
252	MECHANICAL-WEIGHTS	Mass (weights) of E2 class & coarser	Using E1 class standard weights & micro balance (resolution 0.001mg) by substitution method as per OIML R-111:2004	20 mg	0.0018mg
253	MECHANICAL-WEIGHTS	Mass (weights) of E2 class & coarser	Using E1 class standard weights & semi micro balance (resolution 0.01 mg) by substitution method as per OIML R-111:2004	200 g	0.044mg
254	MECHANICAL-WEIGHTS	Mass (Weights) of E2 Class & Coarser	Using E1 class standard weights & micro balance (resolution 0.001mg) by substitution method as per OIML R-111:2004	200 mg	0.003mg
255	MECHANICAL-WEIGHTS	Mass (weights) of E2 class & coarser	Using E1 class standard weights & micro balance (resolution 0.001 mg) by substitution method as per OIML R-111:2004	5 g	0.007mg

SCOPE OF ACCREDITATION

Laboratory Name : BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2733 **Page No** 52 of 99

Validity 28/06/2023 to 27/06/2025 **Last Amended on** 24/08/2023

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)(±)
256	MECHANICAL-WEIGHTS	Mass (weights) of E2 class & coarser	Using E1 class standard weights & micro balance (resolution 0.001 mg) by substitution method as per OIML R-111:2004	5 mg	0.0018mg
257	MECHANICAL-WEIGHTS	Mass (weights) of E2 class & coarser	Using E1 class standard weights & semi micro balance (resolution 0.01 mg) by substitution method as per OIML R-111:2004	50 g	0.024mg
258	MECHANICAL-WEIGHTS	Mass (weights) of E2 class & coarser	Using E1 class standard weights & micro balance (resolution 0.001 mg) by substitution method as per OIML R-111:2004	50 mg	0.0018mg
259	MECHANICAL-WEIGHTS	Mass (Weights) of E2 Class & Coarser	Using E1 class standard weights & micro balance (resolution 0.001 mg) by substitution method as per OIML R-111:2004	500 mg	0.003mg

SCOPE OF ACCREDITATION

Laboratory Name : BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2733 **Page No** 53 of 99

Validity 28/06/2023 to 27/06/2025 **Last Amended on** 24/08/2023

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)(±)
260	MECHANICAL-WEIGHTS	Mass (Weights) of F2 Class & Coarser	Using F1 Class standard Weight & Digital Weighing Balance (resolution 0.001 g) by substitution method as per OIML R-111:2004	1 kg	2.5mg
261	MECHANICAL-WEIGHTS	Mass (Weights) of F2 Class & Coarser	Using F1 Class standard Weight & Digital Weighing Balance (resolution 0.01 g) by substitution method as per OIML R-111:2004	2 kg	13mg
262	MECHANICAL-WEIGHTS	Mass (Weights) of F2 Class & Coarser	Using F1 class standard weight & digital weighing balance (resolution 0.01 g) by substitution method as per OIML R-111:2004	5 kg	14mg

SCOPE OF ACCREDITATION

Laboratory Name : BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2733 **Page No** 54 of 99

Validity 28/06/2023 to 27/06/2025 **Last Amended on** 24/08/2023

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)(±)
263	MECHANICAL-WEIGHTS	Mass (Weights) of F2 Class & Coarser	Using F1 Class standard Weight & Digital Weighing Balance (resolution 0.001 g) by substitution method as per OIML R-111:2004	500 g	2mg
264	MECHANICAL-WEIGHTS	Mass (Weights) of M1 Class & Coarser	Using F1 class standard weight & digital weighing balance (resolution 0.1 g) by substitution method as per OIML R-111:2004	10 kg	123.3mg
265	MECHANICAL-WEIGHTS	Mass (Weights) of M1 Class & Coarser	Using F1 class standard weight & digital weighing balance (resolution 1g) by substitution method as per OIML R-111:2004	100 kg	1.01g
266	MECHANICAL-WEIGHTS	Mass (Weights) of M1 Class & Coarser	Using F1 class standard weight & digital weighing balance (resolution 0.1 g) by substitution method as per OIML R-111:2004	20 kg	0.9g

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	55 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
267	MECHANICAL-WEIGHTS	Mass (Weights) of M1 Class & Coarser	Using F1 class standard weight & digital weighing balance (resolution 1g) by substitution method as per OIML R-111:2004	50 kg	0.91g
268	THERMAL-SPECIFIC HEAT & HUMIDITY	Cold Chamber, Environment Chamber, Stability Chamber, Centrifuged Chamber, Cold Room, (Multi-position calibration)	Using Multiple RTD Sensors with Super DAQ/Data Loggers (minimum nine sensors) by comparison method	(-)80 °C to 300 °C	0.31°C
269	THERMAL-SPECIFIC HEAT & HUMIDITY	Cold Chamber, Environment Chamber, Stability Chamber, Cold Room (Multi position Calibration)	Using Digital Data Logger with RH sensors (using minimum nine sensors) by Comparison Method	5 % rh to 95 % rh @ 25 °C	0.9% rh
270	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Chamber/Humidity Source, (Humidity Calibrator /Generator Chamber) - Multi position calibration	Using Digital Data logger with RH sensors (using Minimum nine sensors) by Comparison Method	5 %rh to 95 %rh @ 25 °C	0.85%rh

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	56 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
271	THERMAL-SPECIFIC HEAT & HUMIDITY	Relative humidity indicator of Environment Chamber / Humidity Chamber/Humidity Source (Humidity Calibrator /Generator Chamber) - (Single position Calibration)	Digital Temperature & Humidity Indicator with sensor by Comparison method	5 % rh to 95 % rh @ 25 °C	0.85% rh
272	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature & RH sensor with/without Indicator, Thermo-hygrometer, Data Logger with Internal/External Sensor	Using PRT using Precision Temperature Indicator, Relative humidity indicator using Temperature & Relative Humidity generator, DMM by Comparison method	(-)5 °C to 50 °C @ 50 % rh	0.22°C
273	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature & RH sensor with/without Indicator, Thermo-hygrometer, Data Logger with Internal/External Sensor	Using Digital Temperature & Relative humidity Indicator with sensor using Relative humidity generator, DMM by comparison method.	0.5 % rh to 95 % rh @ 25 °C	0.57% rh

