National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TECHNICAL RESOURCES, OFFICE NO 2, M D TONES PARADISE, MUMBAI, MUMBAI SUBURBAN, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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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)(±)
Permanent Facility					
1	MECHANICAL-ACCELERATION AND SPEED	Tachometer	Using Digital Non Contact Tachometer, RPM Source by comparison method	5000 RPM to 60000 RPM	7.2RPM to 18RPM
2	MECHANICAL-ACCELERATION AND SPEED	RPM Meter, Centrifuges, Shakers, Orbital Shakers, Mixers	Using Non Contact Digital Tachometer By Comparison Method	60 RPM to 5000 RPM	4.5 RPM to 7.5 RPM
3	MECHANICAL-ACCELERATION AND SPEED	RPM Meter, Centrifuges, Shakers, Orbital Shakers, Mixers, RPM Devices	Using Digital Non Contact Tachometer by comparison method	5000 RPM to 60000 RPM	7.2 RPM to 18 RPM
4	MECHANICAL-ACCELERATION AND SPEED	Tachometer	Using Non Contact type Digital Tachometer, with RPM Sources Device, By Comparison Method:	60 RPM to 5000 RPM	4.5RPM to 7.5RPM
5	MECHANICAL-PRESSURE INDICATING DEVICES	Digital Pressure Indicator , Manometer Magnahelic Gauge, Low Pressure Gauge	using Pneumatic pressure pump, master Digital Pressure Calibrator, as per DKD R-6-1	-250 Pa to 0 Pa	9.3Pa
6	MECHANICAL-PRESSURE INDICATING DEVICES	Digital Pressure Indicator , Manometer, Magnahelic Gauge, Low Pressure Gauge	using Pneumatic pressure pump, master Digital Pressure Calibrator as per DKD R-6-1	0 Pa to 250 Pa	3.059Pa

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7	MECHANICAL-PRESSURE INDICATING DEVICES	Digital/Analog Pressure Gauges, Indicators	using Hydraulic pressure pump, master Digital Pressure Calibrator as per DKD R-6-1	0 bar to 1000 bar	11.610bar
8	MECHANICAL-PRESSURE INDICATING DEVICES	Digital/Analog Pressure Gauges,Vacuum Gauges,Indicators,	using Pneumatic pressure pump, master Digital Pressure Calibrator as per DKD R-6-1	-0.95 bar to 0 bar	0.03bar
9	MECHANICAL-PRESSURE INDICATING DEVICES	Digital/Analog Pressure Gauges & Indicators	using Pneumatic pressure pump, master Digital Pressure Calibrator as per DKD R-6-1	0 bar to 40 bar	0.154bar
10	MECHANICAL-VOLUME	Piston Pipettes	Using Balance upto 200g of readability 0.1 mg & distill water with known density as per ISO 8655-6	1 ml to 100 ml	25µl
11	MECHANICAL-VOLUME	Glassware, plastic ware, glass pipettes, Burette, Flasks, cylinder, Beakers	Using Balance upto 200g of readability 0.1 mg & distill water Standard Weights E2 & F1 class gravimetric method.	>1 ml to 50 ml	0.64ml

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12	MECHANICAL-VOLUME	Glassware, plastic ware, glass pipettes, Burette, Flasks, cylinder, Beakers	Using Balance upto 200g of readability 0.1 mg & distill water Standard Weights E2 class as per IS/ISO 4787	>50 ml to 150 ml	0.72ml
13	MECHANICAL-VOLUME	Glassware, plastic ware, glass pipettes, Burette, Flasks, cylinder, Beakers	Using Balance upto 200g of readability 0.1 mg & distill water Standard Weights E2 & F1 class gravimetric method.	0 ml to 1 ml	0.025ml
14	MECHANICAL-VOLUME	Micropipettes Pipettes	Using Balance upto 11/22g of readability 0.001/0.01 mg & distill water with known density as per ISO 8655-6	>10 µl to 100 µl	0.09µl
15	MECHANICAL-VOLUME	Micropipettes Pipettes	Using Balance upto 30/160g of readability 0.01/0.1 mg & distill water with known density as per ISO 8655-6	>100 µl to 1000 µl	0.27µl
16	MECHANICAL-VOLUME	Micropipettes Pipettes	Using Balance upto 30/160g of readability 0.01 mg & distill water with known density as per ISO 8655-6	>1000 µl to 5000 µl	4.6µl

