

	<b>ACCREDITATION DOCUMENT</b>	<b>F-06/02</b> <b>Issue Date: 18/08/2020</b> <b>Rev. No: 09</b> <b>LAB 087</b>
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**Accreditation No: LAB 087**

**Awarded to**

**Pakistan Elektron Limited Transformer Testing Lab.  
34 Km Ferozepur 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 **14-05-2015** 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 **23-07-2027**.

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**

\_\_\_\_\_  
19-05-2025  
Date

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SD  
Director General

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### Testing Laboratory.

Accreditation Scope of **PAK ELEKTRON LIMITED TRANSFORMER  
TESTING LAB 34-KM FEROPUR ROAD LAHORE, PAKISTAN.**

Permanent laboratory premises ☒

Materials/ Products tested	Testing field (e.g. environmental testing or mechanical testing)	Types of test/ Properties measured	Reference to standardized method (e.g. ISO14577- 1:2003)/ Internal method Reference
Distribution Transformers(10 kVA to 10000kVA up to 33kV)	Electrical Testing Facility	Measurement of Voltage Ratio and Check of Phase Displacement	<b>IEC 60076-1</b> (Clause 11.3) <b>IEEE Std C57.12.90-2021</b> (Clause 7) <b>IEEE Std C57.12.00-2021</b> (Clause 9.1) <b>DDS-84:2020</b> (Clause 3.1.14)
		Measurement of Winding Resistance (HV&LV)	<b>IEC 60076-1</b> (Clause 11.2) <b>IEEE Std C57.12.90-2021</b> (Clause 5) <b>DDS-84:2020</b> (Clause 18.2)
		Measurement of No- Load Losses and Current	<b>IEC 60076-1</b> (Clause 11.5) <b>IEEE Std C57.12.90-2021</b> (Clause 8) <b>IEEE Std C57.12.00-2021</b> (Clause 5.9.9.3) <b>DDS-84:2020</b> (Clause 3.1.38)

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		Measurement of Short Circuit Impedance and Load Losses	<b>IEC 60076-1</b> (Clause 11.4) <b>IEEE Std C57.12.90-2021</b> (Clause 9 & 14.1) <b>IEEE Std C57.12.00-2021</b> (Clause 5.8, 5.9 & 9.3) <b>DDS-84:2020</b> (Clause 3.1.39)
		Induce Over Voltage Withstand Test	<b>IEC 60076-3</b> (Clause 11.2) <b>IEEE Std C57.12.90-2021</b> (Clause 10.7) <b>IEEE Std C57.12.00-2021</b> (Clause 5.10.5.3) <b>DDS-84:2020</b> (Clause 18.2)
		High Voltage (Separate Voltage Withstand Test)	<b>IEC 60076-3</b> (Clause 10) <b>IEEE Std C57.12.90-2021</b> (Clause 10.6) <b>IEEE Std C57.12.00-2021</b> (Clause 5.10.5.2) <b>DDS-84:2020</b> (Clause 18.2)
		Bird Protection Test	<b>DDS-84:2020</b> (Clause 15.2.3) <b>K.E-specification</b> KDTP-S446-21-00 8kV BP
		Impulse Voltage Withstand Test	<b>IEC 60076-3</b> (Clause 13.2) <b>IEEE Std C57.12.90-2021</b> (Clause 10.3) <b>IEEE Std C57.12.00-2021</b> (Clause 5.10.7.1) <b>DDS-84:2020</b> (Clause 18.6.3) <b>IEC 60076-4</b> (Clause 7.4)
		Temperature Rise Test	<b>IEC 60076-2</b> (Clause 7.3 - 7.11) <b>IEEE Std C57.12.90-2021</b> (Clause 11) <b>IEEE Std C57.12.00-2021</b> (Clause 5.11) <b>DDS-84:2020</b> (Clause 18.6.2)

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	Mechanical Testing	Tank Pressure Test	<b>IEC 60076-1</b> (Clause 11.8) <b>IEEE Std C57.12.00-2021</b> (Clause 6.5) <b>DDS-84:2020</b> (Clause 15.2.1)
		Measurement of Di- Electric Strength of Transformer Oil	<b>IEC 60422</b> <b>IEC 60296</b> (Clause 6.4) <b>IEEE Std C57.106-2015</b> (Clause 5.2.1) <b>DDS-84:2020</b> (Clause 18.6.1) <b>IEC 60156</b>
Switchgear	Electrical Testing Facility	Temperature Rise Test  Measurement of Impulse Voltage Withstand Test	<b>IEC 62271-1,</b> (Clause 7.5)  <b>IEC 62271-1,</b> (Clause 7.2)

19-05-2025

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Sd

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