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	57 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
274	THERMAL-TEMPERATURE	Blackbody Source/ IR Thermal Sources/Blackbody Sources @ emissivity 0.95	Using Reference IR Pyrometer by comparison method	35 °C to 50 °C	1°C
275	THERMAL-TEMPERATURE	Blackbody Source/ IR Thermal Sources/Blackbody Sources @ emissivity 0.95	Using Reference IR Pyrometer by comparison method	50 °C to 500 °C	1.77°C
276	THERMAL-TEMPERATURE	Calibration of Dry Block Calibrators, Metrology Well	Using SPRT/ PRT with Super DAQ, PRTs and S-type thermocouple by comparison method	>200 °C to 660 °C	1.09°C
277	THERMAL-TEMPERATURE	Calibration of High Temperature Furnace/Metrology Wells/ Dry Block calibrators, Thermal Sources	Using Standard Type-S/N Thermocouple with Super DAQ/ 61/2 Digit DMM by comparison method	>660 °C to 1200 °C	1.40°C
278	THERMAL-TEMPERATURE	Calibration of Liquid Baths, Dry Block Calibrators, Metrology Well, Thermal Sources	Using SPRT/ PRT with Super DAQ by comparison method	(-)95 °C to 140 °C	0.064°C

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	58 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
279	THERMAL-TEMPERATURE	Calibration of Liquid Baths, Dry Block Calibrators, Metrology Well, Thermal Sources	Using SPRT/ PRT with Super DAQ by comparison method	>140 °C to 200 °C	0.29°C
280	THERMAL-TEMPERATURE	Indicator of Thermal Sources (Oven, Dry Block Furnaces, Dry Block calibrators, Muffle Furnace, Chamber, Dry Block calibrators) (Single Point calibration)	Using SPRT/PRT with Super DAQ by comparison method	>300 °C to 660 °C	1.10°C
281	THERMAL-TEMPERATURE	Indicator of Thermal Sources (Dry Block Furnaces, Metrology Well, Chambers, Dry Block calibrators, Muffle Furnace)	Using Type-S/N Thermocoupleswith Super DAQ by comparison method,(Single Point calibration)	>660 °C to 1200 °C	1.39°C
282	THERMAL-TEMPERATURE	Indicator of Thermal Sources (Liquid Bath, Dry Block Furnaces, Dry Block calibrators) (Single Point calibration)	Using SPRT/ PRT with Super DAQ by comparison method	(-)196 °C to 0 °C	0.14°C

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	59 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
283	THERMAL-TEMPERATURE	Indicator of Thermal Sources of (Oven, Environmental Chambers/Furnaces/ Heating Chambers/ Incubators & BOD Incubators, Cold Room (Single Point calibration)	Using SPRT, PRT with Super DAQ by comparison method	0 °C to 300 °C	1.10 °C
284	THERMAL-TEMPERATURE	IR Thermometer/ IR Gun/Radiation Pyrometer/ IR Detector/ Thermal Imagers/ Laser pointed/IR Pyrometer @ emissivity 0.95	Using Radiation Pyrometer/Portable IR Calibrator by comparison method	50 °C to 500 °C	1.77°C
285	THERMAL-TEMPERATURE	IR Thermometer/Infrared Body Temperature Thermometer @ emissivity 0.95	Using Blackbody Source and 4 Wire RTD sensor with Super DAQ By Comparison Method	34 °C to 50 °C	0.75°C
286	THERMAL-TEMPERATURE	Liquid in Glass ThermometerThermometers	Using SPRT with Super DAQ/ Liquid Temp Bath by Comparison Method	(-)40 °C to 200°C	0.13°C

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	60 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
287	THERMAL-TEMPERATURE	Temperature Indicator of Thermal Sources, Baths/ Cyro bath, N2 Freezer/ Liquid Nitrogen Bath (Single Point calibration)	Using SPRT/ PRT with Super DAQ by comparison method by comparison method.	(-)196 °C	0.14°C
288	THERMAL-TEMPERATURE	Temperature Sensor with/without Indicator, Temperature& RH Data Logger, Temperature & RH Data Logger with/without indicator, Data Logger (Inbuilt Sensor), Temperature Inbuilt Sensor, thermo-hygrometer	Using SPRT/RTD (4 Wire) with Super DAQ, Low Temperature Chamber	(-)25 °C to 50 °C	0.2°C
289	THERMAL-TEMPERATURE	Temperature Transmitter, RTD's and Thermocouples with & without (Controller/Indicator/ Data Logger/Recorder/ Scanner), Temperature Gauge & Digital Thermometer	Using SPRT with Super DAQ/Liquid Nitrogen Bath By Comparison Method	(-)196 °C to (-)95 °C	0.14°C

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	61 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
290	THERMAL-TEMPERATURE	Temperature Transmitter, RTD's and Thermocouples with & without (Controller/Indicator/ Data Logger/Recorder/ Scanner), Temperature Gauge & Digital Thermometer	Using SPRT with Super DAQ/ Field Metrology Well by Comparison Method	>(-)95 °C to 140 °C	0.12°C
291	THERMAL-TEMPERATURE	Temperature Transmitter, RTD's and Thermocouples with & without (Controller/Indicator/ Data Logger/Recorder/ Scanner), Temperature Gauge & Digital Thermometer	Using SPRT with Super DAQ/ Liquid Temp Bath by Comparison Method	>140 °C to 200 °C	0.085°C

