National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 1 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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 @ 45 Hz to 1 kHz	Using Multifunction Calibrator with 8½ Multimeter by Comparison method	1 A to 10 A	0.118 % to 0.117 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 45 Hz to 1 kHz	Using 8 ½ DMM by Direct Method	1 A to 20 A	0.10 % to 0.11 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 45 Hz to 1 kHz	Using 8 ½ DMM by Direct Method	1 mA to 1 A	0.06 % to 0.1 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 45 Hz to 1 kHz	Using Multifunction Calibrator with 8½ Multimeter by Comparison method	1 mA to 1 A	0.068 % to 0.118 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 45 Hz to 1 kHz	Using 8 ½ DMM by Direct Method	10 µA to 1 mA	0.27 % to 0.06 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 45 Hz to 1 kHz	Using 8½ Multimeter, Multifunction Calibrator by Comparison method	30 µA to 1 mA	0.161 % to 0.068 %

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 2 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using AC Shunt and 6½ DMM by V/R Method	10 A to 1000 A	1.95 % to 0.72 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using High Voltage Divider with DMM By Direct Method	1 kV to 15 kV	2.4 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using High Voltage Divider with DU & High Voltage Source By Comparison Method	1 kV to 50 kV	2.8 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Power (Three Phase) @ 80 V to 480 V, 0.2 A to 5 A, 0.2 PF to UPF, 50 Hz	Using 3 Phase Power Analyzer & 3 Phase Calibrator by Comparison Method	1.92 kW to 360 kW	1.16 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 45 Hz to 10 kHz	Using 8 ½ DMM by Direct Method	1 mV to 1 V	0.52 % to 0.013 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 45 Hz to 10 kHz	Using Multifunction Calibrator with 8½ Multimeter by Comparison method	1 mV to 1 V	0.53 % to 0.014 %

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 3 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 45 Hz to 10 kHz	Using 8 ½ DMM by Direct Method	1 V to 1000 V	0.013 % to 0.019 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 45 Hz to 10 kHz	Using Multifunction Calibrator with 8½ Multimeter by Comparison method	1 V to 1000 V	0.014 % to 0.017 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance	Using 6½ DMM by Direct Method	1.1 nF to 109 µF	6.53 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	CT Ratio @ 50 Hz	Using 6 ½ DMM and relay test kit by Direct Method	10 A to 100 A	2.5 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Energy 1 Phase (50 Hz, 10 mA to 5 A, 240 V, 0.5 to UPF, Lead Lag)	Using 3 Phase LT Energy Meter & 3 Phase Calibrator by Comparison Method	2.4 Wh to 12 kWh	0.33 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Energy 3 phase (50 Hz, 240 V / 415 V, 10 mA to 5 A, 0.5 to UPF, Lead/ Lag)	Using 3 Phase LT Energy Meter & 3 Phase Calibrator by Comparison Method	36 Wh to 300 kWh	0.39 %

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 4 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance @ 50 Hz to 1 kHz	Using Standard Inductance Meter by Direct Method	100 µH to 1000 mH	4.18 %
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	PT Ratio @ 50 Hz	Using 6 ½ DMM by Direct Method	1 kV to 33 kV	2.5 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Active Power Single Phase (50 Hz 120 V to 240 V, 0.01 A to 20 A, 0.2 PF to Unity)	Using Multifunction MFC By Direct Method	1.2 W to 4.8 kW	0.1 % to 0.34 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 45 Hz to 1 kHz	Using Multi - Product Calibrator by Direct Method	1 A to 20 A	0.076 % to 0.204 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 45 Hz to 1 kHz	Using Multi - Product Calibrator by Direct Method	1000 µA to 1 A	0.14 % to 0.076 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 45 Hz to 1 kHz	Using Multi - Product Calibrator by Direct Method	30 µA to 1000 µA	0.54 % to 0.14 %
25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi - Product Calibrator and 50 turn Coil by Direct Method	20 A to 1000 A	4 % to 0.5 %

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 5 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Current Source by Direct Method	20 A to 50 A	2.44 % to 3.14 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45 Hz to 10 kHz	Using Multi - Product Calibrator by Direct Method	1 mV to 1 V	0.72 % to 0.028 %
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45 Hz to 10 kHz	Using Multi - Product Calibrator by Direct Method	1 V to 1000 V	0.028 % to 0.038 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multi - Product Calibrator by Direct Method	0.22 nF to 1 µF	5.92 % to 0.42 %
30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Energy 3 Phase {50 Hz, 110 V, 20 mA to 5 A, 0.2 to UPF (Lead/ Lag) }	Using 3 Phase HT Energy Meter & 3 Phase Calibrator by Comparison Method	1.9 Wh to 400 kWh	0.34 %
31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 50 Hz to 1 kHz	Using Decade Inductance Box By Direct Method	100 µH to 1000 mH	3 %
32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Phase Angle (230 V, 1 A to 5 A, 50 Hz)	Using Multifunction Calibrator MFC by Direct Method	0° to 90°	0.15°

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 6 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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-Alternating Current (< 1 GHz) (Source)	Power Factor (230 V, 1 A to 5 A, 50 Hz)	Using Multifunction Function Calibrator by Direct Method	0.2 PF to UPF (Lead & Lag)	0.002 PF to 0.001 PF
34	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Tan Delta @ 50 Hz, Upto 10 kV	Using Standard Capacitor with Dissipation Box by Direct Method	0.0002 to 0.2	0.0006
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8 ½ DMM by Direct Method	1 µA to 100 mA	0.082 % to 0.075 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Multifunction Calibrator with 8½ Multimeter by Comparison method	1 µA to 100 mA	0.092 % to 0.0058 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Multimeter, Multifunction Calibrator by Comparison method	100 mA to 10 A	0.0058 % to 0.05 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8 ½ DMM by Direct Method	100 mA to 20 A	0.0053 % to 0.047 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Current	Using DC Shunt and 6½ DMM by V/R Method	10 A to 2000 A	0.17 %

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 7 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using High Voltage Divider with DU By Direct Method	1 kV to 15 kV	2.4 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using High Voltage Divider with DU & High Voltage Source By Comparison Method	1 kV to 50 kV	2.45 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8 ½ DMM by Direct Method	1 V to 1000 V	0.0017 % to 0.0009 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Multimeter, Multifunction Calibrator by Comparison method	1 V to 1000 V	0.0022 % to 0.0011 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8 ½ DMM by Direct Method	100 µV to 100 mV	0.153 % to 0.0017 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using Multifunction Calibrator with 8½ Multimeter by Comparison method	100 µV to 100 mV	0.286 % to 0.00185 %
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8 ½ DMM by Direct Method	100 mV to 1 V	0.0017 %

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 8 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using Multifunction Calibrator with 8½ Multimeter by Comparison method	100 mV to 1 V	0.00185 % to 0.0022 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 8 ½ DMM by Direct Method	1 M ohm to 20 G ohm	0.002 % to 0.15 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 8 ½ DMM by Direct Method	100 k ohm to 1 M ohm	0.002 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 Wire)	Using 8 ½ DMM by Direct Method	0.01 ohm to 1 kohm	0.046 % to 0.001 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 Wire)	Using 8 ½ DMM by Direct Method	1 k ohm to 100 k ohm	0.001 %
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 Wire)	Using8 ½ DMM & MFC by V/I Method	10 µohm to 100 mohm	0.17 % to 0.046 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Capacitance @ 100 Hz	Using Multifunction Calibrator By Direct Method	1 µF to 109 µF	0.42 % to 0.66 %

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 9 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi - Product Calibrator by Direct Method	1 µA to 1 mA	2.33 % to 0.017 %
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by Direct Method	1 mA to 100 mA	0.017 % to 0.015 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by Direct Method	100 mA to 20 A	0.015 % to 0.12 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC High Current	Using MFC with 50 Turn Coil by Direct Method	20 A to 1000 A	4.5 % to 0.5 %
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power (10 V to 1000 V, 1 A to 20 A)	Using Multifunction Calibrator MFC by Direct Method	10 W to 20 kW	0.034 % to 0.083 %
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi - Product Calibrator by Direct Method	100 µV to 100 mV	1.32 % to 0.0041 %
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi - Product Calibrator by Direct Method	100 mV to 1000 mV	0.0041 % to 0.0017 %

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 10 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator MFC by Direct method	1000 mV to 1000 V	0.0017 % to 0.0026 %
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire)	Using Decade Resistance Box by Direct Method	1 Gohm to 100 Gohm	2.31 % to 6 %
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance (2 Wire)	Using Decade Resistance Box by Direct Method	0.1 ohm to 1 ohm	1.3 % to 0.031 %
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance (4 Wire)	Using Decade Resistance Box by Direct Method	100 µohm	0.17 %
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance (4 Wire)	Using Decade Resistance Box by Direct Method	50 µohm	0.33 %
66	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance (4 Wire)	Using Decade Resistance Box by Direct Method	1 mohm	0.13 %
67	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance (4 Wire)	Using Decade Resistance Box by Direct Method	10 µohm	0.73%

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 11 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
68	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance (4 Wire)	Using Decade Resistance Box by Direct Method	10 mohm	0.13%
69	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance (4 Wire)	Using Decade Resistance Box by Direct Method	100 mohm	0.13%
70	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance (4 Wire)	Using Decade Resistance Box by Direct Method	500 µohm	0.16%
71	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Multifunction Calibrator By Direct Method	100 k ohm to 1000 k ohm	0.004 %
72	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Multifunction Calibrator By Direct Method	1000 ohm to 100 kohm	0.003 %
73	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Multifunction Calibrator By Direct Method	1 ohm to 1000 ohm	0.12 % to 0.003 %
74	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Multifunction Calibrator By Direct Method	1000 kohm to 1 Gohm	0.004 % to 1.79 %

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 12 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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-ELECTRICAL EQUIPMENT (Source)	Conductivity Meter	Using Decade Meg Ohm box by simulation method	1 µS/cm to 5000 µS/cm ((1 Mohm to 200 ohm)	3.11 % to 0.27 %
76	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - AC Amplitude @ 50 Hz	Using Multifunction with scope Option By Direct Method	1 mV to 100 V	3.5 % to 0.25 %
77	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Bandwidth	Using Multifunction Calibrator with Scope Option by Direct Method	Upto 600 MHz	5.02 %
78	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - DC Amplitude	Using Multifunction MFC with scope Option By Direct Method	1 mV to 100 V	3.5 % to 0.13 %
79	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Time Base @ 1 kHz	Using Multifunction calibrator with scope Option by Direct Method	2 ns to 5 s	0.36 % to 0.66 %
80	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	pH Meter	Using Multifunction Calibrator by Simulation Method	0 pH to 14 pH [(-) 416.90 mV to (+) 416.90 mV]	0.65 % to 0.05 %
81	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Transformer Trans Ratio	Using Trans Ratio Calibrator & 6½ DMM and 8½ DMM by V/V method	11 turn to 1100 turn	0.5 %

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 13 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
82	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD	Using 8½ DMM by Direct Method	(-) 200 °C to 800 °C	0.017 °C
83	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple B type	Using 8½ DMM by Direct Method	20 °C to 1700 °C	0.11 °C
84	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple J Type	Using 8½ DMM by Direct Method	(-) 200 °C to 1200 °C	0.046 °C
85	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple K Type	Using 8½ DMM by Direct Method	(-) 200 °C to 1200 °C	0.033 °C
86	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple N type	Using 8½ DMM by Direct Method	(-) 200 °C to 1200 °C	0.046 °C
87	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple R Type	Using 8½ DMM by Direct Method	20 °C to 1700 °C	0.11 °C
88	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple S Type	Using 8½ DMM by Direct Method	20 °C to 1700 °C	0.11 °C

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 14 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
89	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple T type	Using 8½ Digital multimeter by Direct Method	(-) 200 °C to 400 °C	0.046 °C
90	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 660 °C	0.078 °C
91	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple N type	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.25 °C
92	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple B type	Using Multifunction Calibrator by Direct Method	20 °C to 1700 °C	0.23 °C
93	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple J Type	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.049 °C
94	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple K type	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.07 °C
95	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple R type	Using Multifunction Calibrator by Direct Method	20 °C to 1700 °C	0.23 °C

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 15 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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-TEMPERATURE SIMULATION (Source)	Thermocouple S-type	Using Multifunction Calibrator by Direct Method	20 °C to 1700 °C	0.23 °C
97	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple T type	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 400 °C	0.16 °C
98	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 8 ½ DMM by Direct Method	10 Hz to 1 MHz	0.059 % to 0.001 %
99	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Calibrator by Comparison Method	0.1 s to 1 s	3.1 ms
100	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Calibrator by Comparison Method	1 Hr to 24 Hr	2 s to 50.63 s
101	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Calibrator by Comparison Method	1 s to 1 Hr	1.3 ms to 2 s
102	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multifunction Calibrator by Direct Method	10 Hz to 1 MHz	0.0007 %

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 16 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
103	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multifunction Calibrator by Direct Method	3 Hz to 10 Hz	0.003 % to 0.0007 %
104	FLUID FLOW-FLOW MEASURING DEVICES	Air Velocity/ Anemometer	Using Thermal Anemometer & Wind Tunnel by comparison method	0.4 m/s to 20 m/s	5.52 %
105	FLUID FLOW-FLOW MEASURING DEVICES	Orifice Manometer flow rate of HVS / RDS / PM10 Sampler (Medium: air)	Using Top Loading Orifice Flow Calibrator by Comparison Method as per IS 5182 (Part - 4) 1999	0.6 m^3/min to 1.4 m^3/min	3.86 %
106	FLUID FLOW-FLOW MEASURING DEVICES	Volumetric Flow Rate of Rotameter / Flow Calibrator / PM 2.5 Sampler / Air Flow Indicator (Medium: Air)	Using Air Flow Calibrator by Comparison Method as per ASTM D 5337	> 10 lpm to 20 lpm	3.51 %
107	FLUID FLOW-FLOW MEASURING DEVICES	Volumetric Flow Rate of Rotameter / Flow Calibrator/ Sampling Pump with display	Using Air Flow Calibrator by Comparison Method as per ASTM D 5337	0.2 lpm to 10.0 lpm	4.9 %
108	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact type)	Using Digital Tachometer ,Tachometer Calibrator & Generator by comparison method	100 rpm to 500 rpm	0.59 rpm

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 17 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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	Centrifuge, RPM Generator , RPM Indicator / Meter of Vibration Table / Bitumen Apparatus / Los Angeles Abrasion Testing Machine / Mortar Vibrating Machine	Using Non-contact Digital Tachometer by direct method	100 rpm to 500 rpm	0.45 rpm
110	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Generator , RPM Indicator / Meter of Vibration Table / Bitumen Apparatus / Los Angeles Abrasion Testing Machine / Mortar Vibrating Machine	Using Non-contact Digital Tachometer by direct method	1000 rpm to 6000 rpm	1.05 rpm
111	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Generator , RPM Indicator / Meter of Vibration Table / Bitumen Apparatus / Los Angeles Abrasion Testing Machine / Mortar Vibrating Machine	Using Non-contact Digital Tachometer by direct method	25000 rpm to 90000 rpm	11 rpm
112	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Generator , RPM Indicator / Meter of Vibration Table / Bitumen Apparatus / Los Angeles Abrasion Testing Machine / Mortar Vibrating Machine	Using Non-contact Digital Tachometer by direct method	6000 rpm to 8500 rpm	1.4 rpm

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 18 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
113	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Generator , RPM Indicator / Meter of Vibration Table / Bitumen Apparatus / Los Angeles Abrasion Testing Machine / Mortar Vibrating Machine	Using Non-contact Digital Tachometer by direct method	8500 rpm to 25000 rpm	3.46 rpm
114	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Generator , RPM Indicator / Sensor / Meter of Vibration Table / Bitumen Apparatus / Los Angeles Abrasion Testing Machine / Mortar Vibrating Machine	Using Non-contact Digital Tachometer by direct method	500 rpm to 1000 rpm	0.91 rpm
115	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Generator , RPM Indicator /Meter of Vibration Table / Bitumen Apparatus / Los Angeles Abrasion Testing Machine / Mortar Vibrating Machine	Using Non-contact Digital Tachometer by direct method	6 rpm to 100 rpm	0.37 rpm
116	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact type)	Using Digital Tachometer ,Tachometer Calibrator & Generator by comparison method	10 rpm to 100 rpm	0.38 rpm

