

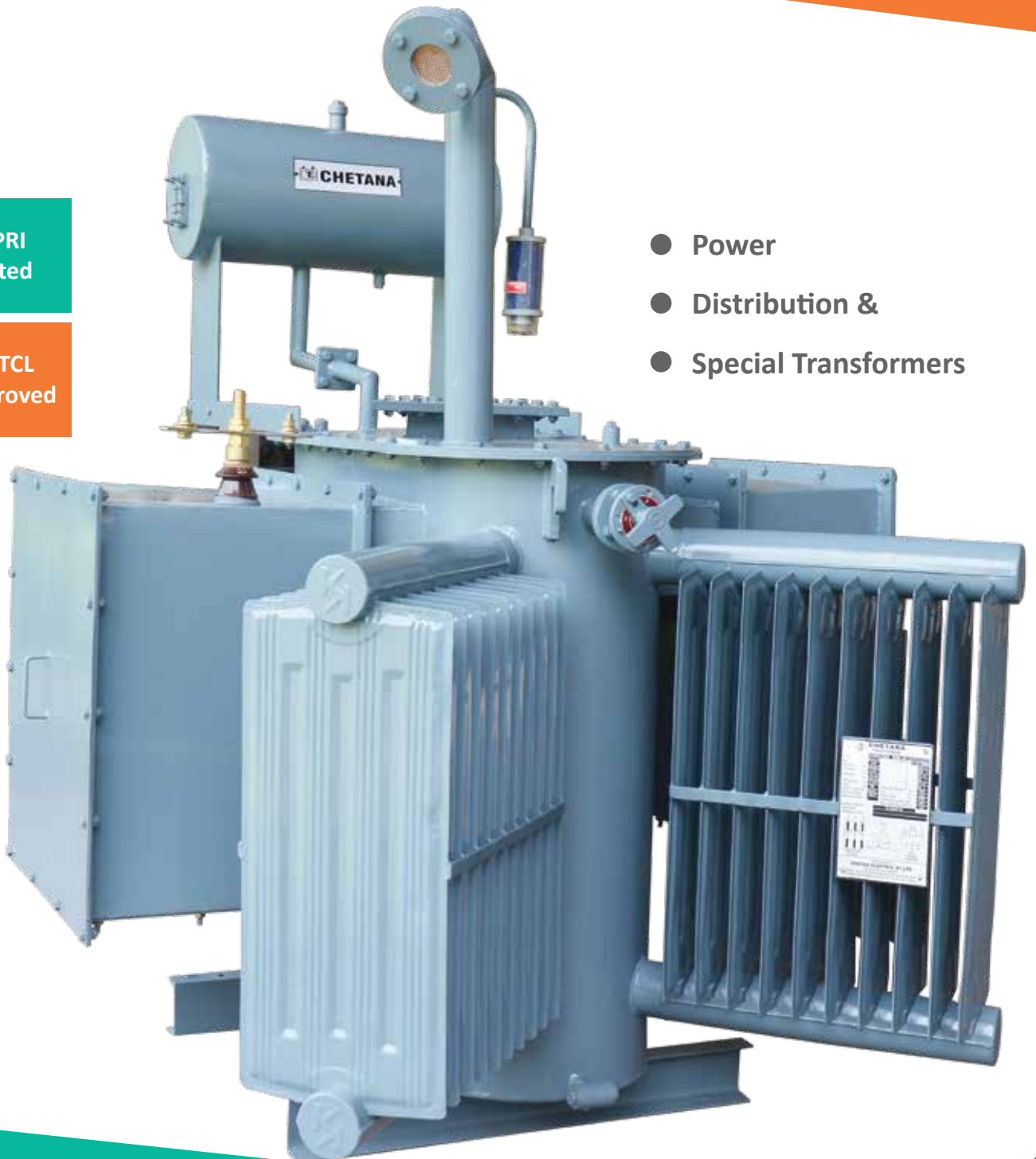


# Chetan Electric Private Limited

An ISO 9001 Certified company

CPRI  
Tested

KPTCL  
Approved

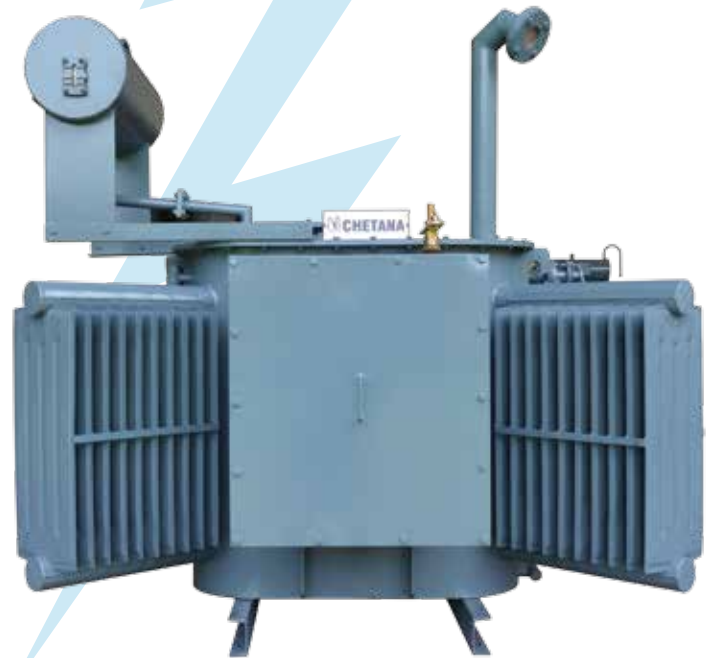


- Power
- Distribution &
- Special Transformers

# Company Profile

Established in 1994, Chetan Electric Pvt. Ltd. is an ISO certified company located at Bangalore. We, at Chetan Electric, have been dedicated to the design, development and manufacturing of a wide range of transformers. Our extensive variety of transformers include Oil Cooled, Dry Type with On Load Tap Changer along with Remote Tap Changer Cubicle automatic voltage relay and Special Application Transformers. A team of engineers having wide experience of over a decade assist us in manufacturing these transformers as per the latest engineering standards conforming to the relevant quality standards based on IS 2026 / IS 1180 and IS 11171. Transformers are manufactured employing latest engineering practice with thorough inspection at every stage of manufacture ensuring quality and reliability of these transformers. Our Transformers have been type tested successfully at C.P.R.I. Bangalore. In order to meet the needs of our esteemed consumers, we have a full-fledged factory at Veerasandra Industrial Area equipped with all modern manufacturing, testing and material handling facilities.

Our Transformers are well accepted by our customers and a large number of our products have been supplied and are in use rendering efficient and trouble free service. These transformers are approved by KPTCL for installation at Residential Apartments, Commercial Complex, Layouts, Industries, Hospitals, etc. With a number of designs, we at Chetan Electric Pvt. Ltd. are skilled at meeting the requirements of our customers for custom solutions.