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	62 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
292	THERMAL-TEMPERATURE	Temperature Transmitter, RTD's and Thermocouples with & without (Controller/Indicator/ Data Logger/Recorder/ Scanner), Temperature Gauge & Digital Thermometer	Using SPRT with Super DAQ/ Dry Block by Comparison Method	200 °C to 660 °C	0.48 °C
293	THERMAL-TEMPERATURE	Temperature Transmitter, RTD's and Thermocouples with & without (Controller/Indicator/ Data Logger/Recorder/ Scanner), Temperature Gauge Digital Thermometer	Using SPRT with Super DAQ /Liquid Nitrogen Bath, By Comparison Method	(-)196 °C	0.14°C
294	THERMAL-TEMPERATURE	Thermal Sources of Furnaces (Multiposition calibration)	Using Multiple N-Type Thermocouples Sensor with Super DAQ (minimum nine thermocouples) by comparison method	>300 °C to 1200 °C	1.9°C

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	63 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
295	THERMAL-TEMPERATURE	Thermal Sources of (Freezers, Deep Freezer, Cold Chamber, Environmental Chambers, Cold Room, Walking Chiller (Multiposition calibration)	Using Multiple RTD Sensors (minimum 9 sensors) with Super DAQ by comparison method	0 °C to 300 °C	0.84°C
296	THERMAL-TEMPERATURE	Thermal Sources of (Freezers, Deep Freezer, Cold Chamber, Environmental Chambers, Cold Room, Walking Chiller) (Multi position calibration)	Using Multiple RTD Sensors with Super DAQ (minimum nine sensors) by mapping method	(-)80 °C to 0 °C	0.73°C
297	THERMAL-TEMPERATURE	Thermocouples, Temperature Transmitter with & without (Controller/Indicator/ /Recorder/ Scanner), Data Logger & Digital Thermometer	Using Type S Thermocouple with Super DAQ/ Dry Block Furnace by Comparison Method.	> 660 °C to 1200 °C	0.96°C

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	64 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (50 Hz/60 Hz)	Using 6½ digital multimeter by direct method	100 mA to 10 A	0.2 % to 0.25 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (50 Hz/60 Hz)	Using 6½ digital multimeter by direct method	50 µA to 100 mA	0.4 % to 0.2 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Current (50 Hz)	Using 6½ DMM & Current Transformer by direct method	10 A to 1000 A	1.3 % to 0.65 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage (50 kHz)	Using HV probe with DMM & AC High voltage source by direct method	1 kV to 28 kV	2.4%

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	65 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Resistance (1kHz)	Using LCR Meter by direct method	1 Ohm to 100 kohm	0.23%
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (50 Hz/60 Hz)	Using 6½ DMM By Direct Method	10 mV to 10 V	0.53 % to 0.12 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (50 Hz/60 Hz)	Using 6½ DMM By Direct Method	10 V to 1000 V	0.12 % to 0.18 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance (1 kHz)	Using LCR Meter by direct method	1 nF to 1 µF	0.2%
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Frequency	Using 6½ DMM by direct method	10 Hz to 1 MHz	0.06%

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	66 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance (1kHz)	Using LCR Meter by direct/ Comparison method	100 µH to 1 H	0.45 % to 0.8 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (50 Hz)	Using multifunction calibrator with current coil by direct method	20 A to 1000 A	0.31 % to 0.90 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power (Active Power 1ø) (1 W to 12 kW) (50 Hz)	Using multifunction calibrator by direct method	0.5 Lag to 0.5 Lead 10 V to 640 V & 1 A to 19 A UPF 240 V 0.1 to 1 A	0.41 % to 0.84 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (50Hz/60Hz)	Using multifunction calibrator by direct method	10 mV to 300 mV	1.16 % to 0.2 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (50Hz/60Hz)	Using multifunction calibrator by direct method	100 V to 1000 V	0.08%

SCOPE OF ACCREDITATION

Laboratory Name : BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2733 **Page No** 67 of 99

Validity 28/06/2023 to 27/06/2025 **Last Amended on** 24/08/2023

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)(±)
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (50Hz/60Hz)	Using multifunction calibrator by direct method	300 mV to 100 V	0.2 % to 0.08 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1kHz	Using multifunction calibrator by direct method	1 nF to 100 µF	7.2 % to 1.5 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ DMM By Direct Method	1 µA to 10 mA	3.0 % to 0.08 %
18	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ DMM By Direct Method	10 mA to 3 A	0.08 % to 0.16 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ DMM By Direct Method	3 A to 10 A	0.16 % to 0.2 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Current	Using 6½ DMM & 900 A / 75 mV Shunt by direct method	10 A to 750 A	1.0%

SCOPE OF ACCREDITATION

Laboratory Name : BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2733 **Page No** 68 of 99

Validity 28/06/2023 to 27/06/2025 **Last Amended on** 24/08/2023

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)(±)
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with DMM & DC high voltage source by direct method	1 kV to 37 kV	1.7 %
22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ DMM By Direct Method	1 mV to 100 mV	0.5 % to 0.01 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ DMM By Direct/Comparison Method	10 V to 1000 V	0.06 % to 0.02 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ DMM By Direct Method	100 mV to 10 V	0.01 % to 0.06 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 6½ DMM by direct method	1 Mohm to 100 Mohm	0.13 % to 0.9 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 6½ DMM By Direct Method	10 ohm to 1 Mohm	0.06 % to 0.13 %

SCOPE OF ACCREDITATION

Laboratory Name : BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2733 **Page No** 69 of 99

Validity 28/06/2023 to 27/06/2025 **Last Amended on** 24/08/2023

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)(±)
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 6½ DMM by direct method	100 Mohm to 1 Gohm	0.9 % to 2.36 %
28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 Wire)	Using Micro Ohm Meter & Low Resistance Standard By Direct Method	1 ohm to 10 ohm	0.6 % to 0.05 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 Wire)	Using Micro Ohm Meter & Low Resistance Standard By Direct Method	100 µohm to 1 ohm	1 % to 0.6 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using multifunction calibrator by direct method	1 µA to 300 mA	1.35 % to 0.03 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using multifunction calibrator with current coil by direct method	20 A to 1000 A	0.12 % to 0.70 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using multifunction calibrator by direct method	300 mA to 20 A	0.03 % to 0.12 %