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 19 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
117	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact type)	Using Digital Tachometer ,Tachometer Calibrator & Generator by comparison method	1000 rpm to 6000 rpm	3.7 rpm
118	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact type)	Using Digital Tachometer ,Tachometer Calibrator & Generator by comparison method	500 rpm to 1000 rpm	1.03 rpm
119	MECHANICAL-ACCELERATION AND SPEED	Tachometer, Stroboscope, RPM Indicator / Meter (Non-contact Type)	Using Digital Tachometer ,Tachometer Calibrator & Generator by comparison method	25000 rpm to 90000 rpm	11 rpm
120	MECHANICAL-ACCELERATION AND SPEED	Tachometer, Stroboscope, RPM Indicator / Meter (Non-contact Type)	Using Non-contact Digital Tachometer, Tachometer Calibrator & Generator by comaprsion method	100 rpm to 500 rpm	0.51 rpm
121	MECHANICAL-ACCELERATION AND SPEED	Tachometer, Stroboscope, RPM Indicator / Meter (Non-contact Type)	Using Non-contact Digital Tachometer by comaprsion method	1000 rpm to 6000 rpm	1.12 rpm
122	MECHANICAL-ACCELERATION AND SPEED	Tachometer, Stroboscope, RPM Indicator / Meter (Non-contact Type)	Using Non-contact Digital Tachometer, Tachometer Calibrator & Generator by comaprsion method	500 rpm to 1000 rpm	0.93 rpm

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 20 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
123	MECHANICAL-ACCELERATION AND SPEED	Tachometer, Stroboscope, RPM Indicator / Meter (Non-contact Type)	Using Non-contact Digital Tachometer, Tachometer Calibrator & Generator by comaprsion method	6 rpm to 100 rpm	0.45 rpm
124	MECHANICAL-ACCELERATION AND SPEED	Tachometer, Stroboscope, RPM Indicator / Meter (Non-contact Type)	Using Non-contact Digital Tachometer by comaprsion method	6000 rpm to 8500 rpm	1.48 rpm
125	MECHANICAL-ACCELERATION AND SPEED	Tachometer, Stroboscope, RPM Indicator / Meter (Non-contact Type)	Using Digital Tachometer ,Tachometer Calibrator & Generator by comparison method	8500 rpm to 25000 rpm	3.55 rpm
126	MECHANICAL-ACOUSTICS	Sound Level Meter	Using Sound Calibrator by direct method	114 dB	0.27 dB
127	MECHANICAL-ACOUSTICS	Sound Level Meter	Using Sound Calibrator by direct method	94 dB	0.26 dB
128	MECHANICAL-DENSITY AND VISCOSITY	Digital Hydrometer / Density Hydrometer / Sp. Gr. Hydrometer / Sikes Hydrometer / Alcoholmeter / Brix Hydrometer / Soil Hydrometer / Lactometer / Urinometer	Using Hydrometer by Comparison Method	1.0 sp. gr. to 2.0 sp. gr.	0.002 sp. gr.
129	MECHANICAL-DENSITY AND VISCOSITY	Digital Hydrometer / Density Hydrometer / Sp. Gr. Hydrometer / Sikes Hydrometer / Alcoholmeter / Soil Hydrometer	Using Hydrometer by Comparison Method	0.6 g/ml to 1.0 g/ml	0.001 g/ml

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 21 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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-DENSITY AND VISCOSITY	Glass Capillary Viscometer (Direct / Reverse Flow) Measurement of Viscometer Constant	Using Standard Viscometer Tube & Standard Newtonian Liquid (Direct & Reverse Flow procedure) as per ASTM D446-12	0.002 cSt/s to 0.01 cSt/s	0.25 %
131	MECHANICAL-DENSITY AND VISCOSITY	Glass Capillary Viscometer (Direct / Reverse Flow) Measurement of Viscometer Constant	Using Standard Viscometer Tube & Standard Newtonian Liquid (Direct & Reverse Flow procedure) as per ASTM D446-12	0.01 cSt/s to 0.1 cSt/s	0.35 %
132	MECHANICAL-DENSITY AND VISCOSITY	Glass Capillary Viscometer (Direct / Reverse Flow) Measurement of Viscometer Constant	Using Standard Viscometer Tube & Standard Newtonian Liquid (Direct & Reverse Flow procedure) as per ASTM D446-12	0.1 cSt/s to 2.0 cSt/s	0.40 %
133	MECHANICAL-DENSITY AND VISCOSITY	Glass Capillary Viscometer (Direct / Reverse Flow) Measurement of Viscometer Constant	Using Standard Viscometer Tube & Standard Newtonian Liquid (Direct & Reverse Flow procedure) as per ASTM D446-12	2.0 cSt/s to 20.0 cSt/s	0.45 %
134	MECHANICAL-DENSITY AND VISCOSITY	Kinematic Viscosity of Newtonian Liquid	Using Glass Capillary Viscometer / CRM as per ASTM D445-24 / ISO 3104:2023	1 cSt to 10 cSt	0.38 %
135	MECHANICAL-DENSITY AND VISCOSITY	Kinematic Viscosity of Newtonian Liquid	Using Glass Capillary Viscometer / CRM as per ASTM D445-24 / ISO 3104:2023	10 cSt to 100 cSt	0.41 %

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 22 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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-DENSITY AND VISCOSITY	Kinematic Viscosity of Newtonian Liquid	Using Glass Capillary Viscometer / CRM as per ASTM D445-24 / ISO 3104:2023	1000 cSt to 10000 cSt	0.45 %
137	MECHANICAL-DENSITY AND VISCOSITY	Kinematic Viscosity of Newtonian Liquid	Using Glass Capillary Viscometer / CRM as per ASTM D445-24 / ISO 3104:2023	100 cSt to 1000 cSt	0.41 %
138	MECHANICAL-DENSITY AND VISCOSITY	Rotational Viscometer	Using Standard Newtonian Liquid as per ASTM D4016-14/ISO 2555:2018	10 cP to 10000 cP	1.1 %
139	MECHANICAL-DENSITY AND VISCOSITY	Viscosity Cup - Ford / Flow Cup (B1 to B6), Zahn Cup (1 to 5), Shell Cup (1 to 6)	Using standard Newtonian Liquid viscometer oil as per ASTM D1200-23 / ASTM D4212-16 / ASTM D5125-10	2 cSt to 1840 cSt	0.71 %
140	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Aggregate Crushing Mould / Vicat Mould / Beam Mould / Compaction Mould / Aggregate Impact Value Apparatus / Marshal Mould	Using Digimatic Caliper by direct method	Up to 500 mm	26 µm
141	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Gauges / Angular Template / Form Gauge	Using Profile Projector by direct method	0° to 360°	90 second of Arc

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 23 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Graticule (L.C: 1 min of Arc)	Using Profile Projector by direct method	0° to 360°	90 second of Arc
143	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate - Parallelism	Using Electronic Comparator and surface plate by direct method	Up to 200 mm	6.0 µm
144	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate- Flatness	Using Electronic Comparator and surface plate by direct method	Upto 200 mm	6 µm
145	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate- Squareness	Using 2D Electronic Height Gauge & Digimatic Indicator by direct method	Up to 200 mm	6 µm
146	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angular Protractor / Bevel Protractor / Combination Set (L.C.: 1 min of arc)	Using Angle Gauge Block / Profile Projector by direct method	0° to 180°	35 second of arc
147	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angular Protractor / Bevel Protractor / Combination Set (L.C.: 5 min of arc)	Using Angle Gauge Block / Profile Projector by direct method	0° to 180°	4 min of arc

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 24 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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.)	Angular Scale (L.C: 1 min of Arc)	Using Profile Projector by direct method	0° to 360°	7 min of arc
149	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Brinell Microscope - Linear (L.C.: 0.01 mm)	Using Glass Scale by direct method	0 to 10 mm	2.0 µm
150	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Circumference Tape / Diameter Tape / Pi Tape, (L.C.: 0.01 mm)	Using Scale & Tape Calibrator by direct method	0 to 2000 mm	183.2 sqrt D (where D is in m) µm
151	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Clinometer (L.C.: 1 min of arc)	Using Sine Bar, Gauge Block & Master Cylinder by direct method	0° to 180°	1 min of arc
152	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C: 1 µm)	Using Foil by direct method	660 µm to 2000 µm	3.2 µm
153	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C. : 0.1 µm)	Using Foil by direct method	0 to 100 µm	2.5 µm

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 25 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
154	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C: 1 µm)	Using Foil by direct method	100 µm to 660 µm	2.5 µm
155	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand (Flatness of Base)	Using Electronic Comparator & Electronic Level, Tilting Table by direct method	Up to 300 mm	5.2 µm
156	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Contraction Scale	Using Scale & Tape Calibrator by direct method	0 to 1000 mm	117 sqrt L (where L is in m) µm
157	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cross Hatch Cutter (Angle)	Using Profile Projector by direct method	0° to 45°	45 second of Arc
158	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cross Hatch Cutter (Pitch)	Using Profile Projector by direct method	0 to 5 mm	5.0 µm

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 26 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cube Mould / Morter Cube Mould / CBR Mould / Le-Chatlier Mould / Proctor Mould / Sand Pouring Cylinder / Core Cutter with Dolly / Slump Cone with Tamping Rod	Using Digimatic Caliper by direct method	Up to 500 mm	26 µm
160	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Measuring Pin	Using Gauge Blocks, Electronic Comparator by direct method	0.1 mm to 20 mm	1 µm
161	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge (L.C.: 0.01 mm)	Using Gauge Block Set, Long Slip Gauge by direct method	0 to 300 mm	9.0 µm
162	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge(L.C.: 0.01 mm)	Using Gauge Block Set, Long Slip Gauge by direct method	0 to 600 mm	11.0 µm
163	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer (L.C.: 0.001 mm)	Using Gauge Block, Long Slip Gauge by direct method	0 to 150 mm	2.4 µm

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 27 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
164	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer (L.C.: 0.001 mm)	Using Gauge Block, Long Slip Gauge by direct method	0 to 300 mm	4.5 µm
165	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial / Digimatic Bore Gauge (Transmission Movement) (L.C.: 0.001 mm)	Using ULM by direct method	0 to 2 mm	1.6 µm
166	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial / Digimatic Indicator (Lever Type), (L.C.: 0.001 mm)	Using ULM by direct method	0 to 2 mm	1.6 µm
167	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial / Digimatic Indicator -Plunger Type (L.C.: 0.001 mm)	Using ULM by direct method	0 to 50 mm	2 µm
168	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial / Digimatic Indicator-Plunger Type (L.C.: 0.001 mm)	Using ULM by direct method	0 to 25 mm	1.4 µm
169	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial / Digimatic Indicator-Plunger Type (L.C.:0.0005 mm)	Using ULM by direct method	0 to 1 mm	0.7 µm

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 28 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
170	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial / Digimatic Indicator-Plunger Type (L.C.:0.0005 mm)	Using ULM by direct method	1 mm to 12.7 mm	1 µm
171	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial / Digimatic Thickness Gauge (L.C.: 0.001 mm)	Using Gauge Blocks by direct method	0 to 10 mm	1 µm
172	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial / Digimatic Thickness Gauge (L.C.: 0.001 mm)	Using Gauge Blocks by direct method	0 to 50 mm	1.1 µm
173	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Diamond Indenter	Using Profile Projector by direct method	Up to 136°	90 second of Arc
174	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Elongation Gauge (Pin - Height & Gap) / Vicat Apparatus (Pin - Length)	Using Digimatic Caliper by direct method	Up to 100 mm	26 µm
175	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Elongation Gauge / Vicat Apparatus (Pin Diameter)	Using Digimatic External Micrometer by direct method	1 mm to 10 mm	5.0 µm

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 29 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
176	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer's Parallel (Thickness / width variation in thickness / parallelism / Equality of pairs)	Using Gauge Block & Electronic Comparator by direct method	Up to 500 mm	2.0 µm
177	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer's Square - Straightness	Using Gauge Block & Electronic Comparator, Surface plate by direct method	Up to 450 mm	3.0 µm
178	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer's Square-Parallelism	Using Gauge Block & Electronic Comparator by direct method	Up to 450 mm	3 µm
179	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer's Square-Squareness	Using 2D Electronic Height Gauge & Digimatic Indicator by direct method	Up to 450 mm	6.0 µm
180	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Extensometer (L.C.: 0.001 mm)	Using Gauge Block, Electronic Comparator & Digimatic Caliper by direct method	Up to 150 mm	7.0 µm
181	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External / Internal Dial / Digimatic Caliper,(L.C. : 0.01 mm)	Using Gauge Blocks by direct method	0 to 100 mm	5.0 µm

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 30 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
182	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm)	Using Gauge Block Set, Long Slip Gauge by direct method	25 mm to 150 mm	2.2 µm
183	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm)	Using Gauge Block Set, Long Slip Gauge by direct method	300 mm to 600 mm	8.8 µm
184	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.0001 mm)	Using Gauge Block Set, Long Slip Gauge by direct method	0 to 25 mm	0.5 µm
185	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm)	Using Gauge Block Set, Long Slip Gauge by direct method	0 to 25 mm	1.3 µm
186	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.:0.001 mm)	Using Gauge Block Set, Long Slip Gauge by direct method	150 mm to 300 mm	4.5 µm
187	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Electronic Comparator by direct method	0.03 mm to 1 mm	0.7 µm

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 31 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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.)	Flakiness Gauge	Using Digimatic Caliper by direct method	1 mm to 100 mm	27.6 µm
189	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Foil	Using Slip Gauge & Electronic Comparator by comparison method	2 mm to 5 mm	4.8 µm
190	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Foil	Using Slip Gauge & Electronic Comparator by comparison method	5 mm to 10 mm	8.0 µm
191	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Foil	Using Electronic Comparator by direct method	Up to 2 mm	2.0 µm
192	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Gauges / Template (Length / Width / Height / Centre Distance / Diameter)	Using Profile Projector by Direct Method	Upto 250 mm	5 µm
193	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Gear Tooth Vernier (L.C.: 0.02 mm)	Using Gauge Blocks by direct method	0 to 50 mm	13.0 µm

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 32 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
194	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Groove Micrometer (L.C.: 0.01 mm)	Using Gauge Block by direct method	0 to 100 mm	8.0 µm
195	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	GSM Cutter / Finger Diameter of Crock Meter / GSM Template	Using Digimatic Caliper by direct method	Up to 250 mm	20 µm
196	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Hegman Gauge / Film Applicator	Using Electronic Comparator by direct method	Up to 1 mm	2.3 µm
197	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (L.C.: 0.01 mm)	Using Gauge Block, Long Slip Gauge and Surface Plate by direct method	0 to 300 mm	8.3 µm
198	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (L.C.: 0.01 mm)	Using Gauge Block Long Slip Gauge and Surface Plate by direct method	300 mm to 600 mm	11.0 µm
199	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (L.C.: 0.01 mm)	Using Gauge Block Long Slip Gauge and Surface Plate by direct method	600 mm to 1000 mm	16.0 µm

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 33 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
200	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer (L.C.: 0.001 mm)	Using Gauge Block & Electronic Comparator / ULM by direct method	5 mm to 50 mm	2.0 µm
201	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer (L.C.:0.001 mm)	Using Gauge Block & 2D Electronic Height Gauge by comparison method	350 mm to 650 mm	8.5 µm
202	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer (L.C.:0.001 mm)	Using Gauge Block & Electronic Comparator / ULM by comparison method	50 mm to 350 mm	5.3 µm
203	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Limit Gauge / CD Gauge / PCD Gauge / Inspection Jig & Fixture (Length / Width / Height / Centre Distance / Diameter)	Using 2D Electronic Height Gauge by direct method	Upto 600 mm	6.0 µm
204	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale (L.C.: 0.1 mm)	Using Scale & Tape Calibrator by direct method	0 to 2000 mm	118 sqrt L µm (where L is in m)
205	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape (L.C. : 0.5 mm)	Using Scale & Tape Calibrator by direct Method	0 to 200 m	118 sqrt L µm (where L is in m)

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 34 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
206	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Head / Drum (L.C.: 0.0001 mm)	Using Gauge Block & Electronic Comparator by comparison method	0 to 25 mm	1.0 µm
207	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod / Setting Rod	Using Gauge Blocks, Electronic Comparator by comparison method	25 mm to 275 mm	4 µm
208	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod / Setting Rod	Using Gauge Blocks & Electronic Comparator by comparison method	275 mm to 600 mm	8.5 µm
209	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper (L.C.:0.1 mm)	Using Gauge Blocks by direct method	0 to 100 mm	57.8 µm
210	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain / Master / Setting Ring Gauge	Using ULM & Setting Ring by comparison method	200 mm to 300 mm	2.0 µm
211	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain / Master / Setting Ring Gauge	Using ULM & Setting Ring by comparison method	25 mm to 200 mm	2.0 µm

