

AN ISO 9001:2015 COMPANY



archit  
electricals pvt. ltd.



Demagnetizer

Desalter Transformer

Heater Treater Transformer

High Current Source

Induction Heater

6Phase Rectifier Module

Ultra Isolation Transformer

Water Cooled High Frequency Transformer

Oil Cooled Transformer



# We are

## P R O F E S S I O N A L

ARCHIT ELECTRICALS PVT.LTD Incorporated in May 1988, has been certified as an ISO 9001:2015. The company is located in POR near Vadodara city of Gujarat state (India) with all latest technology infrastructure and state of the art facilities.

At ARCHIT ELECTRICALS we are committed to quality and in time delivery of our products and services with constant R&D and continuous improvement in design and process we have achieved ZERO FAILURE mark.

We provide on-site servicing /overhauling of transformers. Our on-site services are available on both a scheduled and emergency basis.



## DEMAGNETIZER

We are manufacturing a Demagnetizer in various sizes & specifications as per customer requirement. These Demagnetizer produce strong alternating current inside the window and work pieces are passed through this window to remove magnetism from the work pieces. These demagnetizers are very powerful and efficient and can remove magnetism from materials such as: bearing steel, high speed steel, die steel, spring steel and off course mild steel. These can be used for inline production process. A roller conveyer can be fitted from inside the window for continuous operation in production.

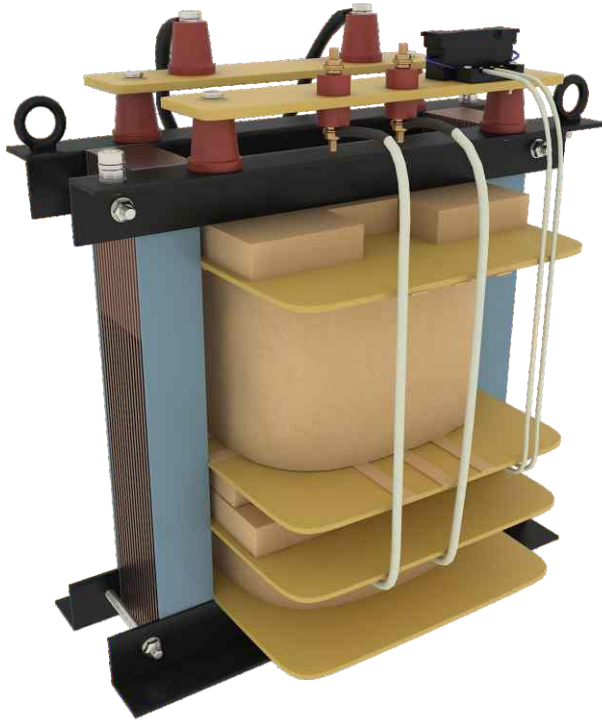
# Products

## DESALTER TRANSFORMER

Desalters used to remove water and salt from crude oil. Standard 100% reactance units have a range of output voltages (12 to 25 kV) and power levels (5 to 60 kVA).

The 5 output taps enable customers to optimize on the most suitable voltage based on crude oil conductivity, viscosity, and API gravity. Also supplies double half wave DC output unit (positive and negative) for dehydration of refined oils with low conductivity.





## HEATER TREATER TRANSFORMER

Heater Treater Transformers are so designed that their short-circuit current withstand capacity is continuous. With our state of the art technologies we are able to develop this type of special equipment as per customer requirement. Heater Treater transformers have been tested at one of India's finest laboratory "ERDA" and have been approved to be supplied over in gas zones with high in flammability. We have been supplying these transformers to ONGC.

# Products

## HIGH CURRENT SOURCE

High Current Source up till 10000 Amp. Are manufactured in our establishment. Our design is so done that we get a negligible voltage drop even though of high current. Our equipments are given all protections in case of overloads, short circuit, earth fault etc. Very easy & safe to use.





# INDUCTION HEATER

Bearing Induction Heaters are a modern and easy way of fitting bearings without damaging it. Our induction heaters are equipped with digital non conduct type thermal sensor to give an accurate temp. Monitor with auto cut off timer there is no chance of getting the bearings damaged. We use high frequency flux which does not allow the bearing to get magnetized and in addition to it an auto demagnetizer circuit installed is a safety precaution.



