



**ACCREDITATION  
DOCUMENT**

**F-06/02**  
**Issue Date: 18/08/2020**  
**Rev. No: 09**  
**LAB 253**

**Accreditation No: LAB 253**

**Awarded to**

**Dawn Calibration Lab (DCL)**  
**75-M, Model Town Extension, Lahore, Pakistan.**

The scope of accreditation is in accordance with the standard specifications outlined in the following page(s) of this document. The accredited scope shall be visible and legible in areas such as customer service, sample-receiving section etc. and shall not mislead its users.

The accreditation was first time granted on **03-02-2022** by Pakistan National Accreditation Council.

The laboratory complies with the requirements of **ISO/IEC 17025:2017**.

The accreditation requires regular surveillance, and is valid until **02-02-2028**.

The decision of accreditation made by Pakistan National Accreditation Council implies that the organization has been found to fulfill the requirements for accreditation within the scope.

The organization however, itself is responsible for the results of performed measurements/tests.

**PAKISTAN NATIONAL ACCREDITATION COUNCIL**

12-05-2025  
Date

SD  
Director General



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**Calibration Laboratory.**

Accreditation Scope of Dawn Calibration Lab (DCL). 75-M, Model Town Extension, Lahore, Pakistan.

Permanent laboratory premises

<b>Field of measurement:</b>			
<b>Measured quantity</b>	<b>Range</b>	<b>*Expanded Uncertainty ( ± )</b>	<b>Technique, Reference Standard, Equipment</b>
<b>Mass M1 and below class (10 mg to 500 mg)  (F2 and below class) (1 g to 5000 g)</b>	10 mg	0.08 mg	<b>Reference Standards:</b> Analytical Balance OIML R111-1 10 mg to 500 mg: F2 Class 1 g to 5kg: F1 Class
	50 mg	0.08 mg	
	100 mg	0.09 mg	
	200 mg	0.08 mg	
	500 mg	0.09 mg	
	1gm	0.00011 g	
	50gm	0.00017 g	
	100gm	0.00026 g	
	200gm	0.00051g	
	1000g	0.00075 g	
5000g	0.00063 g		
<b>Pressure</b>	10.0 psi	0.23 psi	<b>Reference Standards:</b> Digital Pressure Gauge, Pressure Calibrator <b>Method Used:</b> DKD 6-1
	50.0 psi	0.41 psi	
	100.0 psi	0.41 psi	
	150.0 psi	0.73 psi	
<b>Humidity &amp; Temperature</b>	25 °C	0.67 °C	<b>Reference Standards:</b> 1. RH Generator (Burar Germany) 2. Calibrated Hygrometer 3. Humidity Chamber <b>Method Used:</b> California Environmental Protection Agency, SL-SOP 005
	30 °C	0.70 °C	
	40 °C	0.72 °C	
	40%	3.5 %	
	50%	3.5 %	
	60%	3.6 %	
	75%	3.6 %	
	80%	4.0 %	

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<b>Time</b>	60 sec	0.50 sec	<b>Reference Standards:</b> Stop Watch <b>Method Used:</b> NIST SP 960-12
	300 sec	0.50 sec	
	1800 sec	0.60 sec	
	3600 sec	0.60 sec	
<b>pH Measurement</b>	4.01 pH	0.06 pH	<b>Reference Standards:</b> 1. pH Standard Solutions pH 4.1, pH 7.1, pH 10.1 2. pH Meter <b>Method Used:</b> USP<791>
	7.01 pH	0.05 pH	
	10.01 pH	0.05 pH	
<b>Electrical Conductivity Measurement</b>	84 $\mu\text{cm}^{-1}$	0.6 $\mu\text{cm}^{-1}$	<b>Reference Standards:</b> 1. Conductivity meter 2. Conductivity standard solution <b>Method Used:</b> USP <644>
	1413 $\mu\text{cm}^{-1}$	1.6 $\mu\text{cm}^{-1}$	
<b>Refractive Index Measurement</b>	1.3000 – 1.7000	0.1000	<b>Reference Standards:</b> 1.Refractometer 2.Glycerol solution <b>Method Used:</b> USP<831>
<b>Length</b>	1 mm	0.0058 mm	<b>Reference Standards:</b> 1.Vernier Caliper 2.Gauge Block Set <b>Method Used:</b> um LTM SOP 6
	20 mm	0.0058 mm	
	50 mm	0.0058 mm	

\* **Expanded Uncertainty:**

- Expanded Uncertainty is the measurement uncertainty at a coverage probability of 95 %, which usually requires the use of a coverage factor of  $k = 2$ . This measurement uncertainty is a value for which the laboratory has been accredited using the procedure that was the subject of assessment. In certificates issued under its accreditation scope an accredited laboratory is not permitted to quote an uncertainty that is smaller than the published uncertainty for respective ranges as given above.

12-05-2025  
Date

Sd  
Director