## Infrastructure

The firm is founded by a team of highly experienced engineers, having two decades of experience in the field of transformers. Possessing a team of outstandingly qualified skilled workers; the company manufactures a wide range of transformers, reactors, rectifier equipments, etc. at the well equipped factory with modern manufacturing, testing and material handling facilities. With a compact and yet a robust design, use of quality raw materials, thorough inspection and quality measures at each stage make our products competent to the leading manufactures of transformers in India.

## Our Standards

Our Transformers are manufactured in accordance with IS 2026, IS 1180, IS 11171 and IEC 76, also conforms to the Specifications of Electricity Boards. These transformers are manufactured by employing modern machineries and quality control checks which are conducted at every stage of manufacturing to ensure a consistent quality of the transformers.

Our transformers are type tested at Central Power Research Institute (CPRI) Bangalore. All routine tests as per IS 2026 / IS 1180 are regularly conducted on all transformers.

# Oil Cooled Transformers



Our Oil Cooled Transformers are designed manufactured and tested as per IS 2026 / IS 1180. The transformers are manufactured using genuine quality materials of core, conductors, oil etc. to meet losses as per the relevant standards. All the transformers are tested for its routine test as per IS 2026 / IS 1180. Special Tests shall be conducted on special request.

Our range of manufacturing transformers are from 63 KVA, 11/33KV, 3 phase, 50HZ, with first filling of oil as per IS 335 and Temperature rise as 50 Deg in Oil and 55 Deg in winding and suitable for out door execution and taps on HV by OFF Circuit Tap Switch with Taps: 5% in steps of 2.5%. The painting shall be AD grey of shade 632 of IS - 5.

