

# HARITHA TRANSFORMERS

An ISO 9001-2008 Certified Company



Transformers  
For Best quality &  
Efficient performance

# INTRODUCTION

As Indian power scenario is vibrant, a group of technocrats and well experienced engineers established Haritha Transformers in 2016. The ambition of starting this unit is to offer Quality Transformers at Affordable Prices. This team is in this transformer field since 20 years. A adequate manufacturing infrastructure & testing facilities are established for producing up to 5000KVA in 33KV class. Haritha Transformers is certified for ISO 9001 : 2008 and follows international quality standards. Haritha Transformers successfully type tested transformers both for impulse & short circuit at CPRI and got approved star rating from bureau of energy efficiency (BEE), approved from BIS

# QUALITY POLICY

We at Haritha Transformers are committed to achieve highest level of customer satisfaction by providing quality transformers which will be attained through continually improving our quality management systems and our manufacturing and servicing process by adopting latest technology.

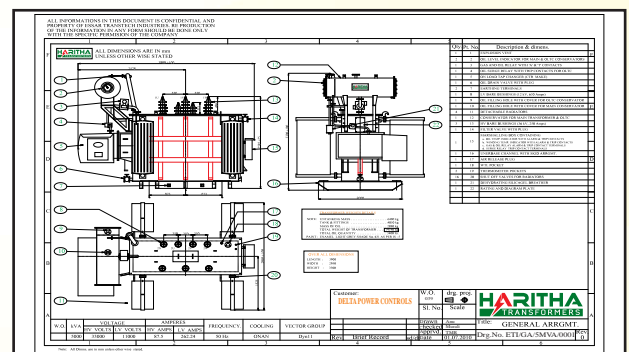
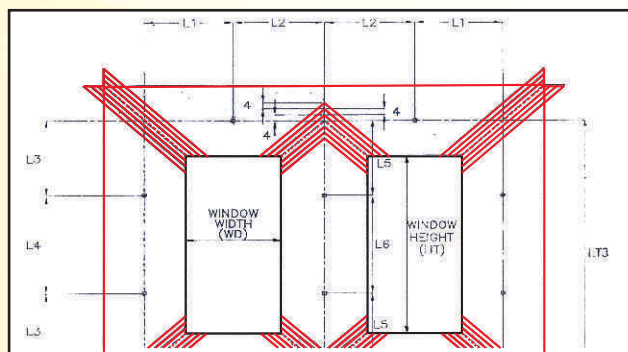
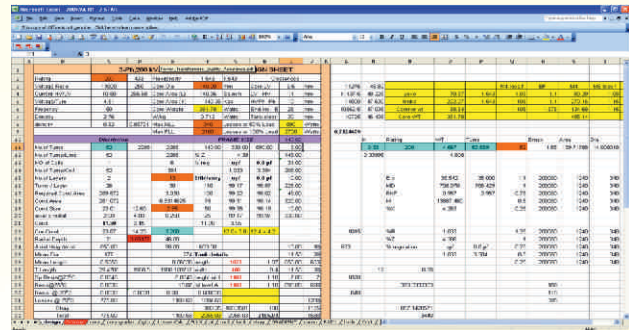
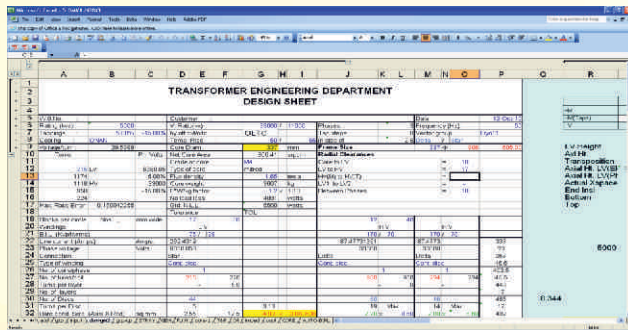
# QUALITY ASSURANCE

Haritha Transformers believes in strict quality adherence by adopting following methods in ensuring supply of reliable equipment

- Accurate designs as per customer needs
- Purchase of materials from proper sources
- Verification of all incoming materials
- Checking all stages of production processes before they proceed to next stage
- Verification of final product by testing as per national standards
- Prompt after sales service
- Implementing quality management systems as per ISO 9001 : 2008 norms



