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|  | ACCREDITATION DOCUMENT | F-06/02 Issue Date: 10/08/15 Rev. No: 07 LAB 064 |
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Accreditation No: LAB 064

Awarded to

**Laboratory of
Hammad Engineering Company (Pvt.) Ltd.
162, Muzammil Town 19 Km Multan 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 **05-08-2013** by Pakistan National Accreditation Council.

The laboratory complies with the requirements of **ISO/IEC 17025:2005**.

The accreditation requires regular surveillance, and is valid until **04-08-2022**.

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

03-10-2019

Date

Sd.

Director General

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Testing Laboratory.

Laboratory of Hammad Engineering Company (Pvt.) Ltd.
162, Muzammil Town 19 Km Multan 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 |
|---------------------------|--|--|---|
| Transformer | Electrical Testing | Load Losses (Copper loss) & Impedance | DDS 84: 2007 IEC 60076/ Precision Power Analyser |
| | | No Load Losses (Iron loss) & No load Current | DDS 84: 2007 IEC 60076/ Precision Power Analyser |
| | | Separate Source Over Voltage Withstand Test | DDS 84: 2007 IEC 60076/ HV Test Bench |
| | | Induced Over Voltage Withstand Test | DDS 84: 2007 IEC 60076/ Induced Over Voltage Test Bench |
| | | Winding Resistance of Transformer | DDS 84: 2007 IEC 60076/ High Resolution Micro-Ohm Meter |
| | | Turn Ratio Test | DDS 84: 2007 IEC 60076/ Megger TTR 25 |
| | | Heat Run Test | DDS 84: 2007 IEC 60076/ Liquid in glass Thermometer |

02-10-2019

Date

Sd.

Director