

National Accreditation Board for Testing and Calibration Laboratories

#### **CERTIFICATE OF ACCREDITATION**

# SHANTHALA POWER LIMITED, ELECTRICAL TESTING LABORATORY

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

SHANTHALA NO. 24, PRIYADARSHINI COLONY, GOKUL ROAD, HUBBALLI, HUBLI, DHARWAD, KARNATAKA, INDIA

in the field of

**TESTING** 

NOITAN

Certificate Number:

TC-13242

Issue Date:

12/03/2024

Valid Until:

11/03/2026

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)

Name of Legal Entity: Shanthala Power Limited

Signed for and on behalf of NABL



N. Venkateswaran Chief Executive Officer





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

### **SCOPE OF ACCREDITATION**

Laboratory Name :

**Accreditation Standard Certificate Number** Validity

SHANTHALA POWER LIMITED, ELECTRICAL TESTING LABORATORY, SHANTHALA NO. 24, PRIYADARSHINI COLONY, GOKUL ROAD, HUBBALLI, HUBLI, DHARWAD, KARNATAKA, INDIA

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Last Amended on

Component, parameter or Test Method Specification

| S.No               | Discipline / Group                                  | Materials or Products tested | component, parameter or<br>characteristic tested /<br>Specific Test Performed /<br>Tests or type of tests<br>performed | against which tests are<br>performed and / or the<br>techniques / equipment<br>used |  |  |  |
|--------------------|---|------------------------------|--|---|--|--|--|
| Permanent Facility |   |                              |  |   |  |  |  |
| 1                  | ELECTRICAL- INSULATING<br>MATERIALS &<br>INSULATORS | Transformer Oil              | Acidity (Neutralization Number)  | IS 1448 (Part 2)  |  |  |  |
| 2                  | ELECTRICAL- INSULATING<br>MATERIALS &<br>INSULATORS | Transformer Oil              | Analysis Furanic Compounds<br>(Furfuryl Alcohol)   | IS 15668  |  |  |  |
| 3                  | ELECTRICAL- INSULATING<br>MATERIALS &<br>INSULATORS | Transformer Oil              | Analysis Furanic Compounds(2-<br>Furaldehyde)  | IS 15668  |  |  |  |
| 4                  | ELECTRICAL- INSULATING<br>MATERIALS &<br>INSULATORS | Transformer Oil              | Analysis Furanic Compounds(2-<br>Acetyl Furan)   | IS 15668  |  |  |  |
| 5                  | ELECTRICAL- INSULATING<br>MATERIALS &<br>INSULATORS | Transformer Oil              | Analysis Furanic Compounds(5-<br>Hydroxymethyl 2-Furaldehyde)  | IS 15668  |  |  |  |
| 6                  | ELECTRICAL- INSULATING<br>MATERIALS &<br>INSULATORS | Transformer Oil              | Appearance   | IS 335  |  |  |  |
| 7                  | ELECTRICAL- INSULATING<br>MATERIALS &<br>INSULATORS | Transformer Oil              | Break Down Voltage (Di-<br>Electric Strength)  | IS 6792   |  |  |  |
| 8                  | ELECTRICAL- INSULATING<br>MATERIALS &<br>INSULATORS | Transformer Oil              | Density 27 Degree Celsius  | IS 1448 (Part 16)   |  |  |  |
| 9                  | ELECTRICAL- INSULATING<br>MATERIALS &<br>INSULATORS | Transformer Oil              | Dissolved Gas Analysis (DGA)-<br>Acetylene   | IS 9434, IS 10593   |  |  |  |
| 10                 | ELECTRICAL- INSULATING<br>MATERIALS &<br>INSULATORS | Transformer Oil              | Dissolved Gas Analysis (DGA)-<br>Carbon Dioxide  | IS 9434, IS 10593   |  |  |  |
| 11                 | ELECTRICAL- INSULATING<br>MATERIALS &<br>INSULATORS | Transformer Oil              | Dissolved Gas Analysis (DGA)-<br>Carbon Monoxide   | IS 9434, IS 10593   |  |  |  |
| 12                 | ELECTRICAL- INSULATING<br>MATERIALS &<br>INSULATORS | Transformer Oil              | Dissolved Gas Analysis (DGA)-<br>Ethane  | IS 9434, IS 10593   |  |  |  |
| 13                 | ELECTRICAL- INSULATING<br>MATERIALS &<br>INSULATORS | Transformer Oil              | Dissolved Gas Analysis (DGA)-<br>Ethylene  | IS 9434, IS 10593   |  |  |  |





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ISO/IEC 17025:2017 TC-13242 12/03/2024 to 11/03/2026

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| S.No | Discipline / Group                                  | Materials or Products tested | Component, parameter or<br>characteristic tested /<br>Specific Test Performed /<br>Tests or type of tests<br>performed | Test Method Specification<br>against which tests are<br>performed and / or the<br>techniques / equipment<br>used |
|------|---|------------------------------|--|--|
| 14   | ELECTRICAL- INSULATING<br>MATERIALS &<br>INSULATORS | Transformer Oil              | Dissolved Gas Analysis (DGA)-<br>Hydrogen  | IS 9434, IS 10593  |
| 15   | ELECTRICAL- INSULATING<br>MATERIALS &<br>INSULATORS | Transformer Oil              | Dissolved Gas Analysis (DGA)-<br>Methane   | IS 9434, IS 10593  |
| 16   | ELECTRICAL- INSULATING<br>MATERIALS &<br>INSULATORS | Transformer Oil              | Flash Point (PMCC) Test  | IS 1448 (Part 21)  |
| 17   | ELECTRICAL- INSULATING<br>MATERIALS &<br>INSULATORS | Transformer Oil              | Interfacial Tension(IFT)   | IS 6104  |
| 18   | ELECTRICAL- INSULATING<br>MATERIALS &<br>INSULATORS | Transformer Oil              | Kinematic Viscosity at 27<br>degree Celsius  | IS 1448 (Part 25)  |
| 19   | ELECTRICAL- INSULATING<br>MATERIALS &<br>INSULATORS | Transformer Oil              | Resistivity (Specific Resistance)<br>Test at 90 degree Celsius   | IS 16840   |
| 20   | ELECTRICAL- INSULATING<br>MATERIALS &<br>INSULATORS | Transformer Oil              | Sludge & Sediment Test   | IS 1866 (Annexure C)   |
| 21   | ELECTRICAL- INSULATING<br>MATERIALS &<br>INSULATORS | Transformer Oil              | Tan Delta Test at 90 degree<br>Celsius (Di-Electric Dissipation<br>Factor)   | IS 16840   |
| 22   | ELECTRICAL- INSULATING<br>MATERIALS &<br>INSULATORS | Transformer Oil              | Water Content (Moisture<br>Content)  | IS 13567   |
| 23   | ELECTRICAL- INSULATING<br>MATERIALS &<br>INSULATORS | Transformer Oils             | Analysis Furanic Compounds(5-<br>Methyl 2-Furaldehyde)   | IS 15668   |