National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	TECHNICAL RESOURCES, OFFICE NO 2, M D TONES PARADISE, NAVAGAON, DAHISAR WEST, MUMBAI SUBURBAN, MUMBAI, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2112	**Page No**	1 of 17
Validity	12/04/2024 to 11/04/2026	**Last Amended on**	29/06/2024

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)(±)
Permanent Facility					
1	MECHANICAL-ACCELERATION AND SPEED	RPM Meter, Centrifuges, Shakers, Orbital Shakers, Mixers	Using Non Contact Tachometer, by Comparison Method	1000 rpm to 5000 rpm	5.46 rpm
2	MECHANICAL-ACCELERATION AND SPEED	RPM Meter, Centrifuges, Shakers, Orbital Shakers, Mixers	Tachometer Non Contact, by Comparison Method	10000 rpm to 20000 rpm	12.43 rpm
3	MECHANICAL-ACCELERATION AND SPEED	RPM Meter, Centrifuges, Shakers, Orbital Shakers, Mixers	Tachometer Non Contact, by Comparison Method	20000 rpm to 60000 rpm	36.4 rpm
4	MECHANICAL-ACCELERATION AND SPEED	RPM Meter, Centrifuges, Shakers, Orbital Shakers, Mixers	Using Non Contact Tachometer, by Comparison Method	500 rpm to 1000 rpm	4.69 rpm
5	MECHANICAL-ACCELERATION AND SPEED	RPM Meter, Centrifuges, Shakers, Orbital Shakers, Mixers	Using Non Contact Tachometer, by Comparison Method	5000 rpm to 10000 rpm	7.40 rpm
6	MECHANICAL-ACCELERATION AND SPEED	RPM Meter, Centrifuges, Shakers, Orbital Shakers, Mixers	Using Non Contact Tachometer, by Comparison Method	60 rpm to 500 rpm	2.4 rpm
7	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact)	Using Digital Non Contact Tachometer, RPM Source by Comparison	1000 rpm to 5000 rpm	5.3 rpm

SCOPE OF ACCREDITATION

Laboratory Name :	TECHNICAL RESOURCES, OFFICE NO 2, M D TONES PARADISE, NAVAGAON, DAHISAR WEST, MUMBAI SUBURBAN, MUMBAI, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2112	**Page No**	2 of 17
Validity	12/04/2024 to 11/04/2026	**Last Amended on**	29/06/2024

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)(±)
8	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact)	Using Digital Non Contact Tachometer, RPM Source by Comparison	10000 rpm to 20000 rpm	12.43 rpm
9	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact)	Using Digital Non Contact Tachometer, RPM Source by Comparison Method	20000 rpm to 60000 rpm	36.4 rpm
10	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact)	Using Digital Non Contact Tachometer, RPM Source by Comparison	500 rpm to 1000 rpm	5.3 rpm
11	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact)	Using Digital Non Contact Tachometer, RPM Source by Comparison	5000 rpm to 10000 rpm	7.44 rpm
12	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact)	Using Digital Non Contact Tachometer, RPM Source by Comparison	60 rpm to 500 rpm	4.6 rpm
13	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	(-) 1000 Pa to 0 Pa	5 Pa
14	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 1000 Pa	5 Pa

SCOPE OF ACCREDITATION

Laboratory Name :	TECHNICAL RESOURCES, OFFICE NO 2, M D TONES PARADISE, NAVAGAON, DAHISAR WEST, MUMBAI SUBURBAN, MUMBAI, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2112	**Page No**	3 of 17
Validity	12/04/2024 to 11/04/2026	**Last Amended on**	29/06/2024

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)(±)
15	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 35 bar	0.25 bar
16	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	3.5 bar
17	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	(-) 0.90 bar to 0 bar	0.003 bar
18	MECHANICAL-VOLUME	Piston Pipettes	Using Balance upto 200g of Readability 0.1 mg & Distill Water with Known Density as per ISO 8655-6-2022	1 ml to 100 ml	25 µl
19	MECHANICAL-VOLUME	Glassware, plastic ware, glass pipettes, Burette, Flasks, cylinder, Beakers	Using Balance upto 200g of Readability 0.1 mg & Distill Water as per IS/ISO 4787-2021	>50 ml to 150 ml	0.72 ml