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 35 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
212	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain / Master / Setting Ring Gauge	Using ULM & Setting Ring by comparison method	3 mm to 25 mm	1.0 µm
213	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain / Master / Setting Ring Gauge	Using ULM & Setting Ring by comparison method	300 mm to 400 mm	3.0 µm
214	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Gauge Block & Electronic Comparator by comparison method	1 mm to 25 mm	1.2 µm
215	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Gauge Block & Electronic Comparator by comparison method	100 mm to 200 mm	3.0 µm
216	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Gauge Block & Electronic Comparator by comparison method	200 mm to 400 mm	4 µm
217	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Gauge Block & Electronic Comparator by comparison method	25 mm to 100 mm	1.7 µm

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 36 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
218	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge / Profile Gauge	Using Profile Projector by direct method	0.25 mm to 40 mm	8.5 µm
219	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Scale & Tape Calibrator (L.C.: 0.001 mm)	Using Gauge Block, Long Slip Gauge by direct method	0 to 1000 mm	7.8 µm
220	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge / Dial Snap Gauge / Adjustable Snap Gauge	Using ULM and Ring Gauge by Comparison method	100 mm to 300 mm	3.0 µm
221	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge / Dial Snap Gauge / Adjustable Snap Gauge	Using ULM and Ring Gauge by Comparison method	3 mm to 100 mm	2.0 µm
222	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Soil Cone Penetrometer (Angle of Cone)	Using Profile Projector by direct method	30.5°	90 second of arc
223	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Soil Cone Penetrometer / Vicat Apparatus - Scale (L.C. 1 mm)	Using Scale & Tape Calibration Unit by direct method	0 to 50 mm	130 µm

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 37 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
224	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spirit Level (L.C.:10 µm/m)	Using Electronic Level & Tilting Table by comparison method	Up to 10 mm/m	6 µm/m
225	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Steel Ball (Diameter)	Using Universal Length Measuring Machine by direct method	Up to 50 mm	1.2 µm
226	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Step Gauge	Using Gauge Block & Electronic Comparator by direct method	0.5 mm to 100 mm	1.7 µm
227	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge (Parallelism)	Using Electronic Comparator by direct method	Up to 3000 mm	2.30 µm
228	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge (Straightness)	Using Precision Electronic Level & Electronic Comparator by Comparison method	Up to 3000 mm	3.9 µm/m
229	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using Electronic Precision Level by direct method	upto 4000 mm X 2000 mm	0.6 X sqrt {(L+W)/125} µm Where L is Length & W is Width in mm

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 38 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
230	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Plug Gauge (Gauge Length/Half Taper Angle /Major Diameter)	Using ULM, Gauge Block & Standard Pin by direct method	Up to 200 mm	1.6 µm
231	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Plug: Half Taper Angle	Using ULM, Gauge Block & Standard Pin by direct method	0° to 15°	34 second of Arc
232	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Ring Gauge - Half Taper Angle	Using ULM, Gauge Block & Ruby Probe by direct method	0° to 15°	34 second of Arc
233	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Ring Gauge(Gauge Length /Half Taper Angle/Major Diameter)	Using ULM, Gauge Block & Ruby Probe by direct method	6 mm to 200 mm	1.6 µm
234	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Scale	Using Profile Projector by direct method	Up to 15 mm	30.0 µm
235	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge (Effective Diameter)	Using ULM, Thread Measuring Wire, Gauge Block by direct method	100 mm to 150 mm	4.5 µm

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 39 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
236	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge(Effective Diameter)	Using ULM, Thread Measuring Wire, Gauge Block by direct method	3 mm to 100 mm	3.0 µm
237	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Profile Projector by direct method	0.032 mm to 4 mm	6.0 µm
238	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Digimatic Caliper by direct method	4 mm to 125 mm	9.0 µm
239	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring Wire	Using Gauge Blocks, Electronic Comparator / ULM by Comprison method	0.17 mm to 6.35 mm	0.8 µm
240	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Angle)	Using Profile Projector by direct method	55° to 60°	62 second of Arc
241	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Pitch)	Using Profile Projector by direct method	0.2 mm to 7 mm	5.0 µm

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 40 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
242	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Major Diameter & Effective Diameter)	Using ULM, Thread Measuring Wire, Gauge Block by direct method	100 mm to 200 mm	4.5 µm
243	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Major Diameter & Effective Diameter)	Using ULM, Thread Measuring Wire, Gauge Block by direct method	4 mm to 100 mm	3.0 µm
244	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Minor Diameter & Effective Diameter)	Using ULM, Ruby Probe & Setting Ring Gauge by direct method	6 mm to 100 mm	3.0 µm
245	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Three Anvil Internal Micrometer(L.C.: 0.001 mm)	Using ULM, Cylindrical Setting Master by direct method	0 to 100 mm	4 µm
246	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Travelling Microscope (L.C.: 0.01 mm)	Using Glass Scale by direct method	Up to 220 mm	7.2 µm
247	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge (L.C.: 0.001 mm)	Using Gauge Block by direct method	Up to 100 mm	9.5 µm

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 41 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V - Block (Angle)	Using Profile Projector by direct method	Up to 90 °	1.0 min of Arc
249	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block (Flatness)	Using Electronic Comparator, Gauge Block & Mandrel by direct method	Up to 200 mm	4 µm
250	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block (Parallelism)	Using Electronic Comparator, Gauge Block & Mandrel by direct method	Up to 200 mm	4 µm
251	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block (Symmetricity)	Using Electronic Comparator, Gauge Block & Mandrel by direct method	Up to 200 mm	4 µm
252	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier / Dial / Digimatic Caliper (L.C.: 0.005 mm)	Using Gauge Block, Long Slip Gauge by direct method	0 to 300 mm	5 µm
253	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier / Dial / Digimatic Caliper (L.C.: 0.01 mm)	Using Gauge Block, Long Slip Gauge by direct method	0 to 1000 mm	16 µm

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 42 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
254	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier / Dial / Digimatic Caliper (L.C.: 0.01 mm)	Using Gauge Block, Long Slip Gauge by comparison method	0 to 300 mm	8 µm
255	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier / Dial / Digimatic Caliper (L.C.: 0.01 mm)	Using Gauge Block, Long Slip Gauge by direct method	0 to 600 mm	11 µm
256	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Welding Gauge (Angular Scale), (L.C.: 30 second of Arc)	Using Profile Projector by direct method	Up to 90°	1 min of Arc
257	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Welding Gauge (Linear Scale), (L.C.: 0.001 mm)	Using Profile Projector, Slip Gauge by direct method	Up to 50 mm	9.0 µm
258	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wet Film Thickness Gauge	Using Profile Projector by direct method	Up to 2 mm	9.0 µm
259	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wire Gauge	Using Profile Projector by direct method	0.19 mm to 10 mm	4.7 µm

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 43 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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-DIMENSION (PRECISION INSTRUMENTS)	2D Electronic Height Gauge - Indication Accuracy, (L.C.: 0.0001 mm)	Using Gauge Block by direct method	0 to 600 mm	Q(1.27 µm , 5.31E-3 L), Where Q[a, b] = $[a^2 + b^2]^{1/2}$ (L is in mm)
261	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Electronic Height Gauge - Squareness, (L.C.: 0.0001 mm)	Using Granite L Square & Digimatic Indicator by Comparison Method	0 to 600 mm	4.0 µm
262	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Cylindrical Setting Master	Using Gauge Blocks, Electronic Comparator / ULM by comparison method	3 mm to 100 mm	1.5 µm
263	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial Calibration Tester, Least Count : 0.0001 mm	Using Gauge Block & Electronic Comparator by comparison method	0 to 25 mm	1.0 µm
264	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	LVDT / Probe With D.R.O / Electronic Comparator, (L.C.: 0.1 µm)	Using Gauge Blocks by direct method	0 to 10 mm	0.4 µm
265	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	LVDT / Probe With D.R.O / Electronic Comparator, (L.C.: 0.1 µm)	Using Gauge Blocks by direct method	0 to 100 mm	1.0 µm
266	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	LVDT / Probe With D.R.O / Electronic Comparator, (L.C.: 0.1 µm)	Using Gauge Blocks by direct method	0 to 25 mm	0.6 µm
267	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Microscope (Magnification)	Using Glass Scale & Digimatic Caliper by direct method	10 X to 100 X	0.20 %

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 44 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
268	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine / Vision Measuring System / Microscope (Angular Scale), Least Count : 1 sec of Arc	Using Angle Gauge Block by direct method	0° to 360°	1.0 min of Arc
269	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine / Vision Measuring System / Microscope (Linear Scale), Least Count : 0.001 mm	Using Glass Scale by direct method	Up to 300 mm	3.0 µm
270	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Sine Bar (Angle)	Using Gauge Block, Angle Gauge, Electronic Comparator & 2D Electronic Height Gauge by Direct method	Up to 300 mm	8 second of arc
271	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Sine Bar (Linear)	Using Gauge Blocks, Electronic Comparator & 2D Electronic Height Gauge by direct method	Up to to 300 mm	3.0 µm
272	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring Machine (L.C.: 0.0001 mm)	Using Slip Gauge, Long Slip Gauge by direct method	0 to 100 mm	0.7 µm
273	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring Machine (L.C.: 0.0001 mm)	Using Slip Gauge, Long Slip Gauge by direct method	0 to 200 mm	1.25 µm

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 45 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring Machine (L.C.: 0.0001 mm)	Using Slip Gauge, Long Slip Gauge by direct method	0 to 600 mm	3.0 µm
275	MECHANICAL-DUROMETER	Rubber Hardness Tester (Shore D Hardness Tester)	Using Digital Balance and fixture as per ASTM D2240-15 / ISO 18898:2016	0 to 100 Shore D	0.76 Shore D
276	MECHANICAL-DUROMETER	Rubber Hardness Tester (Shore-A Hardness Tester)	Using Digital Balance and fixture as per ASTM D2240-15 / ISO 18898:2016	0 to 100 Shore A	0.76 Shore A
277	MECHANICAL-PRESSURE BALANCE OR DEAD WEIGHT TESTER	Hydraulic Pressure Dead Weight Tester	Using Dead Weight Tester by Cross Float Method (Pressure Generated Method)	1 bar to 20 bar	0.005 %
278	MECHANICAL-PRESSURE BALANCE OR DEAD WEIGHT TESTER	Hydraulic Pressure Dead Weight Tester	Using Dead Weight Tester by Cross Float Method (Pressure Generated Method)	20 bar to 1200 bar	0.005 %
279	MECHANICAL-PRESSURE INDICATING DEVICES	Barometer / Absolute Pressure Gauge / Switch / Transducer / Transmitter / Calibrator	Using Pressure Calibrator, 6½ digit DMM by Comparison Method	0 to 2 bar (abs)	Q(5.77E-05 bar, 0.024 %), Where Q[a, b] = $[a^2 + b^2]^{1/2}$

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 46 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
280	MECHANICAL-PRESSURE INDICATING DEVICES	Magnehelic Gauge / Manometer / Pressure / Differential Pressure Gauge / Transmitter / Transducer / Switch / Calibrator (Medium:Pneumatic)	Using Pressure Calibrator, 6½ digit DMM by Comparison Method as per DKD R-6-1	0 to 7 kPa	Q(5.77E-04 kPa, 0.063 %), Where Q[a, b] = [a2 + b2]1/2
281	MECHANICAL-PRESSURE INDICATING DEVICES	Manometer / Sphygmo Manometer (Medium: Pneumatic)	Using Pressure Calibrator, 6½ digit DMM by Comparison Method as per DKD R-6-1	0 to 2.0 bar	Q (5.77E-05 bar, 0.044 %), Where Q[a, b] = $[a^2 + b^2]^{1/2}$
282	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure / Differential Pressure Gauge / Switch / Transducer / Transmitter / Calibrator (Medium: Hydraulic)	Using Dead Weight Tester, 6½ digit DMM by Comparison Method as per DKD R-6-1	1 bar to 20 bar	Q(5.77E-04 bar, 0.01 %), Where Q[a, b] = $[a^2 + b^2]^{1/2}$
283	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure / Differential Pressure Gauge / Switch / Transducer / Transmitter / Calibrator (Medium: Hydraulic Pressure)	Using Pressure Calibrator, 6½ digit DMM by Comparison Method as per DKD R-6-1	0 to 70 bar	Q(5.77E-04 bar, 0.019 %), Where Q[a, b] = $[a^2 + b^2]^{1/2}$
284	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure / Differential Pressure Gauge / Switch / Transducer / Transmitter / Calibrator (Medium: Hydraulic Pressure)	Using Pressure Calibrator, 6½ digit DMM by Comparison Method DKD R-6-1	0 to 700 bar	Q(5.77E-03 bar, 0.019 %), Where Q[a, b] = $[a^2 + b^2]^{1/2}$

National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 47 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
285	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure / Differential Pressure Gauge / Switch / Transducer / Transmitter / Calibrator (Medium: Hydraulic Pressure)	Using Dead Weight Tester , 6½ digit DMM by Comparison Method as per DKD R-6-1	1 bar to 700 bar	Q (5.77E-03 bar, 0.01 %), Where Q[a, b] = $[a^2 + b^2]^{1/2}$
286	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure / Differential Pressure Gauge / Switch / Transducer / Transmitter / Calibrator (Medium: Pneumatic)	Using Pressure Calibrator, 6½ digit DMM by Comparison Method as per DKD R-6-1	0 to 35 bar	Q(5.77E-04 bar, 0.023 %), Where Q[a, b] = $[a^2 + b^2]^{1/2}$
287	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure / Differential Pressure Gauge / Switch / Transducer / Transmitter / Calibrator	Using Dead Weight Tester , 6½ digit DMM by Comparison Method as per DKD R-6-1	1 bar to 1200 bar	Q(5.77E-02 bar, 0.03 %), Where Q[a, b] = $[a^2 + b^2]^{1/2}$
288	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure / Differential Pressure Gauge / Switch / Transducer / Transmitter / Calibrator (Medium : Pneumatic)	Using Pressure Calibrator, 6½ digit DMM by Comparison Method as per DKD R-6-1	0 to 2 bar	Q(5.77E-05 bar, 0.044 %), Where Q[a, b] = $[a^2 + b^2]^{1/2}$
289	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure / Differential Pressure Gauge / Switch / Transducer / Transmitter / Calibrator (Medium: Hydraulic)	Using Pressure Calibrator, 6½ digit DMM by Comparison Method DKD R-6-1	0 bar to 1000 bar	Q(5.77E-02 bar, 0.04 %), Where Q[a, b] = $[a^2 + b^2]^{1/2}$
290	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge / Switch / Transducer / Transmitter / Calibrator	Using Pressure Calibrator, 6½ digit DMM by Comparison Method	(-)0.95 bar to 0	Q(5.77E-05 bar, 0.089 %), Where Q[a, b] = $[a^2 + b^2]^{1/2}$

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 48 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
291	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench (Type I class B & C, Type II class A & B)	Using Torque Transducer & Indicator with Torque Wrench Calibrator as per ISO 6789-2:2017	2 Nm to 200 Nm	2.3 %
292	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench (Type I class B & C, Type II class A & B)	Using Torque Transducer & Indicator with Torque Wrench Calibrator as per ISO 6789-2:2017	200 Nm to 2000 Nm	1.8 %
293	MECHANICAL-VOLUME	Burette	Using E1 Class Standard Weights with Electronic Balance (up to 121 g / 220 g of readability: 0.005 mg / 0.01 mg) as per ISO 4787:2021 & ISO/TR 20461:2023	0.01 ml to 100 ml	0.39 µl
294	MECHANICAL-VOLUME	Content Type Volumetric Measure	Using E1 Class Standard Weights with Electronic Balance (up to 5100 g of readability: 0.001 g) as per ISO 4787:2021 & ISO/TR 20461:2023	>100 ml to 2000 ml	18 µl
295	MECHANICAL-VOLUME	Content Type Volumetric Measure	Using E1 Class Standard Weights with Electronic Balance (up to 121 g / 220 g of readability: 0.005 mg / 0.01 mg) as per ISO 4787:2021 & ISO/TR 20461:2023	1 ml to 100 ml	0.39 µl