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	70 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power (10 V to 1000 V & 1 A to 19 A)	Using multifunction calibrator by direct method	10 W to 19 kW	0.31%
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using multifunction calibrator by direct method	1 mV to 300 mV	0.75 % to 0.01 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using multifunction calibrator by direct method	300 mV to 300 V	0.01 % to 0.03 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using multifunction calibrator by direct method	300 V to 1000 V	0.03 % to 0.014 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire)	Using high resistance box by direct method	1 Gohm	2.5%
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire)	Using high resistance box by direct method	1 Tohm	2.5%

SCOPE OF ACCREDITATION

Laboratory Name : BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2733 **Page No** 71 of 99

Validity 28/06/2023 to 27/06/2025 **Last Amended on** 24/08/2023

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)(±)
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire)	Using high resistance box by direct method	10 Gohm	2.5%
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire)	Using high resistance box by direct method	100 Gohm	2.5%
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire)	Using high resistance box by direct method	200 Gohm	2.5%
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire)	Using high resistance box by direct method	500 Gohm	2.5%
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire)	Using high resistance box by direct method	500 Mohm	2.5%
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using low resistance box (fixed value) by direct method	0.001 ohm	0.2%

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	72 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using low resistance box (fixed value) by direct method	0.01 ohm	0.2%
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using low resistance box (fixed value) by direct method	0.1 ohm	0.13%
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using low resistance box (fixed value) by direct method	1 ohm	0.13%
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using low resistance box (fixed value) by direct method	100 µohm	0.3%
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using low resistance box (fixed value) by direct method	50 µohm	1.26%
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using multifunction calibrator by direct method	1 ohm to 4 Mohm	0.36 % to 0.07 %

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	73 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using multifunction calibrator by direct method	4 Mohm to 40 Mohm	0.07 % to 0.18 %
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using multifunction calibrator by direct method	40 Mohm to 400 Mohm	0.18 % to 0.32 %
53	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	AC Active Energy (1 Phase & 3 phase, 0.5 Lag to UPF to 0.5 Lead PF, Voltage: 63.5V/ 50Hz Current: 0.1A to 5 A)	Using reference portable three phase power meter by Comparison Method	3.17 Wh to 952.5 Wh	1.2 %
54	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	AC Active Energy (Single phase and 3 phase 0.5 Lag to UPF to 0.5 Lead PF, Voltage: 63.5 V/ 50Hz, clamp on CT: 0.1A to 100 A)	Using reference portable three phase power meter by Comparison Method	3.17 Wh to 1.9 kWh	1.2 %
55	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	AC Active Energy (Single phase and 3 phase, 0.5 Lag to UPF to 0.5 Lead PF, Voltage: 240V / 50Hz, Current: 0.1A to 5 A)	Using reference portable three phase power meter by Comparison Method	12 Wh to 3600 Wh	1.2 %

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	74 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
56	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	AC Active Energy (Single phase and 3 phase, 0.5 Lag to UPF to 0.5 Lead PF, Voltage: 240V/ 50Hz, Clamp on CT: 0.1A to 100A)	Using reference portable three phase power meter by Comparison Method	12 Wh to 72 kWh	1.2 %
57	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Single Phase Power (UPF to 0.5 Lag/Lead PF, Voltage: 63.5 V/ 50Hz, Current: 0.1A to 5 A)	Using reference portable three phase power meter by Comparison Method	3.17 W to 317 W	0.28 %
58	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Single Phase Power (UPF to 0.5 Lag/Lead PF, Voltage: 240 V / 50Hz, Current: 0.1A to 5A)	Using reference portable three phase power meter by Comparison Method	12 W to 1.2 kW	0.28 %
59	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Single Phase Power Clamp on CT (UPF to 0.5 Lag/Lead PF, Voltage: 240 V / 50Hz, Current: 0.1A to 100 A)	Using reference portable three phase power meter by Comparison Method	12 W to 24 kW	0.28 %
60	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Single Phase Power Clamp on CT (UPF to 0.5 Lag/Lead PF, Voltage: 63.5 V / 50Hz, Current: 0.1A to 100A)	Using reference portable three phase power meter by Comparison Method	3.17 W to 6.3 kW	0.28 %

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	75 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
61	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Three Phase Power (UPF to 0.5 Lag/Lead PF, Voltage: 240 V / 50Hz, Current: 0.1A to 5A)	Using reference portable three phase power meter by Comparison Method	36 W to 3.6 kW	0.28 %
62	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Three Phase Power (UPF to 0.5 Lag/Lead PF, Voltage: 63.5 V / 50Hz, Current: 0.1A to 5A)	Using reference portable three phase power meter by Comparison Method	9.5 W to 952 W	0.28 %
63	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Three Phase Power clamp on CT (UPF to 0.5 Lag/Lead PF, Voltage: 240 V / 50Hz, Current: 0.1A to 100 A)	Using reference portable three phase power meter by Comparison Method	36 W to 72 kW	0.28 %
64	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Three Phase Power clamp on CT (UPF to 0.5 Lag/Lead PF, Voltage: 63.5V / 50Hz, Current: 0.1A to 100 A)	Using reference portable three phase power meter by Comparison Method	9.5 W to 19 kW	0.28 %
65	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Amplitude(Deflection Factor) 1 kHz / 1 MegaOhm	Using multifunction calibrator by direct method	5 mV to 120 V	1.0%

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	76 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
66	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Bandwidth	Using multifunction calibrator by direct method	1 kHz to 250 MHz	5.0%
67	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Sin/Square (DC)	Using multifunction calibrator by direct method	50 kHz to 20 Mhz , 50 Ohm, 20 mV to 2.5 V	1.0%
68	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Time Base (Marker)	Using multifunction calibrator by direct method	10 ns to 5 s	0.5%
69	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Temperature source, Indicator/Controller/ Recorder) ('B' type T/C)	Using Super DAQ Precision Temperature Scanner by direct method	600 °C to 1700 °C	0.18 °C
70	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Temperature source, Indicator/Controller/ Recorder) ('E' type T/C)	Using Super DAQ Precision Temperature Scanner by direct method	-100 °C to 600 °C	0.11°C