SCOPE OF ACCREDITATION

Laboratory Name :	TECHNICAL RESOURCES, OFFICE NO 2, M D TONES PARADISE, NAVAGAON, DAHISAR WEST, MUMBAI SUBURBAN, MUMBAI, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2112	**Page No**	4 of 17
Validity	12/04/2024 to 11/04/2026	**Last Amended on**	29/06/2024

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20	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	5 ml to 50 ml	0.64 ml
21	MECHANICAL-VOLUME	Micropipettes Single Channel	Using Balance upto 30/160g of Readability 0.01/0.1 mg & Distill Water with Known Density as per ISO 8655-6-2022	>5000 µl to 10000 µl	10 µl
22	MECHANICAL-VOLUME	Micropipettes Single Channel, Multi Channel	Using Balance upto 30/160g of Readability 0.01/0.1 mg & Distill Water with Known Density as per ISO 8655-6-2022	>100 µl to 1000 µl	0.27 µl
23	MECHANICAL-VOLUME	Micropipettes Single Channel, Multi Channel	Using Balance upto 11/22g of Readability 0.001/0.01 mg & Distill Water with Known Density as per ISO 8655-6	>20 µl to 100 µl	0.113 µl

SCOPE OF ACCREDITATION

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

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2112 **Page No** 5 of 17

Validity 12/04/2024 to 11/04/2026 **Last Amended on** 29/06/2024

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)(±)
24	MECHANICAL-VOLUME	Micropipettes Single Channel, Multi Channel	Using Balance upto 11/22g of Readability 0.001 mg & Distill Water with Known Density as per ISO 8655-6-2022	1 µl to 20 µl	0.09 µl
25	MECHANICAL-VOLUME	Micropipettes, Pipettes	Using Balance upto 30/160g of Readability 0.01 mg & Distill Water with Known density as per ISO 8655-6-2022	>1000 µl to 5000 µl	4.6 µl
26	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance of Class II & Coarser with Readability 0.1mg	Using Weights of Class E2 as per OIML R-76-1	1 mg to 200 g	0.81 mg
27	MECHANICAL-WEIGHTS	Weight F1 Class & Coarser	Using E2 Class Standard Weight, Precision Pigital Balance, Readability 0.001mg as per OIML R-111	10 g	0.08 mg
28	MECHANICAL-WEIGHTS	Weight F1 Class & Coarser	Using E2 Class Standard Weight, Precision Digital Balance, Readability 0.1mg as per OIML R-111	200 g	0.17 mg

SCOPE OF ACCREDITATION

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

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2112 **Page No** 6 of 17

Validity 12/04/2024 to 11/04/2026 **Last Amended on** 29/06/2024

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)(±)
29	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	0.18 mg
30	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	0.08 mg
31	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	0.08 mg
32	MECHANICAL-WEIGHTS	Weight F2 Class & Coarser	Using E2 Class Standard Weight, Precision Digital Balance, Readability 0.001mg as per OIML R-111	1 g	0.08 mg

SCOPE OF ACCREDITATION

Laboratory Name :	TECHNICAL RESOURCES, OFFICE NO 2, M D TONES PARADISE, NAVAGAON, DAHISAR WEST, MUMBAI SUBURBAN, MUMBAI, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2112	**Page No**	7 of 17
Validity	12/04/2024 to 11/04/2026	**Last Amended on**	29/06/2024

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)(±)
33	MECHANICAL-WEIGHTS	Weight F2 Class & Coarser	Using E2 Class Standard Weight, Precision Digital Balance, Readability 0.001mg as per OIML R-111	2 g	0.08 mg
34	MECHANICAL-WEIGHTS	Weight F2 Class & Coarser	Using E2 Class Standard Weight, Precision Digital Balance, Readability 0.001mg as per OIML R-111	5 g	0.08 mg
35	MECHANICAL-WEIGHTS	Weight F2 Class & Coarser	Using E2 Class Standard Weight, Precision Digital Balance, Readability 0.001mg as per OIML R-111	500 mg	0.08 mg
36	MECHANICAL-WEIGHTS	Weight M1 Class	Using E2 Class Standard Weight, Precision Digital Balance, Readability 0.001mg as per OIML R-111	1 mg	0.03 mg
37	MECHANICAL-WEIGHTS	Weight M1 Class	Using E2 Class Standard Weight, Precision Digital Balance, Readability 0.001mg as per OIML R-111	10 mg	0.08 mg

