



Celebrating
25
YEARS

SHANTHALA POWER LIMITED

NABL ACCREDITED LABORATORY FOR TESTING & CALIBRATION

Shanthala No.24, Priyadarshini Colony, Gokul Road, Hubballi- 580 030. Karnataka.

Website: www.ShanthalaIndia.com Ph No.: 94498 67588 8147832183,

e-mail: marketing@shanthalaIndia.com, GSTIN: 29AAMCS4957P1Z7, CIN: U40109KA2008PLC047840.

AWARDS



**MSME Award- 2005,
New Delhi (India)**



**Rajiv Gandhi National Quality Award-2008,
New Delhi(India)**



**Golden Peacock Award 2012,
New Delhi (India)**



**Rajiv Gandhi National Quality Award-
2010, New Delhi(India)**



**2014 Best Quality Leadership
Award (USA)**



**2014 Star Quality Award
(Paris-France)**



ABOUT COMPANY

Shanthala Power Limited, headquartered in Hubballi, Karnataka, stands as a premier Testing & Calibration Organization renowned across India for its dedication to excellence in electrical engineering services. Established in 1999, the company has built a solid reputation for its customer-centric approach and provision of top-tier services.

At the heart of Shanthala's success lies its team of highly qualified and experienced professionals, who possess the expertise to deliver exceptional testing and calibration solutions. With a focus on customer satisfaction, Shanthala Power Limited has assessed over 100,000 power equipment units of various capacities, makes, and ages both within India and internationally.

Over the course of 25 years, Shanthala has meticulously curated a comprehensive database of power equipment test results, enabling precise analysis and informed decision-making for clients. Armed with cutting-edge technology, including state-of-the-art test equipment and software, as well as mobile vans for on-site assessments, Shanthala Power Limited ensures the health and efficiency of power equipment at clients' facilities.

MEET OUR CHAIRMAN



Kadappa K Mysore, a native of Belligatti village in Karnataka, embarked on a journey of entrepreneurship fueled by his passion for electrical engineering. Graduating from Siddaganga Institute of Technology in 1995, he honed his skills at ELTEL Company in Bangalore before venturing out on his own. In 1999, he established Shanthala Engineering in Bangalore, marking the beginning of his entrepreneurial endeavor.

Driven by a desire to give back to his roots, Kadappa relocated his company to Hubballi in 2000, aiming to contribute to the development of his village. With a clear focus on providing top-notch Testing and Calibration services in Electrical Engineering, he steadily steered the organization towards growth and excellence.

In 2008, recognizing the potential to expand further and realizing his vision for the company, Kadappa transformed Shanthala Engineering into a Public Limited Company, rebranded as Shanthala Power Limited. This strategic move not only cemented the company's presence in the industry but also signaled its commitment to innovation and progress in the field of electrical engineering.

VISION MISSION SCOPES

VISION

To become a leading Electrical Testing & Calibration Laboratory in India

MISSION

- **Customer Centric:** Delivering value-added services through innovative technology.
- **Transparency & Ethics:** Maintaining ethical practices in all their endeavors.
- **Social Responsibility:** Being a responsive and responsible organization contributing to the betterment of society.

SCOPES

- Transformer Oil Testing
- Condition Monitoring of Transformer
- Transformer Oil Filtration and Overhauling of Transformer
- Substation Equipment Testing
- Personal Protection Equipment Testing
- Online Tests Through Scanning
- Condition Monitoring of Generator
- Condition monitoring of Motor
- Energy Meter Testing
- Relay Testing
- Calibration of Measuring Equipment's
- Gear Box Oil/Hydraulic Oil/Turbine Oil Testing

CERTIFICATION



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

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

CERTIFICATION



National Accreditation Board for
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CERTIFICATE OF ACCREDITATION

SHANTHALA POWER LIMITED

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**"General Requirements for the Competence of Testing &
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for its facilities at

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

in the field of

CALIBRATION

Certificate Number: CC-2217

Issue Date: 29/07/2022

Valid Until: 28/07/2024

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 Identity : Shanthala Power Limited

Signed for and on behalf of NABL



N. Venkateswaran
Chief Executive Officer

CERTIFICATION

Phone: 080- 23371691

**GOVERNMENT OF KARNATAKA
(Electrical Inspectorate)**

NO: CEIG/ACEI/EI(L)/FDA/

/2023-24

Office of the

Chief Electrical Inspector to Govt.,
Nirmana Bhavan, 2nd Floor,
P.B.No: 5148, Dr. Rajkumar Road,
Rajajinagar, Bangalore-560010

12116-205.

