

	<b>ACCREDITATION DOCUMENT</b>	<b>F-06/02 Issue Date: 18/08/2020 Rev. No: 09 LAB 112</b>
---	-----------------------------------	---

## **Accreditation No: LAB 112**

**Awarded to**

**Synergy Elektrik (Pvt.) Ltd. Transformer Testing Laboratory  
16.5 Km Javed Nagar, Mominpura, Sheikhupura 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 **20-09-2016** 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 **19-09-2022**.

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**

22-06-2021  
Date

Sd.  
Director General

	<b>ACCREDITATION DOCUMENT</b>	<b>F-06/02</b> <b>Issue Date: 18/08/2020</b> <b>Rev. No: 09</b> <b>LAB 112</b>
---	-----------------------------------	---

**Testing Laboratory.**

**Accreditation Scope of Synergy Elektrik (Pvt.) Ltd. Transformer Testing Laboratory  
16.5 Km Javed Nagar, Mominpura, Sheikhupura 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
Distribution & Power Transformers	Electrical Testing	NO LOAD LOSS AND CURRENT TEST/ (Iron Loss Test)	<ul style="list-style-type: none"> <li>• DDS-84:2020 (Amended to date)</li> <li>• DDS-71:2004 (PMT)</li> <li>• IEC-60076-1</li> <li>• K/R&amp;D/DT/28</li> </ul>
		SHORT CIRCUIT IMPEDANCE AND LOAD LOSS TEST/ (Copper Loss Test)	<ul style="list-style-type: none"> <li>• DDS-84:2020 (Amended to date)</li> <li>• DDS-71:2004 (PMT)</li> <li>• IEC-60076-1</li> <li>• K/R&amp;D/DT/28</li> </ul>
		INDUCED VOLTAGE WITHSTAND TEST	<ul style="list-style-type: none"> <li>• DDS-84:2020 (Amended to date)</li> <li>• DDS-71:2004 (PMT)</li> <li>• IEC-60076-3</li> <li>• K/R&amp;D/DT/28</li> <li>•</li> </ul>
		APPLIED VOLTAGE WITHSTAND TEST/ (High Voltage Test)	<ul style="list-style-type: none"> <li>• DDS-84:2020 (Amended to date)</li> <li>• DDS-71:2004 (PMT)</li> <li>• IEC-60076-3</li> <li>• K/R&amp;D/DT/28</li> </ul>

23-06-2021  
Date

Sd.  
Director



**ACCREDITATION  
DOCUMENT**

**F-06/02**  
**Issue Date: 18/08/2020**  
**Rev. No: 09**  
**LAB 112**

<b>Materials / Products tested</b>	<b>Testing field (e.g. environmental testing or mechanical testing)</b>	<b>Types of test / Properties measured</b>	<b>Reference to standardized method (Amended to Date)</b>
Distribution & Power Transformers	Electrical Testing	PHASE POLARITY TEST/ VECTOR GROUP TEST	<ul style="list-style-type: none"> <li>• DDS-84:2020 (Amended to date)</li> <li>• DDS-71:2004 (PMT)</li> <li>• IEC-60076-1</li> <li>• K/R&amp;D/DT/28</li> </ul>
		WINDING RESISTANCE MEASUREMENT TEST	<ul style="list-style-type: none"> <li>• DDS-84:2020 (Amended to date)</li> <li>• DDS-71:2004 (PMT)</li> <li>• IEC-60076-1</li> <li>• K/R&amp;D/DT/28</li> </ul>
		BIRD PROTECTION TEST	<ul style="list-style-type: none"> <li>• DDS-84:2020 (Amended to date)</li> <li>• K/R&amp;D/DT/28</li> </ul>
		TRANSFORMER TEMPERATURE RISE TEST	<ul style="list-style-type: none"> <li>• DDS-84:2020 (Amended to date)</li> <li>• DDS-71:2004 (PMT)</li> <li>• IEC-60076-2</li> </ul>
		VOLTAGE RATIO (TURN RATIO) TEST	<ul style="list-style-type: none"> <li>• DDS-84:2020 (Amended to date)</li> <li>• DDS-71:2004 (PMT)</li> <li>• IEC-60076-1</li> <li>• K/R&amp;D/DT/28</li> </ul>
	Mechanical Testing	TANK PRESSURE TEST	<ul style="list-style-type: none"> <li>• DDS-84:2020 (Amended to date)</li> <li>• DDS-71:2004 (PMT)</li> <li>• IEC-60076-1</li> <li>• K/R&amp;D/DT/28</li> </ul>

23-06-2021  
Date

Sd.  
Director