# WATER COOLED HIGH FREQUENCY TRANSFORMER

Purpose of developing this transformer was to give a compact , light weight, durable and cost effective solution. Tailor made as per customer requirements specially for high frequency welding purposes.



# ULTRA ISOLATION TRANSFORMER



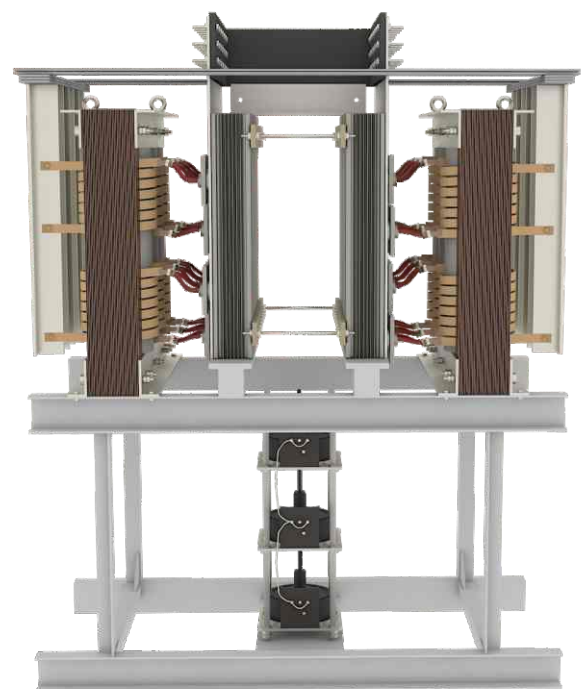
Very specially designed to eliminate common mode noise as it has an additional capability to create separately derived source to combat current loops. It has an isolated primary & secondary along with neutral and ground. Core with unique properties which exhibit sufficient leakage inductance to attenuate noise with proper transfer of fundamental properties. Split winding construction are bifilar corrections are developed to reduce looping capacitance of winding. Enclosure is shielded so that it totally blocks electronic noise and minimizing static charges or R.F. noises

## 6 PHASE RECTIFIER MODULE

A Rectifier transformer is a special application transformer which includes diodes and thyristors in the same tank. Voltage regulation may also be included. Rectifier transformers are used for industrial processes.

A Six phase rectifier module consists of 5 limb transformer connected double star with diodes and thyristor for regulation.

This transformer is specially built to get six phase & 12 pulse for minimum ripple noise & voltage drop.



# OIL COOLED TRANSFORMER

We are manufacturer of special type oil cooled Transformer like Furnace Transformer , Solar Transformer , Wind Transformer , Dual Primary & Dual Secondary etc upto 2.5 MVA



# Products





# Services

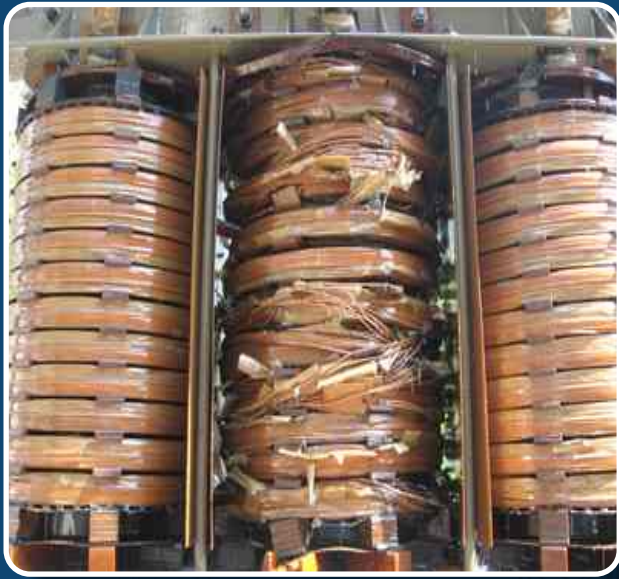
## TRANSFORMER REWINDING/ REPAIRING

Our clients can avail from us high quality and reliable Transformer Rewinding Services at industry leading prices. Our services in standard and customized specifications for meeting various industrial needs of the clients.

Our engineering teams offers a full range of rewinding service for your transformers, which could be performed on almost every kind of transformers in production today. Rewinding could be a little expensive, however if the voltage or VA ratings are unknown or the transformer is need to be a critical size then rewind might be the only option. Also rewinds can be used for the following purposes too:

- Replace damaged or aged windings
- Achieve increase rating
- Reduce losses
- Improve impulse withstand rating and insulation system
- Alter voltage ratios and taps.