Date: 08/11/2023.

To,
The Proprietor/Manager,
M/s. Shanthala Power Limited,
No. 24, Gokul Road, Priyadarshini Colony,
Airport Road, Hubballi,
Dharwad Dist-580030.

Sir,

Sub: Renewal Permission for Testing and Filtration of Transformer Oil, Testing of Relays, Energy Meters, CTs, PTs, HT/LT panels, HT/LT Breakers and Cables etc of M/s. Shanthala Power Limited, No. 24, Gokul Road, Priyadarshini Colony, Airport Road, Hubballi, Dharwad Dist-580030.

Ref:-

- 1) Ltr. No: SPL/CEIG/2022-23/1409, Dt:06.03.2023 from to M/s. Shanthala Power Limited, Dharwad.
- 2) Ltr. No: CEIG/ACEI/EI(L)/FDA/23844/2022-23, Dt:31.03.2023 verification letter issued to The Electrical Inspector, Dharwad.
- 3) Ltr. No: SPL/QTY/2022-23, Dt:18.10.2023 from to M/s. Shanthala Power Limited, regarding reason for delay in submission of letter.
- 4) Ltr. No: ACEI/EI/DWD/PIO/23-24/2771, Dt:20.10.2023 verification report from The Electrical Inspector, Dharwad received at this office on Dt: 08.11.2023.

*** **

Permission is hereby accorded to **M/s. Shanthala Power Limited, No. 24, Gokul Road, Priyadarshini Colony, Airport Road, Hubballi, Dharwad Dist-580030**, holding Class-1 Electrical Contractor Licence bearing Licence No: **1CL12578DWD valid upto 31.10.2026**, to provide the following service as an additional customer facility and certificate issued thereby will be accepted by this department for the tests carried out.

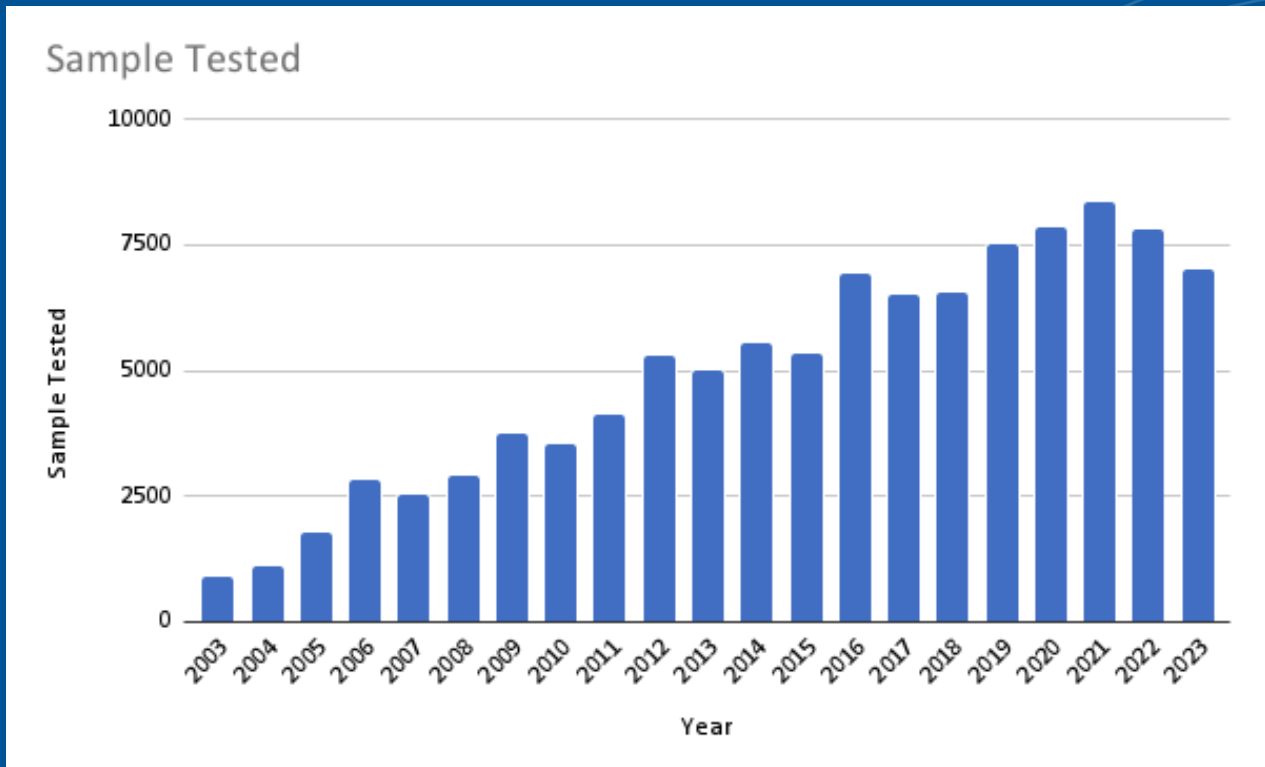
I. Testing of Relays, Energy Meters, CTs, PTs.