SCOPE OF ACCREDITATION

Laboratory Name :	TECHNICAL RESOURCES, OFFICE NO 2, M D TONES PARADISE, NAVAGAON, DAHISAR WEST, MUMBAI SUBURBAN, MUMBAI, MAHARASHTRA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	CC-2112
Page No	8 of 17
Validity	12/04/2024 to 11/04/2026
Last Amended on	29/06/2024

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)(±)
38	MECHANICAL-WEIGHTS	Weight M1 Class	Using E2 Class Standard Weight, Precision Digital Balance, Readability 0.001mg as per OIML R-111	2 mg	0.03 mg
39	MECHANICAL-WEIGHTS	Weight M1 Class	Using E2 Class Standard Weight, Precision Digital Balance, Readability 0.001mg as per OIML R-111	20 mg	0.08 mg
40	MECHANICAL-WEIGHTS	Weight M1 Class	Using E2 Class Standard Weight, Precision Digital Balance, Readability 0.001mg as per OIML R-111	5 mg	0.08 mg
41	MECHANICAL-WEIGHTS	Weight M1 Class	Using E2 Class Standard Weight, Precision Digital Balance, Readability 0.001mg as per OIML R-111	50 mg	0.08 mg
42	MECHANICAL-WEIGHTS	Weight M1 Class & Coarser	Using E2 Class Standard Weight, Precision Digital Balance, Readability 0.001mg as per OIML R-111	100 mg	0.08 mg

SCOPE OF ACCREDITATION

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

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2112 **Page No** 9 of 17

Validity 12/04/2024 to 11/04/2026 **Last Amended on** 29/06/2024

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)(±)
43	MECHANICAL-WEIGHTS	Weight M1 Class & Coarser	Using E2 Class Standard Weight, Precision Digital Balance, Readability 0.001mg as per OIML R-111	200 mg	0.08 mg
44	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicators with Sensors of Hygrometer, Environmental Chamber @ 25 °C	Using Humidity & Temp Indicator, with Sensor, by Comparison Method	30 %rh to 95 %rh	2.5 %rh
45	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicators with Sensors of Humidity & Environmental Chamber, (Single Position) @ 25 °C	Using Humidity & Temp. Indicator with Sensor by Comparison Method	30 %rh to 95 %rh	2.5 %rh
46	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicators with Sensors of Humidity & Environmental Chambers @50%Rh	Using Humidity Indicator with Sensor & RTD Sensor, by Comparison Method	20 °C to 50 °C	0.6 °C
47	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicators with Sensors of Hygrometer, Humidity meter with sensor (External or Internal) @ 25 °C	Using Humidity & Temp Indicator, with Sensor, Humidity & Temp Chamber by comparison method	30 %rh to 95 %rh	2.5 %rh

SCOPE OF ACCREDITATION

Laboratory Name :	TECHNICAL RESOURCES, OFFICE NO 2, M D TONES PARADISE, NAVAGAON, DAHISAR WEST, MUMBAI SUBURBAN, MUMBAI, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2112	**Page No**	10 of 17
Validity	12/04/2024 to 11/04/2026	**Last Amended on**	29/06/2024

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)(±)
48	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicators with Sensors of, Hygrometer, Humidity meter with Sensor (External or Internal) Data Logger @ 50 %rh	Using Humidity Indicator with Sensor & RTD Sensor, Humidity Chamber by Comparison Method	20 °C to 50 °C	0.6 °C
49	THERMAL-SPECIFIC HEAT & HUMIDITY	Relative Humidity Sensors with Indicator, Hygrometer /Humidity Data Logger @25°C	using Humidity & Temp. Indicator with Sensor, RTD Sensor, Humidity Chamber by comparison Method	30 %rh to 95 %rh	2.5 %rh
50	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using RTD Sensor with MF Process Calibrator with Low Temperature Chiller Bath by Comparison Method	(-) 20 °C to 25 °C	0.75 °C
51	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using RTD Sensor with MF Process Calibrator with Liquid Bath by Comparison Method	25 °C to 200 °C	0.75 °C
52	THERMAL-TEMPERATURE	RTD sensor, Thermocouple with Indicator	Using RTD Sensor with MF calibrator Dry Bath by Comparison Method	200 °C to 400 °C	2.39 °C

