Accreditation No: LAB 008

Awarded to

METROLOGICAL CENTRE, AIRCRAFT REBUILD FACTORY, PAKISTAN AERONAUTICAL COMPLEX, KAMRA

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 **8th November, 2004** 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 **03-03-2023**.

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

19-08-2020
Date

Sd
Director General

Calibration Laboratory.

Accreditation Scope of Metrological Centre, Aircraft Rebuild Factory, Pakistan Aeronautical Complex, Kamra.

Permanent laboratory premises X

Field of measurement:			
Calibration Area	**Range**	***Expanded Uncertainty (±)**	**Technique, Reference Standard, Equipment**
PRESSURE			
Pressure (Pneumatic)	920~ 1020 mBar	± 0.070 mBar	CP-125 Using direct comparison method Dead weight tester Pressure Standard Unit 2465 Ruska
Oxygen Pressure	0.2 to 10 Kgf/cm^2	± 0.060 Kgf/cm^2	CP-105 Using direct comparison method Pressure Gauges calibrator LYL-400
	10.2 to 100 Kgf/cm^2	± 0.620 Kgf/cm^2	
	101 to 250 Kgf/cm^2	± 1.50 Kgf/cm^2	
Pressure (Hydraulic)	0.4 to 5 kgf/cm^2	0.030 kgf/cm^2	CP-039 Dead weight testers Yu-6
	6 to 50 kgf/cm^2	0.060 kgf/cm^2	CP-039 Dead weight testers Yu-60
	60 to 150 kgf/cm^2	0.60 kgf/cm^2	CP-039 Dead weight testers Yu-600
Temperature			
Electrical Simulation for Temperature indicator (EMF based) **Temperature indicator and controller (milli volt meter) digital and analogue**	0 to 1600 °C	±0.12 °C	CP-035 Comparison method using standard temperature calibrator 525B / Fluke 724
Thermocouple	0 to 1080 °C	±0.70 °C	CP-033 Comparison method using std thermocouple Fluke, standard temperature calibrator 525B / Fluke 724 and Tubular furnace 9118A Fluke / Metrological Well 9173 Fluke
Electrical Simulation for Temperature indicator and controller (RTD Pt100)	0 to 650 °C	±0.20 °C	CP-036 Comparison method using standard temperature calibrator 525B / Fluke 724

19-08-2020
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Sd
Director

Mass			
Weights **(1 mg to 200 g)**	1 mg to 500 mg	0.10 mg	CP-117 Indirect Comparison Method by using TG328A Balance and Troemner Ultra class/ Grade II / Grade III Std Weights
	1 g to 50 g	0.20 mg	
	100 g to 200 g	0.30 mg	
Balance **(1 mg to 200 g)**	1 mg ~ 900 mg	0.10 mg	CP-115 Direct Comparison Method by using Troemner Ultra class / Grade II /Grade III Std Weights
	1 g ~ 200 g	0.30 mg	
Table Balance **(0.1 g to 1000 g)**	0.1g ~100g	0.030 g	CP-116 Direct Comparison Method by using Grade II/ Grade III Std Weights
	200g~ 1000 g	0.20 g	

* **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.

19-08-2020
Date

Sd
Director