

tesla
Transformers (India) Ltd.





Tesla Transformers (India) Ltd.
Power / EHV Transformer Division



NABL approved testing lab

In-house Testing facilities available as per IEC:60076 / IS:2026 Standards



VAPOUR PHASE DRYING PLANT

Tesla Transformers were established in year 1972 and celebrated its 50 years' golden jubilee benchmark in year 2022. We are one of the top 10 private Transformer manufacturing company in India.

Tesla Transformers (India) Limited (TTIL) led by Mr. Jaideep Jain (CMD) is a multi-product and service organization in the electric power sector dealing in Manufacturing, supplying, erecting, testing of Power and Distribution Transformers and complete substations as TURNKEY PROJECTS with credibility over the past 52 years and fully committed to the norms of international quality and standards in Synergy to achieve customer satisfaction. Tesla group has an excellent brand image and is ISO-9001, 14001 & 45001 certified company.

Also tesla has In-House NABL Accredited transformer testing laboratory as per IS 17025 which enable us to perform routine test, type test & special test on transformers.

Tesla Manufactures wide range of power & distribution transformers ranging from 25 KVA to 200 MVA, with voltage class upto 220 KV. We also manufacture Inverter Duty Transformer (IDTs) of Copper & Aluminium wound and rating as per Customer requirement.

Our newly constructed VPD plant with heating capacity of 300 KW increases our manufacturing capacity to great extent.

Our design & RnD department is having highly qualified engineers equipped with newest 3D & design simulation packages.

TTIL is headquartered in Bhopal (M.P), India and having Sales and Service network across India, Asia, Middle East, Africa, Americas and Europe.

TTIL is recognized and renowned name in the INDIAN market covering Electrical utilities, GOVT owned service providers and private companies. TTIL is a well-known name with strong presence on the GLOBAL market.

Tesla has founding principles of unrelenting integrity, uncompromising standards, unfailing services and unyielding commitments. We at Tesla surging ahead with a vision to be the best by delivering the best.



ISO 9001

ISO 14001

ISO 45001

tesla

power & EHV transformers



50 MVA 220/33KV, POWER TRANSFORMER



70 MVA, 132/33KV Power Transformer



50MVA, 132/33KV POWER TRANSFORMER

Tesla manufactures wide range of power and distribution transformers ranging from 25 KVA to 200 MVA with voltage class of 220 KV maximum. These transformers can be free breathing type, fitted with a conservator or hermetically sealed. The liquid filled range can be cooled by either tank mounted plate radiators or by corrugations on the side of their tank. Free breathing units with or without conservators are normally oil filled while hermetically sealed transformers can be filled either with oil or one of the several low flammable synthetic fluids. Both types can be supplied with HV and LV switchgear, incorporated in to substations. Hermetically sealed transformers are totally maintenance free and are particularly suited for use in exposed outdoor environments such as moisture, salt or dust laden atmospheres. They are used extensively in chemical plants, oil and gas terminals where poor accessibility makes regular maintenance impractical. Transformers immersed in synthetic coolants are suitable for indoors with adequate ventilation near load center where oil would not be considered environmentally acceptable.

The high quality Standard setup by the company are appreciated by our customers in India and Abroad, Standards which are applied to development, manufacturing, installing and commissioning of power transformers for power stations, special purpose transformers for industry fields, reactors and accessories. Our two manufacturing facilities are located in Bhopal. Power transformers up to 200 MVA 220 KV Class are regularly manufactured and supplied.

Tesla has set up a complete Quality Management System (QMS) to offer the highest customer satisfaction. Maintaining quality in engineering, manufacturing, sales and services is of the highest priority for Tesla. The Tesla Quality Program (TQP) is based on the philosophy of prevention and not just on the detection and correction of problems after they occur.

Our after sales & service team is highly experienced & dedicated to provide instant response to complaints having network in India & abroad.

Tesla is equipped to manufacture transformers with a wide range of internationally recognized standards such as:

- | | |
|--|--|
| <ul style="list-style-type: none"> <input checked="" type="checkbox"/> IEC (International Electro Technical Commission) <input checked="" type="checkbox"/> ANSI (American National Standard Institution) <input checked="" type="checkbox"/> Bureau of Indian Standards <input checked="" type="checkbox"/> IS (Indian Standards) | <ul style="list-style-type: none"> <input checked="" type="checkbox"/> ESKOM Standards <input checked="" type="checkbox"/> SESCO Standards <input checked="" type="checkbox"/> SABS Standards <input checked="" type="checkbox"/> BS (British Standards) |
|--|--|

CENTRAL POWER RESEARCH INSTITUTE
TEST REPORT

ADDITIONAL TEST REPORT

Test Report Number : CPRIBPLSTNA2279246 Date: 31 October 2022

Name and Address of the Customer : M/s. Tesla Transformers (India) Limited, 23-A, Sector-B, Industrial Area, Govindpura, Bhopal - 462 023, Madhya Pradesh (India)

