



National Accreditation Board for
Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

**PAWAN BIOSCIENTIFIC ENGINEERING SERVICES
PVT. LTD.**

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

**"General Requirements for the Competence of Testing &
Calibration Laboratories"**

for its facilities at
Anamnagar-29, Kathmandu, Nepal

in the field of
CALIBRATION

Certificate Number

CC-1020

Issue Date

28/02/2023

Valid Until

27/02/2025

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Identity : Pawan Bioscientific Engineering Services Pvt. Ltd.

Signed for and on behalf of NABL



89076970200020000754

N. Venkateswaran
Chief Executive Officer



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name Pawan Bioscientific Engineering Services Pvt. Ltd., Anamnagar-29, Kathmandu, Nepal

Accreditation Standard ISO/IEC 17025: 2017

Certificate No. CC-1020

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Validity 28.02.2023 to 27.02.2025

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) (\pm)
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Permanent Facility

1.	MECHANICAL/ PRESSURE INDICATING DEVICES	Hydraulic Pressure: Dial/Digital Pressure Gauge	Using Digital Pressure Gauge & hydraulic Pressure Comparator Based on DKD-R 6-1	0 to 250 bar	0.04 bar
2.	MECHANICAL/ WEIGHING SCALE AND BALANCE	Weighing Scale & Balance Class I & Coarser Readability: 0.1 mg	Using Standard Weights of E2 class Based on OIML R 76-1	10 mg to 200 g	0.65 mg
3.	MECHANICAL/ VOLUME	Glassware: glass Pipette Burette, Measuring Cylinder, Volumetric Flask, Beaker	Using Analytical Balance of Readability 0.1 mg by gravimetric method based on ISO 4787	1 ml to 25 ml	0.07 ml
4.	MECHANICAL/ VOLUME	Glassware: Glass Pipette Burette, Measuring Cylinder, Volumetric Flask, Beaker	Using analytical balance of readability 0.1 mg by gravimetric method based on ISO 4787	25 ml to 100 ml	0.08 ml
5.	MECHANICAL/ VOLUME	Micropipette	Using analytical balance of readability 0.1 mg by gravimetric method based on ISO 8655- 6	100 μ l to 1 ml	7.5 μ l
6.	THERMAL/ TEMPERATURE	Temperature indicator of Dry Block Furnace / Muffle Furnace	Using R Type Thermocouple with Indicator by Comparison method	100 $^{\circ}$ C to 350 $^{\circ}$ C	2.76 $^{\circ}$ C



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7.	THERMAL/ TEMPERATURE	Temperature indicator with Sensor, Indicator of bath, Oven, Autoclave and BOD incubator (only industrial purpose), Environmental Chamber, Refrigerator and Deep Freezer	Using 4 wire RTD (PT 100) with High Precision Thermometer by Comparison method	50 °C to 350 °C	0.76 °C



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Site Facility

1.	MECHANICAL/ PRESSURE INDICATING DEVICES	Hydraulic: Dial/ Digital Pressure Gauge	Using Digital Pressure Gauge & Hydraulic Pressure Comparator Based on DKD-R 6-1	0 to 250 bar	0.04 bar
2.	MECHANICAL/ WEIGHING SCALE AND BALANCE	Weighing Scale & Balance Class I & coarser Readability: 0.1 mg	Using standard weights of E@ class Based on OIML R 76-1	10 mg to 200 g	0.65 mg
3.	THERMAL/ TEMPERATURE	Temperature Indicator of Dry Block Furnace / Muffle Furnace/ High Temperature Heating Devices	Using R Type Thermocouple with Indicator, by Comparison method	100 °C to 1000 °C	2.90 °C
4.	THERMAL/ TEMPERATURE	Temperature Indicator with Sensor, Indicator of bath, Oven, Autoclave and BOD Incubator (only industrial purpose), Environmental Chamber, Refrigerator and Deep Freezer, Cold room Chamber, RTD with indicator, K type TC with indicator	Using 4 wire RTD (PT100) with High Precision Thermometer, by Comparison method	-65 °C to 350 °C	0.76 °C

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