FEDERATION FOR DEVELOPMENT OF ACCREDITATION SERVICES

118-119, First Floor, Sushant Tower, Sector – 56, Gurugram – 122011, Haryana, India.

CERTIFICATE OF ACCREDITATION

(AS PER ISO/IEC 17025:2017)

This is to attest that

M/s MAYURESH ASSOCIATES LLP.

3077A, Bhandup Industrial Estate, Pannalal Compound
LBS Marg, Bhandup West Mumbai – 400078 (Maharashtra), India

Calibration Laboratory

has demonstrated compliance with ISO/IEC Standard 17025:2017, General requirements for the competence of testing and calibration laboratories and supplementary criteria for Calibration laboratories.

Certificate Number: CL-125

Issue Date: 21.05.2024 **Valid Until:** 20.05.2026

The certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard and the relevant requirements of FDAS. (for scope of accreditation visit website www. fdasindia.org).

DEVI SARAN TEWARI
Director

FEDERATION FOR DEVELOPMENT OF ACCREDITATION SERVICES

118-119, First Floor, Sushant Tower, Sector – 56, Gurugram – 122011, Haryana, India.

SCOPE OF ACCREDITATION

(Annexure to Certificate of CL - 125)

Laboratory Name: M/s Mayuresh Associates LLP
3077A, Bhandup Industrial Estate, Pannalal Compound, LBS Marg
Bhandup West Mumbai -400078 (Maharashtra), India

Validity: 21.05.2024 to 20.05.2026 **Amended on** N/A

S.No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *

Mechanical Calibration (Laboratory based)

Group : Pressure & Vacuum				
1	Vacuum Gauge/Vacuum Transmitter	Using Digital Vacuum Gauge, DMM with Comparator by Comparison Method as per DKD-R-6-1:2003	0 to -0.98 bar	0.0009 bar
2	Pressure Gauge/Pressure Transmitter (Pneumatic)	Using Digital Pressure Gauge, DMM with Comparator by Comparison Method as per DKD-R-6-1:2003	0 to 10 bar	0.0043 bar
3			0 to 20 bar	0.0067 bar
4	Pressure Gauge/Pressure Transmitter (Hydraulic)	Using hydraulic Dead Weight Tester, DMM by Comparison Method as per DKD-R-6-1:2003	0 to 102 kg/cm^2	0.17 % rdg
5	Pressure Gauge/Pressure Transmitter (Hydraulic)	Using Digital Pressure Gauge, DMM with Comparator by Comparison Method as per DKD-R-6-1:2003	0 to 700 bar	1.0 bar
Group : Mass				
1	Mass/Weights of E2 class and coarser	Using E1 class weight and Weighing Balance of Readability 0.001mg by Substitution Method as per OIML- R 111-1:2004. ABBA Weighing Cycle	1 mg	0.002 mg
			2 mg	0.002 mg
			5 mg	0.002 mg
			10 mg	0.0026 mg
			20 mg	0.0033 mg
			50 mg	0.004 mg
			100 mg	0.0053 mg
			200 mg	0.0066 mg
			500 mg	0.0083 mg
			1 g	0.01 mg
			2 g	0.013 mg
2	Mass/Weights of E2 class and coarser	Using E1 class weight and Weighing Balance of Readability	5 g	0.016 mg
			10 g	0.02 mg

Dealing Officer

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S.No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
		Mechanical Calibration (Laboratory based)		
		0.01mg by Substitution Method as per OIML- R 111-1:2004. ABBA Weighing Cycle	20 g	0.026 mg
			50 g	0.033 mg
			100 g	0.053 mg
3	Mass/Weights of E2 class and coarser	Using E1 class weight and Weighing Balance of Readability 0.1mg by Substitution Method as per OIML- R 111-1:2004. ABBA Weighing Cycle	200 g	0.1 mg
4	Mass/Weights of F2 class and coarser	Using E1 class weight and Weighing Balance of Readability 1mg by Substitution Method as per OIML- R 111-1:2004. ABBA Weighing Cycle	500 g	2.5 mg
			1 kg	5 mg
5	Mass/Weights of F2 class and coarser	Using E2 class weight and Weighing Balance of Readability 10 mg by Substitution Method as per OIML- R 111-1:2004. ABBA Weighing Cycle	2 kg	10 mg
			5 kg	25 mg
6	Mass/Weights of M1 class and coarser	Using F1/F2 class weight and Weighing Balance of Readability 10 mg by Substitution Method as per OIML- R 111-1:2004. ABBA Weighing Cycle	10 kg	50 mg
			20 kg	239 mg
Group: Balance				
1	Weighing Balance Class 1 and coarser, Readability1µg	Using E1 class weights, as per OIML R -76:2006	0 to 21 g	0.026 mg

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		Mechanical Calibration (Laboratory based)		
2	Weighing Balance Class 1 and coarser, Readability10 µg	Using E1 class weights, as per OIML R -76:2006	0 to 250 g	0.05 mg
3	Weighing Balance Class 1 and coarser, Readability 1 mg	Using E1 class weights, as per OIML R -76:2006	0 to 1 kg	1.1 mg
4	Weighing Balance Class 1 and coarser, Readability10 mg	Using E1 class weights, as per OIML R -76:2006	0 to 5 kg	0.028 g
5	Weighing Balance Class 2 and coarser, Readability 0.1 g	Using F1 class weights, as per OIML R -76:2006	0 to 10 kg	0.114 g
6	Weighing Balance Class 2 and coarser, Readability 1 g	Using F1 / F2 class weights, as per OIML R -76:2006	0 to 30 kg	0.867 g
Group: Volume				
1	Micropipette/ Syringe	Using Balance of readability 1µg, Distilled water by Gravimetric Method As Per ISO:8655-6:2022	1 to 20µl	0.05µl
2	Micropipette/ Syringe	Using Balance of readability 10µg, Distilled water by Gravimetric Method As Per ISO:8655-6:2022	20 to 1000 µl	0.2µl
			1 to l0 ml	7 µl
3	Volumetric Glassware (Beaker, Pipette, Flask, Burette, Bottle, Pycnometer)	Using Balance of readability 100µg, Distilled Water By Gravimetric Method as Per ASTM 542:2022	1 to 10 ml	0.005 ml
			10 to 100 ml	0.01 ml