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 49 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
296	MECHANICAL-VOLUME	Pipette (Graduated / Non Graduated)	Using E1 Class Standard Weights with Electronic Balance (up to 121 g / 220 g of readability: 0.005 mg / 0.01 mg) as per ISO 4787:2021 & ISO/TR 20461:2023	0.01 ml to 100 ml	0.76 µl
297	MECHANICAL-VOLUME	Piston-operated (Pipette / Burette / Dilutor / Dispenser) / Syringe (Non medical purpose only)	Using Electronic Balance up to 6.1 g of d = 0.001 mg as per ISO 8655-6:2022 & ISO/TR 20461:2023	1 µl to 1000 µl	0.017 µl
298	MECHANICAL-VOLUME	Piston-operated (Pipette / Burette / Dilutor / Dispenser) / Syringe (Non medical purpose only)	Using Electronic Balance up to 121 g / 220 g (readability:0.005 mg / 0.01 mg)as per ISO 8655-6:2022 & ISO/TR 20461:2023	10 ml to 50 ml	0.15 µl
299	MECHANICAL-VOLUME	Piston-operated (Pipette / Burette / Dilutor / Dispenser) / Syringe (Non medical purpose only)	Using Electronic Balance up to 121 g / 220 g of d = 0.005 mg / 0.01 mg as per ISO 8655-6:2022 & ISO/TR 20461:2023	1000 µl to 5000 µl	0.050 µl
300	MECHANICAL-VOLUME	Piston-operated (Pipette / Burette / Dilutor / Dispenser) / Syringe (Non medical purpose only)	Using Electronic Balance up to 121 g / 220 g of d = 0.005 mg / 0.01 mg as per ISO 8655-6:2022 & ISO/TR 20461:2023	5000 µl to 10000 µl	0.083 µl
301	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance , Readability : 0.5 g (Class III & Coarser)	Using E1 Class Weight as per OIML R 76-1:2006 & OIML R 76-2:2007	Up to 5 kg	3.5 g

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 50 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
302	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance, Readability:10 g (Class III & Coarser)	Using F1 Class Weight as per OIML R 76-1:2006 & OIML R 76-2:2007	30 kg to 100 kg	30 g
303	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance, Readability:5 g (Class III & Coarser)	Using E2 Class Weight as per OIML R 76-1:2006 & OIML R 76-2:2007	5 kg to 30 kg	7.02 g
304	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance , Readability : 0.01 mg (Class I & Coarser)	Using E1 Class Weight as per OIML R 76-1:2006 & OIML R 76-2:2007	121 g to 220 g	0.04 mg
305	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance , Readability : 0.1 mg (Class I & Coarser)	Using E1 Class Weight as per OIML R 76-1:2006 & OIML R 76-2:2007	220 g to 520 g	0.099 mg
306	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance , Readability : 100 mg (Class II & Coarser)	Using E2 Class Weight as per OIML R 76-1:2006 & OIML R 76-2:2007	10.1 kg to 32.2 kg	71.13 mg
307	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance , Readability : 50 g (Class III & Coarser)	Using F1 Class Weight as per OIML R 76-1:2006 & OIML R 76-2:2007	200 kg to 500 kg	36 g
308	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance , Readability :1 g (Class II & Coarser)	Using F1 Class Weight as per OIML R 76-1:2006 & OIML R 76-2:2007	32.2 kg to 100 kg	705.70 mg
309	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance , Readability :10 mg (Class II & Coarser)	Using E2 Class Weight as per OIML R 76-1:2006 & OIML R 76-2:2007	5.1 kg to 10.1 kg	9 mg
310	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance , Readability :100 g (Class III & Coarser)	Using F1 Class Weight as per OIML R 76-1:2006 & OIML R 76-2:2007	500 kg to 2000 kg	100 g

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 51 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
311	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance , Readability: 0.001 mg (Class I & Coarser)	Using E1 Class Weight as per OIML R 76-1:2006 & OIML R 76-2:2007	6.1 g to 31 g	0.017 mg
312	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance , Readability: 1mg (Class I & Coarser)	Using E1 Class Weight as per OIML R 76-1:2006 & OIML R 76-2:2007	520 g to 5.1 kg	1.22 mg
313	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance , Readability:10 g (Class III & Coarser)	Using F1 Class Weight as per OIML R 76-1:2006 & OIML R 76-2:2007	100 kg to 200 kg	7.1 g
314	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance, Readability: 0.001 mg, (Class I & Coarser)	Using E1 Class Weight as per OIML R 76-1:2006 & OIML R 76-2:2007	1 mg to 6.1 g	0.01 mg
315	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance, Readability:0.005 mg (Class I & Coarser)	Using E1 Class Weight as per OIML R 76-1:2006 & OIML R 76-2:2007	31 g to 121 g	0.024 mg
316	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using E1 Class Weights with Electronic Balance (up to 6.1 g, readability: 0.001 mg) as per OIML R 111-1:2004	1 g	0.003 mg
317	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using E1 Class Weights with Electronic Balance (up to 6.1 g, readability:0.001 mg)as per OIML R 111-1:2004	1 mg	0.002 mg

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 52 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
318	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using E1 Class Weights with Electronic Balance (up to 121g / 220 g, readability: 0.005 mg / 0.01 mg) as per OIML R 111-1:2004	10 g	0.009 mg
319	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using E1 Class Weights with Electronic Balance (upto 6.1 g, readability:0.001 mg) as per OIML R 111-1:2004	10 mg	0.002 mg
320	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using E1 Class Weights with Electronic Balance (upto 121g / 220 g, readability: 0.005 mg / 0.01 mg) as per OIML R 111-1:2004	100 g	0.024 mg
321	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using E1 Class Weights with Electronic Balance (upto 6.1 g, readability:0.001 mg)as per OIML R 111-1:2004	100 mg	0.002 mg
322	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using E1 Class Weights with Electronic Balance (up to 6.1 g, readability:0.001 mg)as per OIML R 111-1:2004	2 g	0.005 mg

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 53 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
323	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using E1 Class Weights with Electronic Balance (up to 6.1 g of readability:0.001 mg) as per OIML R 111-1:2004	2 mg	0.002 mg
324	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using E1 Class Weights with Electronic Balance (upto 121g / 220 g, readability:0.005 mg / 0.01 mg) as per OIML R 111-1:2004	20 g	0.011 mg
325	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using E1 Class Weights with Electronic Balance (upto 6.1 g, readability:0.001 mg) as per OIML R 111-1:2004	20 mg	0.002 mg
326	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using E1 Class Weights with Electronic Balance (up to 121g / 220 g, readability: 0.005 mg / 0.01 mg) as per OIML R 111-1:2004	200 g	0.04 mg
327	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using E1 Class Weights with Electronic Balance (up to 6.1 g, readability:0.001 mg) as per OIML R 111-1:2004	200 mg	0.002 mg

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 54 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
328	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using E1 Class Weights with Electronic Balance (up to 6.1 g, Readability:0.001 mg)as per OIML R 111-1:2004	5 g	0.006 mg
329	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using E1 Class Weights with Electronic Balance (up to 6.1 g, readability: 0.001 mg)as per OIML R 111-1:2004	5 mg	0.002 mg
330	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using E1 Class Weights with Electronic Balance (upto 121g / 220 g, readability: 0.005 mg / 0.01 mg) as per OIML R 111-1:2004	50 g	0.013 mg
331	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using E1 Class Weights with Electronic Balance (upto 6.1 g , readability:0.001 mg) as per OIML R 111-1:2004	50 mg	0.002 mg
332	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using E1 Class Weights with Electronic Balance (upto 6.1 g, readability:0.001 mg) as per OIML R 111-1:2004	500 mg	0.003 mg

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 55 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
333	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Weights with Electronic Balance (up to 5100 g, readability:1 mg)as per OIML R 111-1:2004	1 kg	1 mg
334	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Weights with Electronic Balance (up to 5100 g, readability:1 mg)as per OIML R 111-1:2004	2 kg	1.06 mg
335	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Weights with Electronic Balance (up to 5100 g, readability:1 mg)as per OIML R 111-1:2004	5 kg	2 mg
336	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E2 Class Standard Weights with Electronic Balance (up to 10.1 kg, readability:0.01 g)as per OIML R 111-1:2004	10 kg	10 mg
337	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Weights with Electronic Balance (up to 5100 g, readability:1 mg) as per OIML R 111-1:2004	500 g	1 mg

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 56 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
338	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using E2 Class Weight with Electronic Balance (up to 32.2 kg, readability: 0.1 g)as per OIML R 111-1:2004	20 kg	100 mg
339	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	BiPAP (EPAP)	Using Gas Flow Analyzer by direct method	392.266 Pa to 2451.60 Pa (4 cmH_2O to 25 cmH_2O)	3.05 %
340	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	BiPAP (FiO2)	Using Gas Flow Analyzer by direct method	20 % to 100 %	2.42 %
341	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	BiPAP (IPAP)	Using Gas Flow Analyzer by direct method	392.266 Pa to 2451.60 Pa (4 cmH_2O to 25 cmH_2O)	2.3 %
342	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	BiPAP (RR)	Using Gas Flow Analyzer by direct method	4 brpm to 40 brpm	2 %
343	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	BiPAP (Ti)	Using Gas Flow Analyzer by direct method	0.5 s to 9.99 s	2.97 %
344	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	BP Apparatus (Sphygmomanometer) (Leak Test per minute)	Using Vital Sign Simulator by Simulation Method	0 to 15 mmHg (0 to 0.02 bar)	1.5 mmHg (0.002 bar)

National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 57 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
345	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	BP Apparatus (Sphygmomanometer) (Pressure Accuracy)	Using Vital sign simulator by Simulation Method	0 to 300 mmHg (0 to 0.40 bar)	4 %
346	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	CPAP (FiO2)	Using Gas Flow Analyzer by direct method	20 % to 100 %	2.42 %
347	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	CPAP (Positive Pressure)	Using Gas Flow Analyzer by direct method	588.399 Pa to 2451.60 Pa (6 cmH_2O to 25 cmH_2O)	2.3 %
348	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Digital BP Apparatus (Heart Rate Accuracy)	Using Vital sign simulator by Simulation Method	30 bpm to 320 bpm	2.24 % to 1.17 %
349	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Digital BP Apparatus (Pressure Accuracy)	Using Vital sign simulator by Simulation Method	30 mmHg to 150 mmHg (0.0399967 bar to 0.199984 bar)	5.52% to 2.02 %
350	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Digital BP Apparatus (Pressure Accuracy)	Using Vital sign simulator by Simulation Method	60 mmHg to 200 mmHg (0.079993 bar to 0.266645 bar)	5.52 % to 2.02% %
351	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Electrical Safety (AC Current @ 50 Hz)	Using Electrical Safety Analyser as per IEC 62353	0.1 A to 20 A	0.07A

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 58 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
352	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Electrical Safety (AC Voltage @ 50 Hz)	Using Electrical Safety Analyser as per IEC 62353	90 V to 264 V	2.4 %
353	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Electrical Safety (Earth Resistance)	Using Electrical Safety Analyser as per IEC 62353	0.5 ohm to 2 ohm	0.01 ohm
354	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Electrical Safety (Insulation Resistance)	Using Electrical Safety Analyser as per IEC 62353	20 Mohm to 100 Mohm	8.9 %
355	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Electrical Safety (Leakage Current)	Using Electrical Safety Analyser as per IEC 62353	1 µA to 10 mA	0.07 µA
356	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Electrical Safety (Leakage Current)	Using Electrical Safety Analyser as per IEC 62353	23 µA to 10 mA	1.3 µA to 3.1 µA
357	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Flow Meter	Using Gas Flow Analyzer by direct method	2 lpm to 15 lpm	0.54 lpm
358	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Infusion Pump (Flow)	Using Infusion Device Analyzer by direct method	50 ml/hr to 300 ml/hr	1.47 %

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 59 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
359	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Infusion Pump (Occlusion Pressure)	Using Infusion Device Analyzer by direct method	0 to 20 psi (0 to 1.37895 bar)	0.62 (0.04) psi (bar)
360	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Infusion Pump (Volume)	Using Infusion Device Analyzer by direct method	5 ml to 400 ml	3.08 % to 2.34 %
361	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Nebulizer (Flow)	Using Gas Flow Analyzer by direct method	2.5 lpm to 15 lpm	3.7 %
362	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Pulse Oxymeter (Heart Rate)	Using Pulse Oximeter Tester by Simulation Method	30 bpm to 240 bpm	2.24 % to 1.3 %
363	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Pulse Oxymeter (SPO2 Accuracy)	Using Pulse Oximeter Tester by Simulation Method	70 % to 100 %	5.8 %
364	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Suction Pump (Vacuum)	Using Gas Flow Analyzer by direct method	0 to 600 mmHg (0 to 0.80 bar)	15.23 mmHg (0.02 bar)
365	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Syringe Pump (Flow)	Using Infusion Device Analyzer by direct method	10 ml/hr to 200 ml/hr	3.44 % to 2 %

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 60 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
366	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Syringe Pump (Occlusion Pressure)	Using Infusion Device Analyzer by direct method	0 to 20 (1.38) psi (bar)	0.62 (0.04) psi (bar)
367	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Syringe Pump (Volume)	Using Infusion Device Analyzer by direct method	5 ml to 20 ml	0.12 ml to 0.47 ml
368	MEDICAL DEVICES-IMAGING/PLOTTERS	ECG Unit (Amplitude Accuracy)	Using Vital sign simulator by Simulation Method	0.5 mV to 5 mV	0.08 mV to 0.15 mV
369	MEDICAL DEVICES-IMAGING/PLOTTERS	ECG Unit (Heart Rate Accuracy)	Using Vital sign simulator by Simulation Method	30 bpm to 320 bpm	3.2 % to 1.6 %
370	MEDICAL DEVICES-IMAGING/PLOTTERS	Electrical Safety (AC Current @ 50 Hz)	Using Electrical Safety Analyser as per IEC 62353	0.1 A to 20 A	0.07 A
371	MEDICAL DEVICES-IMAGING/PLOTTERS	Electrical Safety (AC Voltage @ 50 Hz)	Using Electrical Safety Analyser as per IEC 62353	90 V to 264 V	2.4 %
372	MEDICAL DEVICES-IMAGING/PLOTTERS	Electrical Safety (Earth Resistance)	Using Electrical Safety Analyser as per IEC 62353	0.5 ohm to 2 ohm	0.01 ohm
373	MEDICAL DEVICES-IMAGING/PLOTTERS	Electrical Safety (Insulation Resistance)	Using Electrical Safety Analyser as per IEC 62353	20 Mohm to 100 Mohm	8.9 %

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 61 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
374	MEDICAL DEVICES-IMAGING/PLOTTERS	Electrical Safety (Leakage Current)	Using Electrical Safety Analyser as per IEC 62353	23 µA to 10 mA	1.3 µA to 3.1 µA
375	MEDICAL DEVICES-IMAGING/PLOTTERS	Electrical Safety (Leakage Current) @ 50 Hz	Using Electrical Safety Analyser as per IEC 62353	1 µA to 10 mA	0.07 µA
376	MEDICAL DEVICES-MONITORING UNIT	Electrical Safety (AC Current @ 50 Hz)	Using Electrical Safety Analyser as per IEC 62353	0.1 A to 20 A	0.07 A
377	MEDICAL DEVICES-MONITORING UNIT	Electrical Safety (AC Voltage @ 50 Hz)	Using Electrical Safety Analyser as per IEC 62353	90 V to 264 V	2.4%
378	MEDICAL DEVICES-MONITORING UNIT	Electrical Safety (AC Voltage@ 50 Hz)	Using Electrical Safety Analyser as per IEC 62353	0.5 ohm to 2 ohm	0.01 ohm
379	MEDICAL DEVICES-MONITORING UNIT	Electrical Safety (Insulation Resistance)	Using Electrical Safety Analyser as per IEC 62353	20 Mohm to 100 Mohm	8.9 %
380	MEDICAL DEVICES-MONITORING UNIT	Electrical Safety (Leakage Current)	Using Electrical Safety Analyser as per IEC 62353	1 µA to 10 mA	0.07 µA
381	MEDICAL DEVICES-MONITORING UNIT	Electrical Safety (Leakage Current)	Using Electrical Safety Analyser as per IEC 62353	23 µA to 10 mA	1.3 µA to 3.1 µA
382	MEDICAL DEVICES-MONITORING UNIT	Fetal Monitor (Fetal Heart Rate)	Using Fetal Simulator by Simulation Method	30 bpm to 240 bpm	1.94 % to 0.26 %

