

	ACCREDITATION DOCUMENT	F-06/02 Issue Date: 10/08/15 Rev. No: 07 LAB 010
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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 the first time granted on **11-01-2019** 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 **10-01-2022**.

The decision of accreditation made by the 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

14-07-2020

Date

-Sd-

Director General



ACCREDITATION DOCUMENT

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Calibration Laboratory.

Dimensional Metrology Lab (DML)

Permanent laboratory premises

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 mm to 100 mm	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, ASME-B89.3.7 (2013), Mahr Germany Grade-0
		600 mm x 400 mm		

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	Calibration Area	Range	*Expanded Uncertainty (±)	Technique, Reference Standard, Equipment
4	Dial Indicator Tester	0.5 mm to 50 mm	1.8 μm	Comparison to gauge blocks, ASME-B89.1.10M (2001), 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.

14-07-2020

Date

-Sd-

Director