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|  | ACCREDITATION DOCUMENT | F-06/02 Issue Date: 18/08/2020 Rev. No: 09 LAB 112 |
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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 **19-09-2025**.

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

19-12-2022
Date

SD.
Director General

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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"> • DDS-84:2020 (Amended to date) • DDS-71:2004 (PMT) • IEC-60076-1 • K/R&D/DT/28 |
| | | SHORT CIRCUIT IMPEDANCE AND LOAD LOSS TEST/ (Copper Loss Test) | <ul style="list-style-type: none"> • DDS-84:2020 (Amended to date) • DDS-71:2004 (PMT) • IEC-60076-1 • K/R&D/DT/28 |
| | | INDUCED VOLTAGE WITHSTAND TEST | <ul style="list-style-type: none"> • DDS-84:2020 (Amended to date) • DDS-71:2004 (PMT) • IEC-60076-3 • K/R&D/DT/28 • |
| | | APPLIED VOLTAGE WITHSTAND TEST/ (High Voltage Test) | <ul style="list-style-type: none"> • DDS-84:2020 (Amended to date) • DDS-71:2004 (PMT) • IEC-60076-3 • K/R&D/DT/28 |

19-12-2022
Date

Sd.
Director



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

19-12-2022
Date

Sd.
Director