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	77 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
71	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Temperature source, Indicator/Controller/ Recorder) ('J' type T/C)	Using Super DAQ Precision Temperature Scanner by direct method	-200 °C to 1200 °C	0.10°C
72	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Temperature source, Indicator/Controller/ Recorder) ('K' type T/C)	Using Super DAQ Precision Temperature Scanner by direct method	50 °C to 1300 °C	0.35°C
73	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Temperature source, Indicator/Controller/ Recorder) ('N' type T/C)	Using Super DAQ Precision Temperature Scanner by direct method	-200 °C to 1300 °C	0.11°C
74	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Temperature source, Indicator/Controller/ Recorder) ('R' type T/C)	Using Super DAQ Precision Temperature Scanner by direct method	600 °C to 1700 °C	0.13°C

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	78 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
75	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Temperature source, Indicator/Controller/ Recorder) ('S' type T/C)	Using Super DAQ Precision Temperature Scanner by direct method	50 °C to 1700 °C	0.12°C
76	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Temperature source, Indicator/Controller/ Recorder) ('T' type T/C)	Using Super DAQ Precision Temperature Scanner by direct method	-200 °C to 400 °C	0.09°C
77	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Temperature source, Indicator/Controller/ Recorder) (RTD)	Using Super DAQ Precision Temperature Scanner by direct method	-200 °C to 800 °C	0.07°C
78	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Controller/ Recorder) ('B' Type T/C)	Using Multifunction Calibrator by Direct method	600 °C to 1700 °C	0.44°C
79	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Controller/ Recorder) ('E' Type T/C)	Using Multifunction Calibrator by Direct method	-100 °C to 600 °C	0.11°C

SCOPE OF ACCREDITATION

Laboratory Name : BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2733 **Page No** 79 of 99

Validity 28/06/2023 to 27/06/2025 **Last Amended on** 24/08/2023

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)(±)
80	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Controller/ Recorder) ('J' Type T/C)	Using Multifunction Calibrator by Direct method	-200 °C to 1200 °C	0.12°C
81	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Controller/ Recorder) ('K' Type T/C)	Using Multifunction Calibrator by Direct method	-200 °C to 1300 °C	0.32°C
82	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Controller/ Recorder) ('N' Type T/C)	Using Multifunction Calibrator by Direct method	-200 °C to 1300 °C	0.11°C
83	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Controller/ Recorder) ('R' Type T/C)	Using Multifunction Calibrator by Direct method	0 °C to 1700 °C	0.15°C
84	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Controller/ Recorder) ('S' Type T/C)	Using Multifunction Calibrator by Direct method	0 to 1700 °C	0.12°C
85	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Controller/ Recorder) ('T' Type T/C)	Using Multifunction Calibrator by Direct method	-200 °C to 400 °C	0.10°C

SCOPE OF ACCREDITATION

Laboratory Name : BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2733 **Page No** 80 of 99

Validity 28/06/2023 to 27/06/2025 **Last Amended on** 24/08/2023

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)(±)
86	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Controller/ Recorder) (RTD)	Using Multifunction Calibrator by Direct method	-200 °C to 800 °C	0.4°C
87	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer / Stop Watch (Digital /Analog)	Using Digital Timer by direct method	14400 s (4 hour)	0.23s
88	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer / Stop Watch (Digital /Analog)	Using Digital Timer by direct method	60 s	0.006s
89	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer / Stop Watch (Digital /Analog)	Using Digital Timer by direct method	600 s	0.02s
90	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer / Stop Watch (Digital /Analog)	Using Digital Timer by direct method	7200 s (2 hour)	0.2s
91	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer / Stop Watch (Digital/ Analog)	Using Digital Timer by direct method	1 s	0.003s

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	81 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
92	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer / Stop Watch (Digital/ Analog)	Using Digital Timer by direct method	100 ms	0.003 s
93	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer / Stop Watch (Digital/ Analog)	Using Digital Timer by direct method	1800 s	0.04s
94	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer / Stop Watch (Digital/ Analog)	Using Digital Timer by direct method	3600 s (1 hour)	0.07s
95	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer / Stop Watch (Digital/ Analog)	Using Digital Timer by direct method	86400 s (24 hour)	3s
96	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using multifunction calibrator by direct method	10 Hz to 10 MHz	0.07 % to 0.008 %
97	FLUID FLOW-FLOW MEASURING DEVICES	Air Flow rate - (rotameter /flow meter/ flow measuring equipments)	Using Orifice Flow Calibrator (medium-air /gases) by comparison method	50 SLM to 250 SLM	1.03 % rdg to 0.17 % rdg

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	82 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
98	FLUID FLOW-FLOW MEASURING DEVICES	Air Flow rate-(rotameter /flow meter/ flow measuring equipments)	Using laminar flow calibration system (medium- air /gases) by comparison method	1 SLM to 5 SLM	1.40% rdg
99	FLUID FLOW-FLOW MEASURING DEVICES	Air Flow rate-(rotameter/flow meter/ flow measuring equipments)	Using laminar flow calibration system (medium- air /gases) by comparison method	>5 SLM to 50 SLM	0.86%
100	FLUID FLOW-FLOW MEASURING DEVICES	Volume flow rate-(liquid flow meter & flow measuring equipments)	Using ultrasonic flow meter (medium-water) by comparison method	> 200 m^3/hr to 1450 m^3/hr	1 % rdg
101	FLUID FLOW-FLOW MEASURING DEVICES	Volume flow rate-(liquid flow meter & flow measuring equipments)	Using ultrasonic flow meter (medium-water) by comparison method	> 80 m^3/hr to 200 m^3/hr	1.18 % rdg
102	FLUID FLOW-FLOW MEASURING DEVICES	Volume flow rate-(liquid flow meter & flow measuring equipments)	Using ultrasonic flow meter (medium-Water) by comparison method	0.8 m^3/hr to 80 m^3/hr	1.98 % rdg
103	MECHANICAL-ACCELERATION AND SPEED	Contact type rpm (tachometer/ centrifuge & rpm measurement of equipments)	Using standard digital tachometer & RPM source by comparison method	10 rpm to 100 rpm	2.6% rdg.

