TAHOOR

POWER SOLUTIONS

CERTIFIED ISO 9001:2015 CERTIFIED

IMPORT AND EXPORT

APPROVED CE APPROVED

TAHOOR

POWER SOLUTIONS

MANUFACTURER ALL TYEPS OF TRANSFORMERS SERVOSTABILIZERS,CONVERTER,REACTOR CHOKES, METAL FABRICATION,PEB STRUCTURE WORKS

CONTACT : + 91 9944786096 LANDLINE : 0422 - 2644812 E-Mail : sales@tahoorpowers.com Website : www.tahoorpowers.com
OFFICE : NO 5A/1, KALIYAMMAL COLONY, APPANAICKENPALAYAM ROAD, THUDIYALUR, COIMBATORE - 641 034. TAMILNADU - INDIA

Mission (what we do)

Vision (what we aspire to be)

Core Values (what we believe)

VISION

To continually develop, innovate and use latest technologies & processes that will help us provide better equipment & services, meeting the international standards. To expand & diversify our market & products to satisfy our customer.

MISSION

To develop lasting Client relationships by providing exceptional stakeholder value in an environment of trust and respect.

CORE VALUES

These are our core values:

- Integrity;
- HSE;
- Quality;
- Reliability;
- Teamwork;
- Trust.

Our Pledge

- We, from the esteemed organization of TAHOOR pledge our allegiance to the upliftment and growth of TAHOOR industries.
- We also pledge that we would work towards goals set by the Company and would deliver products with utmost quality and in-time.
- We would keep our workplace safe and clean by following all the environment, health, and safety protocols.
- We would thrive to reach excellence for the growth of self, customer satisfaction and the company…

Organization Chart

TAHOOR POWER SOLUTIONS MANAGEMENT

J.RAJKAPHOOR

Chairman

- Marketing Dept.
  - Purchase Dept.

J.HASSAN MOHAMED

Managing Director

- Accounts Dept.
- Production Dept.
  - Production Manager
    - Production In charge
      - Winding Dept.

J.HAKEEM

Technical Director

- R&D Dept.
  - Production Dept.
    - Quality Manager
      - Assembly Dept.
        - Testing Dept.

B.ASSALAM

MD, CEO

- Secretary
  - HR Dept.
    - Customer Relationship Officer
      - Sales Dept.
        - Product Dispatch Dept.

Infrastructure-Unit 1

Office


6'S
SAFETY
SUSTAIN
SHINE
STANDARDIZE
SET IN ORDER
SORT
RESTRICTED AREA


6S to Success


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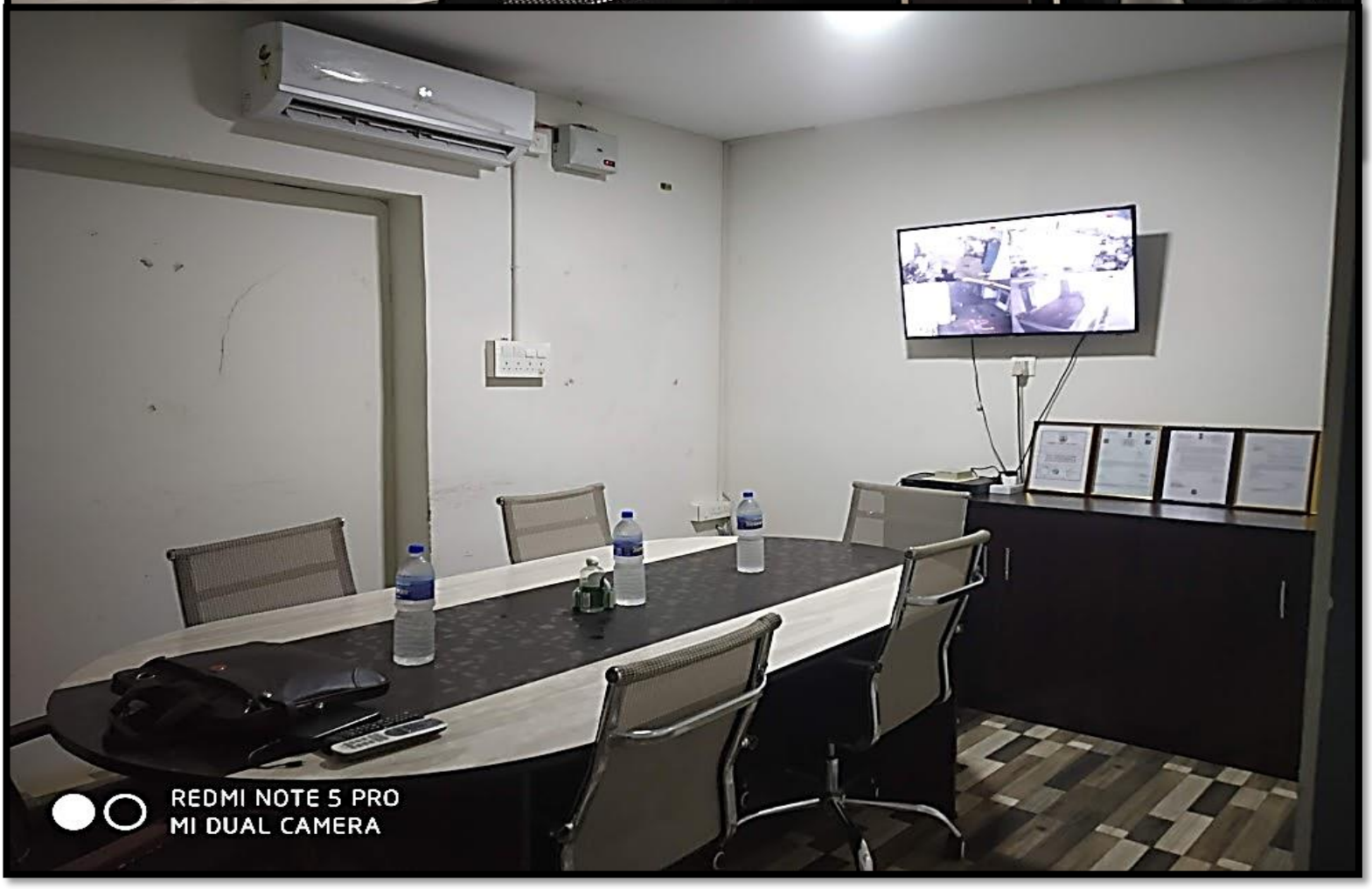
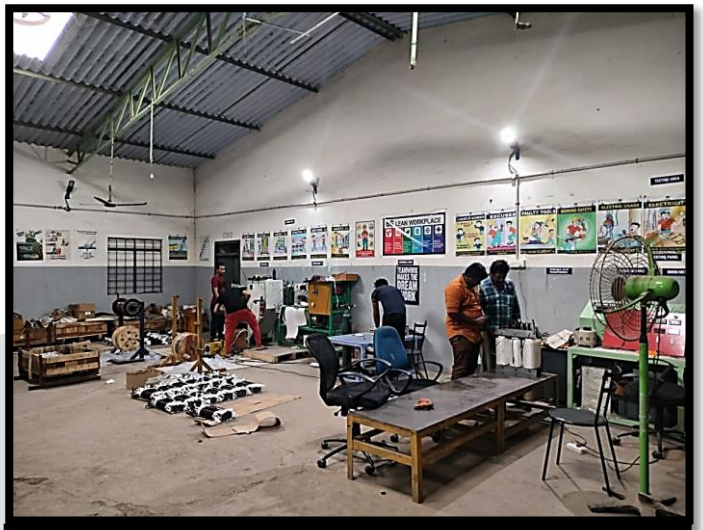
EVERY
PROBLEM
OPPORTUNITY
SOLUTION
NO ENTRY

