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)(±)
118	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Signal Generator / Function Generator and Frequency Counter logged with GPS controlled Rb Frequency Standard in Comparison method	1 nS to 2000 S	0.0002 %
119	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Frequency Counter logged with GPS controlled Rb Frequency Standard by Direct Method	1 nS to 2000 S	0.0002 %
120	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 %
121	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 %
122	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 %

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123	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 %
124	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 %
125	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 %
126	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 %

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127	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
128	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
129	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

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130	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator with Sensor of Temperature & Humidity Chamber / Environmental Chamber (Single Position)	Using Digital Temperature and Humidity Indicator with Sensor by Comparison method	20 %rh to 95 %rh (25 °C to 60 °C)	2 %rh
131	THERMAL-TEMPERATURE	Bath, Oven, Chamber, Incubator & Furnace (Multi position)	Using RTDs & Data Loggers (minimum 9 Sensors) by comparison Method	(-)40 °C to 300 °C	1.0 °C
132	THERMAL-TEMPERATURE	Refrigerator & Cold Chamber (Multi Position)	Using RTDs & Data Loggers (minimum 9 Sensors) by comparison Method	(-) 40 °C to 50 °C	0.86 °C
133	THERMAL-TEMPERATURE	Temperature Gauge, Temperature Sensor with or without indicator	Using SPRT, Dry Block Calibrator & Temperature Indicator By Comparison Method	50 °C to 300 °C	1 °C
134	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Bath, Oven, Chamber, Incubator & Autoclave (for Non-Medical Application) (Single Position)	Using PRT with Temperature Indicator by Comparison Method	(-)40 °C to 300 °C	0.5°C
135	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Dry Well Calibrator, Furnace, Hot Chamber	Using ‘R’ Type Thermocouple & Temperature Indicator by Comparison Method	300 °C to 1200 °C	2.0 °C

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136	THERMAL-TEMPERATURE	Temperature indicator with the sensor of Refrigerator & Cold Chamber (Single Position)	Using RTD and Temperature Indicator by Comparison Method	(-) 40 °C to 50 °C	1 °C
137	THERMAL-TEMPERATURE	Thermocouple, Temperature Gauge with or without Indicator	Using R Type Thermocouple, Dry block Calibrator & Temperature Indicator By Comparison Method	300 °C to 1200 °C	2 °C

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