



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** ELECTRONICS REGIONAL TEST LABORATORY (EAST), BLOCK DN 63, SECTOR V, SALT LAKE, KOLKATA, WEST BENGAL, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** CC-2008 **Page No** 23 of 56

**Validity** 21/01/2024 to 20/01/2026 **Last Amended on** 24/04/2024

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
120	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using Precision Tachometer & RPM Generator by Comparison method	100 rpm to 6000 rpm	0.84 %
121	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact type)	Using Precision Tachometer & standard Stroboscope by Comparison method	30 rpm to 70000 rpm	1.5 % to 0.1 %
122	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor (L.C.: 1 minute)	Using Angle Gauge Set By comparison method	0° to 360°	37 s
123	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer (L.C.: 0.01 mm)	Using Gauge Block Set/ Surface Plate By Comparison Method	0 to 300 mm	10 μm
124	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge (L.C.: 0.01 mm)	Using Gauge Block Set By comparison method	0 to 10 mm	6.0 μm



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125	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm)	Using Slip Gauge Block Set/Long Gauge Block Set By Comparison Method	0 to 25 mm	1.8 µm
126	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm)	Using Slip Gauge Block Set/Long Gauge Block Set By Comparison Method	100 mm to 150 mm	3.0 µm
127	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm)	Using Slip Gauge Block Set/Long Gauge Block Set By Comparison Method	150 mm to 300 mm	5.0 µm
128	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm)	Using Slip Gauge Block Set/Long Gauge Block Set By Comparison Method	25 mm to 50 mm	2.0 µm
129	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm)	Using Slip Gauge Block Set/Long Gauge Block Set By Comparison Method	300 mm to 400 mm	6.0 µm



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130	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm)	Using Slip Gauge Block Set/Long Gauge Block Set By Comparison Method	50 mm to 75 mm	2.5 µm
131	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm)	Using Slip Gauge Block Set/Long Gauge Block Set By Comparison Method	75 mm to 100 mm	2.8 µm
132	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Electronic comparator with stand By comparison method	0.01 mm to 1 mm	2.8 µm
133	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge- Dial / Digital / Analog (L.C.: 0.01 mm)	Using Gauge block, Long Gauge Block Set/Surface Plate By comparison method	0 to 1000 mm	15 µm
134	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer (L.C.: 0.001 mm)	Using Gauge Block Set/ Gauge Block Accessories, Long Gauge Block Set By Comparison Method	50 mm to 500 mm	6.1 µm



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135	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Length Bar	Using Long Gauge Block Set/Electronic Probe with DRO By Comparison Method	25 mm to 600 mm	8.0 μm
136	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial (L.C.: 0.01 mm)	Using Dial Calibration Tester By comparison method	0 to 2 mm	3 μm
137	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale (L.C.: 1 mm)	Using Scale & Tape Calibrator By comparison method	0 to 2000 mm	220 sqrt of (L) μm, where L in m
138	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape (L.C.: 1 mm)	Using Scale & Tape Calibrator By comparison method	0 to 10 m	220 sqrt of (L) μm, where L in m
139	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pie Tape (L.C.: 0.5 mm)	Using Scale & Tape Calibrator By comparison method	0 to 1200 mm	220 sqrt of (L) μm, where L in m



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140	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial (L.C: 0.01 mm)	Using Dial Calibration Tester By Comparison method	0 to 25 mm	8.3 µm
141	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Profile Projector by Comparison method	0.032 mm to 15 mm	4.48 µm
142	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Digital Vernier Caliper by Comparison method	15 mm to 25 mm	17.36 µm
143	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper - Dial/Digital/Analog (L.C.: 0.01 mm)	Using Gauge Block Set/Accessory Set By Comparison Method	300 mm to 1000 mm	25.0 µm
144	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper - Dial/Digital/Analog (L.C: 0.01 mm)	Using Gauge Block Set/Accessory Set By Comparison Method	0 to 300 mm	13.5 µm