MD-Conference Room



Winding Unit

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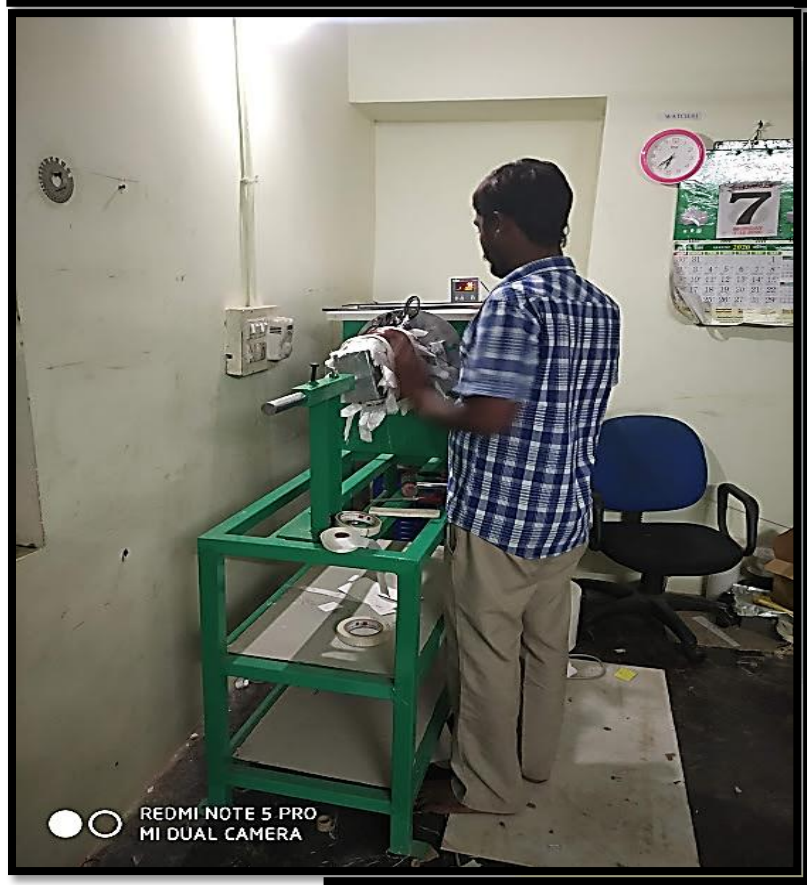
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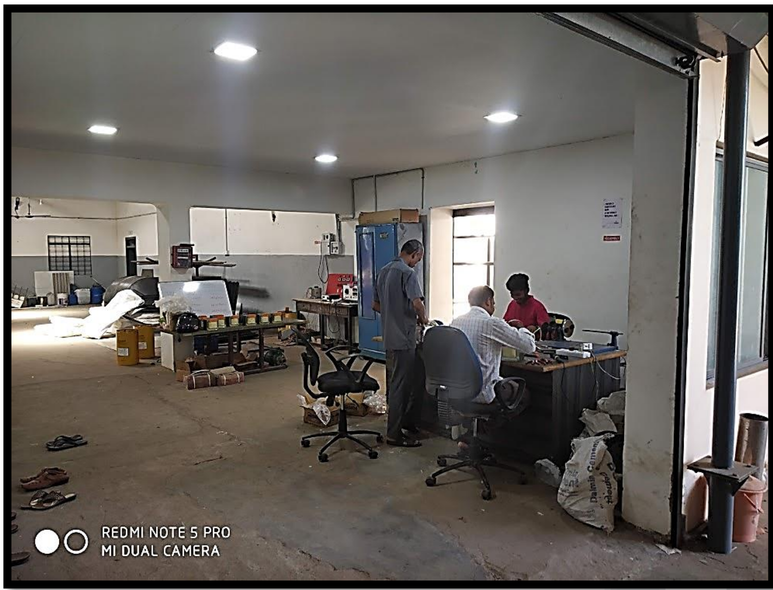
WINDING AREA
SEIRI 1S
REMOVING UNWANTED ITEMS
SEITON 2S
SETTING IN ORDER
SEISO 3S
CLEANING THE WORKPLACE
SEIKETSU 4S
SHITSUKE 5S
SAFETY 6S
6S LEAN WORK
TEAMWORK MAKES THE DREAM WORK