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 62 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
383	MEDICAL DEVICES-MONITORING UNIT	Patient Monitors (Heart Rate Accuracy)	Using Vital sign simulator and Pulse Oximeter Tester by Simulation Method	30 bpm to 320 bpm	2.6 %
384	MEDICAL DEVICES-MONITORING UNIT	Patient Monitors (Invasive Blood Pressure Accuracy)	Using Vital sign simulator by Simulation Method	15 mmHg to 150 mmHg (0.02 bar to 0.20 bar)	10 % to 1.77 %
385	MEDICAL DEVICES-MONITORING UNIT	Patient Monitors (Invasive Blood Pressure Accuracy)	Using Vital sign simulator by Simulation Method	35 mmHg to 200 mmHg (0.046 bar to 0.266 bar)	10.34 % to 1.77 %
386	MEDICAL DEVICES-MONITORING UNIT	Patient Monitors (NIBP Test)	Using Vital sign simulator by Simulation Method	15 mmHg to 150 mmHg (0.019 bar to 0.199 bar)	10 % to 1.77 %
387	MEDICAL DEVICES-MONITORING UNIT	Patient Monitors (Respiration Rate)	Using Vital sign simulator by Simulation Method	15 brpm to 100 brpm	9.28 %
388	MEDICAL DEVICES-MONITORING UNIT	Patient Monitors (SPO2 Accuracy Test)	Using Pulse Oximeter Tester by Simulation Method	70 % to 100 %	5.8 %
389	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Defibrillator (Charge Time After 10 Discharge Cycles)	Using Defibrillator Analyzer by direct method	1s to 15 s	0.09s
390	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Defibrillator (Energy Output Accuracy and Output Energy @ Maximum Setting For 10 cycle (at Battery power)	Using Defibrillator Analyzer by direct method	50 J to 270 J	1.64 % to 1.2 %

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 63 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
391	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electrical Safety (AC Voltage @ 50 Hz)	Using Electrical Safety Analyser as per IEC 62353	90 V to 264 V	2.4 %
392	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electrical Safety (Earth Resistance)	Using Electrical Safety Analyser as per IEC 62353	0.5 ohm to 2 ohm	0.01 ohm
393	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electrical Safety (Equipment AC Current) for All Applicable Medical Device	Using Electrical Safety Analyser as per IEC 62353	0.1 A to 20 A	0.07 A
394	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electrical Safety (Insulation Resistance) for All Applicable Medical Device	Using Electrical Safety Analyser as per IEC 62353	20 Mohm to 100 Mohm	8.9 %
395	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electrical Safety (Leakage Current) for All Applicable Medical Device	Using Electrical Safety Analyser as per IEC 62353	1 µA to 10 mA	0.07 µA
396	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electrical Safety (Leakage Current) for All Applicable Medical Device	Using Electrical Safety Analyser as per IEC 62353	23 µA to 10 mA	1.3 µA to 3.1 µA

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 64 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
397	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electro Surgery Unit (Output Power /Power distribution)	Using Electro Surgical Analyzer by direct method	20 W to 300 W	6.5 % to 5.8 %
398	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electronic Tourniquet (Cuff Pressure Accuracy)	Using Gas Flow Analyzer by direct method	0 to 10 (0.69) psi (bar)	0.3 (0.02) psi (bar)
399	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electronic Tourniquet (Max Cuff Pressure)	Using Gas Flow Analyzer by direct method	0 to 550 mmHg (0 to 0.73 bar)	3.93 %
400	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electronic Tourniquet (Timer Accuracy)	Using stop watch by direct method	1 s to 15 min	1 s
401	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Irradiance - Phototherapy, Light Source	Using Irradiance Meter by direct method	4.5 $\mu W/cm^2/nm$ to 40 $\mu W/cm^2/nm$	4 %
402	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Ventilator (Inspiratory Time & Expiratory Time)	Using Gas Flow Analyzer by direct method	1.5 s to 5 s	2.0 %

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 65 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
403	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Ventilator (Oxygen Percentage))	Using Gas Flow Analyzer by direct method	30 % to 96 %	2.42 %
404	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Ventilator (PEEP)	Using Gas Flow Analyzer by direct method	1 cmH_2O to 20 cmH_2O (98.0665 Pa to 1961.33Pa)	3.7 %
405	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Ventilator (Respiration Rate)	Using Gas Flow Analyzer by direct method	4 brpm to 40 brpm	1.2 %
406	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Ventilator (Volume Accuracy)	Using Gas Flow Analyzer by direct method	250 ml to 700 ml	3.6 %
407	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Ventilator- Pressure Accuracy (PIP)	Using Gas Flow Analyzer by direct method	6 cmH_2O to 20 cmH_2O (588.399 Pa to 1961.33 Pa)	3.6 %
408	OPTICAL-OPTICAL	Illuminance /Lux / Light Meter	Using Light Chamber & Light Meter by Comparison Method	1 lx to 2000 lx	8.9 %
409	OPTICAL-OPTICAL	Illuminance /Lux / Light Meter	Using Light Chamber & Light Meter by Comparison Method	2000 lx to 10000 lx	3.57 %

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 66 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
410	THERMAL-SPECIFIC HEAT & HUMIDITY	Analog / Digital Hygrometer, Analog / Digital Temperature & Humidity Indicator with sensor, Thermo-Hygrograph, Data Logger with sensor (inbuilt/ external sensor) / Transmitter with Sensor	Using Digital Temperature / Humidity Indicator, Humidity Chamber by Comparison Method	10 %rh to 95 %rh @ 25 °C	0.51 %rh
411	THERMAL-SPECIFIC HEAT & HUMIDITY	Analog / Digital Hygrometer, Analog / Digital Temperature & Humidity Indicator with sensor, Thermo-Hygrograph, Data Logger with sensor (inbuilt/ external sensor) / Transmitter with Sensor	Using SSPRT with Precision Thermometer, Digital Temperature / Humidity Indicator & Humidity Chember by Comparison Method	6 °C to 60 °C @ 50 %rh	0.07 °C
412	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity / Temperature Chamber, Environmental Chamber, Climatic chamber, Humidity Generator, Humidity Source (Multi Position)	Using Digital Temperature / Humidity Data Logger with Sensor (Minimum 9 Sensors used) by comparison Method	15 %rh to 95 %rh @ 25 °C	2.5 %rh

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 67 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
413	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity / Thermal Chamber, Environmental Chamber, Climatic chamber, Humidity Generator, Humidity Source (Single Position)	Using Temperature Humidity Indicator with Sensor / Datalogger by comparison method	10 %rh to 95 %rh @ 25 °C	0.51 %rh
414	THERMAL-TEMPERATURE	Deep Freezer, Refrigerator, Incubator (Non medical purpose), Autoclave (non medical purpose), Air Oven, Furnace, Temperature Bath, Thermal Chamber (Multi Position)	Using RTD and Data Acquisition System (minimum 9 sensor) by comparison method	(-) 80 °C to 100 °C	2.63 °C
415	THERMAL-TEMPERATURE	Deep Freezer, Refrigerator, Temperature Bath, Thermal Chamber, Thermal / Cryogenic Tank (Multi position)	Using RTD and Data Acquisition System (minimum 9 sensor) by Comparison Method	(-) 196 °C to (-) 80 °C	1.25 °C
416	THERMAL-TEMPERATURE	Dry Block Calibrators / Chamber	Using Two R Type Thermocouple with Precision Thermometer by Comparison Method as per EURAMET Calibration Guide No. 13	1200 °C to 1500 °C	1.2 °C

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 68 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
417	THERMAL-TEMPERATURE	Dry Block Calibrators / Chamber	Using Two R Type Thermocouple with Precision Thermometer by Comparison Method as per EURAMET Calibration Guide No. 13	600 °C to 1200 °C	1.1 °C
418	THERMAL-TEMPERATURE	Infrared Thermometer / Pyrometer	Using Non-Contact Thermometer & Black Body Source (Emissivity: 0.95) by Comparison Method	50 °C to 300 °C	3.2 °C
419	THERMAL-TEMPERATURE	Infrared Thermometer/ Pyrometer	Using Non- Contact Thermometer & Black Body Source (Emissivity: 0.95) by Comparison Method	(-) 10 °C to 120 °C	2.06 °C
420	THERMAL-TEMPERATURE	Infrared Thermometer/ Pyrometer	Using Non-Contact Thermometer & Black Body Source (Emissivity: 0.95) by Comparison Method	300 °C to 500 °C	3.5 °C
421	THERMAL-TEMPERATURE	Infrared Thermometer/ Pyrometer	Using Non-Contact Thermometer & Black Body Source (Emissivity: 0.99) by Comparison Method	500 °C to 1200 °C	5.4 °C
422	THERMAL-TEMPERATURE	Liquid Baths/ Dry Block Calibrators / Chamber/ Ovens	Using Two SSPRT with Precision Thermometer by Comparison Method as per EURAMET Calibration Guide No. 13	(-) 80 °C to 50 °C	0.15 °C

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 69 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
423	THERMAL-TEMPERATURE	Liquid Baths/ Dry Block Calibrators / Chamber/ Ovens	Using Two SSPRT with Precision Thermometer by Comparison Method as per EURAMET Calibration Guide No. 13	50 °C to 250 °C	0.15 °C
424	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using SPRT with Precision Thermometer & Liquid Bath by Comparison Method	(-) 80 °C to 50 °C	0.05 °C
425	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using SPRT with Precision Thermometer & Liquid Bath by Comparison Method	150 °C to 250 °C	0.09 °C
426	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using SSPRT with Precision Thermometer & Liquid Bath by Comparison Method	250 °C to 500 °C	0.37 °C
427	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using SPRT with Precision Thermometer & Oil Bath by Comparison Method	50 °C to 150 °C	0.07 °C
428	THERMAL-TEMPERATURE	RTD/ Thermocouple With or Without Temperature Indicator / Controller / Recorder / Temperature Gauge, Temperature Controller/indicator with Switch, Digital Thermometer With Sensor	Using SPRT with Precision Thermometer & Dry Block Calibrator by Comparison Method	250 °C to 600 °C	0.16 °C

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 70 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
429	THERMAL-TEMPERATURE	RTD/ Thermocouple With or Without Temperature Indicator / Controller / Recorder, Temperature Gauge /Temperature Controller/ Recorder with Switch , Digital Thermometer With Sensor	Using SPRT with Precision Thermometer & Liquid Bath by Comparison Method	(-) 80 °C to 50 °C	0.04 °C
430	THERMAL-TEMPERATURE	RTD/ Thermocouple With or Without Temperature Indicator / Controller / Recorder, Temperature Gauge, Temperature Controller/ Indicator/ Indicator with Switch, Digital Thermometer With Sensor	Using SPRT with Precision Thermometer & Liquid Bath by Comparison Method	150 °C to 250 °C	0.07 °C
431	THERMAL-TEMPERATURE	RTD/ Thermocouple With or Without Temperature Indicator / Controller / Recorder, Temperature Gauge, Temperature Controller/Indicator with Switch, Digital Thermometer With Sensor	Using SPRT with Precision Thermometer & Liquid Nitrogen Bath by Comparison Method	(-) 196 °C	0.10 °C

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 71 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
432	THERMAL-TEMPERATURE	RTD/ Thermocouple with or without Temperature Indicator/ Controller/ Recorder, Temperature Gauge, Temperature Controller/Indicator with Switch, Thermostat with indicator, Digital Thermometer with Sensor	Using SPRT with Precision Thermometer & Liquid Bath by Comparison Method	50 °C to 150 °C	0.05 °C
433	THERMAL-TEMPERATURE	Salt bath / Dry Block Calibrator / Chamber/ Ovens	Using Two SSPRT with Precision Thermometer by Comparison Method as per EURAMET Calibration Guide No. 13	250 °C to 600 °C	0.25 °C
434	THERMAL-TEMPERATURE	Temperature Indicator / Controller / Recorder with sensor of Block Furnace/ Bath/ Oven / Thermal Chamber (Single Position)	Using SPRT with Precision Thermometer by Comparison Method	100 °C to 300 °C	0.07 °C
435	THERMAL-TEMPERATURE	Temperature Indicator/ Controller / Recorder with sensor of Block Furnace/ Bath /Oven / Thermal Chamber (Single Position)	Using SPRT with Precision Thermometer by Comparison Method	300 °C to 600 °C	0.08 °C

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 72 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
436	THERMAL-TEMPERATURE	Temperature Indicator/ Controller / Recorder with sensor of Deep freezer/ Refrigerator/ Bath / Thermal Chamber (Single Position)	Using SPRT with Precision Thermometer by Comparison Method	(-) 196 °C to (-) 80 °C	0.12 °C
437	THERMAL-TEMPERATURE	Temperature Indicator/ Controller / Recorder with sensor of Deep freezer/ Refrigerator/ Recorder/ Block Furnace/ Bath / Thermal Chamber (Single Position)	Using SPRT with Precision Thermometer by Comparison Method	(-) 80 °C to 100 °C	0.08 °C
438	THERMAL-TEMPERATURE	Temperature Indicator/ Controller/ Recorder with sensor of Furnace/ Bath/Oven / Thermal Chamber (Single position)	Using R-Type Thermocouple with Precision Thermometer by Comparison Method	600 °C to 1200 °C	1.12 °C
439	THERMAL-TEMPERATURE	Temperature Indicator/ Controller/ Recorder with sensor of Block Furnace/ Bath/ Oven / Thermal Chember (Single Position)	Using R-Type Thermocouple with Precision Thermometer by Comparison Method	1200 °C to 1500 °C	1.2 °C

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 73 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
440	THERMAL-TEMPERATURE	Thermal Chamber, Autoclave (Non medical purpose), Air Oven, Furnace, Temperature Bath, Temperature Calibrator (Multiposition)	Using RTD with Precision Thermometer (minimum 9 sensor) by Comparison Method	100 °C to 350 °C	3.05 °C
441	THERMAL-TEMPERATURE	Thermal Chamber, Oven, Furnace, Temperature Calibrator / Temperature Bath (Multiposition)	Using N type Thermocouple with Data Acquisition System (minimum 9 sensors) by comparison Method	350 °C to 1200 °C	6.9 °C
442	THERMAL-TEMPERATURE	Thermal Imager (Temperature only)	Using Non Contact Thermometer & IR Calibrator (Emissivity: 0.95) by comparison method as per ASTM E2847	(-) 10 °C to 120 °C	2.06 °C
443	THERMAL-TEMPERATURE	Thermocouple With or Without Temperature Indicator / Controller / Recorder / Temperature Gauge, Temperature Controller/indicator with Switch, Digital Thermometer With Sensor	Using R type Thermocouple with Precision Thermometer & Dry Block Calibrator by Comparison Method	1200 °C to 1500 °C	2.0 °C

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 74 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
444	THERMAL-TEMPERATURE	Thermocouple With or Without Temperature Indicator / Controller / Recorder / Temperature Gauge,Temperature Controller/indicator with Switch, Digital Thermometer With Sensor	Using R type Thermocouple with Precision Thermometer & Dry Block Calibrator by Comparison Method	600 °C to 1200 °C	1.4 °C

National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 75 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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	Using AC Shunt and 6½ DMM by V/R Method	10 A to 1000 A	1.95 % to 0.72 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 1 kHz	Using 6 ½ DMM by Direct Method	1 A to 10 A	0.2 % to 0.3 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 1 kHz	Using 6 ½ DMM by Direct Method	10 µA to 100 µA	2.7 % to 0.3 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 1 kHz	Using 6 ½ DMM by Direct Method	10 mA to 1 A	0.3 % to 0.2 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 1 kHz	Using 6 ½ DMM by Direct Method	100 µA to 10 mA	0.3 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using High Voltage Divider with DMM By Direct Method	1 kV to 100 kV	2.4 %

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 76 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Power (Three Phase) @ 80 V to 480 V, 0.2 A to 5 A, 0.2 PF to UPF, 50 Hz	Using 3 Phase Power Analyzer & 3 Phase Calibrator by Comparison Method	1.92 kW to 360 kW	1.16 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 45 Hz to 10 kHz	Using 6 ½ DMM by Direct Method	1 mV to 100 V	5.92 % to 0.104 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 45 Hz to 10 kHz	Using 6 ½ DMM by Direct Method	100 V to 1000 V	0.104 % to 0.182 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance	Using 6½ DMM by Direct Method	1.1 nF to 109 µF	6.53 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Energy 1 Phase (50 Hz, 10 mA to 5 A, 240 V, 0.5 to UPF, Lead Lag)	Using 3 Phase LT Energy Meter & 3 Phase Calibrator by Comparison Method	2.4 Wh to 12 kWh	0.33 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Energy 3 Phase (50 Hz, 110 V, 20 mA to 5 A, 0.2 to UPF, Lead/ Lag)	Using 3 Phase HT Energy Meter & 3 Phase Calibrator by Comparison Method	1.9 Wh to 400 kWh	0.34 %