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S.No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
		Mechanical Calibration (Laboratory based)		
4	Volumetric Glassware (Beaker, Pipette, Flask, Burette, Bottle, Pycnometer	Using Balance of readability 1mg, Distilled Water By Gravimetric Method as Per ASTM 542:2022	100 to 500 ml	0.06 ml
5	Volumetric Glassware (Beaker, Pipette, Flask, Burette, Bottle, Pycnometer	Using Balance of readability 1mg, Distilled Water By Gravimetric Method as Per ASTM 542:2022	500 to 2000 ml	0.4 ml
Group: Density				
1	Hydrometer	Using Ref hydrometer by Comparison Method As per ASTM 126:2019	0.6 to 1.1 g/ml	0.0009 g/ml
			1.1 to 2.0 g/ml	0.004 g/ml
Group:-Acoustic				
1	Sound Level Meter	Sound Level Meter Calibrator	94 to 114 dB@ 1kHz	0.3 dB

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S.No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
		Mechanical Calibration (At Site)		
Group : Pressure & Vacuum				
1	Vacuum Gauge/ Vacuum Transmitter	Using Digital Vacuum Gauge with Comparator by Comparison Method as per DKD-R-6-1:2003	0 to -0.8 bar	0.0009 bar
2	Pressure Gauge/ Pressure Transmitter (Pneumatic)	Using Digital Pressure Gauge with Comparator by Comparison Method as per DKD-R-6-1:2003	0 to 10 bar	0.0043 bar
			0 to 20 bar	0.0067 bar
Group : Balance				
1	Weighing Balance Class 1 and coarser, Readability1µg	Using E1 class weights, as per OIML R -76:2006	0 to 21 g	0.026 mg
2	Weighing Balance Class 1 and coarser, Readability10 µg	Using E1 class weights, as per OIML R -76:2006	0 to 250 g	0.05 mg
3	Weighing Balance Class 1 and coarser, Readability 1 mg	Using E1 class weights, as per OIML R -76:2006	0 to 1 kg	1.1 mg
4	Weighing Balance Class 1 and coarser, Readability10 mg	Using E1 class weights, as per OIML R -76:2006	0 to 5 kg	0.028 g
5	Weighing Balance Class 2 and coarser, Readability 0.1 g	Using F1 class weights, as per OIML R -76:2006	0 to 10 kg	0.114 g
6	Weighing Balance Class 2 and coarser, Readability 1 g	Using F1 / F2 class weights, as per OIML R -76:2006	0 to 30 kg	0.867 g

Jitendra Parmar
Dealing Officer

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S.No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
		Mechanical Calibration (At Site)		
7	Weighing Balance Class 2 and coarser, Readability 2 g	Using M1 class weights, as per OIML R -76:2006	0 to 50 kg	4.44 g
8	Weighing Balance Class 2 and coarser, Readability 10 g	Using M1 class weights, as per OIML R -76:2006	0 to 100 kg	8.57 g
9	Weighing Balance Class 2 and coarser, Readability 100 g	Using M1 class weights, as per OIML R -76:2006	0 to 450 kg	81.81 g

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Thermal Calibration (Laboratory Based)

S.No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
Group: Temperature				
1	PRT, RTD, Thermocouple sensor with / without indicator, Digital Thermometer	PRT with indicator, Liquid baths, DMM by comparison method	-80 to -40 °C	1.0 °C
			-40 to 200 °C	0.1 °C
		PRT with indicator, Dry baths, DMM by comparison method	200 to 450 °C	0.5 °C
2	Thermocouple sensor with / without indicator, Digital Thermometer	Thermocouple with Indicator, DMM by comparison method	450 to 600 °C	0.5 °C
			600 to 1150 °C	1.43 °C
3	Glass Thermometer	PRT with indicator, Liquid baths, DMM by comparison method	-80 to -40°C	1.0°C
			-40 to 200 °C	0.2 °C
			200 to 450 °C	0.5 °C
4	IR Thermometer / Pyrometer	Using IR source and IR Thermometer by comparison method	0 to 50 °C	2.5 °C
			50 to 100 °C	1.8 °C
			100 to 500°C	2 °C
Group: Humidity				
5	Digital / Analog Hygrometer / Humidity sensor with or without Indicator / Humidity Transmitter	Humidity and Temp Indicator with sensor by comparison method	20 to 95 %RH @ 25 °C	0.7 %RH
			10 to 50 °C @ 50 %RH	0.3 °C

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S.No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
Thermal Calibration (At Site)				
Group: Temperature				
1	Temperature Indicator with sensor of chamber	Data logger with RTD sensor or T/c sensor	-80 to 300 °C	1 °C
			300 to 1200 °C	3 °C
2	Chamber (Incubator, Deep Freezer, Refrigerator, Cooling cabinet, Water bath Oven, Furnace)	Data logger with RTD / K type sensors sensors (minimum 9 probes)	-80 to 300 °C	2 °C
			300 to 1200 °C	6.5 °C
Group: Humidity				
1	Humidity Indicator with sensor of chamber	Humidity Indicator with sensor	20 to 95 %RH @ 25 °C	0.9 %RH

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