WINDING AREA
SEIRI 1S
REMOVING UNWANTED ITEMS
SEITON 2S
SETTING IN ORDER
SEISO 3S
CLEANING THE WORKPLACE
SEIKETSU 4S
SHITSUKE 5S
SAFETY 6S
6S LEAN WORKP
ASSEMBLE AREA
TEAMWORK MAKES THE DREAM WORK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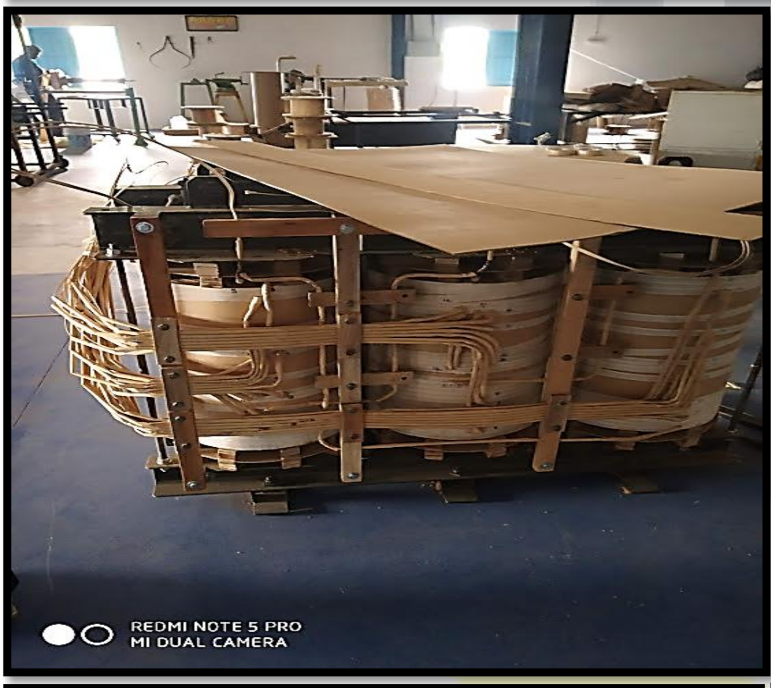
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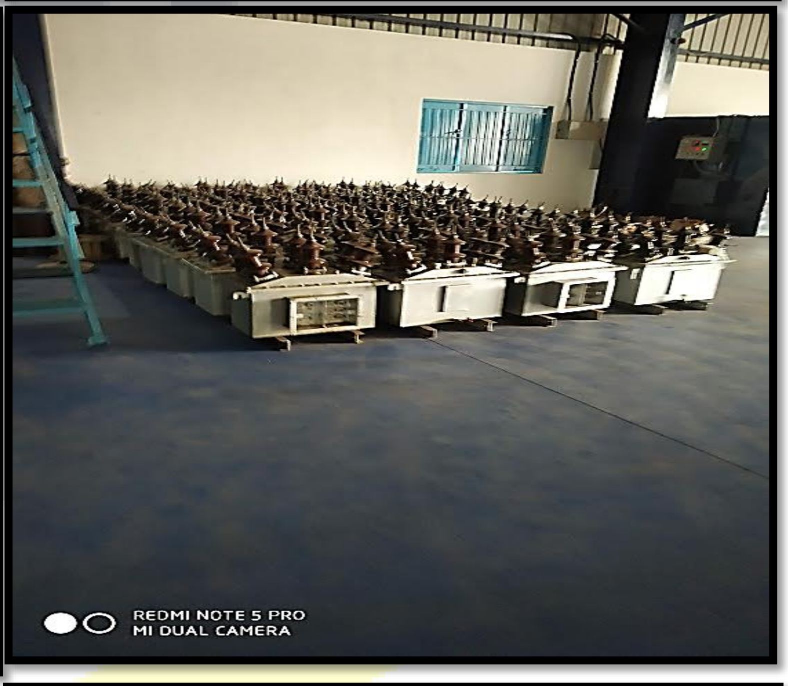
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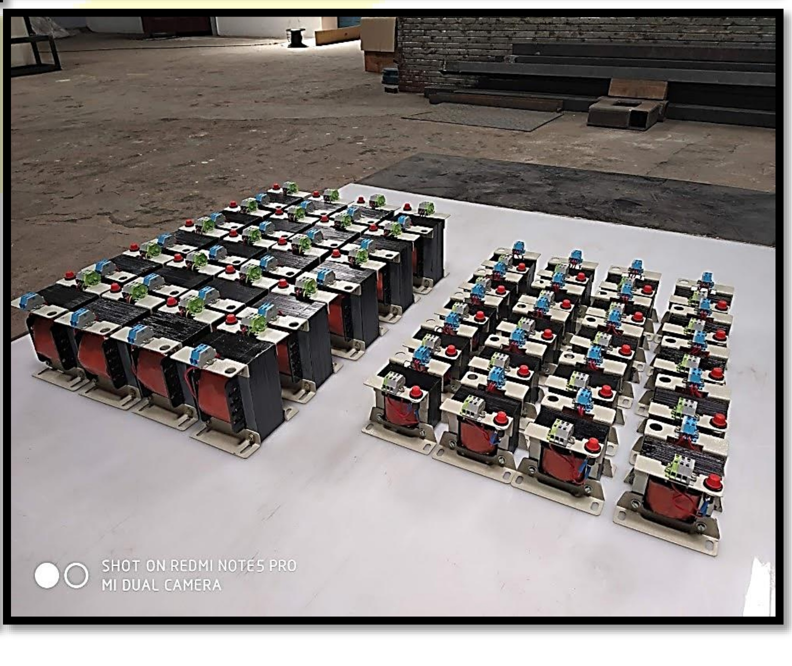
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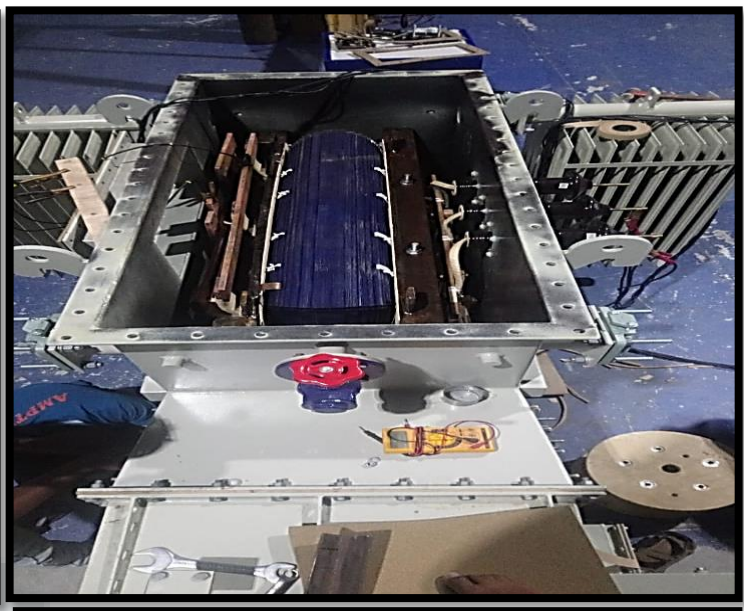
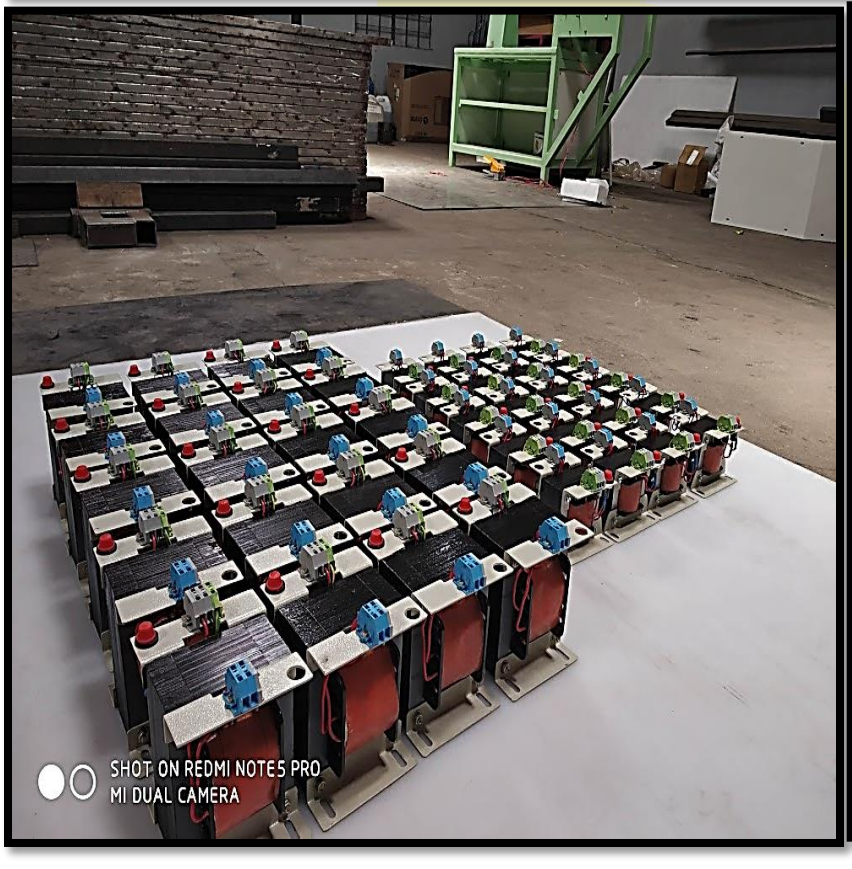



