



## 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 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 **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 **20-05-2024**.

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**

28-05-2021

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
<b>Distribution &amp; Power Transformers</b>	<b>Electrical</b>	Measurement of Short Circuit Impedance & Load Loss (Copper Loss)	<ul style="list-style-type: none"> <li>• DDS:84-2007</li> <li>• P-10:67</li> <li>• IEC 60076-1</li> </ul>
		Measurement of No-Load Loss & Current (Iron Loss)	<ul style="list-style-type: none"> <li>• DDS:84-2007</li> <li>• P-10:67</li> <li>• IEC 60076-1</li> </ul>
		Power frequency over voltage withstand test (Applied Voltage Test)	<ul style="list-style-type: none"> <li>• DDS:84-2007</li> <li>• P-10:67</li> <li>• IEC 60076-3</li> </ul>
		Induced voltage withstand test	<ul style="list-style-type: none"> <li>• DDS:84-2007</li> <li>• P-10:67</li> <li>• IEC 60076-3</li> </ul>
		Measurement of winding resistance	<ul style="list-style-type: none"> <li>• DDS:84-2007</li> <li>• P-10:67</li> <li>• IEC 60076-1</li> </ul>
		Measurement of Voltage ratio (Turn ratio) and vector group test	<ul style="list-style-type: none"> <li>• DDS:84-2007</li> <li>• P-10:67</li> <li>• IEC 60076-1</li> </ul>
		Bird protection test	<ul style="list-style-type: none"> <li>• DDS: 84-2007</li> </ul>
		Temperature rise test	<ul style="list-style-type: none"> <li>• P-10:67</li> <li>• IEC 60076-2</li> </ul>
	<b>Mechanical</b>	Tank pressure test (Tightness test)	<ul style="list-style-type: none"> <li>• DDS: 84-2007</li> <li>• IEC 60076-1</li> </ul>

27-05-2021

Date

Sd.

Director