



**TC - 13758**  
(NABL ACCREDITED  
LABORATORY)



**ADVANCE ELECTRICAL TESTING  
& CALIBRATION LAB LLP**



**ADVANCE ELECTRICAL  
TESTING & CALIBRATION  
LAB LLP**



## ABOUT US

Advance Electrical Testing & Calibration Lab LLP Established in the year 2023. Advance Electrical Testing & Calibration Lab LLP Accredited as per IS/IEC 17025:2017. Advance Electrical Testing & Calibration Lab LLP is limited liable partnership company in Gujarat who has been accredited by National Accreditation Board for Testing And Calibration Laboratory (NABL) for Testing Activity. Advance Electrical Testing & Calibration Lab LLP is equipped with state-of-the-art equipment and experienced technical staff to provide accurate and reliable testing services for a wide range of instruments and equipment.

## FEATURES OF OUR LABORATORY :

- ✓ Fast Testing Services at Laboratory and at customer location.
- ✓ Competitive Price.
- ✓ Qualified and Competent Technical Staff.
- ✓ Immediate Response to Clients.
- ✓ Quality Work.
- ✓ Satisfactory Work.
- ✓ Speedy and Accurate Reports.

## MASTER EQUIPMENT USED FOR TESTING :



Turns Ratio Meter



Winding Resistance Meter



Digital Power Meter



Insulation Tester



Sound Level Meter



Pressure / Vacuum Gauge

# TESTING FACILITY :

✦ All Routine, Type & Special Tests of all types of Oil Cooled Transformer, Dry Type Transformers up to 2.5 MVA at our Laboratory and at customer location.

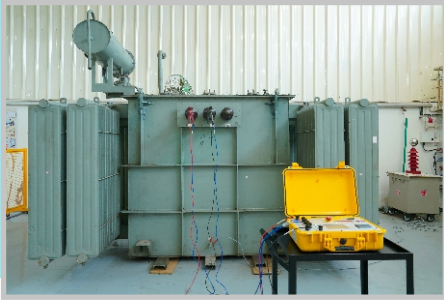
- 01) Measurement of winding resistance.
- 02) Measurement of voltage ratio and Check of phase displacement/voltage vector relationship.
- 03) Measurement of short-circuit impedance and Load loss at 50% and 100% load.
- 04) Measurement of no-load loss and current.
- 05) Measurement of insulation resistance.
- 06) Separate source voltage with stands test.
- 07) Induced over - voltage with stand test.
- 08) Temperature-rise test (oil-cooled transformer).
- 09) Measurement of zero phase sequence impedance(s) on three-phase transformers.
- 10) Measurement of neutral current.
- 11) Pressure test (Routine).
- 12) Pressure test (Type).
- 13) Temperature-rise test (dry type transformer).
- 14) Measurement of harmonics of no-load current.
- 15) Magnetic balance test on 3-phase transformer.
- 16) Permissible flux density and over fluxing.
- 17) Oil leakage test.
- 18) Measurement of no-load current at 112.5% voltage.
- 19) Determination of sound level.
- 20) Paint adhesion tests.
- 21) Measurement of moisture content of oil & oil BDV test.
- 22) Impulse test.

## CURRENT TRANSFORMER UP TO 33 KV :

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Power frequency dry with stand test on primary windings. | <input checked="" type="checkbox"/> Power frequency dry with stand test on secondary winding. |
| <input checked="" type="checkbox"/> Power frequency voltage with stand between sections.     | <input checked="" type="checkbox"/> Secondary winding resistance.                             |
|  | <input checked="" type="checkbox"/> Impulse test.   |

## VOLTAGE TRANSFORMERS UP TO 33 KV :

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Power frequency voltage with stand between sections.       | <input checked="" type="checkbox"/> Power frequency dry with stand test on secondary winding. |
| <input checked="" type="checkbox"/> Power frequency dry with stand tests on primary terminals. | <input checked="" type="checkbox"/> Impulse test.   |



Winding Resistance



Measurement of insulation Resistance



Determination of sound level



Measurement of voltage ratio & check of phase displacement / voltage vector relationship



Measurement of short-circuit impedance & Load loss at 50% & 100% load



Oil BDV test

## OTHER TESTING FACILITY : (Non - NABL)

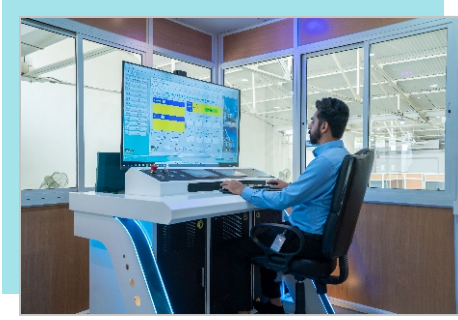
We have switchgear testing facility as per customer's requirement and applicable Indian and international standard. The test facility of, High voltage test, insulation resistance test, impulse test etc... (For LT & HT Cables, MCB, ELCB, Switch. Socket etc....)