SCOPE OF ACCREDITATION

Laboratory Name :	TECHNICAL RESOURCES, OFFICE NO 2, M D TONES PARADISE, NAVAGAON, DAHISAR WEST, MUMBAI SUBURBAN, MUMBAI, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2112	**Page No**	11 of 17
Validity	12/04/2024 to 11/04/2026	**Last Amended on**	29/06/2024

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)(±)
53	THERMAL-TEMPERATURE	RTD Sensor/Thermocouple with Indicator	Using RTD Sensor with MF Calibrator with Low Temp. liquid Bath, by Comparison Method	(-) 20 °C to 25 °C	0.53 °C
54	THERMAL-TEMPERATURE	RTD Sensor/Thermocouple with Indicator	Using RTD Sensor with MF Calibrator, Dry Bath by Comparison Method	25 °C to 200 °C	0.53 °C
55	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	2.31 °C
56	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Refrigerator, Freezers, Chiller Bath, Liquid Bath, Heating Mantles, autoclaves (Industrial) , Oven, Incubator (Industrial) Environmental Chamber,	Using RTD Sensor, with Temp. Indicator, MF Process Calibrator by Comparison Method	(-) 20 °C to 200 °C	0.93 °C
57	THERMAL-TEMPERATURE	Temperature Indicators with Sensors of Heating Mantles, Ovens, Furnaces,	Using R type TC along with MF Calibrator by Comparison Method	400 °C to 1000 °C	3.81 °C

SCOPE OF ACCREDITATION

Laboratory Name :	TECHNICAL RESOURCES, OFFICE NO 2, M D TONES PARADISE, NAVAGAON, DAHISAR WEST, MUMBAI SUBURBAN, MUMBAI, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2112	**Page No**	12 of 17
Validity	12/04/2024 to 11/04/2026	**Last Amended on**	29/06/2024

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)(±)
58	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

SCOPE OF ACCREDITATION

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

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2112 **Page No** 13 of 17

Validity 12/04/2024 to 11/04/2026 **Last Amended on** 29/06/2024

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)(±)
Site Facility					
1	MECHANICAL-ACCELERATION AND SPEED	RPM Meter, Centrifuges, Shakers, Orbital Shakers, Mixers	Using Non Contact Tachometer, by Comparison Method	1000 rpm to 5000 rpm	5.46 rpm
2	MECHANICAL-ACCELERATION AND SPEED	RPM Meter, Centrifuges, Shakers, Orbital Shakers, Mixers	Tachometer Non Contact, by Comparison Method	10000 rpm to 20000 rpm	12.43 rpm
3	MECHANICAL-ACCELERATION AND SPEED	RPM Meter, Centrifuges, Shakers, Orbital Shakers, Mixers	Tachometer Non Contact, by Comparison Method	20000 rpm to 60000 rpm	36.4 rpm
4	MECHANICAL-ACCELERATION AND SPEED	RPM Meter, Centrifuges, Shakers, Orbital Shakers, Mixers	Using Non Contact Tachometer, by Comparison Method	500 rpm to 1000 rpm	4.69 rpm
5	MECHANICAL-ACCELERATION AND SPEED	RPM Meter, Centrifuges, Shakers, Orbital Shakers, Mixers	Using Non Contact Tachometer, by Comparison Method	5000 rpm to 10000 rpm	7.40 rpm
6	MECHANICAL-ACCELERATION AND SPEED	RPM Meter, Centrifuges, Shakers, Orbital Shakers, Mixers	Using Non Contact Tachometer, by Comparison Method	60 rpm to 500 rpm	2.4 rpm
7	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact)	Using Digital Non Contact Tachometer, RPM Source by Comparison	1000 rpm to 5000 rpm	5.3 rpm