II. Transformer Oil testing Filtration, HT & LT panels, Breakers and Cables.

THIS AUTHORISATION IS ISSUED SUBJECT TO THE FOLLOWING CONDITIONS:

1. This authorisation is valid for a period of **ONE YEAR** from the date of issue of this letter or validity of the Electrical Contractor Licence whichever is earlier.
2. The acceptance of certificates issued by the firm is not binding on the KPTCL/ESCOMS. They may insist on their own testing/calibration etc., as they deemed fit.
3. All the sub-standard meters/instruments used for calibration/testing shall be got calibrated **once in a year** by the reputed laboratories/institutions and copies of such certificates should be furnished to this office while applying for renewal.
4. An agreement may be executed on plain paper with the terms and conditions of services contract and shall be produced to this office whenever required and in case of disputes.
5. This authorization is liable to be cancelled without assigning any specific reasons if the services rendered are found to be not satisfactory.
6. s.10,000/- paid vide Challan No: CR0323004300073967, Dt.03.03.2023, through e-payment at State Bank of India is hereby acknowledged towards issue of permission and renewal.

ANNUAL SAMPLE TESTINGS



Shanthala Power Limited is a premier organization specializing in testing and calibration services. With a commitment to precision, reliability, and excellence, Shanthala Power Limited serves a diverse range of industries, ensuring the highest standards in quality control and safety.

SEMINARS



**ISOIEC 17025 2017
Laboratory Management System Training**



**Seminar Conducted on
Electrical Maintenance -1**



Transformer Oil
testing

Transformer Oil Tests as per IS:1866 (Top/Bottom/OLTC)

- Dissolved Gas Analysis
- Furan Analysis
- Density
- Kinematic Viscosity
- Pour Point
- Polychlorinated Biphenyl's (PCB)
- Inhibitor Content Test
- Corrosive Sulfur
- Colour and Appearance
- Break Down Voltage
- Moisture Content
- Dielectric Dissipation Factor(Tan Delta)
- Resistance
- Neutralization Number (Acidity)
- Interfacial Tension
- Sludge
- Flash Point

CONDITION MONITORING TEST ON TRANSFORMERS



- Insulation Resistance (IR) Test
- Polarization Index (PI) Test
- Dielectric Absorption Ratio Test
- Capacitance & Tan Delta Test
- Leakage Current Test
- Step-Up Voltage Test
- Dielectric Spectroscopic Test (RVM/Moisture content measurement test)
- Winding Resistance Measurement Test
- Neutral Floating Point Test
- Turns Ratio and Phase Angle Error Test
- Excitation Current Test (at high Voltage)
- Sweep Frequency Response Analysis (SFRA)
- Magnetic Current Test
- Magnetic Balance Test
- Vector Group Test
- Short Circuit Test
- % Impedance Test
- Operational Check on Buchholz Relay
- WTI and OTI Testing
- Operational Check on PRV

Online Tests:

- Thermography Scanning
- Sound Level Measurement
- Partial Discharge Test
- Vibration Analysis
- Harmonic Analysis