# DESIGN CAPABILITY



- Designs as per customer specification
- All Designs as per is 2026 IEC 60076, ANSI standards
- Short circuit with stand capability
- Steplap core designs for low losses & low noise
- CAD generated manufacturing drawings
- Mechanical strength with stand pressure and vacuum testing

## BASIC RAW MATERIALS & COMPONENTS

- Prime raw materials used in transformer
- Superior conductivity electrolytic grade wires/ strips with paper & super enamel insulation for winding
- Cold rolled grain oriented silicon steel laminations of different grades for cores
- Better class insulation of press board, kraft paper & perma wood for insulation material
- Low viscosity high dielectric strength quality of oil
- Mild steel tank fabricated by certified welders
- HV & LV bushings of high quality brass / copper parts with porcelain insulators
- Gas operated & oil surge relays
- Pressure relief valves / relief vent
- Winding & oil temperature indicators

# Manufacturing Process

## Core Assembly

Assembled from low-loss cold-rolled-grain-oriented steel which is manufactured considering step lap method.

To reduce losses and noise level, core is bonded with special resin and assembled with minimal air gaps.

## Windings

All windings are made by experienced and qualified winders.

All windings are made with Electro-lytic gradem high conductivity, paper covered or synthetic enameled copper conductor.

All windings are designed to withstand shortcircuits and minimize copper losses.

## Core coil assembly

After completion, windings are placed on individual limbs of cores.

Proper insulation scheme, spacers and re-blading, routing of cables and bus bar brazing ensured.

## Heat Drying Prosses

Completed core coil assembly is dried in pre heated ovens and high temperature is maintained to prevent any moiture in the core coil assembly, untill completely dry.

## Final Assembly

Fully dried core coil assembly is inserted in tanks made of hot rolled steel plates welded together to withstand pressure.

After fixing all fittings & accessories, tanks are pressure tested in hot oil condition.

Transformers are painted as per customer requiements and paint thickness is checked and maintained to final finished product

## FINAL TESTING

The following Routine Tests (as per IS 2026 1977 & IEC 60076 ANSI) are carried out on all Transformers at our in house computer aided test lab

- Measurement of Insulation Resistance.
- Voltage Ratio and Vector Group Test.
- Measurement of Winding Resistance.
- Measurement of No Load Loss and Magnatising Current.
- Measurement of Load Loss and Impedance voltage.
- Induced Over Voltage withstand Test.
- Separate Source Voltage withstand Test.
- Oil BDV Tests

The Company has full-fledged Computer aided Test facilities to carry out above Tests in house.

The following Special / Type Tests can be carried out as per customer requirement.

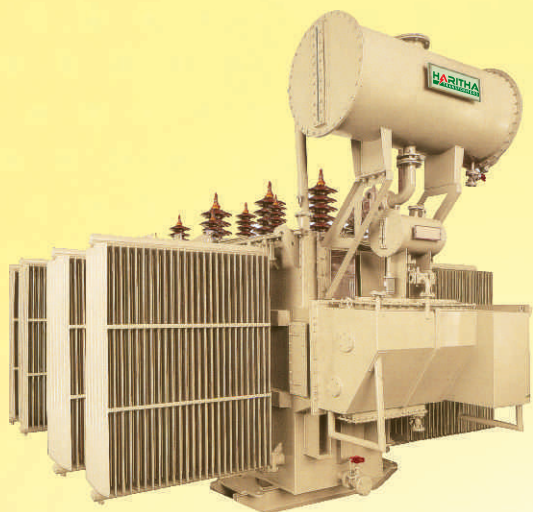
- Short Circuit Test (Dynamic & Thermal)
- Lightning Impulse Test (Chopped)
- Temperature Rise Test

# PRODUCTS

## Distribution Transformer

Range from 10KVA to 1000KVA of 11 KV, 22KV, 33 KV class with OLTC / OCTC, with and without CSP feature (CSP feature available upto 315 KVA) and optional fittings.

As per IS 2026, 1180 specifications.



## Power Transformer

Range from 1 MVA to 5 MVA of 33KVA class with OLTC / OCTC and optional fittings.

As per IS 2026, 1180 specifications.

## Special Transformers

Various types of special transformers as per customer requirements

1. Corrugated Tank Transformers
2. Furnace Transformers
3. Earthing Transformers
4. Isolation Transformers
5. Multi winding Transformers



**HARITHA**  
TRANSFORMERS

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Manufacturing & Repairing of Power & Distribution Transformers

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