SCOPE OF ACCREDITATION

Laboratory Name :	TECHNICAL RESOURCES, OFFICE NO 2, M D TONES PARADISE, NAVAGAON, DAHISAR WEST, MUMBAI SUBURBAN, MUMBAI, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2112	**Page No**	14 of 17
Validity	12/04/2024 to 11/04/2026	**Last Amended on**	29/06/2024

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)(±)
8	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact)	Using Digital Non Contact Tachometer, RPM Source by Comparison	10000 rpm to 20000 rpm	12.43 rpm
9	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact)	Using Digital Non Contact Tachometer, RPM Source by Comparison Method	20000 rpm to 60000 rpm	36.4 rpm
10	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact)	Using Digital Non Contact Tachometer, RPM Source by Comparison	500 rpm to 1000 rpm	5.3 rpm
11	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact)	Using Digital Non Contact Tachometer, RPM Source by Comparison	5000 rpm to 10000 rpm	7.44 rpm
12	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact)	Using Digital Non Contact Tachometer, RPM Source by Comparison	60 rpm to 500 rpm	4.6 rpm
13	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	(-) 1000 Pa to 0 Pa	5 Pa
14	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 1000 Pa	5 Pa

SCOPE OF ACCREDITATION

Laboratory Name :	TECHNICAL RESOURCES, OFFICE NO 2, M D TONES PARADISE, NAVAGAON, DAHISAR WEST, MUMBAI SUBURBAN, MUMBAI, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2112	**Page No**	15 of 17
Validity	12/04/2024 to 11/04/2026	**Last Amended on**	29/06/2024

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)(±)
15	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 35 bar	0.25 bar
16	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance of Class II & Coarser with Readability 0.1mg	Using Weights of Class E2 as per OIML R-76-1	1 mg to 200 g	0.81 mg
17	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance of Class III & 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	1.2 g
18	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicators with Sensors of Humidity & Environmental Chamber, (Single Position) @ 25 °C	Using Humidity & Temp. Indicator with Sensor by Comparison Method	30 %rh to 95 %rh	2.5 %rh
19	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicators with Sensors of Hygrometer, Humidity meter with sensor (External or Internal) @ 25 °C	Using Humidity & Temp Indicator, with Sensor, Humidity & Temp Chamber by comparison method	30 %rh to 95 %rh	2.5 %rh

SCOPE OF ACCREDITATION

Laboratory Name :	TECHNICAL RESOURCES, OFFICE NO 2, M D TONES PARADISE, NAVAGAON, DAHISAR WEST, MUMBAI SUBURBAN, MUMBAI, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2112	**Page No**	16 of 17
Validity	12/04/2024 to 11/04/2026	**Last Amended on**	29/06/2024

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)(±)
20	THERMAL-TEMPERATURE	Freezers, Refrigerators, Incubator(Industrial) Oven, Liquid Baths Environmental Chambers, Autoclaves,	Using Data Logger with RTD Sensors upto 9 nos Multiposition by Comparison Method	(-) 20 °C to 400 °C	3.01 °C
21	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Deep Freezers, Refrigerators, Freezers	Using RTD Sensor with Digital Indicator, RTD with MF Process Calibrator by Comparison Method	(-) 80 °C to 25 °C	0.66 °C
22	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	2.31 °C
23	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Refrigerator, Freezers, Chiller Bath, Liquid Bath, Heating Mantles, autoclaves (Industrial) , Oven, Incubator (Industrial) Environmental Chamber,	Using RTD Sensor, with Temp. Indicator, MF Process Calibrator by Comparison Method	(-) 20 °C to 200 °C	0.93 °C

SCOPE OF ACCREDITATION

Laboratory Name :	TECHNICAL RESOURCES, OFFICE NO 2, M D TONES PARADISE, NAVAGAON, DAHISAR WEST, MUMBAI SUBURBAN, MUMBAI, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2112	**Page No**	17 of 17
Validity	12/04/2024 to 11/04/2026	**Last Amended on**	29/06/2024

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)(±)
24	THERMAL-TEMPERATURE	Temperature Indicators with Sensors of 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.**