National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : YOUNG ENGG & CALIBRATION SERVICES PVT. LTD., BADDI, 1ST. FLOOR, FLAT - 102, HIMACHAL ONE APARTMENT, SOLAN, HIMACHAL PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3861 **Page No** 1 of 9

Validity 19/03/2024 to 18/03/2026 **Last Amended on** -

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	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Generator / RPM Source (Non-Contact Type)	Using Standard Non Contact Tachometer by Direct Method	1000 rpm to 6000 rpm	6.2 rpm
2	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Generator / RPM Source (Non-Contact Type)	Using Standard Non Contact Tachometer by Direct Method	500 rpm to 1000 rpm	6.2 rpm
3	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non-Contact Type)	Using Standard Tachometer & RPM Generator by Comparison Method	100 rpm to 500 rpm	2.5 rpm
4	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non-Contact Type)	Using Standard Tachometer & RPM Generator by Comparison Method	1000 rpm to 6000 rpm	28 rpm
5	MECHANICAL-ACCELERATION AND SPEED	Tachometer (non-contact type)	Using Standard Tachometer & RPM Generator by comparison method	20 rpm to 100 rpm	1.7 rpm
6	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non-Contact Type)	Using Standard Tachometer & RPM Generator by Comparison Method	25000 rpm to 90000 rpm	430 rpm
7	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non-Contact Type)	Using Standard Tachometer & RPM Generator by Comparison Method	500 rpm to 1000 rpm	4.7 rpm

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8	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non-Contact Type)	Using Standard Tachometer & RPM Generator by Comparison Method	6000 rpm to 8500 rpm	40 rpm
9	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non-Contact Type)	Using Standard Tachometer & RPM Generator by Comparison Method	8500 rpm to 25000 rpm	116 rpm
10	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Gauge, Differential Pressure Gauge, Pressure Switch, Pressure Transducer, Pressure Transmitter & Pressure Calibrator	Using Pressure Gauge, Process Calibrator and Hydraulic Comparator by Comparison Method as per DKD R-6-1	0 to 1200 bar	Q(5.77E - 02 bar, 0.22 % rdg) Where Q [a, b] = [a^2+b^2]^0.5
11	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Gauge, Differential Pressure Gauge, Pressure Switch, Pressure Transducer, Pressure Transmitter & Pressure Calibrator	Using Pressure Gauge, Process Calibrator and Hydraulic Comparator by Comparison Method as per DKD R-6-1	0 to 70 bar	Q(5.77E - 03 bar, 0.09 5% rdg) Where Q [a, b] = [a^2+b^2]^0.5

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12	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Gauge, Differential Pressure Gauge, Pressure Switch, Pressure Transducer, Pressure Transmitter & Pressure Calibrator	Using Pressure Gauge, Process Calibrator and Hydraulic Comparator by Comparison Method as per DKD R-6-1	0 to 700 bar	Q (5.77E - 03 bar, 0.075 % rdg) Where Q [a, b] = [a^2+b^2]^0.5
13	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Magnehelic Gauge / Manometer / Pressure / Differential Pressure (Gauge/ Transmitter / Transducer / Switch / Calibrator)	Using Pressure Gauge, Process Calibrator and Pneumatic Comparator by Comparison Method as per DKD R-6-1	0 to 2 kPa	Q(5.77E - 04 kPa, 0.53 % rdg) Where Q[a, b] = [a^2+b^2]^0.5
14	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Vacuum(Gauge / Switch / Transducer / Transmitter / Calibrator)	Using Pressure Gauge, Process Calibrator and Pneumatic Comparator by Comparison Method as per DKD R-6-1	(-) 0.7 bar to 0 bar	Q(5.77E - 04 bar, 0.25 % rdg) Where Q [a, b] = [a^2+b^2]^0.5

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15	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Gauge, Differential Pressure Gauge, Pressure Switch, Pressure Transducer, Pressure Transmitter & Pressure Calibrator	Using Pressure Gauge, Process Calibrator and Pneumatic Comparator by Comparison Method as per DKD R-6-1	0 to 35 bar	Q(5.77E - 04 bar, 0.1 % rdg) Where Q [a, b] = [a^2+b^2]^0.5
16	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Gauge, Pressure Switch, Pressure Transducer, Pressure Transmitter & Pressure Calibrator, Manometer	Using Pressure Gauge, Process Calibrator and Pneumatic Comparator by Comparison Method as per DKD R-6-1	0 to 2 bar	Q(5.77E - 04 bar, 0.15 % rdg) Where Q [a, b] = [a^2+b^2]^0.5
17	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator, Humidity sensor with Indicator	Using Digital Humidity Indicator and Humidity Chamber by Comparison Method	15 %rh to 95 %rh @ 25 °C	2.93 %rh
18	THERMAL-TEMPERATURE	RTD, Thermocouple (with or without Temperature Indicator), Temperature Controller, Temperature Recorder, Dial Thermometer	Using Standard RTD, Data Acquisition System and Dry well bath by Comparison Method	(-) 15 °C to 110 °C	0.43 °C