ENERGY EFFICIENT
LEVEL 2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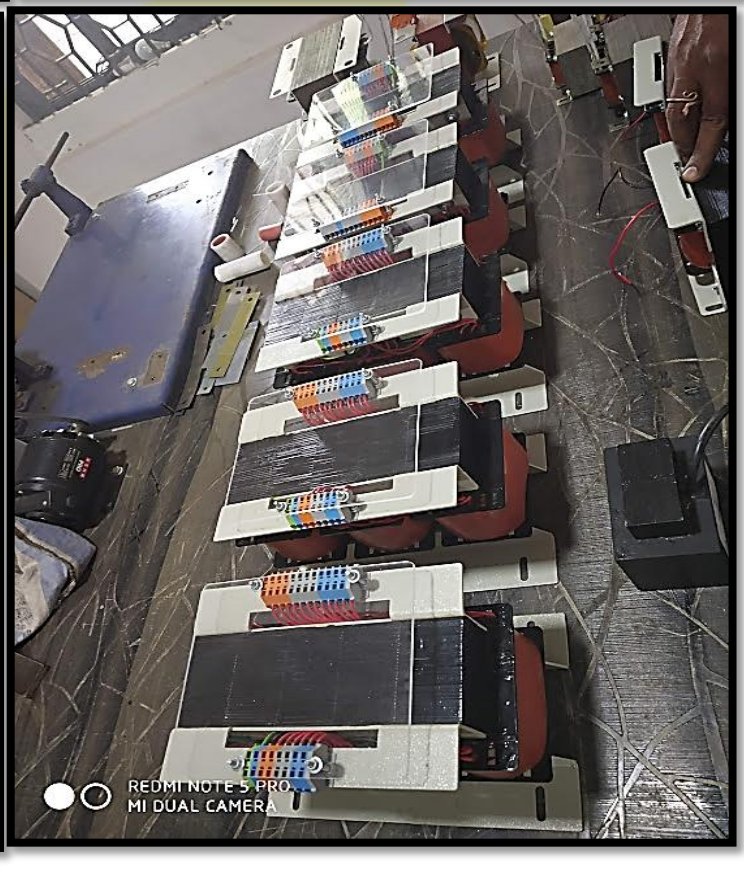
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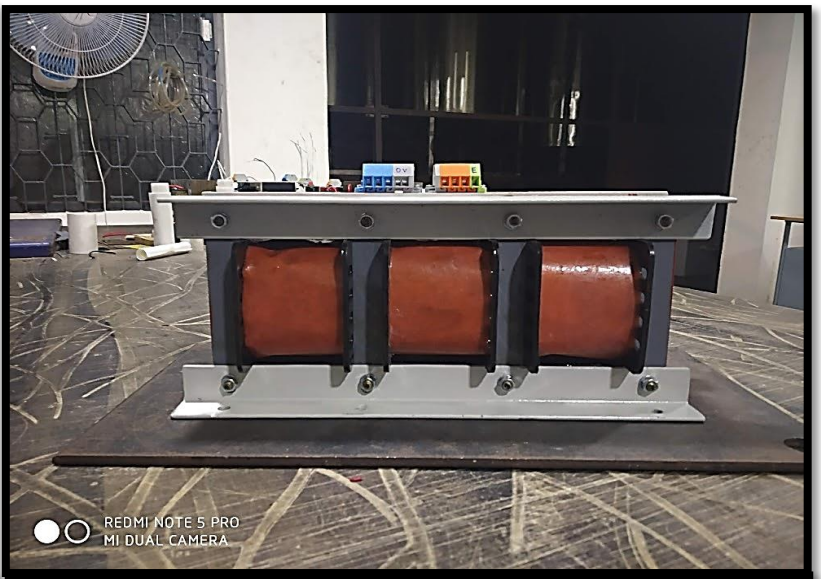
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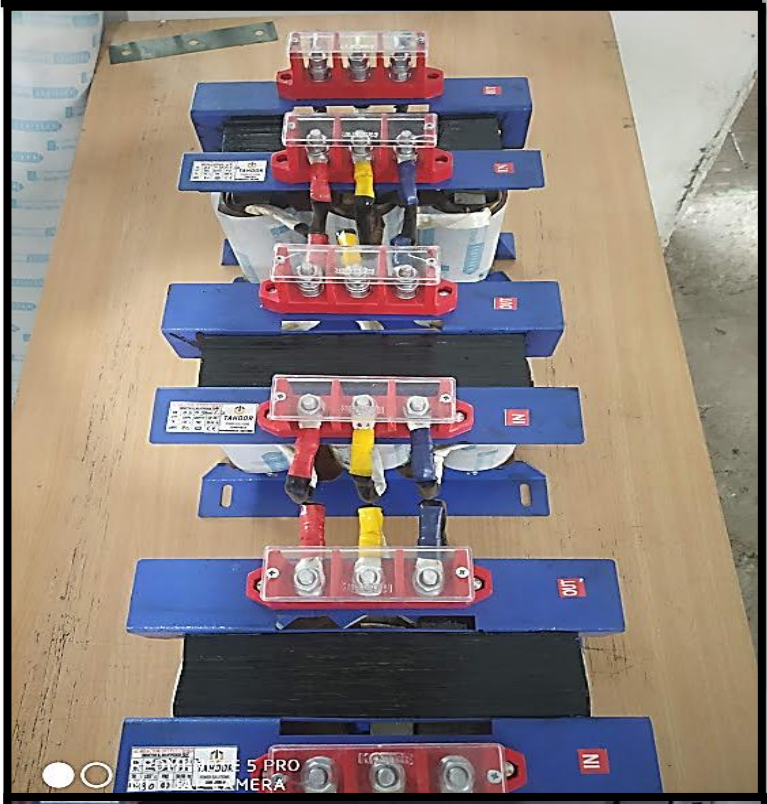