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 77 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Energy 3 phase (50 Hz, 240 V / 415 V, 10 mA to 5 A, 0.5 to UPF, Lead/ Lag)	Using 3 Phase LT Energy Meter & 3 Phase Calibrator by Comparison Method	36 Wh to 300 kWh	0.39 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance @ 50 Hz to 1 kHz	Using Standard Inductance Meter by Direct Method	100 µH to 1000 mH	4.18 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Active Power Single Phase (50 Hz 120 V to 240 V, 0.01 A to 20 A, 0.2 PF to Unity)	Using Multifunction MFC By Direct Method	1.2 W to 4.8 kW	0.1 % to 0.34 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 45 Hz to 1 kHz	Using Multi - Product Calibrator by Direct Method	1 A to 20 A	0.076 % to 0.204 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 45 Hz to 1 kHz	Using Multi - Product Calibrator by Direct Method	1000 µA to 1 A	0.14 % to 0.076 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 45 Hz to 1 kHz	Using Multi - Product Calibrator by Direct Method	30 µA to 1000 µA	0.54 % to 0.14 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi - Product Calibrator and 50 turn Coil by Direct Method	20 A to 1000 A	4 % to 0.5 %

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 78 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Current Source by Direct Method	20 A to 50 A	2.44 % to 3.14 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45 Hz to 10 kHz	Using Multi - Product Calibrator by Direct Method	1 mV to 1 V	0.72 % to 0.028 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45 Hz to 10 kHz	Using Multi - Product Calibrator by Direct Method	1 V to 1000 V	0.028 % to 0.038 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multi - Product Calibrator by Direct Method	0.22 nF to 1 µF	5.92 % to 0.42 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 50 Hz to 1 kHz	Using Decade Inductance Box By Direct Method	100 µH to 1000 mH	3 %
25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Phase Angle (230 V, 1 A to 5 A, 50 Hz)	Using Multifunction Calibrator MFC by Direct Method	0° to 90°	0.15°
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor (230 V, 1 A to 5 A, 50 Hz)	Using Multifunction Function Calibrator by Direct Method	0.2 PF to UPF (Lead & Lag)	0.002 PF to 0.001 PF

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 79 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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-Alternating Current (< 1 GHz) (Source)	Tan Delta @ 50 Hz, Upto 10 kV	Using Standard Capacitor with Dissipation Box by Direct Method	0.0002 to 0.2	0.0006
28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 ½ DMM by Direct Method	1 A to 10 A	0.08 % to 0.2 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 ½ DMM by Direct Method	10 µA to 100 µA	0.40 % to 0.089 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 ½ DMM by Direct Method	100 µA to 100 mA	0.089 % to 0.08 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 ½ DMM by Direct Method	100 mA to 1 A	0.08 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Current	Using DC Shunt and 6½ DMM by V/R Method	10 A to 2000 A	0.17 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using High Voltage Divider with DU By Direct Method	1 kV to 10 kV	2.5 %

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 80 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using High Voltage Divider with DU By Direct Method	10 kV to 100 kV	2.4 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ DMM by Direct Method	1 mV to 10 mV	0.46 % to 0.06 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ DMM by Direct Method	1 V to 1000 V	0.007 % to 0.008 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ DMM by Direct Method	10 mV to 100 mV	0.06 % to 0.01 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ DMM by Direct Method	100 mV to 1 V	0.01 % to 0.008 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 6 ½ DMM by Direct Method	100 M ohm to 1 G ohm	1 % to 2.34 %
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 Wire)	Using 6 ½ DMM by Direct Method	1 ohm to 10 ohm	0.7 % to 0.1 %

National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 81 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 6 ½ DMM by Direct Method	1 Mohm to 1000 Mohm	0.013 % to 2.32 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 6 ½ DMM by Direct Method	10 kohm to 1 Mohm	0.014 % to 0.013 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 Wire)	Using 6 ½ DMM by Direct Method	10 ohm to 10 kohm	0.05 % to 0.014 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Capacitance @ 100 Hz	Using Multifunction Calibrator By Direct Method	1 µF to 109 µF	0.42 % to 0.66 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi - Product Calibrator by Direct Method	1 µA to 1 mA	2.33 % to 0.017 %
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by Direct Method	1 mA to 100 mA	0.017 % to 0.015 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by Direct Method	100 mA to 20 A	0.015 % to 0.12 %

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 82 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC High Current	Using MFC with 50 Turn Coil by Direct Method	20 A to 1000 A	4.5 % to 0.5 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power (10 V to 1000 V, 1 A to 20 A)	Using Multifunction Calibrator MFC by Direct Method	10 W to 20 kW	0.034 % to 0.083 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi - Product Calibrator by Direct Method	100 µV to 100 mV	1.32 % to 0.0041 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi - Product Calibrator by Direct Method	100 mV to 1000 mV	0.0041 % to 0.0017 %
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator MFC by Direct method	1000 mV to 1000 V	0.0017 % to 0.0026 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire)	Using Decade Resistance Box by Direct Method	1 Gohm to 100 Gohm	2.31 % to 6 %
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance (2 Wire)	Using Decade Resistance Box by Direct Method	0.1 ohm to 1 ohm	1.3 % to 0.031 %

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 83 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance (4 Wire)	Using Decade Resistance Box by Direct Method	100 µohm	0.17 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance (4 Wire)	Using Decade Resistance Box by Direct Method	50 µohm	0.33 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance (4 Wire)	Using Decade Resistance Box by Direct Method	1 mohm	0.13 %
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance (4 Wire)	Using Decade Resistance Box by Direct Method	10 µohm	0.73%
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance (4 Wire)	Using Decade Resistance Box by Direct Method	10 mohm	0.13%
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance (4 Wire)	Using Decade Resistance Box by Direct Method	100 mohm	0.13%
61	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance (4 Wire)	Using Decade Resistance Box by Direct Method	500 µohm	0.16%

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 84 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Multifunction Calibrator By Direct Method	100 k ohm to 1000 k ohm	0.004 %
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Multifunction Calibrator By Direct Method	1000 ohm to 100 kohm	0.003 %
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Multifunction Calibrator By Direct Method	1 ohm to 1000 ohm	0.12 % to 0.003 %
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Multifunction Calibrator By Direct Method	1000 kohm to 1 Gohm	0.004 % to 1.79 %
66	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Conductivity Meter	Using Decade Meg Ohm box by simulation method	1 µS/cm to 5000 µS/cm ((1 Mohm to 200 ohm)	3.11 % to 0.27 %
67	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - AC Amplitude @ 50 Hz	Using Multifunction with scope Option By Direct Method	1 mV to 100 V	3.5 % to 0.25 %
68	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Bandwidth	Using Multifunction Calibrator with Scope Option by Direct Method	Upto 600 MHz	5.02 %

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 85 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
69	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - DC Amplitude	Using Multifunction MFC with scope Option By Direct Method	1 mV to 100 V	3.5 % to 0.13 %
70	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Time Base @ 1 kHz	Using Multifunction calibrator with scope Option by Direct Method	2 ns to 5 s	0.36 % to 0.66 %
71	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	pH Meter	Using Multifunction Calibrator by Simulation Method	0 pH to 14 pH [(-) 416.90 mV to (+) 416.90 mV]	0.65 % to 0.05 %
72	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Transformer Trans Ratio	Using Trans Ratio Calibrator & 6½ DMM and 8½ DMM by V/V method	11 turn to 1100 turn	0.5 %
73	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD	Using 6½ DMM by Direct Method	(-) 200 °C to 800 °C	0.3 °C
74	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple B Type	Using 6½ DMM by Direct Method	20 °C to 1700 °C	0.68 °C
75	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple J type	Using 6½ DMM by Direct Method	(-) 200 °C to 1200 °C	0.21 °C

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 86 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
76	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple K Type	Using 6½ DMM by Direct Method	(-) 200 °C to 1200 °C	0.3 °C
77	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple N type	Using 6½ DMM by Direct Method	(-) 200 °C to 1200 °C	0.3 °C
78	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple R Type	Using 6½ DMM by Direct Method	20 °C to 1700 °C	0.68 °C
79	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple S Type	Using 6½ DMM by Direct Method	20 °C to 1700 °C	0.68 °C
80	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple T type	Using 6½ DMM by Direct Method	(-) 200 °C to 400 °C	0.28 °C
81	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 660 °C	0.078 °C
82	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple N type	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.25 °C

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 87 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
83	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple B type	Using Multifunction Calibrator by Direct Method	20 °C to 1700 °C	0.23 °C
84	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple J Type	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.049 °C
85	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple K type	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.07 °C
86	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple R type	Using Multifunction Calibrator by Direct Method	20 °C to 1700 °C	0.23 °C
87	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple S-type	Using Multifunction Calibrator by Direct Method	20 °C to 1700 °C	0.23 °C
88	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple T type	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 400 °C	0.16 °C
89	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6 ½ DMM by Direct Method	10 Hz to 1 MHz	0.082 % to 0.02 %

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 88 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)	Time	Using Digital Time Calibrator by Comparison Method	0.1 s to 1 s	3.1 ms
91	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Calibrator by Comparison Method	1 Hr to 24 Hr	2 s to 50.63 s
92	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Calibrator by Comparison Method	1 s to 1 Hr	1.3 ms to 2 s
93	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multifunction Calibrator by Direct Method	10 Hz to 1 MHz	0.0007 %
94	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multifunction Calibrator by Direct Method	3 Hz to 10 Hz	0.003 % to 0.0007 %
95	FLUID FLOW-FLOW MEASURING DEVICES	Orifice Manometer flow rate of HVS / RDS / PM10 Sampler (Medium: air)	Using Top Loading Orifice Flow Calibrator by Comparison Method as per IS 5182 (Part - 4) 1999	0.6 m^3/min to 1.4 m^3/min	3.86 %
96	FLUID FLOW-FLOW MEASURING DEVICES	Volumetric Flow Rate (Water Flow Meter & Flow Measuring Equipment) (medium Water)	Using Transducer Based Portable Ultrasonic Flow Meter by comparison method as per ISO 12242	0.7 m^3/hr to 20 m^3/hr	2 %

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 89 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
97	FLUID FLOW-FLOW MEASURING DEVICES	Volumetric Flow Rate (Water Flow Meter & Flow Measuring Equipments) (Medium Water)	Using Transducer Based Portable Ultrasonic Flow Meter by comparison method as per ISO 12242	>20 m^3/hr to 60 m^3/hr	2 %
98	FLUID FLOW-FLOW MEASURING DEVICES	Volumetric Flow Rate of Rotameter / Flow Calibrator / PM 2.5 Sampler / Air Flow Indicator (Medium: Air)	Using Air Flow Calibrator by Comparison Method as per ASTM D 5337	> 10 lpm to 20 lpm	3.51 %
99	FLUID FLOW-FLOW MEASURING DEVICES	Volumetric Flow Rate of Rotameter / Flow Calibrator/ Sampling Pump with display	Using Air Flow Calibrator by Comparison Method as per ASTM D 5337	0.2 lpm to 10.0 lpm	4.9 %
100	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Generator , RPM Indicator / Meter of Vibration Table / Bitumen Apparatus / Los Angeles Abrasion Testing Machine / Mortar Vibrating Machine	Using Non-contact Digital Tachometer by direct method	100 rpm to 500 rpm	0.45 rpm
101	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Generator , RPM Indicator / Meter of Vibration Table / Bitumen Apparatus / Los Angeles Abrasion Testing Machine / Mortar Vibrating Machine	Using Non-contact Digital Tachometer by direct method	1000 rpm to 6000 rpm	1.05 rpm

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 90 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Generator , RPM Indicator / Meter of Vibration Table / Bitumen Apparatus / Los Angeles Abrasion Testing Machine / Mortar Vibrating Machine	Using Non-contact Digital Tachometer by direct method	25000 rpm to 90000 rpm	11 rpm
103	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Generator , RPM Indicator / Meter of Vibration Table / Bitumen Apparatus / Los Angeles Abrasion Testing Machine / Mortar Vibrating Machine	Using Non-contact Digital Tachometer by direct method	6000 rpm to 8500 rpm	1.4 rpm
104	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Generator , RPM Indicator / Meter of Vibration Table / Bitumen Apparatus / Los Angeles Abrasion Testing Machine / Mortar Vibrating Machine	Using Non-contact Digital Tachometer by direct method	8500 rpm to 25000 rpm	3.46 rpm
105	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Generator , RPM Indicator / Sensor / Meter of Vibration Table / Bitumen Apparatus / Los Angeles Abrasion Testing Machine / Mortar Vibrating Machine	Using Non-contact Digital Tachometer by direct method	500 rpm to 1000 rpm	0.91 rpm

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 91 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
106	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Generator , RPM Indicator /Meter of Vibration Table / Bitumen Apparatus / Los Angeles Abrasion Testing Machine / Mortar Vibrating Machine	Using Non-contact Digital Tachometer by direct method	6 rpm to 100 rpm	0.37 rpm
107	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Extensometer (L.C.: 0.0005 mm)	Using Gauge Block & Dial Calibration Tester by direct method	Up to 20 mm	3.6 µm
108	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Extensometer (Gauge Length)	Using Digimatic Caliper by direct method	Up to 150 mm	26 µm
109	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Scale & Tape Calibrator (L.C.: 0.001 mm)	Using Gauge Block, Long Slip Gauge by direct method	0 to 1000 mm	7.8 µm
110	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using Electronic Precision Level by direct method	upto 4000 mm X 2000 mm	0.6 X sqrt {(L+W)/125} µm Where L is Length & W is Width in mm
111	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Electronic Height Gauge - Indication Accuracy, (L.C.: 0.0001 mm)	Using Gauge Block by direct method	0 to 600 mm	Q(1.27 µm , 5.31E-3 L), Where Q[a, b] = $[a^2 + b^2]^{1/2}$ (L is in mm)

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 92 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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-DIMENSION (PRECISION INSTRUMENTS)	2D Electronic Height Gauge - Squareness, (L.C.: 0.0001 mm)	Using Granite L Square & Digimatic Indicator by Comparison Method	0 to 600 mm	4.0 µm
113	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Microscope (Magnification)	Using Glass Scale & Digimatic Caliper by direct method	10 X to 100 X	0.20 %
114	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine / Vision Measuring System / Microscope (Angular Scale), Least Count : 1 sec of Arc	Using Angle Gauge Block by direct method	0° to 360°	1.0 min of Arc
115	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine / Vision Measuring System / Microscope (Linear Scale), Least Count : 0.001 mm	Using Glass Scale by direct method	Up to 300 mm	3.0 µm
116	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring Machine (L.C.: 0.0001 mm)	Using Slip Gauge, Long Slip Gauge by direct method	0 to 100 mm	0.7 µm
117	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring Machine (L.C.: 0.0001 mm)	Using Slip Gauge, Long Slip Gauge by direct method	0 to 200 mm	1.25 µm
118	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring Machine (L.C.: 0.0001 mm)	Using Slip Gauge, Long Slip Gauge by direct method	0 to 600 mm	3.0 µm

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 93 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
119	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine (Indirect Verification)	Using Hardness Block as per IS 1500 (Part 2):2013 / ISO 6506-2:2017	HBW 10.0/3000	1.6 %
120	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine (Indirect Verification)	Using Hardness Block as per IS 1500 (Part 2):2013 / ISO 6506-2:2017	HBW 5.0/750	1.6 %
121	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine (Indirect Verification)	Using Hardness Block as per IS 1500 (Part 2):2013 / ISO 6506-2:2017	HBW2.5/187.5	1.5 %
122	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine (Indirect Verification)	Using Standard Hardness Block as per IS 1586 (Part 2):2018 / ISO 6508-2:2023	HRA	1.5 HRA
123	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine (Indirect Verification)	Using Standard Hardness Block as per IS 1586 (Part 2):2018 / ISO 6508-2:2023	HRBW	1.5 HRBW
124	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine (Indirect Verification)	Using Standard Hardness Block as per IS 1586 (Part 2):2018 / ISO 6508-2:2023	HRC	1.5 HRC
125	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine (Indirect Verification)	Using Hardness Block as per IS 1501 (Part 2):2020 / ISO 6507-2:2018	HV10	1.9 %
126	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine (Indirect Verification)	Using Hardness Block as per IS 1501 (Part 2):2020 / ISO 6507-2:2018	HV30	1.9 %