TRANSFORMER OIL FILTRATION AND OVERHAULING OF TRANSFORMER

A. Services

- Transformer oil Filtration
- Transformer Oil Leakage Arresting
- Replacement of Bushings, Valves, Gaskets, "O" Rings, Nut & Bolts etc.
- Transformer Overhauling
- Servicing of OLTC

B. Equipment Details

- 10KL-Oil Filtration Machine-01
- 4.5 KL Oil Filtration Machine-01
- 3KL-Oil Filtration Machine-02
- 10KL Oil Storage Tanker-01
- Air Dryer -01
- Online Moisture Content Tester-01
- Due Point -01
- Mobile Generator

C. Supply

- New Transformer Oil
- Silica Gel
- Breather Set



Transformer Oil
filtration

SUBSTATION EQUIPEMENT TESTING

C

CURRENT TRANSFORMER

- Capacitance & Tan Delta Test
- Insulation Resistance (IR)
- Polarization Index (PI)
- Dielectric Absorption Ratio
- Ratio Test
- Winding Resistance Measurement Test
- Polarity Test
- Knee Point Test

P

POTENTIAL TRANSFORMER

- Capacitance & Tan Delta Test
- Insulation Resistance (IR)
- Polarization Index (PI)
- Dielectric Absorption Ratio Test
- Winding Resistance Measurement Test
- Ratio Test

C

CIRCUIT BREAKER

- Measurement of Tripping & Closing Time
- Measurement of Contact Resistance
- Insulation Resistance (IR)

L

LIGHTNING ARRESTER

- Measurement Of 3rd Harmonic Resistive Leakage Test (Online)
- Insulation Resistance Test(Offline)

E

ELECTRICAL TESTS ON HV CABLES

- Insulation Resistance (IR)
- Dielectric Absorption Ratio Test
- Polarization Index (PI)
- Resistance Measurement Test
- Capacitance & Tan Delta Test
- Leakage Current Test

P

EARTH PIT TEST

Earth Resistance

The infographic is divided into three horizontal sections. The top section, 'ISOLATOR', features a blue circle with the letter 'I' connected by a dotted line to a box listing 'Insulation Resistance (IR) Test' and 'HV Test'. The middle section, 'PERSONAL PROTECTION EQUIPEMENT', features a winding grey path with three blue circles containing the letters 'E', 'E', and 'H'. Each circle is connected by a dotted line to a box listing specific tests: 'EARTH DISCHARGE ROD TEST' (AC Dielectric Strength, Leakage Current), 'EARTH RUBBER MAT TEST' (AC Proof Voltage, Leakage Current), and 'HAND GLOVES TEST' (AC Proof Voltage, Leakage Current). The bottom section, 'ONLINE TESTS THROUGH SCANNING', features a blue circle with the letter 'T' connected by a dotted line to a box listing 'Thermography' and 'Partial Discharge Test'. The entire graphic is framed by a dark grey border with blue decorative triangles in the top right and bottom right corners.

I

ISOLATOR

- Insulation Resistance (IR) Test
- HV Test

PERSONAL PROTECTION EQUIPEMENT

E

EARTH DISCHARGE ROD TEST

- AC Dielectric Strength
- Leakage Current

E

EARTH RUBBER MAT TEST

- AC Proof Voltage
- Leakage Current

H

HAND GLOVES TEST

- AC Proof Voltage
- Leakage Current

ONLINE TESTS THROUGH SCANNING

T

TESTS

- Thermography
- Partial Discharge Test

CONDITION MONITORING TESTS ON GENERATORS

TEST ON STATOR:

- Insulation Resistance (IR) Test
- Polarization Index (PI) Test
- Dielectric Absorption Ratio Test
- Dielectric Discharge (DD) Test
- Capacitance & Tan Delta Test
- Leakage Current Test
- Winding Resistance Measurement Test
- Partial discharge Test
- Surge Comparison Test
- Winding Circuit Analysis(MCSA)

TEST ON ROTOR:

- Insulation Resistance (IR) Test
- Digital RSO Test

TEST ON EXCITER:

- Insulation Resistance (IR) Test
- Winding Resistance Measurement Test



CONDITION MONITORING TESTS ON MOTORS

Online Tests:

- Electrical Signature Analysis
- Vibration Analysis
- Acoustic Emission Analysis

Test On Stator:

