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DISTRIBUTION AND POWER TRANSFORMERS

OUR TEAM



To lead our field in innovation, quality and customer service.

Al-Ahleia Testing Laboratories provide a wide range of test services for various electrical equipment.

We offer a comprehensive and practical approach built around international testing standards.

Combining our multidisciplinary expert staff with state of the art testing facilities gives us a unique advantage to help clients assess, test and demonstrate their products and systems.

LOW VOLTAGE SWITCHGEAR & BUS DUCT

Verification of Temperature Rise Test up to 5000A

Verification of Dielectric Properties

- a. Power Frequency Withstand Voltage up to 4.5kV
- b. Impulse Withstand Voltage up to 20kVp
- c. Insulation Resistance Test up to $5kV/950G\Omega$

Verification of Clearance and Creepage Distances

Verification of Degree of Protection up to IP55

Verification of Strength of Materials and Parts (Lifting) up to 5000kg - Switchgear

Verification of Mechanical Operation - Switchgear

Verification of Structure Strength up to 5000 Kg - L.V Bus Duct

Verfication of Resistance to Crushing up to 5000 Kg - L.V Bus Duct



SWITCHGEAR LABORATORY









Al-Ahleia Testing Laboratories conducts various type tests as per international standards.

MEDIUM VOLTAGE SWITCHGEAR & BUS DUCT

Temperature Rise Test up to 5000A

Dielectric Test on main circuit

- a. Power Frequency withstand voltage up to 110 kV
- b. Impulse withstand voltage Up to 350 kV peak
- c. Insulation resistance test Up to 5 kV/ 950 $G\Omega$

Dielectric test on auxiliary and control circuit

- a. Power Frequency withstand voltage Up to 4.5 kV
- b. Insulation resistance test Up to 5 kV / 950 $G\Omega$

Verification of Degree of Protection up to IP55

Measurement of resistance of main circuit - Switchgear

Mechanical Operation & Endurance Test - Switchgear

Partial Discharge Test - Switchgear

Tests to Prove the Strength of Gas Filled Compartment up to 6 bar Gauge Pressure - Switchgear

Tightness Test of Gas Filled Switchgear - Switchgear





SWITCHGEAR LABORATORY









UKAS ACCREDITATION

Accreditation by UKAS demonstrates the competence, impartiality and performance capability of Al-Ahleia Testing Laboratories.

Certificate of Accreditation



Al-Ahleia Switchgear Co., K.S.C.C.

Testing Laboratory No. 7782

Is accredited in accordance with International Standard ISO/IEC 17025:2017 - General Requirements for the competence of testing and calibration laboratories.

This accreditation demonstrates technical competence for a defined scope specified in the schedule to this certificate, and the operation of a management system (refer joint ISO-ILAC-IAF Communiqué dated April 2017). The schedule to this certificate is an essential accreditation document and from time to time may be revised and reissued.

The most recent issue of the schedule of accreditation, which bears the same accreditation number as this certificate, is available from www.ukas.com.

This accreditation is subject to continuing conformity with United Kingdom Accreditation Service requirements.

Matt Gantley, Chief Executive Officer United Kingdom Accreditation Service

Initial Accreditation: 17 March 2014 Certificate Issued: 25 January 2024







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 $UKAS \ is appointed \ as the sole national accreditation body for the UK by The Accreditation Regulations 2009 \ (SI \ No \ 3155/2009) \ and operate under a Memorandum of Understanding (MoU) with the Department for Business and Trade (DBT).$

RECOGNITION



ASTA RECOGNITION

Al-Ahleia Testing Laboratories are ASTA Recognized as RTL Level 4.

The ASTA Certification provides an independent compliance test certificate accepted by all.



DISTRIBUTION AND POWER TRANSFORMERS (OIL FILLED TYPE & CAST RESIN TYPE)

Temperature Dice Test up to FOMY/A
Temperature Rise Test up to 50MVA
Dielectric Test on Main Circuit
a. Power Frequency Withstand Voltage up to 450kV
b. Lightning Impulse Voltage / Chopped Wave up to 900kVp
c. Insulation Resistance Test up to 5kV / 950GΩ
Induced AC Voltage Test with Partial Discharge Measurement
Sound Level Test
Sweep Frequency Response Analysis
Measurement of Voltage Ratio & Check of Phase Displacement
Measurement of Winding Resistance
Measurement of Oil BDV up to 100kV
Measurement of Dissolved Gases in Oil
Measurement of Capacitance and Tan δ of Oil and Transformer
Hydraulic Pressure Deflection / Pressure Test on Transformer and Cable Box / Vacuum Deflection
Measurement of No Load Loss and Current with Testing Facility of 1000kVA Regulator, 500kVA Intermediate Transformer (33-22-11 kV)
Measurement of Zero Phase Sequence Impedance
Measurement of Short Circuit Impedance and Load Loss with Testing Facility of 1000kVA Regulator, 1000kVA Intermediate Transformer (1.1kV to 11.5kV) and HT Capacitor 16.5 MVAR
Test on On-Load Tap Changer
Leak Testing with Pressure for Oil Filled Transformer

Verification of Degree of Protection up to IP55



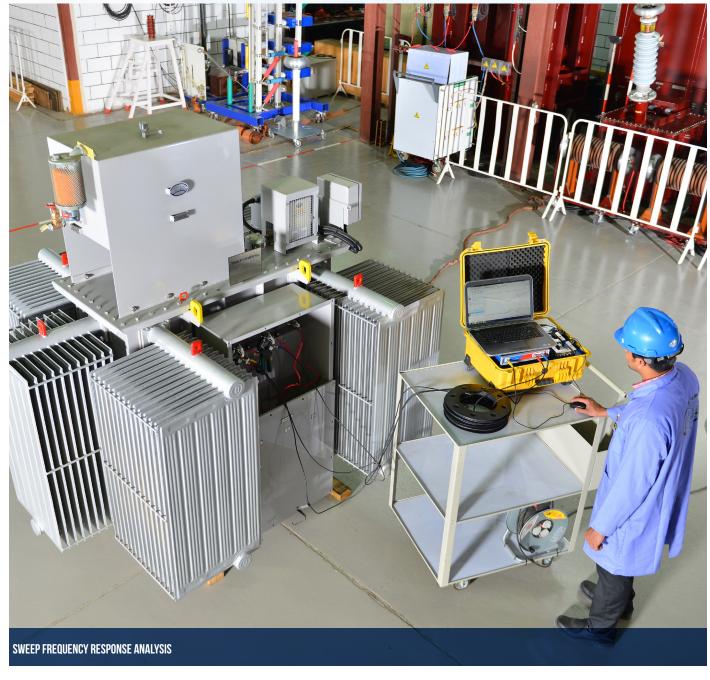








Al-Ahleia Testing Laboratories is one of the first laboratories in the middle east to be accredited by UKAS (United Kingdom Accreditation Service) & recognized by ASTA (ASTA Recognized Laboratory / Intertek).









OUR TEAM









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