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17	MECHANICAL-VOLUME	Micropipettes Pipettes	Using Balance upto 30/160g of readability 0.01/0.1 mg & distill water with known density as per ISO 8655-6	>5000 µl to 10000 µl	10µl
18	MECHANICAL-VOLUME	Micropipettes Pipettes	Using Balance upto 11/22g of readability 0.001 mg & distill water with known density as per ISO 8655-6	1 µl to 10 µl	0.09µl
19	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance of Class I & Coarser	Using weights of class E2 calibration of Electronic Analytical Balance of Class 1 & Coarser as per OIML R-76-1	1 mg to 200 g	0.81mg
20	MECHANICAL-WEIGHTS	Weight F1 Class & Courser	using E2 class standard weight, precision digital balance, readability 0.01mg calibration of weight as per OIML R-111	10 g	0.08mg

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21	MECHANICAL-WEIGHTS	Weight F1 Class & Courser	using E2 class standard weight, precision digital balance, readability 0.1 mg calibration of weight as per OIML R-111	100 g	0.11mg
22	MECHANICAL-WEIGHTS	Weight F1 Class & Courser	using E2 class standard weight, precision digital balance, readability 0.01mg calibration of weight as per OIML R-111	20 g	0.08mg
23	MECHANICAL-WEIGHTS	Weight F1 Class & Courser	using E2 class standard weight, precision digital balance, readability 0.1 mg calibration of weight as per OIML R-111	200 g	0.17mg
24	MECHANICAL-WEIGHTS	Weight F1 Class & Courser	using E2 class standard weight, precision digital balance, readability 0.1 mg calibration of weight as per OIML R-111	50 g	0.08mg

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25	MECHANICAL-WEIGHTS	Weight F2 Class & Courser	using E2 class standard weight, precision digital balance, readability 0.001mg calibration of weight as per OIML R-111	2 g	0.08mg
26	MECHANICAL-WEIGHTS	Weight F2 Class & Courser	using E2 class standard weight, precision digital balance, readability 0.001mg calibration of weight as per OIML R-111	1 g	0.08mg
27	MECHANICAL-WEIGHTS	Weight F2 Class & Courser	using E2 class standard weight, precision digital balance, readability 0.001mg calibration of weight as per OIML R-111	5 g	0.08mg
28	MECHANICAL-WEIGHTS	Weight F2 Class & Courser	using E2 class standard weight, precision digital balance, readability 0.001mg calibration of weight as per OIML R-111	500 mg	0.08mg

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29	MECHANICAL-WEIGHTS	Weight M1 Class & coarser	using E2 class standard weight, precision digital balance, readability 0.001mg calibration of weight as per OIML R-111	100 mg to mg	0.08mg
30	MECHANICAL-WEIGHTS	Weight M1 Class & Coarser	using E2 class standard weight, precision digital balance, readability 0.001mg calibration of weight as per OIML R-111	20 mg	0.08mg
31	MECHANICAL-WEIGHTS	Weight M1 Class & Courser	using E2 class standard weight, precision digital balance, readability 0.001mg calibration of weight as per OIML R-111	1 mg	0.03mg
32	MECHANICAL-WEIGHTS	Weight M1 Class & Courser	using E2 class standard weight, precision digital balance, readability 0.001mg calibration of weight as per OIML R-111	10 mg	0.08mg