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 94 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
127	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine (Indirect Verification)	Using Hardness Block as per IS 1501 (Part 2):2020 / ISO 6507-2:2018	HV5	1.9 %
128	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine (Indirect Verification)	Using Hardness Block as per IS 1501 (Part 2):2020 / ISO 6507-2:2018	HV50	1.9 %
129	MECHANICAL-IMPACT TESTING MACHINE	Impact Testing machine - Charpy (Direct Verification)	Using Load Cell, Clinometer, Steel Tape and other Gauges & Instruments as per ASTM D6110-18	0 to 50 J	0.25 %
130	MECHANICAL-IMPACT TESTING MACHINE	Impact Testing Machine - Charpy (Direct Verification)	Using Load Cell, Clinometer, Steel Tape and other Gauges & Instruments as per ISO 148-2:2016 / ASTM E23-23 / IS 3766-1977	Up to 450 J	0.75 %
131	MECHANICAL-IMPACT TESTING MACHINE	Impact Testing Machine - Charpy (Indirect Verification)	Using Standard / Certified Reference Material as per ISO 148-2:2016 / ASTM E23-23	0 to 40 J	0.46 J
132	MECHANICAL-IMPACT TESTING MACHINE	Impact Testing Machine - Charpy (Indirect Verification)	Using Standard / Certified Reference Material as per ISO 148-2:2016 / ASTM E23-23	40 J to 400 J	1 %

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 95 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
133	MECHANICAL-IMPACT TESTING MACHINE	Impact Testing machine - Izod (Direct Verification)	Using Load Cell, Clinometer, Steel Tape and other Gauges & Instruments as per ASTM D256-23	0 to 50 J	0.52%
134	MECHANICAL-IMPACT TESTING MACHINE	Impact Testing Machine - Izod (Direct Verification)	Using Load Cell, Clinometer, Steel Tape and other Gauges & Instruments as per BS 131-4:1972 / ASTM E23-23/ IS 3766:1977	Up to 168 J	0.56 %
135	MECHANICAL-PRESSURE INDICATING DEVICES	Barometer / Absolute Pressure Gauge / Switch / Transducer / Transmitter / Calibrator	Using Pressure Calibrator, 6½ digit DMM by Comparison Method	0 to 2 bar (abs)	Q(5.77E-05 bar, 0.024 %), Where Q[a, b] = $[a^2 + b^2]^{1/2}$
136	MECHANICAL-PRESSURE INDICATING DEVICES	Magnehelic Gauge / Manometer / Pressure / Differential Pressure Gauge / Transmitter / Transducer / Switch / Calibrator (Medium:Pneumatic)	Using Pressure Calibrator, 6½ digit DMM by Comparison Method as per DKD R-6-1	0 to 7 kPa	Q(5.77E-04 kPa, 0.063 %), Where Q[a, b] = [a2 + b2]1/2
137	MECHANICAL-PRESSURE INDICATING DEVICES	Manometer / Sphygmo Manometer (Medium: Pneumatic)	Using Pressure Calibrator, 6½ digit DMM by Comparison Method as per DKD R-6-1	0 to 2.0 bar	Q (5.77E-05 bar, 0.044 %), Where Q[a, b] = $[a^2 + b^2]^{1/2}$

National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 96 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
138	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure / Differential Pressure Gauge / Switch / Transducer / Transmitter / Calibrator (Medium: Hydraulic Pressure)	Using Pressure Calibrator, 6½ digit DMM by Comparison Method as per DKD R-6-1	0 to 70 bar	Q(5.77E-04 bar, 0.019 %), Where Q[a, b] = $[a^2 + b^2]^{1/2}$
139	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure / Differential Pressure Gauge / Switch / Transducer / Transmitter / Calibrator (Medium: Hydraulic Pressure)	Using Pressure Calibrator, 6½ digit DMM by Comparison Method DKD R-6-1	0 to 700 bar	Q(5.77E-03 bar, 0.019 %), Where Q[a, b] = $[a^2 + b^2]^{1/2}$
140	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure / Differential Pressure Gauge / Switch / Transducer / Transmitter / Calibrator (Medium: Pneumatic)	Using Pressure Calibrator, 6½ digit DMM by Comparison Method as per DKD R-6-1	0 to 35 bar	Q(5.77E-04 bar, 0.023 %), Where Q[a, b] = $[a^2 + b^2]^{1/2}$
141	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure / Differential Pressure Gauge / Switch / Transducer / Transmitter / Calibrator (Medium : Pneumatic)	Using Pressure Calibrator, 6½ digit DMM by Comparison Method as per DKD R-6-1	0 to 2 bar	Q(5.77E-05 bar, 0.044 %), Where Q[a, b] = $[a^2 + b^2]^{1/2}$
142	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure / Differential Pressure Gauge / Switch / Transducer / Transmitter / Calibrator (Medium: Hydraulic)	Using Pressure Calibrator, 6½ digit DMM by Comparison Method DKD R-6-1	0 bar to 1000 bar	Q(5.77E-02 bar, 0.04 %), Where Q[a, b] = $[a^2 + b^2]^{1/2}$

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 97 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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-PRESSURE INDICATING DEVICES	Vacuum Gauge / Switch / Transducer / Transmitter / Calibrator	Using Pressure Calibrator, 6½ digit DMM by Comparison Method	(-)0.95 bar to 0	Q(5.77E-05 bar, 0.089 %), Where Q[a, b] = $[a^2 + b^2]^{1/2}$
144	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Travel Speed of UTM	Using Stop Watch & Digimatic Caliper/LVDT	10 mm/min to 300 mm/min	0.20 %
145	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Testing Machine (Compression)	Using Force Proving Instrument of Class 1 or better as per IS 1828:Part 1:2022 / ISO 7500-1:2018	200 N to 2000 kN	0.62 %
146	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Testing Machine (Tension)	Using Force Proving Instrument of Class 1 or better as per IS 1828:Part 1:2022 / ISO 7500-1:2018	20 N to 250 kN	0.54 %
147	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance , Readability : 0.5 g (Class III & Coarser)	Using E1 Class Weight as per OIML R 76-1:2006 & OIML R 76-2:2007	Up to 5 kg	3.5 g
148	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance, Readability:10 g (Class III & Coarser)	Using F1 Class Weight as per OIML R 76-1:2006 & OIML R 76-2:2007	30 kg to 100 kg	30 g
149	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance, Readability:5 g (Class III & Coarser)	Using E2 Class Weight as per OIML R 76-1:2006 & OIML R 76-2:2007	5 kg to 30 kg	7.02 g

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 98 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance , Readability : 0.01 mg (Class I & Coarser)	Using E1 Class Weight as per OIML R 76-1:2006 & OIML R 76-2:2007	121 g to 220 g	0.04 mg
151	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance , Readability : 0.1 mg (Class I & Coarser)	Using E1 Class Weight as per OIML R 76-1:2006 & OIML R 76-2:2007	220 g to 520 g	0.099 mg
152	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance , Readability : 100 mg (Class II & Coarser)	Using E2 Class Weight as per OIML R 76-1:2006 & OIML R 76-2:2007	10.1 kg to 32.2 kg	71.13 mg
153	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance , Readability : 50 g (Class III & Coarser)	Using F1 Class Weight as per OIML R 76-1:2006 & OIML R 76-2:2007	200 kg to 500 kg	36 g
154	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance , Readability :1 g (Class II & Coarser)	Using F1 Class Weight as per OIML R 76-1:2006 & OIML R 76-2:2007	32.2 kg to 100 kg	705.70 mg
155	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance , Readability :10 mg (Class II & Coarser)	Using E2 Class Weight as per OIML R 76-1:2006 & OIML R 76-2:2007	5.1 kg to 10.1 kg	9 mg
156	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance , Readability :100 g (Class III & Coarser)	Using F1 Class Weight as per OIML R 76-1:2006 & OIML R 76-2:2007	500 kg to 2000 kg	100 g
157	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance , Readability: 0.001 mg (Class I & Coarser)	Using E1 Class Weight as per OIML R 76-1:2006 & OIML R 76-2:2007	6.1 g to 31 g	0.017 mg
158	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance , Readability: 1mg (Class I & Coarser)	Using E1 Class Weight as per OIML R 76-1:2006 & OIML R 76-2:2007	520 g to 5.1 kg	1.22 mg

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 99 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance , Readability:10 g (Class III & Coarser)	Using F1 Class Weight as per OIML R 76-1:2006 & OIML R 76-2:2007	100 kg to 200 kg	7.1 g
160	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance, Readability: 0.001 mg, (Class I & Coarser)	Using E1 Class Weight as per OIML R 76-1:2006 & OIML R 76-2:2007	1 mg to 6.1 g	0.01 mg
161	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance, Readability:0.005 mg (Class I & Coarser)	Using E1 Class Weight as per OIML R 76-1:2006 & OIML R 76-2:2007	31 g to 121 g	0.024 mg
162	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Anesthesia Machine (Inspiratory Time & Expiratory Time)	Using Gas Flow Analyzer by direct method	1.5 s to 5 s	3.16 %
163	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Anesthesia Machine (Oxygen Percentage)	Using Gas Flow Analyzer by direct method	30 % to 90 %	2.42 %
164	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Anesthesia Machine (PEEP)	Using Gas Flow Analyzer by direct method	98.0665 Pa to 1961.33 Pa (1 cmH_2O to 20 cmH_2O)	3.77 %
165	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Anesthesia Machine (Respiration Rate)	Using Gas Flow Analyzer by direct method	4 brpm to 40 brpm	3.28 % to 1.22 %
166	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Anesthesia Machine (Volume Accuracy)	Using Gas Flow Analyzer by direct method	250 ml to 700 ml	3.6 %

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 100 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
167	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Anesthesia Machine-Pressure Accuracy (PIP)	Using Gas Flow Analyzer by direct method	6 cmH_2O to 20 cmH_2O (588.38 Pa to 1961.33 Pa)	3.5 %
168	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	BiPAP (EPAP)	Using Gas Flow Analyzer by direct method	392.266 Pa to 2451.60 Pa (4 cmH_2O to 25 cmH_2O)	3.05 %
169	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	BiPAP (FiO2)	Using Gas Flow Analyzer by direct method	20 % to 100 %	2.42 %
170	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	BiPAP (IPAP)	Using Gas Flow Analyzer by direct method	392.266 Pa to 2451.60 Pa (4 cmH_2O to 25 cmH_2O)	2.3 %
171	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	BiPAP (RR)	Using Gas Flow Analyzer by direct method	4 brpm to 40 brpm	2 %
172	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	BiPAP (Ti)	Using Gas Flow Analyzer by direct method	0.5 s to 9.99 s	2.97 %
173	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	BP Apparatus (Sphygmomanometer) (Leak Test per minute)	Using Vital Sign Simulator by Simulation Method	0 to 15 mmHg (0 to 0.02 bar)	1.5 mmHg (0.002 bar)

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 101 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
174	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	BP Apparatus (Sphygmomanometer) (Pressure Accuracy)	Using Vital sign simulator by Simulation Method	0 to 300 mmHg (0 to 0.40 bar)	4 %
175	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	CPAP (FiO2)	Using Gas Flow Analyzer by direct method	20 % to 100 %	2.42 %
176	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	CPAP (Positive Pressure)	Using Gas Flow Analyzer by direct method	588.399 Pa to 2451.60 Pa (6 cmH_2O to 25 cmH_2O)	2.3 %
177	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Digital BP Apparatus (Heart Rate Accuracy)	Using Vital sign simulator by Simulation Method	30 bpm to 320 bpm	2.24 % to 1.17 %
178	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Digital BP Apparatus (Pressure Accuracy)	Using Vital sign simulator by Simulation Method	30 mmHg to 150 mmHg (0.0399967 bar to 0.199984 bar)	5.52% to 2.02 %
179	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Digital BP Apparatus (Pressure Accuracy)	Using Vital sign simulator by Simulation Method	60 mmHg to 200 mmHg (0.079993 bar to 0.266645 bar)	5.52 % to 2.02% %
180	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Electrical Safety (AC Current @ 50 Hz)	Using Electrical Safety Analyser as per IEC 62353	0.1 A to 20 A	0.07A

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 102 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
181	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Electrical Safety (AC Voltage @ 50 Hz)	Using Electrical Safety Analyser as per IEC 62353	90 V to 264 V	2.4 %
182	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Electrical Safety (Earth Resistance)	Using Electrical Safety Analyser as per IEC 62353	0.5 ohm to 2 ohm	0.01 ohm
183	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Electrical Safety (Insulation Resistance)	Using Electrical Safety Analyser as per IEC 62353	20 Mohm to 100 Mohm	8.9 %
184	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Electrical Safety (Leakage Current)	Using Electrical Safety Analyser as per IEC 62353	1 µA to 10 mA	0.07 µA
185	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Electrical Safety (Leakage Current)	Using Electrical Safety Analyser as per IEC 62353	23 µA to 10 mA	1.3 µA to 3.1 µA
186	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Flow Meter	Using Gas Flow Analyzer by direct method	2 lpm to 15 lpm	0.54 lpm
187	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Infusion Pump (Flow)	Using Infusion Device Analyzer by direct method	50 ml/hr to 300 ml/hr	1.47 %

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 103 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Infusion Pump (Occlusion Pressure)	Using Infusion Device Analyzer by direct method	0 to 20 psi (0 to 1.37895 bar)	0.62 (0.04) psi (bar)
189	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Infusion Pump (Volume)	Using Infusion Device Analyzer by direct method	5 ml to 400 ml	3.08 % to 2.34 %
190	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Nebulizer (Flow)	Using Gas Flow Analyzer by direct method	2.5 lpm to 15 lpm	3.7 %
191	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Pulse Oxymeter (Heart Rate)	Using Pulse Oximeter Tester by Simulation Method	30 bpm to 240 bpm	2.24 % to 1.3 %
192	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Pulse Oxymeter (SPO2 Accuracy)	Using Pulse Oximeter Tester by Simulation Method	70 % to 100 %	5.8 %
193	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Suction Pump (Vacuum)	Using Gas Flow Analyzer by direct method	0 to 600 mmHg (0 to 0.80 bar)	15.23 mmHg (0.02 bar)
194	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Syringe Pump (Flow)	Using Infusion Device Analyzer by direct method	10 ml/hr to 200 ml/hr	3.44 % to 2 %

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 104 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
195	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Syringe Pump (Occlusion Pressure)	Using Infusion Device Analyzer by direct method	0 to 20 (1.38) psi (bar)	0.62 (0.04) psi (bar)
196	MEDICAL DEVICES-DISCHARGE EQUIPMENT/DEVICES	Syringe Pump (Volume)	Using Infusion Device Analyzer by direct method	5 ml to 20 ml	0.12 ml to 0.47 ml
197	MEDICAL DEVICES-IMAGING/PLOTTERS	ECG Unit (Amplitude Accuracy)	Using Vital sign simulator by Simulation Method	0.5 mV to 5 mV	0.08 mV to 0.15 mV
198	MEDICAL DEVICES-IMAGING/PLOTTERS	ECG Unit (Heart Rate Accuracy)	Using Vital sign simulator by Simulation Method	30 bpm to 320 bpm	3.2 % to 1.6 %
199	MEDICAL DEVICES-IMAGING/PLOTTERS	Electrical Safety (AC Current @ 50 Hz)	Using Electrical Safety Analyser as per IEC 62353	0.1 A to 20 A	0.07 A
200	MEDICAL DEVICES-IMAGING/PLOTTERS	Electrical Safety (AC Voltage @ 50 Hz)	Using Electrical Safety Analyser as per IEC 62353	90 V to 264 V	2.4 %
201	MEDICAL DEVICES-IMAGING/PLOTTERS	Electrical Safety (Earth Resistance)	Using Electrical Safety Analyser as per IEC 62353	0.5 ohm to 2 ohm	0.01 ohm
202	MEDICAL DEVICES-IMAGING/PLOTTERS	Electrical Safety (Insulation Resistance)	Using Electrical Safety Analyser as per IEC 62353	20 Mohm to 100 Mohm	8.9 %