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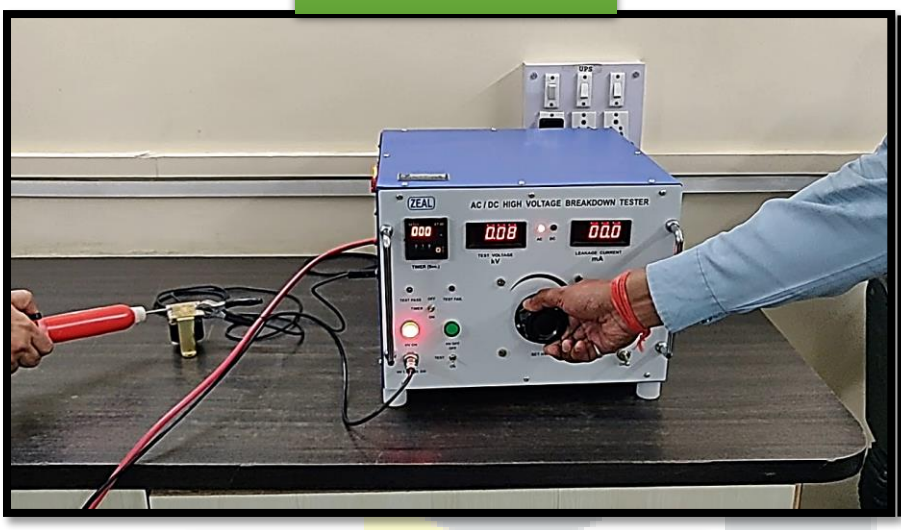
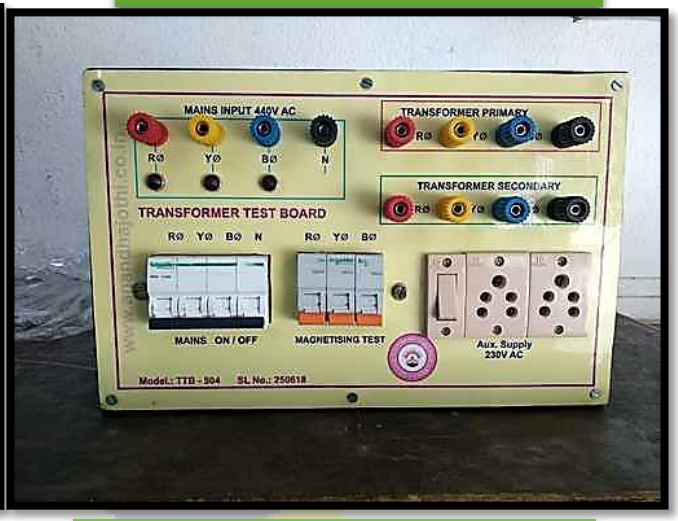
Testing Unit

HV-Tester



Test Board



Testing Panel

Heating Chamber

Load Tester

LCR Meter

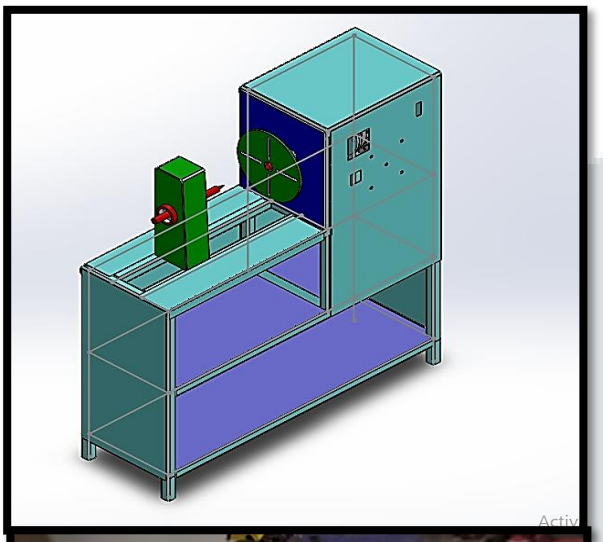
Ohms Meter

Variac

The Following TEST

- Measurement Insulation of Resistance.
- Measurement of winding Resistance
- Measurement of voltage ratio and check the vector relationship
- Measurement of no load current and no-load loss as per std Is-1180
- Measurement of Impedance voltage/ short circuit impedance (principle tap) & Load loss.
- Dielectric test of oil
- Separate source voltage test
- Induced over voltage test
- Magnetic balance test
- Pressure Test:

Own Design with Fabrication unit

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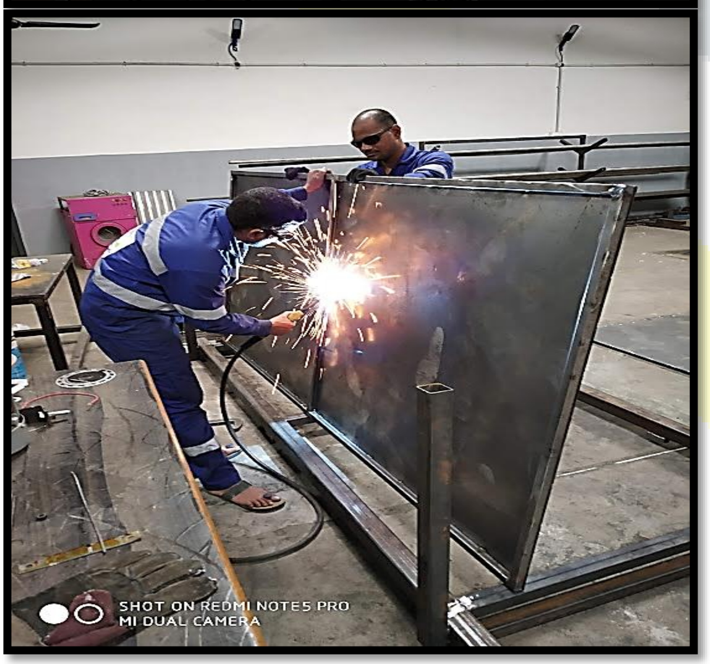
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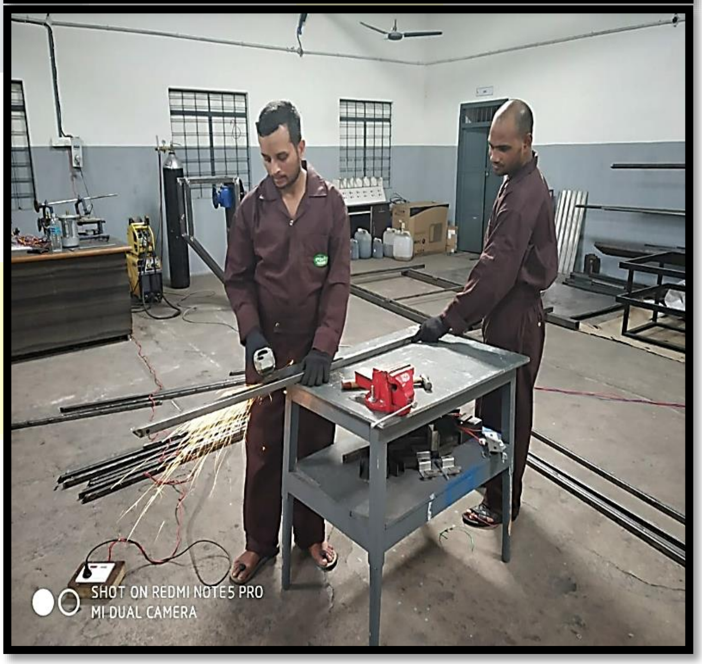
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Recognition Certificate