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	83 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
104	MECHANICAL-ACCELERATION AND SPEED	Contact type rpm (tachometer/ centrifuge & rpm measurement of equipments)	Using standard digital tachometer & RPM source by comparison method	100 rpm to 1000 rpm	0.28% rdg.
105	MECHANICAL-ACCELERATION AND SPEED	Contact type rpm (tachometer/ centrifuge & rpm measurement of equipments)	Using standard digital tachometer & RPM source by comparison method	1000 rpm to 5000 rpm	0.17% rdg.
106	MECHANICAL-ACCELERATION AND SPEED	Contact type rpm (tachometer/ centrifuge & rpm measurement of equipments)	Using standard digital tachometer & RPM source by comparison method	5000 rpm to 10000 rpm	0.04% rdg.
107	MECHANICAL-ACCELERATION AND SPEED	Contact type rpm (tachometer/ centrifuge & rpm measurement of equipments)	Using standard digital tachometer & RPM source by comparison method	6 rpm to 10 rpm	4.37% rdg.
108	MECHANICAL-ACCELERATION AND SPEED	Non contact type rpm (stroboscope / pulse engine tachometer, digital tachometer, centrifuge & rpm measurement of equipments)	Using standard digital tachometer & RPM source by comparison method	10 rpm to 100 rpm	3.93% rdg.

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	84 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
109	MECHANICAL-ACCELERATION AND SPEED	Non contact type rpm (stroboscope / pulse engine tachometer, digital tachometer, centrifuge & rpm measurement of equipments)	Using standard digital tachometer & RPM source by comparison method	6 rpm to 10 rpm	5.84% rdg.
110	MECHANICAL-ACCELERATION AND SPEED	Non contact type rpm (stroboscope / pulse engine tachometer, digital tachometer, centrifuge & rpm measurement of equipments)	Using standard digital tachometer & RPM source by comparison method	100 rpm to 1000 rpm	0.35% rdg.
111	MECHANICAL-ACCELERATION AND SPEED	Non contact type rpm (stroboscope / pulse engine tachometer, digital tachometer, centrifuge & rpm measurement of equipments)	Using standard digital tachometer & RPM source by comparison method	1000 rpm to 10000 rpm	0.09% rdg.

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	85 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
112	MECHANICAL-ACCELERATION AND SPEED	Non contact type rpm (stroboscope / pulse engine tachometer, digital tachometer, centrifuge & rpm measurement of equipments)	Using standard digital tachometer & RPM source by comparison method	10000 rpm to 50000 rpm	0.02% rdg.
113	MECHANICAL-ACCELERATION AND SPEED	Non contact type rpm (stroboscope / pulse engine tachometer, digital tachometer, centrifuge & rpm measurement of equipments)	Using standard digital tachometer & RPM source by comparison method	50000 rpm to 100000 rpm	0.01% rdg.
114	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre (Parallelism)	Using test mandrel & dial test indicator by comparison method	upto 300 mm	10.0 µm
115	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre (Coaxiality)	Using test mandrel & dial test indicator by comparison method	up to 300 mm	10 µm

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	86 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
116	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand - Flatness	Using electronic level by comparison method	300 mm X 300 mm	1.2Sq. Root (L+W)/ 150 ,Where L & W are in mm
117	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand - Flatness	Using dial test indicator	300 x 300 mm to mm	4.7µm
118	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Centre (Centre Distance)	Using slip gauge block grade '0' & dial test indicator by comparison method	up to 300 mm	3.8 µm
119	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Centre (Coaxiality of Dead center)	Using test mandrel & dial test indicator by comparison method	up to 300 mm	4.0 µm
120	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Centre (Parallelism of working surface)	Using electronic probe & surface plate by comparison method	up to 300 mm	4.0 µm

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	87 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
121	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using electronic level by comparison method	6000 mm x 4000 mm	1.3 x Sq.root (L+W)/ 125where L & W are in mm
122	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector/ VMM (Angle Measurement) (L.C: 1 s)	Using angle gauges by comparison method	0 ° to 360 °	75s of arc
123	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector/ VMM (Linear Dimension) (X-Y axis) (L.C: 1 µm)	Using slip gauge grade ‘0’ & long gauge block by comparison method	0 to 300 mm	3.9µm
124	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector/ VMM (Magnification)	Using slip gauge grade ‘0’ & digital caliper by comparison method	50X	1%
125	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring Machine/ single axis measuring machine (Resolution: 0.0001 mm)	Using slip gauge grade ‘0’ by comparison method	0 to 100 mm	0.5µm

SCOPE OF ACCREDITATION

Laboratory Name : BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2733 **Page No** 88 of 99

Validity 28/06/2023 to 27/06/2025 **Last Amended on** 24/08/2023

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)(±)
126	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic pressure (gauge, manometer, differential gauge, transmitter, transducer, magnehalic gauge, pressure switch) (Digital/Analog)	Using standard digital pressure calibrator. DMM by comparison method	-250 Pa to 250 Pa	1.0Pa
127	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic pressure (gauge, manometer, differential gauge, transmitter, transducer, magnehalic gauge, pressure switch) (Digital/Analog)	Using standard digital manometer, DMM by comparison method	0 to 200 mbar	0.20mbar
128	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic pressure (gauge, manometer, differential gauge, transmitter, transducer, magnehalic gauge, pressure switch) (Digital/Analog)	Using standard digital pressure calibrator, DMM by comparison method	-2000 Pa to 2000 Pa	2.67Pa
129	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (gauge, transmitter, transducer, pressure switch) (digital/analog) - pneumatic	Using standard digital pressure gauge & pressure comparator, DMM by comparison method	0 to 30 bar	0.04bar