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 105 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
203	MEDICAL DEVICES-IMAGING/PLOTTERS	Electrical Safety (Leakage Current)	Using Electrical Safety Analyser as per IEC 62353	23 µA to 10 mA	1.3 µA to 3.1 µA
204	MEDICAL DEVICES-IMAGING/PLOTTERS	Electrical Safety (Leakage Current) @ 50 Hz	Using Electrical Safety Analyser as per IEC 62353	1 µA to 10 mA	0.07 µA
205	MEDICAL DEVICES-MONITORING UNIT	Baby Weighing Scale (Class III and coarser)	Using F1 class of Weights by comparison method	500 g to 15 kg	11.3 g
206	MEDICAL DEVICES-MONITORING UNIT	Electrical Safety (AC Current @ 50 Hz)	Using Electrical Safety Analyser as per IEC 62353	0.1 A to 20 A	0.07 A
207	MEDICAL DEVICES-MONITORING UNIT	Electrical Safety (AC Voltage @ 50 Hz)	Using Electrical Safety Analyser as per IEC 62353	90 V to 264 V	2.4%
208	MEDICAL DEVICES-MONITORING UNIT	Electrical Safety (AC Voltage@ 50 Hz)	Using Electrical Safety Analyser as per IEC 62353	0.5 ohm to 2 ohm	0.01 ohm
209	MEDICAL DEVICES-MONITORING UNIT	Electrical Safety (Insulation Resistance)	Using Electrical Safety Analyser as per IEC 62353	20 Mohm to 100 Mohm	8.9 %
210	MEDICAL DEVICES-MONITORING UNIT	Electrical Safety (Leakage Current)	Using Electrical Safety Analyser as per IEC 62353	1 µA to 10 mA	0.07 µA
211	MEDICAL DEVICES-MONITORING UNIT	Electrical Safety (Leakage Current)	Using Electrical Safety Analyser as per IEC 62353	23 µA to 10 mA	1.3 µA to 3.1 µA

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 106 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
212	MEDICAL DEVICES-MONITORING UNIT	Fetal Monitor (Fetal Heart Rate)	Using Fetal Simulator by Simulation Method	30 bpm to 240 bpm	1.94 % to 0.26 %
213	MEDICAL DEVICES-MONITORING UNIT	Patient Monitors (Heart Rate Accuracy)	Using Vital sign simulator and Pulse Oximeter Tester by Simulation Method	30 bpm to 320 bpm	2.6 %
214	MEDICAL DEVICES-MONITORING UNIT	Patient Monitors (Invasive Blood Pressure Accuracy)	Using Vital sign simulator by Simulation Method	15 mmHg to 150 mmHg (0.02 bar to 0.20 bar)	10 % to 1.77 %
215	MEDICAL DEVICES-MONITORING UNIT	Patient Monitors (Invasive Blood Pressure Accuracy)	Using Vital sign simulator by Simulation Method	35 mmHg to 200 mmHg (0.046 bar to 0.266 bar)	10.34 % to 1.77 %
216	MEDICAL DEVICES-MONITORING UNIT	Patient Monitors (NIBP Test)	Using Vital sign simulator by Simulation Method	15 mmHg to 150 mmHg (0.019 bar to 0.199 bar)	10 % to 1.77 %
217	MEDICAL DEVICES-MONITORING UNIT	Patient Monitors (Respiration Rate)	Using Vital sign simulator by Simulation Method	15 brpm to 100 brpm	9.28 %
218	MEDICAL DEVICES-MONITORING UNIT	Patient Monitors (SPO2 Accuracy Test)	Using Pulse Oximeter Tester by Simulation Method	70 % to 100 %	5.8 %
219	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Autoclave (Pressure)	Using Pressure Calibrator by comperison method	0 to 2 bar	0.4 %

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 107 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Autoclave (Temperature)	Using Temperature Sensor & Data Logger by direct method	110°C to 135°C	0.4°C
221	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Defibrillator (Charge Time After 10 Discharge Cycles)	Using Defibrillator Analyzer by direct method	1s to 15 s	0.09s
222	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Defibrillator (Energy Output Accuracy and Output Energy @ Maximum Setting For 10 cycle (at Battery power)	Using Defibrillator Analyzer by direct method	50 J to 270 J	1.64 % to 1.2 %
223	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electrical Safety (AC Voltage @ 50 Hz)	Using Electrical Safety Analyser as per IEC 62353	90 V to 264 V	2.4 %
224	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electrical Safety (Earth Resistance)	Using Electrical Safety Analyser as per IEC 62353	0.5 ohm to 2 ohm	0.01 ohm
225	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electrical Safety (Equipment AC Current) for All Applicable Medical Device	Using Electrical Safety Analyser as per IEC 62353	0.1 A to 20 A	0.07 A

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 108 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
226	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electrical Safety (Insulation Resistance) for All Applicable Medical Device	Using Electrical Safety Analyser as per IEC 62353	20 Mohm to 100 Mohm	8.9 %
227	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electrical Safety (Leakage Current) for All Applicable Medical Device	Using Electrical Safety Analyser as per IEC 62353	1 µA to 10 mA	0.07 µA
228	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electrical Safety (Leakage Current) for All Applicable Medical Device	Using Electrical Safety Analyser as per IEC 62353	23 µA to 10 mA	1.3 µA to 3.1 µA
229	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electro Surgery Unit (Output Power /Power distribution)	Using Electro Surgical Analyzer by direct method	20 W to 300 W	6.5 % to 5.8 %
230	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electronic Tourniquet (Cuff Pressure Accuracy)	Using Gas Flow Analyzer by direct method	0 to 10 (0.69) psi (bar)	0.3 (0.02) psi (bar)
231	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electronic Tourniquet (Max Cuff Pressure)	Using Gas Flow Analyzer by direct method	0 to 550 mmHg (0 to 0.73 bar)	3.93 %

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 109 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
232	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Electronic Tourniquet (Timer Accuracy)	Using stop watch by direct method	1 s to 15 min	1 s
233	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Irradiance - Phototherapy, Light Source	Using Irradiance Meter by direct method	4.5 µW/cm^2/nm to 40 µW/cm^2/nm	4 %
234	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Patient Warmer (Temperature)	Using Temperature Sensor & Data Logger by comparison method	32 °C to 42 °C	0.39 °C
235	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Radiant Warmer / Baby Warmer (Temperature)	Using Temperature Sensors & Temperature Data Logger by comparison method	21 °C to 40 °C	0.7 °C
236	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Ventilator (Inspiratory Time & Expiratory Time)	Using Gas Flow Analyzer by direct method	1.5 s to 5 s	2.0 %
237	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Ventilator (Oxygen Percentage))	Using Gas Flow Analyzer by direct method	30 % to 96 %	2.42 %

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 110 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
238	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Ventilator (PEEP)	Using Gas Flow Analyzer by direct method	1 cmH_2O to 20 cmH_2O (98.0665 Pa to 1961.33Pa)	3.7 %
239	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Ventilator (Respiration Rate)	Using Gas Flow Analyzer by direct method	4 brpm to 40 brpm	1.2 %
240	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Ventilator (Volume Accuracy)	Using Gas Flow Analyzer by direct method	250 ml to 700 ml	3.6 %
241	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Ventilator- Pressure Accuracy (PIP)	Using Gas Flow Analyzer by direct method	6 cmH_2O to 20 cmH_2O (588.399 Pa to 1961.33 Pa)	3.6 %
242	THERMAL-SPECIFIC HEAT & HUMIDITY	Analog / Digital Hygrometer, Analog / Digital Temperature & Humidity Indicator with sensor, Thermo-Hygrograph, Data Logger with sensor (inbuilt/ external sensor) / Transmitter with Sensor	Using Digital Temperature / Humidity Indicator, Humidity Chamber by Comparison Method	10 %rh to 95 %rh @ 25 °C	0.51 %rh

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 111 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
243	THERMAL-SPECIFIC HEAT & HUMIDITY	Analog / Digital Hygrometer, Analog / Digital Temperature & Humidity Indicator with sensor, Thermo-Hygrograph, Data Logger with sensor (inbuilt/ external sensor) / Transmitter with Sensor	Using SSPRT with Precision Thermometer, Digital Temperature / Humidity Indicator & Humidity Chember by Comparison Method	6 °C to 60 °C @ 50 %rh	0.07 °C
244	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity / Temperature Chamber, Environmental Chamber, Climatic chamber, Humidity Generator, Humidity Source (Multi Position)	Using Digital Temperature / Humidity Data Logger with Sensor (Minimum 9 Sensors used) by comparison Method	15 %rh to 95 %rh @ 25 °C	2.5 %rh
245	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity / Thermal Chamber, Environmental Chamber, Climatic chamber, Humidity Generator, Humidity Source (Single Position)	Using Temperature Humidity Indicator with Sensor / Datalogger by comparison method	10 %rh to 95 %rh @ 25 °C	0.51 %rh

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 112 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
246	THERMAL-TEMPERATURE	Deep Freezer, Refrigerator, Incubator (Non medical purpose), Autoclave (non medical purpose), Air Oven, Furnace, Temperature Bath, Thermal Chamber (Multi Position)	Using RTD and Data Acquisition System (minimum 9 sensor) by comparison method	(-) 80 °C to 100 °C	2.63 °C
247	THERMAL-TEMPERATURE	Deep Freezer, Refrigerator, Temperature Bath, Thermal Chamber, Thermal / Cryogenic Tank (Multi position)	Using RTD and Data Acquisition System (minimum 9 sensor) by Comparison Method	(-) 196 °C to (-) 80 °C	1.25 °C
248	THERMAL-TEMPERATURE	Dry Block Calibrators / Chamber	Using Two R Type Thermocouple with Precision Thermometer by Comparison Method as per EURAMET Calibration Guide No. 13	1200 °C to 1500 °C	1.2 °C
249	THERMAL-TEMPERATURE	Dry Block Calibrators / Chamber	Using Two R Type Thermocouple with Precision Thermometer by Comparison Method as per EURAMET Calibration Guide No. 13	600 °C to 1200 °C	1.1 °C
250	THERMAL-TEMPERATURE	Infrared Thermometer / Pyrometer	Using Non-Contact Thermometer & Black Body Source (Emissivity: 0.95) by Comparison Method	50 °C to 300 °C	3.2 °C

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 113 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
251	THERMAL-TEMPERATURE	Infrared Thermometer/ Pyrometer	Using Non- Contact Thermometer & Black Body Source (Emissivity: 0.95) by Comparison Method	(-) 10 °C to 120 °C	2.06 °C
252	THERMAL-TEMPERATURE	Infrared Thermometer/ Pyrometer	Using Non-Contact Thermometer & Black Body Source (Emissivity: 0.95) by Comparison Method	300 °C to 500 °C	3.5 °C
253	THERMAL-TEMPERATURE	Infrared Thermometer/ Pyrometer	Using Non-Contact Thermometer & Black Body Source (Emissivity: 0.99) by Comparison Method	500 °C to 1200 °C	5.4 °C
254	THERMAL-TEMPERATURE	Liquid Baths/ Dry Block Calibrators / Chamber/ Ovens	Using Two SSPRT with Precision Thermometer by Comparison Method as per EURAMET Calibration Guide No. 13	(-) 80 °C to 50 °C	0.15 °C
255	THERMAL-TEMPERATURE	Liquid Baths/ Dry Block Calibrators / Chamber/ Ovens	Using Two SSPRT with Precision Thermometer by Comparison Method as per EURAMET Calibration Guide No. 13	50 °C to 250 °C	0.15 °C
256	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using SPRT with Precision Thermometer & Liquid Bath by Comparison Method	150 °C to 250 °C	0.09 °C

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 114 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
257	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using SPRT with Precision Thermometer & Oil Bath by Comparison Method	50 °C to 150 °C	0.07 °C
258	THERMAL-TEMPERATURE	RTD/ Thermocouple With or Without Temperature Indicator / Controller / Recorder / Temperature Gauge, Temperature Controller/indicator with Switch, Digital Thermometer With Sensor	Using SPRT with Precision Thermometer & Dry Block Calibrator by Comparison Method	250 °C to 600 °C	0.16 °C
259	THERMAL-TEMPERATURE	RTD/ Thermocouple With or Without Temperature Indicator / Controller / Recorder, Temperature Gauge /Temperature Controller/ Recorder with Switch , Digital Thermometer With Sensor	Using SPRT with Precision Thermometer & Liquid Bath by Comparison Method	(-) 80 °C to 50 °C	0.04 °C

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 115 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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	THERMAL-TEMPERATURE	RTD/ Thermocouple With or Without Temperature Indicator / Controller / Recorder, Temperature Gauge, Temperature Controller/ Indicator/ Indicator with Switch, Digital Thermometer With Sensor	Using SPRT with Precision Thermometer & Liquid Bath by Comparison Method	150 °C to 250 °C	0.07 °C
261	THERMAL-TEMPERATURE	RTD/ Thermocouple With or Without Temperature Indicator / Controller / Recorder, Temperature Gauge, Temperature Controller/Indicator with Switch, Digital Thermometer With Sensor	Using SPRT with Precision Thermometer & Liquid Nitrogen Bath by Comparison Method	(-) 196 °C	0.10 °C
262	THERMAL-TEMPERATURE	RTD/ Thermocouple with or without Temperature Indicator/ Controller/ Recorder, Temperature Gauge, Temperature Controller/Indicator with Switch, Thermostat with indicator, Digital Thermometer with Sensor	Using SPRT with Precision Thermometer & Liquid Bath by Comparison Method	50 °C to 150 °C	0.05 °C

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 116 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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	THERMAL-TEMPERATURE	Salt bath / Dry Block Calibrator / Chamber/ Ovens	Using Two SSPRT with Precision Thermometer by Comparison Method as per EURAMET Calibration Guide No. 13	250 °C to 600 °C	0.25 °C
264	THERMAL-TEMPERATURE	Temperature Indicator / Controller / Recorder with sensor of Block Furnace/ Bath/ Oven / Thermal Chamber (Single Position)	Using SPRT with Precision Thermometer by Comparison Method	100 °C to 300 °C	0.07 °C
265	THERMAL-TEMPERATURE	Temperature Indicator/ Controller / Recorder with sensor of Block Furnace/ Bath /Oven / Thermal Chamber (Single Position)	Using SPRT with Precision Thermometer by Comparison Method	300 °C to 600 °C	0.08 °C
266	THERMAL-TEMPERATURE	Temperature Indicator/ Controller / Recorder with sensor of Deep freezer/ Refrigerator/ Bath / Thermal Chamber (Single Position)	Using SPRT with Precision Thermometer by Comparison Method	(-) 196 °C to (-) 80 °C	0.12 °C
267	THERMAL-TEMPERATURE	Temperature Indicator/ Controller / Recorder with sensor of Deep freezer/ Refrigerator/ Recorder/ Block Furnace/ Bath / Thermal Chamber (Single Position)	Using SPRT with Precision Thermometer by Comparison Method	(-) 80 °C to 100 °C	0.08 °C

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 117 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
268	THERMAL-TEMPERATURE	Temperature Indicator/ Controller/ Recorder with sensor of Furnace/ Bath/Oven / Thermal Chamber (Single position)	Using R-Type Thermocouple with Precision Thermometer by Comparison Method	600 °C to 1200 °C	1.12 °C
269	THERMAL-TEMPERATURE	Temperature Indicator/ Controller/ Recorder with sensor of Block Furnace/ Bath/ Oven / Thermal Chember (Single Position)	Using R-Type Thermocouple with Precision Thermometer by Comparison Method	1200 °C to 1500 °C	1.2 °C
270	THERMAL-TEMPERATURE	Thermal Chamber, Autoclave (Non medical purpose), Air Oven, Furnace, Temperature Bath, Temperature Calibrator (Multiposition)	Using RTD with Precision Thermometer (minimum 9 sensor) by Comparison Method	100 °C to 350 °C	3.05 °C
271	THERMAL-TEMPERATURE	Thermal Chamber, Oven, Furnace, Temperature Calibrator / Temperature Bath (Multiposition)	Using N type Thermocouple with Data Acquisition System (minimum 9 sensors) by comparison Method	350 °C to 1200 °C	6.9 °C
272	THERMAL-TEMPERATURE	Thermal Imager (Temperature only)	Using Non Contact Thermometer & IR Calibrator (Emissivity: 0.95) by comparison method as per ASTM E2847	(-) 10 °C to 120 °C	2.06 °C

National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG AND CALIBRATION SERVICES PRIVATE LIMITED, KAMARDANGA ROAD, ICHAPUR, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2221 **Page No** 118 of 118

Validity 23/04/2025 to 22/04/2029 **Last Amended on** 17/05/2025

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)(±)
273	THERMAL-TEMPERATURE	Thermocouple With or Without Temperature Indicator / Controller / Recorder / Temperature Gauge, Temperature Controller/indicator with Switch, Digital Thermometer With Sensor	Using R type Thermocouple with Precision Thermometer & Dry Block Calibrator by Comparison Method	1200 °C to 1500 °C	2.0 °C
274	THERMAL-TEMPERATURE	Thermocouple With or Without Temperature Indicator / Controller / Recorder / Temperature Gauge,Temperature Controller/indicator with Switch, Digital Thermometer With Sensor	Using R type Thermocouple with Precision Thermometer & Dry Block Calibrator by Comparison Method	600 °C to 1200 °C	1.4 °C

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