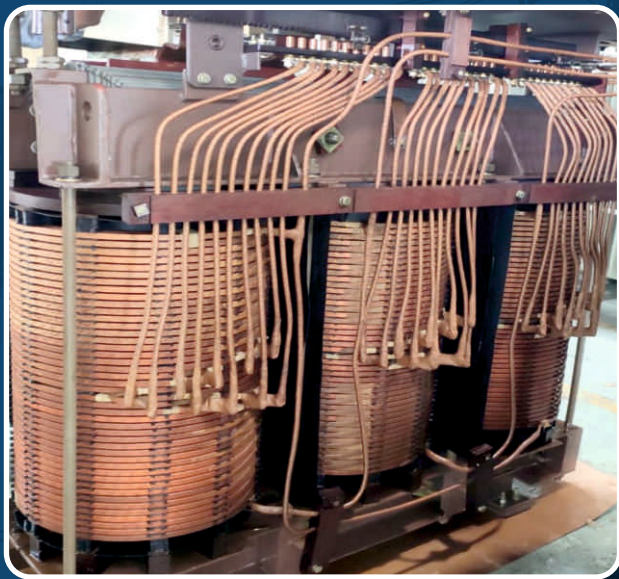
We also offer Rewinding & Servicing of Series Reactor , Dimmerstat, High frequency water cooled choke, High Frequency water cooled spot welding transformer etc.



