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 **02-02-2025.**

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

07-12-2023
Date

SD
Director General

Calibration Laboratory.

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

Permanent laboratory premises X

Field of measurement:			
Measured quantity	**Range**	***Expanded Uncertainty (±)**	**Technique, Reference Standard, Equipment**
Mass	10 mg	0.08 mg	**Reference Standards:** Weight Set: E2 Class Analytical Balance OIML R111-1
	50 mg	0.08 mg	
	100 mg	0.08 mg	
	200 mg	0.09 mg	
	500 mg	0.09 mg	
	1gm	0.0002gm	
	50gm	0.0005gm	
	100gm	0.0005gm	
	200gm	0.0010gm	
	1kg	0.0010 kg	
	5kg	0.0050 kg	
Pressure	10.0 psi	0.18 psi	**Reference Standards:** Digital Pressure Gauge, Pressure Calibrator **Method Used:** DKD 6-1
	50.0 psi	0.30 psi	
	100.0 psi	0.40 psi	
	150 psi	0.50 psi	
Time Interval	60 sec	0.50 sec	**Reference Standards:** Stop Watch **Method Used:** NIST SP 960-12
	300 sec	0.50 sec	
	1800 sec	0.60 sec	
	3600 sec	0.60 sec	
Relative Humidity	40%	3.5 %	**Reference Standards:** 1. RH Generator (Burar Germany) 2. Calibrated Hygrometer 3. Humidity Chamber **Method Used:** California Environmental Protection Agency, SL-SOP 005
	50%	3.5 %	
	60%	3.6 %	
	75%	3.6 %	
	80%	4.0 %	

07-12-2023
Date

Sd
Director

pH Measurement	4.01 pH	0.05 pH	**Reference Standards:** 1. pH Standard Solutions pH 4.1, pH 7.1, pH 10.1 2. pH Meter **Method Used:** USP<791>
	7.01 pH	0.10 pH	
	10.01 pH	0.15 pH	
Electrical Conductivity Measurement	84 μcm^{-1}	0.6 μcm^{-1}	**Reference Standards:** USP <644> **Method Used:** 1. Conductivity meter 2. Conductivity standard solution
	1413 μcm^{-1}	1.6 μcm^{-1}	
Refractive Index Measurement	1.3000 – 1.7000	0.1000	**Reference Standards:** USP<831> **Method Used:** 1. Refractometer 2. Glycerol solution

* **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.

07-12-2023 Sd

Date Director