All the Transformers will be provided with standard fittings as per the relevant standards. Optional fittings such as Temperature Indicators, Bucholtz Relay, Magnetic oil level gauge, Marshalling box, On load tap changer with Remote Tap Changer Cubicle with automatic Voltage Relay shall be provided as per the customers requirement.

Oil Cooled Transformers are manufactured for various applications like Distribution and Power Transformers, Furnace Transformers, Auto Transformers, Auxiliary Transformers etc.



# Dry Type Transformers



Our range of Dry Type Transformers are designed, manufactured and tested as per IS 2026 and IS 11171. Dry Type Transformers are varnish-impregnated. Transformers are designed to withstand temperature rise of 90 Deg in winding with class F insulation. Dry Type Transformers are used only for indoor installations where safety plays vital role. Dry type Transformers are provided with Off Circuit links on HV side with taps in steps of 2.5%. All the Transformers are tested according to routine tests as per IS2026 / IS 11171. Special Tests shall be conducted on special request.

Our range of manufacturing Dry Type Transformers starts from 25KVA. Each Transformer shall be provided with standard fittings and optional fittings like Winding Temperature Indicators and On Load Tap Changer with Remote Tap Changer Cubicle with Automatic Voltage Relay, shall be provided as per the customer's requirement.



# Constant Voltage Transformers



**Transformers with built in stabilizers on load tap changer with remote tap changer cubicle and automatic voltage Relay.**

Transformer Output Voltage normally gets varied depending on the variation on the primary input voltage. To have a constant output voltage, it is desirable to go in for a transformer with On Load Tap Changer. We manufacture Transformers with built-in stabilizers through On Load Tap Changers with Remote Tap Changer Cubicle and Automatic Voltage Relay. The sensors sense any variation in the input voltage and suitable signals are given to the On Load Tap Changer through an Automatic Voltage relay, to alter the Primary Tap Changer to ensure constant output voltage. Once it is set, the operations are done automatically.



# Special Transformers



Special Transformer are manufactured and supplied as per our customer's requirements, which include Furnace Transformers, Rectifier Transformers, Auto Transformers and High Voltage Testing Transformers.

## **Furnace Transformers:**

The operating conditions for furnace transformers are different from the one for general use power transformer. Therefore, furnace transformers are considered to be equipped with advanced characteristics like High reliability, Sufficient Short Circuit Tolerance, Advanced Coil Drying Technique, Long Life On-load Tap Changer and Coil structure appropriate for low voltage and heavy current.

## **Rectifier Transformers:**

Used in metallurgic and chemical procedures, Rectifier transformers (also called furnace transformers) are used for their power to support the current in an extreme short-circuit. The rectifier circuit used in most electronic power supplies is the single-phase bridge rectifier with capacitive filtering, usually followed by a linear voltage regulator.

## **High Voltage Testing Transformers:**

Our High Voltage Testing Transformers are widely used for testing a extensive variety of generation, transmission and distribution apparatus.

### **Our product range also includes:**

Power and distribution transformers up to 5000 KVA 33 Kv.

Furnace transformers as customer's specification

Rectifier transformers along with rectifier equipment as per customer specification.

High voltage testing transformers upto 150 Kv for power frequency tests.

Autotransformers for motor starting duty.

Dry type transformers upto 11Kv as per specification

Iron cored reactors upto 1000 KVAR and also air cored reactors.

### **Standard Fitting For Power, Distribution Transformers**

1. Rating Diagram Plate
2. Lifting Lugs
3. Air release hole with plug
4. Dehydrating breather with Silica Gel
5. Conservator with oil filling hole with plugs plain oil level gauge.
6. Earthing Lugs
7. Thermometer pocket with plug
8. Bottom drain cum filter valve with slug
9. Pressed Steel Radiators fixed type
10. Top filter valve with plug
11. Under base Skids
12. LT Terminals with porcelain Bushings
13. HT Terminals with porcelain Bushings
14. Tap Switch with locking device.

### **Extra Fittings**

The extra fitting such as Magnetic Oil Level Gauge, Windings Temperature Indicator, Buchholz Relays, Dial Thermometers and On Load Tap Changer can be provided at extra cost as per the customer's requirements.

### **Testing Facilities**

We have a full-fledged testing facility to conduct Routine tests as per ISS, BSS and CBIP.





# Chetan Electric Private Limited

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