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33	MECHANICAL-WEIGHTS	Weight M1 Class & Courser	using E2 class standard weight, precision digital balance, readability 0.001mg calibration of weight as per OIML R-111	2 mg	0.03mg
34	MECHANICAL-WEIGHTS	Weight M1 Class & Courser	using E2 class standard weight, precision digital balance, readability 0.001mg calibration of weight as per OIML R-111	200 mg	0.08mg
35	MECHANICAL-WEIGHTS	Weight M1 Class & Courser	using E2 class standard weight, precision digital balance, readability 0.001mg calibration of weight as per OIML R-111	5 mg	0.08mg
36	MECHANICAL-WEIGHTS	Weight M1 Class & Courser	using E2 class standard weight, precision digital balance, readability 0.001mg calibration of weight as per OIML R-111	50 mg	0.08mg

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37	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicators with Sensors of Thermohygrometers , Humidity & Environmental Chambers	Using Polltech Humidity & Temp Indicator, with Rotronic Hydro Clip Sensor & RTD Sensor by comparison method	30 %Rh to 95 %Rh	2.5%Rh
38	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicators with Sensors of Thermohygrometers , Humidity & Environmental Chambers, Data Loggers, @50%Rh	Using Poltech Humidity Indicator with Rotronic Hydroclip Sensor & RTD Sensor, Humidity Chamber by comparison Method	25 °C to 50 °C	0.55°C
39	THERMAL-SPECIFIC HEAT & HUMIDITY	Relative Humidity Sensors with Indicator, Hygrometer /Humidity Data Logger @25°C	using Polltech Humidity & Temp. Indicator with RotronicHydro Clip Sensor, RTD Sensor, Humidity Chamber by comparison Method	30 %Rh to 95 %Rh	2.5%Rh
40	THERMAL-TEMPERATURE	Glass Thermometer	Using RTD sensor with MF Process calibrator low temperature chiller bath, liquid bath by comparison Method	-20 °C to 200 °C	0.5°C

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41	THERMAL-TEMPERATURE	RTD sensor, Thermocouple with Indicator	Using RTD Sensor with MF calibrator Dry Bath by comparison Method	200 °C to 400 °C	1.4°C
42	THERMAL-TEMPERATURE	RTD Sensor/Thermocouple with Indicator	Using RTD Sensor with MF Calibrator with low temp. liquid Bath, Liquid Bath, Dry Bath by Comparison Method	-20 °C to 200 °C	0.53°C
43	THERMAL-TEMPERATURE	Temperature Indicator of Refrigerator, Freezers, Chiller Bath, Liquid Bath, Heating Mantles, autoclaves (Industrial) , Oven, Incubator (Industrial) Environmental chamber, Humidity Chamber	Using RTD Sensor, with Temp. Indicator, 0.01 resolution, MF process calibrator by comparison Method	-20 °C to 200 °C	0.53°C
44	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Liquid Bath, Dry Bath, Oven, Incubator (Industrial) furnace	using RTD sensor with MF Calibrator, RTD sensor with Indicator by comparison method	200 °C to 400 °C	1.4°C

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45	THERMAL-TEMPERATURE	Temperature Indicators with Sensors of Liquid Baths Heating Mantles, Ovens, Furnaces,	Using R type TC along with MF calibrator by comparison method	400 °C to 1000 °C	3.81°C
46	THERMAL-TEMPERATURE	Thermocouple with indicator	Using "R" Type sensor with MF calibrator with Dry Bath well, Furnace by comparison method	400 °C to 1000 °C	3.81°C