QUALITY MANAGEMENT SYSTEM

Certificate of Registration

ROHS

This is to Certify That The Quality Management System of

TAHOOR POWER SOLUTIONS

NO 5A/1, KALIAMMAL COLONY, APPANAICKEN PALAYAM ROAD,
THUDIYALUR, COIMBATORE - 641034, TAMIL NADU, INDIA.

has been assessed and found to conform to the requirements of

ISO 9001:2015

for the following scope :

MANUFACTURER OF TRANSFORMERS, SERVOSTABILIZERS AND REACTOR CHOKES

Certificate No	**19DQGA34**		
Initial Registration Date	: 12/12/2019	Issuance Date	: 12/12/2019
Date of Expiry*	: 11/12/2022		
1st Surve. Due	: 12/11/2020	2nd Surve. Due	: 12/11/2021

DIRECTOR

ROHS Certification Pvt. Ltd.

408, Madhuban Building, 55, Nehru Place, New Delhi - 110 019, India
phone : +91.11.41525522 | e-mail : info@rohscertification.co.in | website : www.rohscertification.co.in
*The Registration is not a Product Quality Certificate. *Subject to successful completion of surveillance audits. Visit for verification on www.rohscertification.co.in*
Certificate is the property of ROHS and return when demanded.

MEMBER OF MULTILATERAL RECOGNITION ARRANGEMENT IAF

eiac
مركز الإمارات العالمي للاعتماد
Emirates International Accreditation Centre
035-CB-QMS

Quality Certification * Quality Certification * Quality Certification

Certificate of Compliance

Application of Council Directive for Electrical & Electronic
& LVD 2006/35/EC

TAHOOR POWER SOLUTIONS

NO 5A/1,KALIAMMAL COLONY,APPANAICKEN PALAYAM ROAD
THUDIYALUR ,COIMBATORE - 641034,
TAMILNADU INDIA.

Product Descriptions

MANUFACTURER OF TRANSFORMERS ,
SERVOSTABILIZERS AND REACTOR CHOKES

CE

This certificate of compliance is based on the technical file of above mention Produc

Certificate Number : 1920/CEQSC/CCLIX

Date of Issue :-24/12/2019 Valid upto:-23/12/2022

For AS QUALITY MANAGEMENT CERTIFICATION
D-75, Nehru Garden, Khore Colony

UKG

CE Registered
Quality Approved

Quality Certification * Quality Certification * Quality Certification

Annexure -I Certificate No - 1920/CEQSC/CCI

Certificate of Compliance

TAHOOR POWER SOLUTIONS

CE

This Certicate reffered to below covers the following products like:-

- ✓ Transformer Manufacturing
- ✓ Reactor Choke
- ✓ Servo Stabilizer Manufacturing
- ✓ Electrical & Electronic Products
- ✓ On -Line Ups
- ✓ Electrical Control Pancls
- ✓ Solar Systems
- ✓ Manpower Services

For AS QUALITY MANAGEMENT CERTIFICATION
D-75, Nehru Garden, Khore Colony

UKG

CE Registered
Quality Approved

KEBS KENYA BUREAU OF STANDAROS SGS

PRE-EXPORT VERIFICATION OF CONFORMITY (PVoC)

CERTIFICATE OF CONFORMITY

Page 1/1

Importer

Exporter

भारत सरकार
Government of India
सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय
Ministry of Micro, Small and Medium Enterprises

MSME

UDYAM
REGISTRATION CERTIFICATE

UDYAM REGISTRATION NUMBER	UDYAM-PB-12-0016011
NAME OF ENTERPRISE	ARUN KUMAR - INDIA'S NO.1 SEO AGENCY
TYPE OF ENTERPRISE *	MICRO (Based on FY 2019-20) (MICRO During FY 2018-19)
MAJOR ACTIVITY	SERVICES
SOCIAL CATEGORY OF ENTREPRENEUR	OBC
NAME OF UNIT(S)	S.No. / Name of Unit(s) / 1 / India
OFFICAL ADDRESS OF ENTERPRISE	Flat/Door/Block No. 194 / Name of Premises/ Building / Tibba Road / Village/Town / Tibba Road / Block / Tibba Road / Road/Street/Lane / GT Road / City / Ludhiana / State / PUNJAB / District / LUDHIANA , Pin 141007 / Mobile / Email / info@arunseo.com
DATE OF INCORPORATION / REGISTRATION OF ENTERPRISE	20/02/2018
DATE OF COMMENCEMENT OF PRODUCTION/BUSINESS	
NATIONAL INDUSTRY CLASSIFICATION CODE(S)	S.No. / NIC 2 Digit / NIC 4 Digit / NIC 5 Digit / Activity / 1 / 73 - Advertising and market research / 7310 - Advertising / 73100 - Advertising / Services
DATE OF UDYAM REGISTRATION	25/01/2021

* In case of graduation (upgradation/re-categorization) of status of an enterprise, the benefit of the Government Schemes will be availed as per the provisions of Notification No. S.O. 2119(E) dated 26.06.2020 issued by the Min. MSME.

Disclaimer: This is computer generated statement, no signature required. Printed from https://udyamregistration.gov.in & Date of printing - 06/04/2022

For any assistance, you may contact:

