

	<b>ACCREDITATION DOCUMENT</b>	<b>F-06/02 Issue Date: 18/08/2020 Rev. No: 09 LAB 064</b>
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**Accreditation No: LAB 064**

**Awarded to**

**Laboratory of  
Hammad Engineering Company (Pvt.) Ltd.  
162, Muzammil Town 19 Km Multan Road 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 **05-08-2013** 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 **04-08-2022**.

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**

27-04-2021  
Date

Sd  
Director General

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**Testing Laboratory.**

**Accreditation Scope of  
Laboratory of Hammad Engineering Company (Pvt.) Ltd.  
162, Muzammil Town 19 Km Multan Road Lahore, Pakistan.**

Permanent laboratory premises

Materials/P roducts tested	Testing field (e.g. environmental testing or mechanical testing)	Types of test/ Properties measured	Reference to standardized method (e.g. ISO 14577- 1:2003)/ Internal method reference
<b>Transformers</b>	Electrical	Load Losses (Copper loss) & Impedance	DDS 84: 2007 IEC 60076/ Precision Power Analyzer
	Electrical	No Load Losses (Iron loss) & No-load Current	DDS 84: 2007 IEC 60076/ Precision Power Analyzer
	Electrical	Separate Source Over Voltage Withstand Test	DDS 84: 2007 IEC 60076/ HV Test Bench
	Electrical	Induced Over Voltage Withstand Test	DDS 84: 2007 IEC 60076/ Induced Over Voltage Test Bench
	Electrical	Winding Resistance of Transformer	DDS 84: 2007 IEC 60076/ High Resolution Micro-Ohm Meter
	Electrical	Turn Ratio Test	DDS 84: 2007 IEC 60076/ Megger TTR 25
	Electrical	Heat Run Test	DDS 84: 2007 IEC 60076/ Liquid in glass Thermometer
	Electrical	Phase Polarity Test	DDS 84: 2007 IEC 60076/
	Electrical	Tank Pressure Test	DDS 84: 2007 IEC 60076/
	Electrical	Bird Protection Test	DDS 84: 2007 IEC 60076/

27-04-2021  
Date

Sd.  
Director