



ACCREDITATION DOCUMENT

F-06/02
Issue Date: 18/08/2020
Rev. No: 09
LAB 096

Accreditation No: LAB 096

Awarded to

**Transformer Testing Laboratory, Elmetec (Pvt.) Ltd.
19-Km, Main Ferozpur 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 **06-10-2015** 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 **20-05-2027**.

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

19-08-2024

Date

SD

Director General



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Testing Laboratory.

Accreditation Scope of
 Transformer Testing Laboratory, Elmetec (Pvt.) Ltd.
 19-Km, Main Ferozepur 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. ISO 14577-1:2003)/ Internal method reference
10kVA to 630kVA Distribution Transformers	Electrical	1. Measurement of short circuit impedance & load loss (copper loss)	<ul style="list-style-type: none"> • DDS:84-2020 • IEC 60076-1 clause 11.4
		2. Measurement of no-load loss & current (iron loss)	<ul style="list-style-type: none"> • DDS:84-2020 • IEC 60076-1 clause 11.5
		3. Power frequency over voltage withstand test (applied voltage test)	<ul style="list-style-type: none"> • DDS:84-2020 • IEC 60076-3 clause 10
		4. Induced voltage withstand test	<ul style="list-style-type: none"> • DDS:84-2020 • IEC 60076-3 clause 11
		5. Measurement of winding resistance	<ul style="list-style-type: none"> • DDS:84-2020 • IEC 60076-1 clause 11.2
		6. Measurement of voltage ratio (turn ratio) and vector group test	<ul style="list-style-type: none"> • DDS:84-2020 • IEC 60076-1 clause 11.3
		7. Birdage protection test	<ul style="list-style-type: none"> • DDS:84-2020 clause 15.2.3
		8. Temperature rise test	<ul style="list-style-type: none"> • IEC 60076-2 clause 7
	Mechanical	9. Tank pressure test (tightness test)	<ul style="list-style-type: none"> • DDS:84-2020 clause 15.2.1

19-08-2024
Date

Sd
Director