1. District Industries Centre: LUDHIANA (PUNJAB)
2. MSME-DI: LUDHIANA (PUNJAB)

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Field Of Applications

Cement plants

Flour Mills

Clubs

Engineering units

Hotels

Pharmaceutical units

Hot & cold Rolling Mills

Rich Shellers

Textile mills

Paper mills

Rubber

Cold Storages

Food processing unit

Food Ware

Leather Units

Distilleries & Beverages

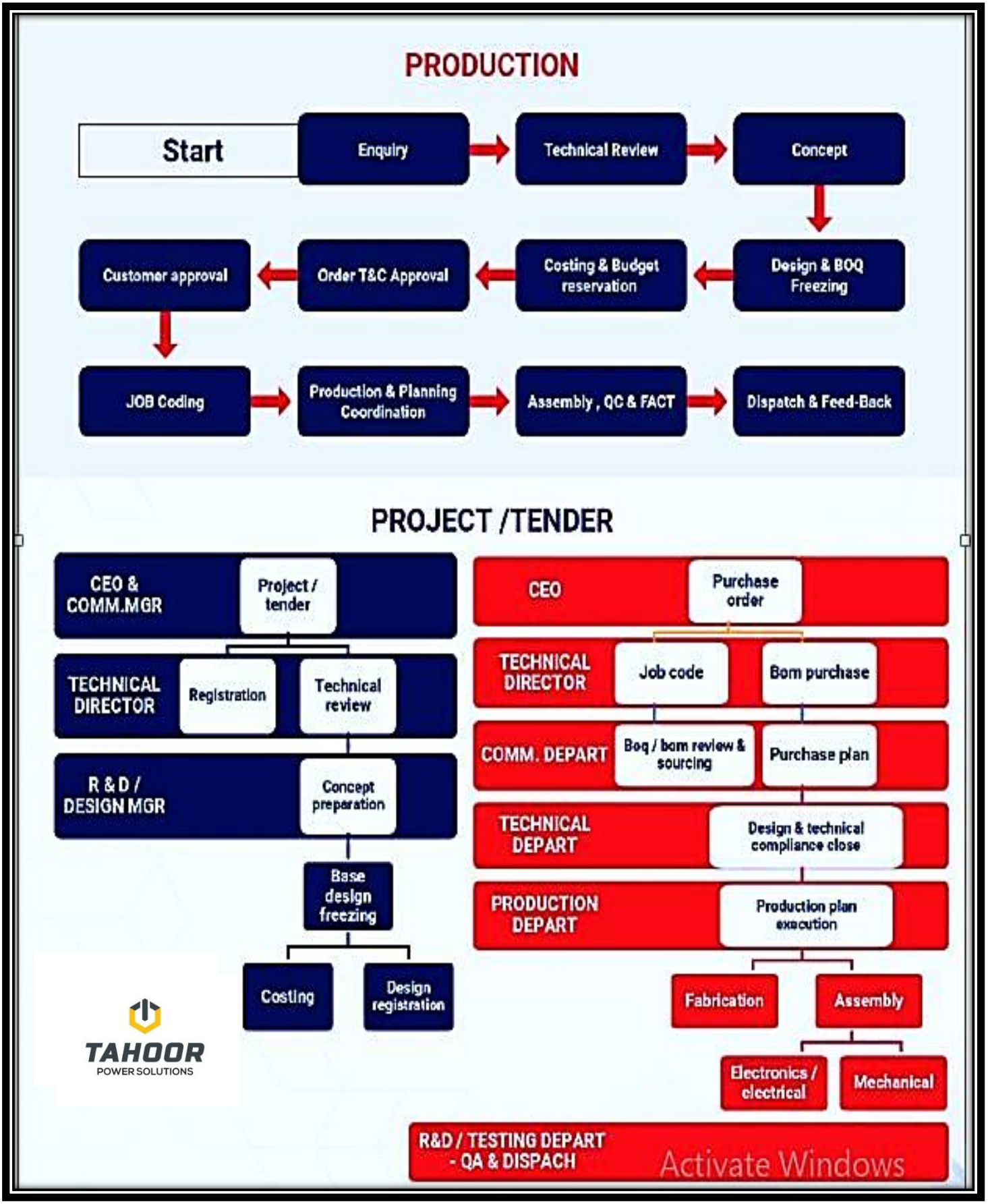
Tube Mills

Oil & Vanaspati Plants

High Rise Buildings

TAHOOR
POWER SOLUTIONS

TPS-Work Process



Our Products

TAHOOR POWER SOLUTIONS

Manufacturer :- Transformers, Servo Stabilizers, Reactor Chokes,Metal Fabrication,PEB Structure Works

Isolation Transformer
Customer Spec-3Ph1Ph

UltraIsolation Transformer
Customer Spec-3Ph1Ph

Control Transformer
Customer Spec-3Ph1Ph

Auto Transformer
Customer Spec-3Ph1Ph

INPUT Choke
Customer Spec-3Ph1Ph

OUTPUT Choke
Customer Spec-3Ph1Ph

Servo Stabilizer Oil Cooled
1Ph,3Ph:3KVA to 5000KVA

Servo Stabilizer Air Cooled
1Ph,3Ph:3KVA to 5000KVA

Converter
1Ph To 3Ph:2Ph To 3Ph

Motorised Variable AutoTransformer

Oil Cooled Rectifier

K- Rated Transformer
Customer Spec-3Ph1Ph

Distribution Transformer
1Ph:Up to 33KV,200KVA
3Ph:Up to 33KV/433V,500KVA

Power Transformer
3Ph:Up to 5000KVA

Furnance Transformer
Up to 5000KVA

Dry Type Transformer
3Ph:Up to 5000KVA

Potential Transformer
5VA to 200VA

CT PT Coil Combined Unit
3Ph,1Ph

WindMill Transformer
1Ph:Up to 33KV,200KVA
3Ph:Up to 33KV/433V,500KVA

MultiTapping Transformer
Customer Spec

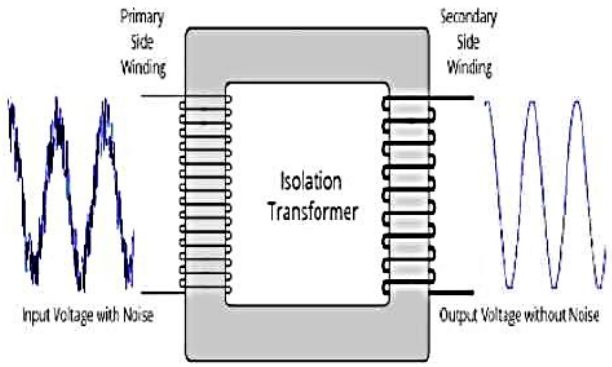
Oil Immersed Transformer
Customer Spec

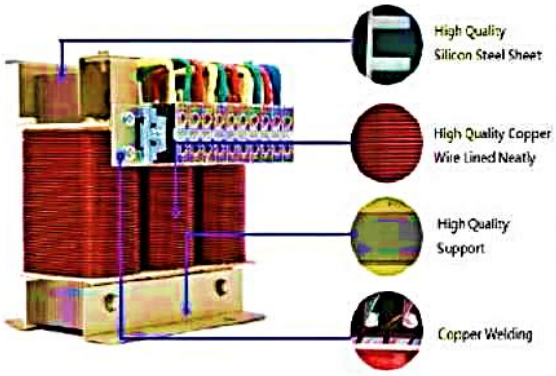
Pre-Engineering Building Structure Works
Customer Spec

TAHOOR
POWER SOLUTIONS

Transformers

ISOLATION TRANSFORMERS





TECHNICAL SPECIFICATION

INPUT	OUTPUT	RATING AVAILABLE
400V AC 3 PH	400V AC 3 PH	1 KVA TO 2000 KVA
230V AC 1 PH	230V AC 1 PH	1 KVA TO 20 KVA
Or as per requirement		Both Oil & Dry type
System Connections		Delta/star(as per requirement)
Ratios		Delta /Star (as per requirement)
Regulation		5%
Insulation resistance		Better then 5Mega ohm
Coupling capacitance		0.01 PF for 100Db
Leakage current		Less than 20 Micro Amps
Type of Execution		Closed Type
Operating Temperature		0 c to 45 c
Type of Cooling		ONAN/Natural Air/Forced air

