Accreditation No: LAB 017

Awarded to

Precision Measuring Equipment Laboratory
MRF, PAC Kamra Attock, 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 **28-10-2005** 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 **25-11-2026.**

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

24-05-2024
Date

SD
Director General

Calibration Laboratory.

Accreditation Scope of Precision Measuring Equipment
Laboratory MRF, PAC Kamra Attock, Pakistan.

Permanent laboratory premises X

Field of measurement:			
Measured quantity	**Range**	***Expanded Uncertainty (±)**	**Technique, Reference Standard, Equipment**
Torque	4 in lbs ~ 600 in lbs	±0.76 in lbs ~ ±0.79 in lbs	CP/TW/TM/PMEL/022 Digital Torque Tester Calibrator
	10 ft lbs ~ 600 ft lbs	±0.73 ft lbs ~ ±1.6 ft lbs	
DC Voltage	100 mV ~ 1000 V	±0.0011 mV ~ ±0.0000073 V	CP/DMM/CM/PMEL/024 Multifunction Calibrator
	-100 mV ~ -1000 V	±0.0011 mV ~ ±0.0000073 V	
DC Current	100 µA ~ 10 A	±0.0027 µA ~ ±0.000033 A	
	-100 µA ~ -10 A	±0.0027 µA ~ ±0.000033 A	
AC Voltage	100 mV @ 60 Hz ~ 1000 V @ 60 Hz	±0.022 mV ~ ±0.000098 V	
	100 mV @ 1kHz ~ 1000 V @ 1kHz	±0.023 mV ~ ±0.000097 V	
AC Current	100 µA @ 60 Hz ~ 10 A @ 60 Hz	±0.24 µA ~ ±0.00042 A	
	100 µA @ 1kHz ~ 10 A @ 1kHz	±0.24 µA ~ ±0.00042 A	
Resistance	1.0000000 Ω ~ 100.00000 MΩ	±0.000013 Ω ~ ±0.000077 MΩ	

24-05-2024
Date

Sd.
Director

* **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.

24-05-2024
Date

Sd.
Director