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19	THERMAL-TEMPERATURE	RTD, Thermocouple (with or without Temperature Indicator), Temperature Controller, Temperature Recorder, Dial Thermometer	Using Standard RTD, Data Acquisition System and Dry well bath by Comparison Method	> 110 °C to 300 °C	0.72 °C
20	THERMAL-TEMPERATURE	Thermocouple (with or without Temperature Indicator), Temperature Controller, Temperature Recorder, Dial Thermometer	Using R Type Thermocouple, Data Acquisition System and Dry well bath by Comparison Method	> 300 °C to 650 °C	2.1 °C
21	THERMAL-TEMPERATURE	Thermocouple (with or without Temperature Indicator), Temperature Controller, Temperature Recorder, Dial Thermometer	Using R Type Thermocouple, Data Acquisition System and Dry well bath by Comparison Method	> 650 °C to 1200 °C	3.5 °C

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Site Facility					
1	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Generator / RPM Source (Non-Contact Type)	Using Standard Non Contact Tachometer by Direct Method	1000 rpm to 6000 rpm	6.2 rpm
2	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Generator / RPM Source (Non-Contact Type)	Using Standard Non Contact Tachometer by Direct Method	500 rpm to 1000 rpm	6.2 rpm
3	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non-Contact Type)	Using Standard Tachometer & RPM Generator by Comparison Method	100 rpm to 500 rpm	2.5 rpm
4	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non-Contact Type)	Using Standard Tachometer & RPM Generator by Comparison Method	1000 rpm to 6000 rpm	28 rpm
5	MECHANICAL-ACCELERATION AND SPEED	Tachometer (non-contact type)	Using Standard Tachometer & RPM Generator by comparison method	20 rpm to 100 rpm	1.7 rpm
6	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non-Contact Type)	Using Standard Tachometer & RPM Generator by Comparison Method	25000 rpm to 90000 rpm	430 rpm
7	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non-Contact Type)	Using Standard Tachometer & RPM Generator by Comparison Method	500 rpm to 1000 rpm	4.7 rpm

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8	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non-Contact Type)	Using Standard Tachometer & RPM Generator by Comparison Method	6000 rpm to 8500 rpm	40 rpm
9	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non-Contact Type)	Using Standard Tachometer & RPM Generator by Comparison Method	8500 rpm to 25000 rpm	116 rpm
10	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator, Humidity sensor with Indicator	Using Digital Humidity Indicator and Humidity Chamber by Comparison Method	15 %rh to 95 %rh @ 25 °C	2.93 %rh
11	THERMAL-TEMPERATURE	Chamber, Incubator (Non medical purpose), Autoclave (Non medical purpose), Air Oven, Furnace, Temperature Bath	Using Std. RTD and Data Acquisition System (minimum 9 sensor) by Comparison Method	100 °C to 300 °C	3 °C
12	THERMAL-TEMPERATURE	Deep Freezer, Refrigerator, Incubator (Non medical purpose), Autoclave (non medical purpose), Air Oven, Furnace, Temperature Bath, Thermal Chamber	Using Std. RTD and Standard Data Acquisition System (minimum 9 sensor) by Comparison Method	(-) 80 °C to 100 °C	2.5 °C

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13	THERMAL-TEMPERATURE	Indicator / controller with sensor of Deep freezer / Refrigerator / Recorder / Block Furnace / Bath (Single Position)	Using Std. RTD with Data Acquisition System by Comparison Method	(-) 80 °C to 0 °C	0.5 °C
14	THERMAL-TEMPERATURE	RTD, Thermocouple (with or without Temperature Indicator), Temperature Controller, Temperature Recorder, Dial Thermometer	Using Standard RTD, Data Acquisition System and Dry well bath by Comparison Method	(-) 15 °C to 110 °C	0.43 °C
15	THERMAL-TEMPERATURE	RTD, Thermocouple (with or without Temperature Indicator), Temperature Controller, Temperature Recorder, Dial Thermometer	Using Standard RTD, Data Acquisition System and Dry well bath by Comparison Method	> 110 °C to 300 °C	0.72 °C

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16	THERMAL-TEMPERATURE	Thermocouple (with or without Temperature Indicator), Temperature Controller, Temperature Recorder, Dial Thermometer	Using R Type Thermocouple, Data Acquisition System and Dry well bath by Comparison Method	> 300 °C to 650 °C	2.1 °C
17	THERMAL-TEMPERATURE	Thermocouple (with or without Temperature Indicator), Temperature Controller, Temperature Recorder, Dial Thermometer	Using R Type Thermocouple, Data Acquisition System and Dry well bath by Comparison Method	> 650 °C to 1200 °C	3.5 °C

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