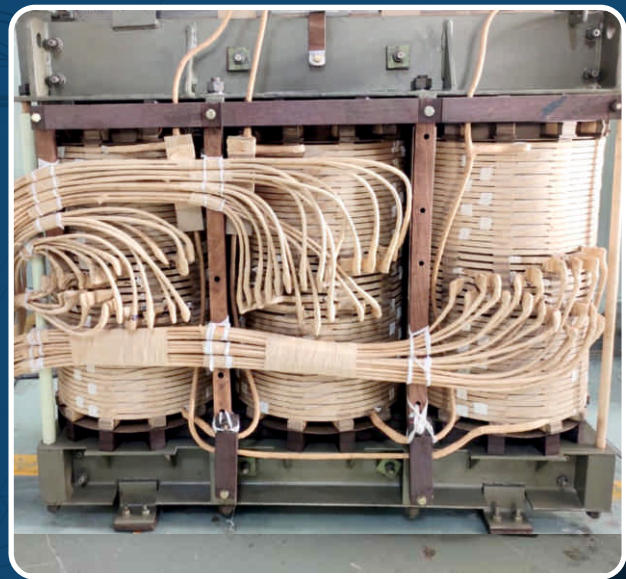
**1500 KVA BEFORE REWINDING**



**1500 KVA AFTER REWINDING**



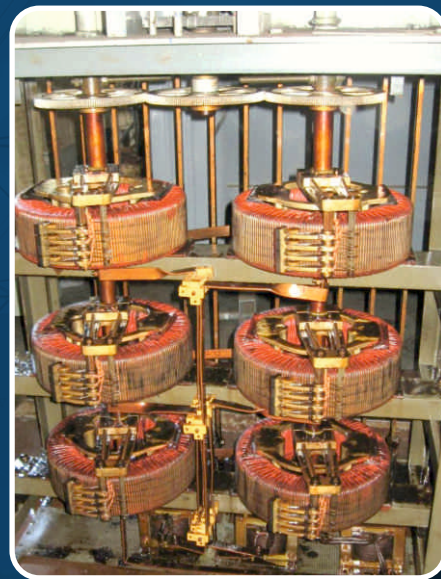
**2 MVA BEFORE REWINDING**



**2 MVA AFTER REWINDING**



**33 KV SERIES  
REACTOR**



**DIMMERSTAT  
400 AMP**



**15 MVA TRANSFORMER**



**30 MVA TRANSFORMER**



**20 MVA TRANSFORMER**



**25 MVA TRANSFORMER**

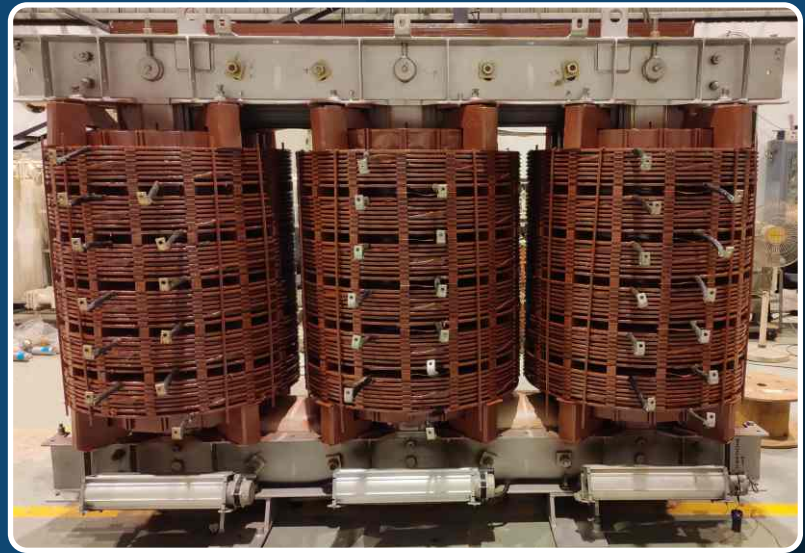


**FAULT ANALYSIS OF 25 MVA TRANSFORMER**

# 11 MVA DRY TYPE INVERTER DUTY TRANSFORMER REWINDING



**COIL INTER TURNS FAULT**



**11 MVA FAULTY TRANSFORMER**



**NEW COIL BEFORE VPI**



**NEW COIL ASSEMBLY**



**NEW COIL AFTER VPI**



**JOB TANKING**

# 8.5 MVA CONVERTER DUTY DRY TYPE TRANSFORMER REWINDING



**DAMAGED TRANSFORMER**



**DAMAGED TRANSFORMER**



**FLASHOVER BETWEEN COILS**



**INDIVIDUAL COILS AFTER  
DISMANTLE**



**CORE BEFORE CLEANING  
& REINSULATING**



**CORE AFTER CLEANING  
& REINSULATING**

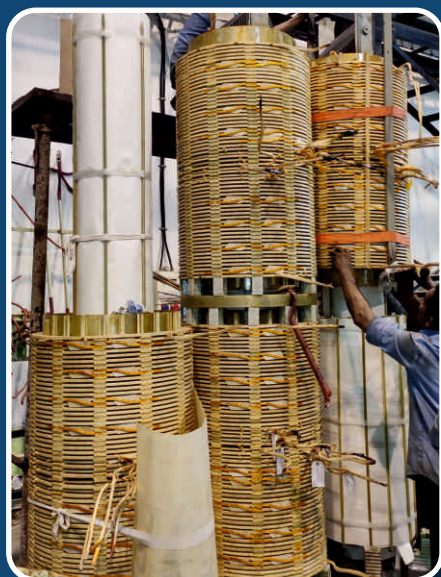
## 8.5 MVA CONVERTER DUTY DRY TYPE TRANSFORMER REWINDING