Name and Address of the Manufacturer : M/s. Tesla Transformers (India) Limited, 23-A, Sector-B, Industrial Area, Govindpura, Bhopal - 462 023, Madhya Pradesh (India)

Particulars of Sample tested : 4000 MVA, 132/33 kV Power Transformer

Type : Conventional

Description of test sample : Refer Sheet 2 of 8

Serial Number : TTIL/1759

Number of Samples Tested : One

Date(s) of Test(s) : 28.09 September, 3 to 7 October 2022

CPRIB sample code number(s) : STNA/2290223

Particulars of tests conducted : Ability to withstand the dynamic effects of short circuit, IEC 60075-5-2009

Test in accordance with Standard/Specification : NI

Sampling Plan : NI

Customer's Requirement : Refer Sheet 3 of 8

Deviations, if any : NI

Name of the witnessing person : NI

Customer's Representative : Mr. M.S. Philip, General Manager

Other than Customer's Representatives : NI

Test submitted with and address of the laboratory : None

Documents constituting this report (in words) : Eight

Number of Sheet(s) : Nine

Number of Oscilogram(s) : NI

Number of Graph(s) : Six

Number of Photograph(s) : Nine

Number of Test Circuit Diagram(s) : One

Number of Drawing(s) : Nine

(Dipangana Sahoo)
Test Engineer

(Maninder Singh Takher)
Head of Division

Reviewed and Authorized by

URL - TC51812205TAT0246F SWITGEAR TESTING & DEVELOPMENT STATION, GOVINDPURA, BHOPAL - 462 023, INDIA
Discipline : Electrical TELLS - +91 95 755 28862, +91 94 49 35 287774
Group : Inductors & Transformers

Sheet 1 of 8

Short circuit report of 50MVA 132/33KV power transformer



20 MVA, 110/33-11 KV KPTCL INSTALLED AT SITE

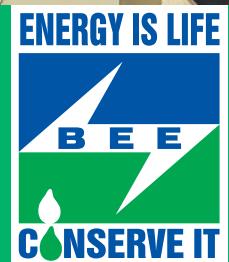


25 MVA, 132/33KV POWER TRANSFORMER



5 MVA, 33/11KV MPMKVCL

energy
efficient
& power
transformers



(UP TO 33KV CLASS)

Power Transformer plays a vital role in power networks, its life and performance plays a significant role in the Electrification, Transmission and has direct impact on the grid stability. Our best in class power transformers (upto 33KV Class) were regularly manufactured and supplied by us to various parts of India & Abroad. Various govt. electricity boards like APDCL, MSEDC, MP electricity board, MESCOM, state DISCOM's, Private customers (EPCs) etc. are our regular customers.



Tesla Transformers (India) Ltd. is one of the few/first units manufacturing energy efficient transformers in India. We have supplied more than 50000 units of various rating energy efficient transformers to electrical utilities in India.

Energy efficient transformers are rated as Level-I, Level-II, Level-III rating. In energy efficient transformers we guarantee individually the no-load loss and load loss without any positive tolerance at 50% and 100% load condition (at rated voltage and frequency and at 75°C).

The maximum allowable losses at rated voltage and rated frequency permitted at 75°C for distribution transformers can be chosen from the values of Level-I, Level-II, Level-III rating for transformers. No positive tolerance shall be allowed on the maximum losses displayed on the label for both 50% and 100% loading values.



10/13.33 MVA, 33/11 KV POWER TRANSFORMER



5 MVA, 33/11 KV MSEDC



10 MVA, 33/11 KV APDCL



10 MVA, 33/11 KV MESCOM



25/35 MVA, 13.8/13.8 KV,
60 Hz Unity Ratio Transformer
supplied to Texas, USA.

exports



1.6 MVA, 10.5/0.46 KV, 60 Hz.
Auxiliary Transformer Supplied
to South Korea



12.5 MVA, 22.9/10.5 KV, 60 Hz
Power Transformer supplied to
South Korea.



7.5 MVA, 33 KV Transformer
installed at De Beers
Diamond Mine, Namibia

Tesla Exports truly be termed as "A single source for all your electrical needs". It exports both the products manufactured by the Tesla group as well as products manufactured by several associates in India. A wide range of Electrical items such as:

- Distribution & Power Transformers of Oil/Dry type.
- Mobile Substations,
- Unitised Substations (USS)
- Indoor & Outdoor HT & LT Switchgear / Control and Relay Panel.
- Vacuum Circuit Breaker & SF6 Circuit breaker.
- Isolators, Load Break Switch Fuse Unit, Ring Main Unit.
- HT & LT Cables and Bus Bars along with support.
- Transmission Towers.

For various applications the insulating materials, brass items etc. are also exported by us. All items are thoroughly inspected in-house prior to export. Type test certificates are also available for all materials. The company exports to countries across the world. Tesla is positioned to meet the needs of both the dealers and OEM's by offering a complete range of electrical equipments. This saves time and effort for you to look for and deals with several manufacturers of various equipments required by your organisation. You can instead procure these from a single source.



