SCOPE OF ACCREDITATION

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

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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
125	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Signal Generator logged with GPS Controlled Rubidium Frequency Standard by Direct Method.	10 Hz to 20 GHz	0.0005 % to 0.0000035 %
126	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Time	Using Calibrator, Function Generator, Signal Generator logged with GPS controlled Rb Frequency Standard by Direct Method	20 nS to 2000 S	0.0002 %
127	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using Precision Tachometer & RPM Generator by Comparison method	100 rpm to 6000 rpm	0.84 %
128	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact type)	Using Standard Tachometer and LED Stroboscope externally triggered with Function Generator (as source) by comparison method	100 rpm to 999.9 rpm	0.3 %
129	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact type)	Using Standard Tachometer and LED Stroboscope externally triggered with Function Generator (as source) by comparison method	1000 rpm to 9999 rpm	0.1 %

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130	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact type)	Using Standard Tachometer and LED Stroboscope externally triggered with Function Generator (as source) by comparison method	10000 rpm to 29999 rpm	0.05 %
131	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact type)	Using Standard Tachometer and LED Stroboscope externally triggered with Function Generator (as source) by comparison method	30 rpm to 99.9 rpm	1.5 %
132	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact type)	Using Standard Tachometer and LED Stroboscope externally triggered with Function Generator (as source) by comparison method	30000 rpm to 70000 rpm	0.01 %
133	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Gauge, Pressure Transmitter	Using Standard Digital Pressure Indicator with Hydraulic Pressure Comparator (as Source) & digital multimeter for Pressure transmitter by comparison method as per DKD R-6-1	0 to 700 bar	0.23 bar

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134	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Gauge, Pressure Transmitter & Pressure Transducers	Using Dead Weight Tester and digital multimeter for Transmitter and Transducer by direct method as per DKD R-6-1	6 bar to 700 bar	0.02 %
135	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Precision Gauges, Precision Transmitter	Using Standard Digital Pressure Indicator with Hand Held Pneumatic and Vacuum Pump (as Source) & digital multimeter for Pressure transmitter by comparison method as per DKD R-6-1	0 to 40 bar	0.021 bar
136	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauges, Vacuum Transmitter	Using Standard Digital Pressure Indicator with Hand Held Pneumatic and Vacuum Pump (as Source) & digital multimeter for transmitter by comparison method as per DKD R-6-1 :	0 to (-) 0.9 bar	0.0042 bar
137	OPTICAL-OPTICAL	Colour Temperature	Using Standard Lamp by Direct Method	2838 K to 7000 K	31 K
138	OPTICAL-OPTICAL	Illuminance	Using Photometer by Comparison Method	10 lx to 5000 lx	1.75 %
139	OPTICAL-OPTICAL	Optical Attenuation (1310 nm, 1550 nm, 1625 nm)	Using Optical Power Meter and Source by Direct Method	1 dB to 40 dB	1.62 %

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140	OPTICAL-OPTICAL	Optical Power (1310 nm, 1550 nm, 1625 nm)	Using Optical power meter & optical attenuator by comparison method	-10 dBm to -40 dBm	2.09 %
141	OPTICAL-OPTICAL	Optical Wavelength	Using Spectral standard lamps (He-Ne Laser, A 4302, Kr (6031), Ne (6032), Xe (6033) and Optical Spectrum Analyzer by direct method	400 nm to 1750 nm	1.0 nm
142	OPTICAL-OPTICAL	X, Y Colour coordinate	Using Standard Lamp (TH) by Direct Method	x, y: 0.001 to 1	0.02
143	THERMAL-TEMPERATURE	IR Thermometer, Optical Pyrometer and Radiation Thermometer	Using Black Body Radiation Source, Reference IR Thermometer by Comparison Method; Emissivity=0.994	200 °C to 1200 °C	3.5 °C
144	THERMAL-TEMPERATURE	Liquid In Glass Thermometer	Using SPRT, Liquid Bath and Temperature Indicator by comparison method	(-)40 °C to 90 °C	0.08 °C
145	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using SPRT, Silicon bath and Temperature Indicator by comparison method	90 °C to 250 °C	0.08 °C
146	THERMAL-TEMPERATURE	RTD/ PRT, Temperature Gauge, Thermocouple with or without Indicator	Using Liquid Baths, Dry Block Calibrator, SPRT & Temperature Indicator by Comparison Method	(-) 40 °C to 250 °C	0.08 °C

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147	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
148	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
149	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
150	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
151	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Liquid Baths, Dry Block Calibrators (Single Position)	Using SPRT & Temperature Indicator by Comparison Method	(-)40 °C to 250 °C	0.08 °C
152	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 °C

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153	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