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Site Facility					
1	MECHANICAL-ACCELERATION AND SPEED	Tachometer	Using Digital Non Contact Tachometer, RPM Source by comparison method	5000 RPM to 60000 RPM	7.2RPM to 18RPM
2	MECHANICAL-ACCELERATION AND SPEED	RPM Meter, Centrifuges, Shakers, Orbital Shakers, Mixers	Using Non Contact Digital Tachometer By Comparison Method	60 RPM to 5000 RPM	4.5 RPM to 7.5 RPM
3	MECHANICAL-ACCELERATION AND SPEED	RPM Meter, Centrifuges, Shakers, Orbital Shakers, Mixers, RPM Devices	Using Digital Non Contact Tachometer by comparison method	5000 RPM to 60000 RPM	7.2 RPM to 18 RPM
4	MECHANICAL-ACCELERATION AND SPEED	Tachometer	Using Non Contact type Digital Tachometer, with RPM Sources Device, By Comparison Method:	60 RPM to 5000 RPM	4.5RPM to 7.5RPM
5	MECHANICAL-PRESSURE INDICATING DEVICES	Digital Pressure Indicator , Manometer Magnahelic Gauge, Low Pressure Gauge	using Pneumatic pressure pump, master Digital Pressure Calibrator, as per DKD R-6-1	-250 Pa to 0 Pa	9.3Pa
6	MECHANICAL-PRESSURE INDICATING DEVICES	Digital Pressure Indicator , Manometer, Magnahelic Gauge, Low Pressure Gauge	using Pneumatic pressure pump, master Digital Pressure Calibrator as per DKD R-6-1	0 Pa to 250 Pa	3.059Pa

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7	MECHANICAL-PRESSURE INDICATING DEVICES	Digital/Analog Pressure Gauges,Vacuum Gauges,Indicators,	using Pneumatic pressure pump, master Digital Pressure Calibrator as per DKD R-6-1	-0.95 bar to 0 bar	0.03bar
8	MECHANICAL-PRESSURE INDICATING DEVICES	Digital/Analog Pressure Gauges & Indicators	using Pneumatic pressure pump, master Digital Pressure Calibrator as per DKD R-6-1	0 bar to 40 bar	0.154bar
9	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance of Class I & Coarser	Using weights of class E2 calibration of Electronic Analytical Balance of Class 1 & Coarser as per OIML R-76-1	1 mg to 200 g	0.81mg
10	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance of Class II & Coarser	Using weights of accuracy Class F1 calibration of Electronic precision balance of L.C.: 1 g class III & coarser as per OIML R-76-1	1 g to 10 kg	1.2g
11	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicators with Sensors of Thermohygrometers , Humidity & Environmental Chambers	Using Polltech Humidity & Temp Indicator, with Rotronic Hydro Clip Sensor & RTD Sensor by comparison method	30 %Rh to 95 %Rh	2.5%Rh

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12	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicators with Sensors of Thermohygrometers , Humidity & Environmental Chambers, Data Loggers, @50%Rh	Using Poltech Humidity Indicator with Rotronic Hydroclip Sensor & RTD Sensor, Humidity Chamber by comparison Method	25 °C to 50 °C	0.55°C
13	THERMAL-TEMPERATURE	Freezers, Refrigerators, Incubator(Industrial) Oven, liquid baths Environmental Chambers, autoclaves,	Using datalogger with RTD sensors upto 9 nos multiposition by comparison method	-20 °C to 400 °C	2.34°C
14	THERMAL-TEMPERATURE	Temperature Indicator of Refrigerator, Freezers, Chiller Bath, Liquid Bath, Heating Mantles, autoclaves (Industrial) , Oven, Incubator (Industrial) Environmental chamber, Humidity Chamber	Using RTD Sensor, with Temp. Indicator, 0.01 resolution, MF process calibrator by comparison Method	-20 °C to 200 °C	0.53°C

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15	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Deep Freezers, Refrigerators, Freezers	Using RTD Sensor with Digital Indicator resolution 0.01, RTD with MF Process calibrator by comparison Method	-80 °C to 25 °C	0.66°C
16	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Liquid Bath, Dry Bath, Oven, Incubator (Industrial) furnace	using RTD sensor with MF Calibrator, RTD sensor with Indicator by comparison method	200 °C to 400 °C	1.4°C
17	THERMAL-TEMPERATURE	Temperature Indicators with Sensors of Liquid Baths Heating Mantles, Ovens, Furnaces,	Using R type TC along with MF calibrator by comparison method	400 °C to 1000 °C	3.81°C

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