12 MVA, 13.8/12.47 KV 60 Hz
Interconnecting Transformer supplied to Texas USA.



12.5 MVA, 66 KV
Transformer Supplied to Australia



1 MVA, 4.16/0.48 KV, 60 Hz
Service Transformer supplied to Texas, USA.



2 MVA, 13.8/0.48 KV, 60 Hz
Service Transformer Supplied to Texas, USA.



Underground Mining Transformers Supplied to Australia

EXPORTS

- Afghanistan
- Australia
- Bangladesh
- Canada
- Ethiopia
- Ghana
- Iraq
- Kenya
- Kazakhstan
- Libya
- Liberia
- Malta
- Malawi
- Mozambique
- Nepal
- New Zealand
- Namibia
- Nigeria
- Oman
- Palestine
- Philippines
- Qatar
- Saudi Arabia
- Senegal
- Singapore
- South Africa
- South Korea
- Spain
- Sudan
- Tanzania
- USA
- UAE
- Uganda
- Yemen
- Zambia
- Zimbabwe



Our Clients

ELECTRICAL UTILITIES (GOVT. SECTOR)

- Power Grid Corporation of India Ltd. (PGCIL)
- National Power Thermal Corporation (NTPC)
- North Eastern Electric Power Corporation Ltd. (NEEPCO)
- Maharashtra State Electricity Transmission company Ltd. (MSETCL)
- Maharashtra State Electricity Distribution company Ltd. (MSEDCL)
- Punjab State Transmission company Ltd. (PSTCL)
- Central Electricity Supply Utility of Orrisa (CESU)
- Karnataka Power Transmission Company Ltd. (KPTCL)
- Tamilnadu Generation and Distribution Company Ltd. (TANGEDCO)
- West Bengal State Electricity Distribution Company Ltd (WBSEDCL)
- M.P. Madhya Kshetra Vidyut Vitran Company Ltd. (MPMKVCL)
- M.P. Poorva Kshetra Vidyut Vitran Company Ltd. (MPPKVCL)
- M.P. Paschim Kshetra Vidyut Vitran Company Ltd.
- Assam Power Distribution Company Ltd. (APDCL)
- Tamilnadu Electricity Board (TNEB)
- Central Power Research Institute (CPRI)
- Karnatak State Electricity Board (KSEB)
- Bharat Heavy Electricals Ltd. (BHEL)
- HESCOM, BESCOM, MESCOM, GETCO
and many other state electricity boards....

EPC'S

- Larsen & Turbo (L & T Ltd.)
- ABB Ltd.
- Siemens Ltd.
- Suzlon Energy
- Sterling & Wilson
- TATA Projects Ltd.
- TATA Power Ltd.
- Adani Solar

- Aditya Birla Renewables.
 - Belectric photovoltaic pvt. Ltd.
 - Bajaj Electricals
 - Shyama Power India Ltd.
 - NEECON Power and Infra Ltd.
 - KEI Industries Ltd.
 - KEC international Ltd.
 - Malegaon Power Supply Ltd.
 - Siddharth engineering Ltd.
 - Ideas Electricals & Engineers Pvt. Ltd.
 - Ashoka Buildcon Ltd.
 - Fourth Partner Energy Ltd.
 - PVR Constructions
 - GVPR Ltd.
 - Groma Infra Ltd.
 - Techno-electric & Engineers co, Ltd.
 - GE T & D Ltd.
 - NCC Limited
 - IRCON international Ltd.
 - TS Wind Power Developer
 - Insolare Energies
 - Angelique International Ltd.
 - ISGEC Heavy Engineering Ltd.
 - BGR Energy systems Ltd.
 - SPML Infraa
 - Refex Energy
 - Macawber BEEKAY Pvt. Ltd.
 - ENMAS EPC power projects Pvt. Ltd.
 - Jain Irrigation systems Ltd.
 - Rajdeep Buildcon Pvt. Ltd.
- And many more*

OTHER CLIENTS

- Air ports
 - Agro chemical plants
 - Cable/ electrical industries
 - Coal mines
 - Electrical utilities (Govt. Sector)
 - Electrical Utilities (Private sector)
 - Electrical testing labs/ research centre
 - Electrical contractors
 - Financial institution
 - Food processing plants
 - Furnace industries
 - Generation plants
 - Hotels
 - Hydel projects
 - Information/ electronics
 - National utilities
 - Oil processing & refining units
 - Paper mills
 - Petroleum plants
 - Pharmaceutical plants
 - Services
 - Solar/ Wind power
 - Steel/ Cements plants
 - Textile industries
- And many more*

approvals/footprints



And many more

tesla



Corporate Office

Tesla Transformers (India) Ltd.

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<https://teslatransformersindia.com>

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