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	89 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
130	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (gauge, transmitter, transducer, pressure switch) (digital/analog) - pneumatic	Using standard digital pressure gauge & pressure comparator, DMM by comparison method	0 bar to 3 bar	0.0028bar
131	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (gauge, transmitter, transducer, pressure switch) (Analog/Digital) - Hydraulic	Using standard digital pressure gauge & pressure comparator, DMM by comparison method	0 to 70 bar	0.065bar
132	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (gauge, transmitter, transducer, pressure switch) (Analog/Digital) - Hydraulic	Using standard digital pressure gauge & pressure comparator, DMM by comparison method	0 bar to 1000 bar	0.63bar
133	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum (Gauge, Transmitter, transducer) (Digital / Analog)	using standard digital pressure gauge and DMM by comparison method	-0.95 bar to 0	0.003bar
134	MECHANICAL-TORQUE GENERATING DEVICES	Torque Screw Driver Type I: Class D, E Type II: Class D, E, F	Using Digital Torque Tester as per IS 16906: 2018	1 Nm to 10 Nm	2.01 % rdg
135	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class - I & coarser) (Resolution= 0.0001 mg or coarser)	Using E1 class standard weights as per OIML R76-1	0 to 2.2 g	0.004mg

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	90 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
136	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class I & coarser) (Readability 0.001 mg & Coarser)	Using E1 class standard weights as per OIML R76-1	0 to 22 g	0.01mg
137	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class I & coarser) (Readability=0.01 mg & Coarser)	Using E1 class standard weights as per OIML R76-1	0 to 250 g	0.07mg
138	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class I & coarser) (Readability=1 mg) & Coarser	Using E1 & E2 class standard weights as per OIML R76-1	0 to 1000 g	0.002g
139	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class II & coarser) (Readability=0.01 g & Coarser)	Using E1 & F1 class standard weights as per OIML R76-1	0 to 6 kg	0.01g
140	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class III & coarser) (Readability=1 g & Coarser)	Using F1 class standard weights as per OIML R76-1	0 to 100 kg	0.8g
141	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class IIII) (Readability=10 g & Coarser)	Using F1 & M1 class standard weights as per OIML R76-1	0 to 500 kg	28g

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	91 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
142	THERMAL-SPECIFIC HEAT & HUMIDITY	Cold Chamber, Environment Chamber, Stability Chamber, Centrifuged Chamber, Cold Room, (Multi-position calibration)	Using Multiple RTD Sensors with Super DAQ/Data Loggers (minimum nine sensors) by comparison method	(-)80 °C to 300 °C	0.31°C
143	THERMAL-SPECIFIC HEAT & HUMIDITY	Cold Chamber, Environment Chamber, Stability Chamber, Cold Room (Multi position Calibration)	Using Digital Data Logger with RH sensors (using minimum nine sensors) by Comparison Method	5 % rh to 95 % rh @ 25 °C	0.9% rh
144	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Chamber/Humidity Source, (Humidity Calibrator /Generator Chamber) - Multi position calibration	Using Digital Data logger with RH sensors (using Minimum nine sensors) by Comparison Method	5 %rh to 95 %rh @ 25 °C	0.85%rh
145	THERMAL-SPECIFIC HEAT & HUMIDITY	Relative humidity indicator of Environment Chamber / Humidity Chamber/Humidity Source (Humidity Calibrator /Generator Chamber) - (Single position Calibration)	Digital Temperature & Humidity Indicator with sensor by Comparison method	5 % rh to 95 % rh @ 25 °C	0.85% rh

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	92 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
146	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature & RH sensor with/without Indicator, Thermo-hygrometer, Data Logger with Internal/External Sensor	Using PRT using Precision Temperature Indicator, Relative humidity indicator using Temperature & Relative Humidity generator, DMM by Comparison method	(-)5 °C to 50 °C @ 50 % rh	0.22°C
147	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature & RH sensor with/without Indicator, Thermo-hygrometer, Data Logger with Internal/External Sensor	Using Digital Temperature & Relative humidity Indicator with sensor using Relative humidity generator, DMM by comparison method.	0.5 % rh to 95 % rh @ 25 °C	0.57% rh
148	THERMAL-TEMPERATURE	Blackbody Source/ IR Thermal Sources/Blackbody Sources @ emissivity 0.95	Using Reference IR Pyrometer by comparison method	35 °C to 50 °C	1°C
149	THERMAL-TEMPERATURE	Blackbody Source/ IR Thermal Sources/Blackbody Sources @ emissivity 0.95	Using Reference IR Pyrometer by comparison method	50 °C to 500 °C	1.77°C

SCOPE OF ACCREDITATION

Laboratory Name : BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2733 **Page No** 93 of 99

Validity 28/06/2023 to 27/06/2025 **Last Amended on** 24/08/2023

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)(±)
150	THERMAL-TEMPERATURE	Calibration of Dry Block Calibrators, Metrology Well	Using SPRT/ PRT with Super DAQ, PRTs and S-type thermocouple by comparison method	>200 °C to 660 °C	1.09°C
151	THERMAL-TEMPERATURE	Calibration of High Temperature Furnace/Metrology Wells/ Dry Block calibrators, Thermal Sources	Using Standard Type-S/N Thermocouple with Super DAQ/ 61/2 Digit DMM by comparison method	>660 °C to 1200 °C	1.40°C
152	THERMAL-TEMPERATURE	Calibration of Liquid Baths, Dry Block Calibrators, Metrology Well, Thermal Sources	Using SPRT/ PRT with Super DAQ by comparison method	(-)95 °C to 140 °C	0.064°C
153	THERMAL-TEMPERATURE	Calibration of Liquid Baths, Dry Block Calibrators, Metrology Well, Thermal Sources	Using SPRT/ PRT with Super DAQ by comparison method	>140 °C to 200 °C	0.29°C
154	THERMAL-TEMPERATURE	Indicator of Thermal Sources (Oven, Dry Block Furnaces, Dry Block calibrators, Muffle Furnace, Chamber, Dry Block calibrators) (Single Point calibration)	Using SPRT/PRT with Super DAQ by comparison method	>300 °C to 660 °C	1.10°C