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145	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Gauge, Pressure Transmitter	Using Digital Pressure Indicator, Digital Pressure Calibrator and digital multimeter by comparison method as per DKD R-6-1	0 bar to 700 bar	0.23 bar
146	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Gauge, Pressure Transmitter & Sensors	Using Dead Weight Tester and digital multimeter by direct method as per DKD R-6-1	6 bar to 700 bar	0.02 %
147	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Precision Gauges, Precision Transmitter	Using Digital Pressure Indicator, Digital Pressure Calibrator and digital multimeter by comparison method as per DKD R-6-1	0 bar to 40 bar	0.021 bar
148	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauges, Vacuum Transmitter	Using Digital Pressure Indicator, Digital Pressure Calibrator and digital multimeter by comparison method as per DKD R-6-1	0 bar to (-) 0.9 bar	0.0042 bar
149	OPTICAL-OPTICAL	Colour Temperature	Using Standard Lamp by direct method	2856 K to 7000 K	30 K



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150	OPTICAL- OPTICAL	Illuminance	Using Photometer by Comparison Method	10 lx to 5000 lx	2.7 %
151	OPTICAL- OPTICAL	Optical Attenuation (1310 nm, 1550 nm, 1625 nm)	Using Optical Power meter by direct method	5 dB to 30 dB	2.09 %
152	OPTICAL- OPTICAL	Optical Power (850 nm, 1300 nm, 1310 nm, 1550 nm, 1625 nm)	Using Optical power meter & optical attenuator by comparison method	-10 dBm to -40 dBm	2.09 %
153	OPTICAL- OPTICAL	Optical Wavelength	Using Set of inductive voltage divider, Spectral standard lamps ((1) He-Ne Laser, A 4302 (2) Kr, 6031 (3) Ne, 6032) and Optical Spectrum Analyzer by direct method	400 nm to 1750 nm	1.2 nm
154	OPTICAL- OPTICAL	X, Y Colour coordinate	Using Standard Lamp (TH) by Direct Method	X, Y: 0.001 to 1	0.0427
155	THERMAL- TEMPERATURE	IR Thermometer, Optical Pyrometer and Radiation Thermometer	Using Black Body Radiation Source, Reference IR Thermometer by Comparison Method	200 °C to 1200 °C	3.5 °C



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156	THERMAL-TEMPERATURE	Liquid In Glass Thermometer	Using SPRT, Liquid Bath and Temperature Indicator by comparison method	(-)80 °C to 90 °C	0.08 °C
157	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using SPRT, Silicon bath and Temperature Indicator by comparison method	90 °C to 250 °C	0.08 °C
158	THERMAL-TEMPERATURE	RTD/ PRT, Temperature Gauge, Thermocouple with or without Indicator	Using Liquid Baths, Dry Block Calibrator, SPRT & Temperature Indicator by Comparison Method	(-) 80 °C to 250 °C	0.08 °C
159	THERMAL-TEMPERATURE	RTD/ PRT, Temperature Gauge, Thermocouple with or without Indicator	Using SPRT, Dry Block Calibrator & Temperature Indicator by Comparison Method	250 °C to 550 °C	0.12 °C
160	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Dry Block Calibrator, Temperature Furnace	Using R- Type Thermocouple & Temperature Indicator by Comparison Method	1200 °C to 1300 °C	3.5 °C





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161	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Dry Block Calibrator, Temperature Furnace (Single Position)	Using R-Type Thermocouple & Temperature Indicator by Comparison Method	550 °C to 1200 °C	2.0 °C
162	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Liquid Bath, Dry Block Calibrators, Temperature Furnace (Single Position)	Using SPRT & Temperature Indicator by Comparison Method	250 °C to 550 °C	0.12 °C
163	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Liquid Baths, Dry Block Calibrators (Single Position)	Using SPRT & Temperature Indicator by Comparison Method	(-)-80 °C to 250 °C	0.08 °C
164	THERMAL-TEMPERATURE	Thermocouple with or without Indicator, Temperature Recorder With Sensor	Using R-Type Thermocouple, Temperature Indicator & Tube Furnace by Comparison Method	1200 °C to 1300 °C	3.6 °C



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165	THERMAL-TEMPERATURE	Thermocouple with or without Indicator, Temperature Recorder With Sensor	Using R-Type Thermocouple, Dry Block Calibrator & Temperature Indicator by Comparison Method	550 °C to 1200 °C	2 °C