

## ACCREDITATION DOCUMENT

F-06/02

Issue Date: 18/08/2020

Rev. No: 09 LAB 094

**Accreditation No: LAB 094** 

#### Awarded to

# Transformer Testing Laboratory (QA Lab) Transfopower Industries (Pvt.) Ltd. 2 – KM Katar Band Road off Multan Road Thokar Niaz Beg 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 **16-09-2015** 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

_20-08-2021_	Sd
Date	Director General



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### **Testing Laboratory.**

Accreditation Scope of Transformer Testing Laboratory (QA Lab)

Transfopower Industries (Pvt.) Ltd. Lahore, Pakistan

Permanent laboratory premises X

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
	Electrical	Measurement of Winding Resistance	• <b>IEC 60076 – 1</b> (Clause 11.2)
	Electrical	Measurement of Voltage Ratio     (Turn Ratio Test)	• <b>IEC 60076 – 1</b> (Clause 11.3)
<b>1ERS</b>	Electrical	Measurement of Short Circuit Impedance & Load Losses (Copper Losses)	• <b>IEC 60076 – 1</b> (Clause 11.4)
FORN	Electrical	Measurement of No – Load Losses & Current (Iron Losses)	• <b>IEC 60076 – 1</b> (Clause 11.5)
(ANS)	Electrical	Applied Voltage Test     (High Voltage Test)	• <b>IEC 60076 – 3</b> (Clause 10)
ER TR	Electrical	Induce Voltage Withstand Test	• IEC 60076 – 3 (Clause 11.2)
OWE A to 1	Electrical	Check of Phase Displacement (Vector Group)	• IEC 60076 – 1 (Clause 11.3)
N & I 0 <b>kV</b>	Electrical	Check of Core & Frame Insulation (Megger Test)	• IEC 60076 – 1 (Clause 11.12)
RIBUTION & POWER TRANSFORMERS (10 kVA to 10 MVA)	Electrical	Bird Protection Test     (Insulation of Top Plate)	• <b>DDS 84:2020</b> (Clause 18.2 vi)
TRIB	Mechanical	Tightness Test     (Pressure Test)	• IEC 60076 – 1 (Clause 11.8)
DIST	Electrical	Temperature Rise Test	• IEC 60076 – 2 (Clause 7.3 – 7.11)
	Electrical	Lightening Impulse Test     (Full Wave & Chopped Wave)	• IEC 60076 – 3 (Clause 13.2) • IEC 60076 – 4 (Clause 7.4)



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RMER OIL al Oil)	Electrical	Check of Breakdown Voltage     (Dielectric Test)	• IEC 60296 (Clause 6.4) • IEC 60156
	Physical	Check of Pour Point	• IEC 60296 (Clause 6.2) ISO 3016
FRANSFORMER (Mineral Oil)	Physical	Measurement of Density     (Specific Gravity)	• IEC 60296 (Clause 6.16) ISO 3675
TR/	Physical	Measurement of Viscosity    (at 40 C° and -20 C°)	• IEC 60296 (Clause 6.1) ISO 3104

<u>20-08-2021</u> <u>Sd.</u> Date Director