Accreditation No: LAB 010

Awarded to

DIMENSINAL METROLOGY LAB, (DML)
Pakistan Ordinance factories,
Wah Cantt, 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 **11-01-2019** by Pakistan National Accreditation Council.

The laboratory complies with the requirements of **ISO/IEC 17025:2005.**

The accreditation requires regular surveillance, and is valid until **10-01-2022.**

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

18-08-2020 _____Sd_____

18-08-2020 _____Sd_____
Date Director

Date Director General

Calibration Laboratory.

Dimensional Metrology Lab (DML)

Permanent laboratory premises X

Field of measurement: Linear Measurement & Calibration				
Calibration Area		**Range**	***Expanded Uncertainty (±)**	**Technique, Reference Standard, Equipment**
1	Gauge Block	0.5 mm to 10 mm	0.95 µm	Ultra Precision comparator, ASME-B89.1.9 (2002), ALAN BROWN Grade-00
		10.5 mm to 25 mm	0.70 µm	
		30 mm to 75 mm	0.80 µm	
		80 to 100 m	1.30 µm	
		0.05 inch to 2 inch	12 µinch	Ultra Precision comparator, ASME-B89.1.9 (2002), MATRIX-England Grade-00
		3 inch to 4 inch	11 µinch	
2	External Micrometer	0.50 mm – 25 mm	1.3 µm	Comparison to gauge blocks, ASME-B89.1.13 (2013), (Mitutoyo) Japan Grade-0
		0.05 inch – 1 inch	20 µinch	Comparison to gauge blocks, ASME-B89.1.13 (2013), Moore & WRIGHT (SHEFFIELD). Ltd England Grade-0
3	Surface Plate	300 mm x 250 mm	2.8 µm	Comparison to gauge blocks,

18-08-2020 _____Sd_____
Date Director

	Calibration Area	**Range**	***Expanded Uncertainty (±)**	**Technique, Reference Standard, Equipment**
4	Dial Indicator Tester	0.5 to 50 mm	1.8 µm	Comparison to gauge blocks, ASME-B89.1.10M (2001), Mahr Germany Grade-0
		600 mm x 400 mm		ASME-B89.3.7 (2013), Mahr Germany Grade-0

* **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.

18-08-2020
Date

_____Sd_____
Director

18-08-2020
Date

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Director

18-08-2020
Date

_____Sd_____
Director