SCOPE OF ACCREDITATION

Laboratory Name : BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2733 **Page No** 94 of 99

Validity 28/06/2023 to 27/06/2025 **Last Amended on** 24/08/2023

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)(±)
155	THERMAL-TEMPERATURE	Indicator of Thermal Sources (Dry Block Furnaces, Metrology Well, Chambers, Dry Block calibrators, Muffle Furnace)	Using Type-S/N Thermocoupleswith Super DAQ by comparison method,(Single Point calibration)	>660 °C to 1200 °C	1.39°C
156	THERMAL-TEMPERATURE	Indicator of Thermal Sources (Liquid Bath, Dry Block Furnaces, Dry Block calibrators) (Single Point calibration)	Using SPRT/ PRT with Super DAQ by comparison method	(-)196 °C to 0 °C	0.14°C
157	THERMAL-TEMPERATURE	Indicator of Thermal Sources of (Oven, Environmental Chambers/Furnaces/ Heating Chambers/ Incubators & BOD Incubators, Cold Room (Single Point calibration)	Using SPRT, PRT with Super DAQ by comparison method	0 °C to 300 °C	1.10 °C
158	THERMAL-TEMPERATURE	IR Thermometer/ IR Gun/Radiation Pyrometer/ IR Detector/ Thermal Imagers/ Laser pointed/IR Pyrometer @ emissivity 0.95	Using Radiation Pyrometer/Portable IR Calibrator by comparison method	50 °C to 500 °C	1.77°C

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	95 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
159	THERMAL-TEMPERATURE	IR Thermometer/Infrared Body Temperature Thermometer @ emissivity 0.95	Using Blackbody Source and 4 Wire RTD sensor with Super DAQ By Comparison Method	34 °C to 50 °C	0.75°C
160	THERMAL-TEMPERATURE	Liquid in Glass ThermometerThermometers	Using SPRT with Super DAQ/ Liquid Temp Bath by Comparison Method	(-)40 °C to 200°C	0.13°C
161	THERMAL-TEMPERATURE	Temperature Indicator of Thermal Sources, Baths/ Cyro bath, N2 Freezer/ Liquid Nitrogen Bath (Single Point calibration)	Using SPRT/ PRT with Super DAQ by comparison method by comparison method.	(-)196 °C	0.14°C
162	THERMAL-TEMPERATURE	Temperature Sensor with/without Indicator, Temperature& RH Data Logger, Temperature & RH Data Logger with/without indicator, Data Logger (Inbuilt Sensor), Temperature Inbuilt Sensor, thermo-hygrometer	Using SPRT/RTD (4 Wire) with Super DAQ, Low Temperature Chamber	(-)25 °C to 50 °C	0.2°C

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	96 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
163	THERMAL-TEMPERATURE	Temperature Transmitter, RTD's and Thermocouples with & without (Controller/Indicator/ Data Logger/Recorder/ Scanner), Temperature Gauge & Digital Thermometer	Using SPRT with Super DAQ/Liquid Nitrogen Bath By Comparison Method	(-)196 °C to (-)95 °C	0.14°C
164	THERMAL-TEMPERATURE	Temperature Transmitter, RTD's and Thermocouples with & without (Controller/Indicator/ Data Logger/Recorder/ Scanner), Temperature Gauge & Digital Thermometer	Using SPRT with Super DAQ/ Field Metrology Well by Comparison Method	>(-)95 °C to 140 °C	0.12°C

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	97 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
165	THERMAL-TEMPERATURE	Temperature Transmitter, RTD's and Thermocouples with & without (Controller/Indicator/ Data Logger/Recorder/ Scanner), Temperature Gauge & Digital Thermometer	Using SPRT with Super DAQ/ Liquid Temp Bath by Comparison Method	>140 °C to 200 °C	0.085°C
166	THERMAL-TEMPERATURE	Temperature Transmitter, RTD's and Thermocouples with & without (Controller/Indicator/ Data Logger/Recorder/ Scanner), Temperature Gauge & Digital Thermometer	Using SPRT with Super DAQ/ Dry Block by Comparison Method	200 °C to 660 °C	0.48 °C
167	THERMAL-TEMPERATURE	Temperature Transmitter, RTD's and Thermocouples with & without (Controller/Indicator/ Data Logger/Recorder/ Scanner), Temperature Gauge Digital Thermometer	Using SPRT with Super DAQ /Liquid Nitrogen Bath, By Comparison Method	(-)196 °C	0.14°C

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	98 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
168	THERMAL-TEMPERATURE	Thermal Sources of Furnaces (Multiposition calibration)	Using Multiple N-Type Thermocouples Sensor with Super DAQ (minimum nine thermocouples) by comparison method	>300 °C to 1200 °C	1.9°C
169	THERMAL-TEMPERATURE	Thermal Sources of (Freezers, Deep Freezer, Cold Chamber, Environmental Chambers, Cold Room, Walking Chiller (Multiposition calibration)	Using Multiple RTD Sensors (minimum 9 sensors) with Super DAQ by comparison method	0 °C to 300 °C	0.84°C
170	THERMAL-TEMPERATURE	Thermal Sources of (Freezers, Deep Freezer, Cold Chamber, Environmental Chambers, Cold Room, Walking Chiller) (Multi position calibration)	Using Multiple RTD Sensors with Super DAQ (minimum nine sensors) by mapping method	(-)80 °C to 0 °C	0.73°C

SCOPE OF ACCREDITATION

Laboratory Name :	BELZ CALIBRATION LABORATORY (A UNIT OF BELZ INSTRUMENTS PVT. LTD.), 5L/123, N.I.T, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2733	**Page No**	99 of 99
Validity	28/06/2023 to 27/06/2025	**Last Amended on**	24/08/2023

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)(±)
171	THERMAL-TEMPERATURE	Thermocouples, Temperature Transmitter with & without (Controller/Indicator/ /Recorder/ Scanner), Data Logger & Digital Thermometer	Using Type S Thermocouple with Super DAQ/ Dry Block Furnace by Comparison Method.	> 660 °C to 1200 °C	0.96°C

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