- Insulation Resistance (IR) Test
- Dielectric Absorption Ratio Test
- Polarization Index (PI) Test
- Dielectric Discharge (DD) Test
- Capacitance & Tan Delta Test
- Winding Resistance Measurement Test
- Partial discharge Test
- Surge Comparison Test
- Winding Circuit Analysis(MCSA)



ENERGY METER TESTING/CALIBRATION

Class:

- 0.2s
- 0.2
- 0.5
- 0.5s
- 1.0
- 2.0



RELAY TESTING

- Automatic Voltage Regulating Relay
- Auxiliary Relay
- Buchholz Relay
- Differential/Directional Relay
- HV No Voltage Relay
- Instantaneous Over Voltage Relay
- Instantaneous Earth Fault Relay
- Master Tripping Relay
- Motor Protection
- Reverse Reactive Relay
- Sensitive Earth Fault Relay
- Trip Circuit Supervision Relay
- Check Synchronizing Relay
- Neutral displacement Relay
- Over Current Relay & Earth Fault Relay
- Protection Fuse Supervision Relay
- Trip Circuit Supervision Relay
- Vector Surge Relay
- DC Failure Relay
- Definite Time Relay
- Distance Protection Relay
- Earth Fault Relay
- Feeder Protection
- Fuse Failure Relay
- Generator Protection
- High Speed Tripping Relay
- Instantaneous Differential
- Instantaneous Under Voltage Relay
- Maximum Demand Controller Relay
- Over current Relay
- Over Voltage Relay
- Thermal Over Load Relay
- Transformer Differential Relay
- Transformer/Line Differential
- Tripping Relay
- Under Voltage Relay
- Voltage Protection Relay



CALIBRATION OF MEASURING INSTRUMENTS

ELECTRICAL

- AC/DC Voltmeter
- AC/DC Kilo Voltmeter
- AC/DC Ammeter
- Frequency Meter
- Multifunction Meter
- Panel Meters
- Phase Sequence Meter
- Power Factor Meter
- Watt Meter
- AC/DC Clamp Meter
- AC/DC Multimeters
- Oscilloscope
- Current Leakage Tester
- High Voltage Probe
- High Voltage Tester
- Hi Pot Test Kit
- Voltage Tester
- BDV/Oil Test Kit
- Hand Gloves
- Earth Resistance Tester
- Insulation Tester
- Micro Ohm Meter
- Milli Ohm Meter
- Mega Ohm Meter
- Shunts
- LCR Meter
- Motor Checker
- Capacitance Meter
- Inductance Meter
- CT's/PT's
- Relays
- Energy Meter (OFF/Online)
- Welding Machine
- Stop Watch

MECHANICAL

- Pressure Gauge
- Pressure Indicator
- Pressure Switches
- Vacuum Gauge
- Vacuum Indicator
- Dead Weight Tester
- Anemometer
- Lux Meter
- Tacho Meter
- Sound Level Meter
- Viscosity Cup
- Venire Caliper
- Screw Gauge
- Measuring Scale
- Torque Wrench
- Measuring Tape
- Surface Plate
- Height Gauge (Dial/Digital/Vernier)
- Depth Gauge (Dial/Digital/Vernier)
- External Micrometer
- Internal Micrometer
- Depth Micrometer
- Dial Thickness Gauge
- Dial SNAP Gauge
- SNAP Gauge
- Gap Gauge
- Pistol Caliper
- Indide Dial Caliper
- Plunger Dial Gauge
- Level Dial Gauge
- Bore Gauge
- Thread Gauge

THERMAL

- Thermometers (All Types)
- Thermocouple
- Thermal Imager Camera
- Temperature Gauge
- Temperature Controller
- Temperature Indicator
- Temperature Switches
- Temperature Calibrators
- RTD Sensors
- Winding Temperature Gauge (WTI)
- Oil Temperature Gauge (OTI)
- Ovens
- Muffle Furnace (frame this in point dont change)



TURBINE OIL TESTING

- Viscosity
- Moisture Content
- TAN- Total Acid Number
- Flash Point
- NAS Value
- Elemental Analysis
- Ferrography Analysis

Turbine oil Flashpoint Test



Turbine oil Viscosity Test



Since 1999



SHANTHALA POWER LIMITED

NABL ACCREDITED LABORATORY FOR TESTING & CALIBRATION

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