## IS/IEC STANDARD USED FOR TESTING :

- ✓ IS 1180.
- ✓ IS 2026.
- ✓ CBIP Manual.
- ✓ IEC 60076.
- ✓ IS 16227.
- ✓ IEC: 61869.
- ✓ ASTM D3359.
- ✓ IS335.
- ✓ IS6792.
- ✓ IEC 60156.



Pressure test (Routine/Type)



Measurement of Winding Resistance (Auto Mode)



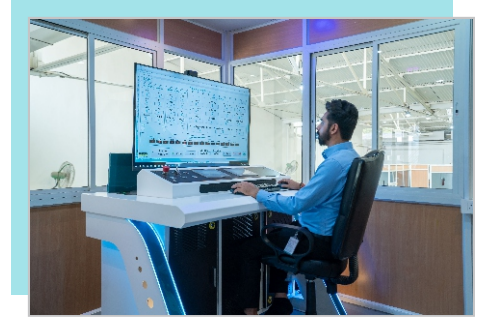
Separate source voltage with stands test



Temperature Rise Test





Testing Lab



Temperature Rise Test (Auto mode)

## CERTIFICATE OF ACCREDITATION :

**National Accreditation Board for  
Testing and Calibration Laboratories**

**NABL**

**CERTIFICATE OF ACCREDITATION**

**ADVANCE ELECTRICAL TESTING AND CALIBRATION  
LAB LLP**

has been assessed and accredited in accordance with the standard  
**ISO/IEC 17025:2017**  
**"General Requirements for the Competence of Testing &  
Calibration Laboratories"**

for its facilities at  
SHED NO. 13/1/A, MAKARPURA GIDC, VADODARA, GUJARAT, INDIA  
in the field of  
**TESTING**



Certificate Number: TC-13758  
Issue Date: 24/05/2024      Valid Until: 23/05/2026

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.  
(To see the scope of accreditation of this laboratory, you may also visit NABL website [www.nabl-india.org](http://www.nabl-india.org))

Name of Legal Entity: ADVANCE ELECTRICAL TESTING AND CALIBRATION LAB LLP  
Signed for and on behalf of NABL

  
**N. Venkateswaran**  
 Chief Executive Officer



**भारतीय मानक ब्यूरो**  
 भारतीय मानक ब्यूरो  
**BUREAU OF INDIAN STANDARDS**  
 Ministry of Consumer Affairs, Food & Public Distribution  
 Government of India

Our Ref: LRMD/LRS/OSL - 7182426      18-11-2024

M/s. Advance Electrical Testing and Calibration Lab LLP  
13/1/A GIDC, Makarpura Road, Makarpura,  
Vadodra, Gujarat-390014

Subject: Grant of Recognition to M/s Advance Electrical Testing And Calibration Lab LLP,  
VADODARA, Gujarat.

Dear Sir,


The competent Authority has decided to grant recognition to your laboratory for three year with effect from 18-11-2024 to 17-11-2027. The scope has been updated on the LIMS accordingly and is available at <https://lms.bis.gov.in>.


Further, it is to inform that, all the activity related to LRS and the receipt of sample, forwarding of sample, testing and generation of test reports have been made online in the LIMS portal.

Please note that recognition under LRS does not guarantee samples from BIS and your laboratory will be utilized as and when required by BIS for testing of samples. The recognition of your laboratory is subject to compliance of all terms and conditions of BIS LRS 2020.

Thanking you,

Yours faithfully

  
**(S. P. Tudu)**  
 Scientist-D / Joint Director




मानक भवन, 8, बहादुरशाह जफर मार्ग, नई दिल्ली 110002  
 दूरभाष : 23230131, 23233375, 23239402  
 ई-मेल : [info@bis.gov.in](mailto:info@bis.gov.in) वेबसाइट : [www.bis.gov.in](http://www.bis.gov.in)

Manak Bhavan, 8, Bahadur Shah Zafar Marg, New Delhi-110002  
 टेल. : 23230131, 23233375, 23239402  
 ई-मेल : [info@bis.gov.in](mailto:info@bis.gov.in) वेबसाइट : [www.bis.gov.in](http://www.bis.gov.in)

\*For detailed information on BIS, consult the e-BIS Portal ([www.manakonline.in](http://www.manakonline.in)) / Please use BIS CARE APP for verification of ISI-marked goods and hallmarked gold jewellery\*




## GET IN TOUCH

 13/1/A GIDC Makarpura, Nr.Jupiter Circle, Opp. MGVCL Office,  
Vadodara-390014, Gujarat, India.

 [info@aetclab.com](mailto:info@aetclab.com) | [testing@aetclab.com](mailto:testing@aetclab.com) | [quality@aetclab.com](mailto:quality@aetclab.com)

 Website: [www.aetclab.com](http://www.aetclab.com)

 +91 63583 31284 | +91 63583 31285 | 0265 - 2990228 Ext - 22

GSTIN : 24AAKFE2554M1Z8