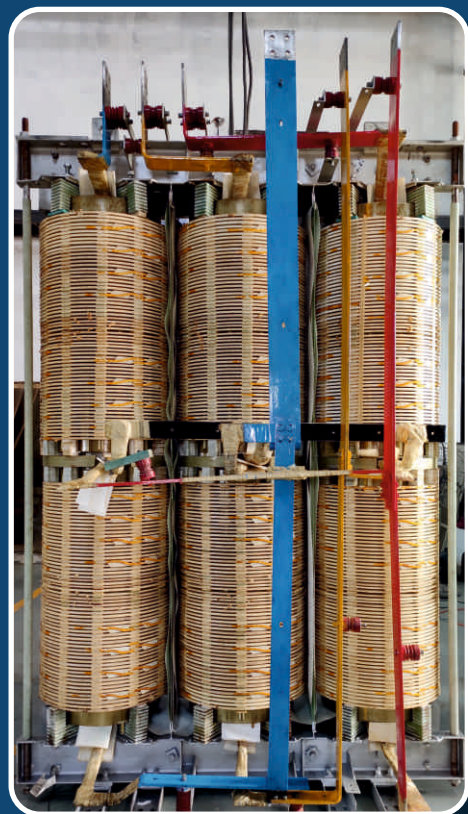
**NEW COIL BEFORE VPI**



**NEW COIL AFTER VPI**



**AFTER CORE & COIL  
ASSEMBLY**

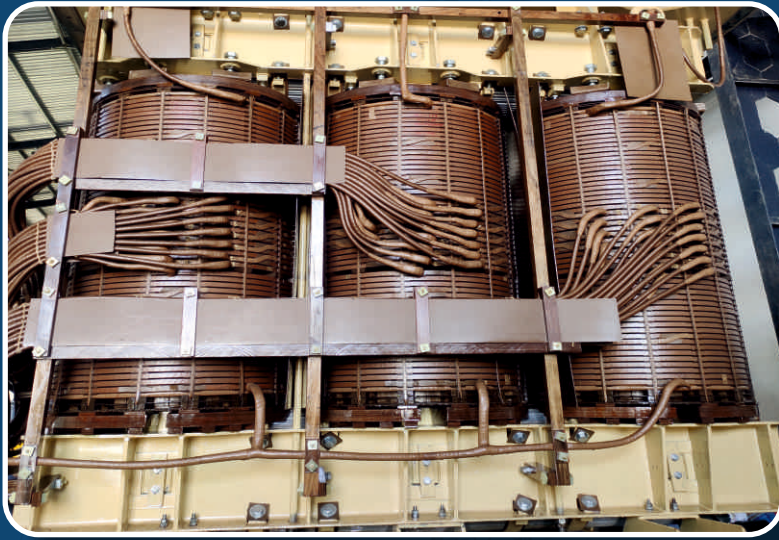


**NEW COIL ASSEMBLY**



**FINAL ASSEMBLY**

# 26.5 MVA TRANSFORMER REWINDING



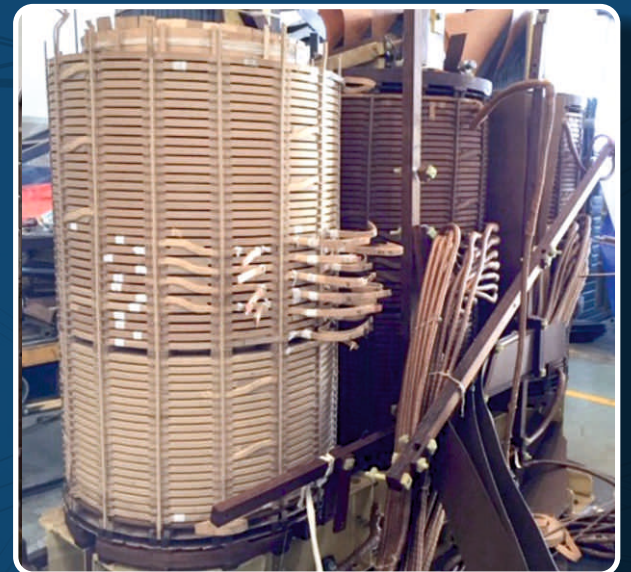
UNTANKING



COIL INTER TURNS DAMAGE



DISMANTLE OF COIL



NEW COIL REWIND



NEW COIL ASSEMBLY



FINAL TANKING & TESTING

# TRANSFORMER OVERHAULING

We have all the required resources like advanced equipment and efficient workforce to offer the Transformer Overhauling Service. We can plan interval based maintenance which can greatly help in reducing catastrophic breakdown . This service can also be personalized as per the requirement and specification of the customers.

The overhauling process is highly required to enhance the life of the Transformer Our highly professional and expert team has helped us in successfully providing to these services .

Our engineering team inspects each and every part of the transformers after its complete dismantle and rectifies the abnormalities whatever observed and bring it back to its original condition for a trouble free, safe and efficient operation.

We are specialize in the offering Overhauling & servicing of all types of transformer like transformer Repair, Oil Leakage Arresting , OLTC repair & overhauling, Gasket replacement , Transformer spares replacement, IR value improvement , Heating & N2 purging, Modification in offload to onload tap changer, cleaning of core & windings by hot oil jet to remove dirt & sludge, attending general disorder on core coil assembly , Radiator fin oil leak Repair, Transformer painting, Transformer Testing Service, Reactor Overhauling & servicing , Annual Maintenance Contract & On site Transformer Overhauling & Service, etc



**100 MVA TRANSFORMER**

AN ISO 9001:2015 COMPANY



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