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POWER SOLUTIONS

K-RATED ISOLTION TRANSFORMERS

K factor is a value used to determine how, much harmonic current a transformer can withstand without exceeding its maximum temperature level. Huge numbers of single phase loads like computer also creates a non- linear harmonic. A standard transformer cannot handle the harmonics due to non-linear loads. When harmonic enter into the transformer the core gets saturated, as result it produces lot of heating causing the failure of the transformer. K Rated transformers are specially designed to withstand this non-linear harmonic. K rating differs according to the harmonics level like K-1,K-4,K-7, k-13, and K-20

RESIN CAST TRANSFORMERS

Cast resin transformers are characterized by the conductors of winding being embedded in an enclosed resin body completely with a smooth surface. Cast resin transformers is used where safety, pollution and economy matters. Beta power controls Resin cast transformers are designed to withstand toughest environment conditions and offer high level of reliability even under the toughest condition. Our resin cast transformer can be installed in E4 environment class.

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FEATURS OF BETA RESIN CAST TRANSFORMER

1. High security
2. Reduced cost
3. Low fire risk
4. Maintenance free
5. Completely sealed winding
6. High mechanical strength for the winding
7. High grade core with minimum losses

STEP UP /STEP DOWN AUTO TRANSFORMERS

An auto transformer is a device where same part of the winding acts as primary and secondary side of the transformer. Auto transformer is often used to step up and step down the voltages. Auto transformer does not provide Electrical isolation between the winding.

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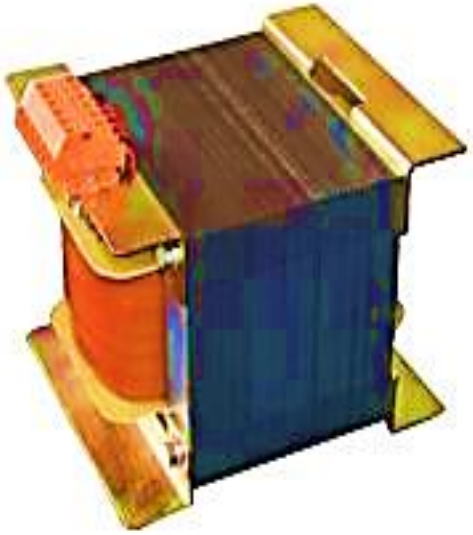
In an auto transformers primary & secondary are connected magnetically and electrically insulated Step up transformers is one whose secondary voltage is greater than primary voltage. This kind of transformers used to "STEP Up" the voltage applied to it.

Step Down transformer is one whose secondary voltage is lower then primary voltage. This kind used to "STEP DOWN" the voltage applied on it.

CONTROL TRANSFORMER

A Control transformer are to supply power to control and auxillary equipments which are not intended to connect direct supply. Control transformers are used to control supply voltage for control circuits of AC starter motor i.e starter coils, timers, indicating lamps, electronics protection relay, etc., A control transformer is used to supply control power thus allowing lower, safer and more efficient control circuit voltage to be used in high working voltage applications. The excellent inrush current handling characteristics of the transformer also makes the system more efficient.



STEP UP / STEP DOWN AUTO TRANSFORMER

Step up transformers is one whose secondary voltage is greater than primary voltage. This kind of transformers used to "Step Ups" the voltage applied to it.

Step Down transformers is one whose secondary voltage is lower than primary voltage. This kind of transformer used to "step down" the voltage applied on it.

TAHOOR POWER SOLUTIONS

DRIVE INPUT & OUTPUT CHOKES

Utilizing variable speed drives to control motor speed has impacted industry in energy saving and increased efficiencies. The challenges for today's designers is dealing with non- linear waveform generated by solid state devices. By choosing our line reactor, many line problems can be eliminated. Additionally performance life expectancy of both the motor and the drive itself are significantly enhanced.

TUNED & DETUNED HARMONIC FILTER REACTORS

De tuned Filter Reactors, are used in series with capacitor banks in power factor correction units. By using these type of detuned reactors it is possible to avoid following effects on system.

- Over current during switching on the capacitor banks
- Overload of capacitor banks because of the harmonic resonance
- Short lifetime on capacitors
- Overheating of the utility transmission cables
- Overheating of the protective devices
- Unintended of utility voltage waveform and problems on voltage sensitive devices
- Interferences on data tranmission systems
- Unexplainable faults in electronic boards

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DISTRUBUTION TRANSFROMER

The Distribution Transformers receive high electrical power from Electricity Board or Power Utilities and converts to low electrical power and distribute them to many consumers and networks.Normally 500 KVA Rating and 11 KV/433 V within the range are called Distribution Transformers.

- Rating : 1 Ph: up to 33 KV, 200 KVA
  3 Ph: up to 33 KV/433 V, 500 KVA
- Frequency : 50/60 Hz
- Applicable Standards : IS-2026, IEC-76, ANSI.C.57
- Core : Mitre Type, Stack
  CRGO, Laser Type
- Winding : Copper/Aluminium
- Insulation Fluid : Mineral Oil, IS-335
- Class of Insulation : Class – A
- Cooling : ONAN
- Tap Changing : Off circuit Tap Changer
  On Load Tap Changer

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Submit

STANDARD ACCESSORIES

Rating Plate, HV/LV Bushings with fittings, Lifting & Jacking Lugs, Silica gel Breather, Thermometers, Filter & Drain valves, Tap changers, Earthing Terminals.

OPTIONAL ACCESSORIES

HV/LV Cable Boxes, Pressure Relief Valve, On load Tap changers with RTTC Panel, Oil Temperature Indicator, Double Float Buchholz Relay, Winding Temperature Indicator, Magnetic Oil level Gauge and Arching Horns.

Distribution Transformer is an electrical transformer which is received electrical energy from primary circuit and distributes electrical energy to various power utilities center. This electrical energy is differing from commercial consumers, residential consumers and light industry consumers.

We are manufacturing Distribution Transformers from 25 KVA to 2000 KVA 3 Phase. The Transformers can work at different voltage and frequency level according to the standard prevailing in various countries.

APPLICATIONS AND USES

- Power Utilities leave less than 750 KW connected loads
- Transmission and Distribution Equipments
- Data processing Equipments
- Telecommunication System
- Testing and Measuring Systems
- Machine Tools
- Commercial complex, Hospitals, Industrial Power Distribution System

POWER TRANSFORMERS

Power Transformer is an electrical transformer which receives voltage from power system and delivers in another form of voltage i.e. High voltage to Low voltage and vice versa with same frequency. Mainly it receives low voltage with high current and transmits high voltage with low current. It is primarily used in Substations and Power Generation Stations.

We are manufacturing up to 10 MVA capacities with the 66 KV Insulation level with frequency level according to the standards.

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POWER SOLUTIONS

- KVA : Up to 5000 KVA
- Primary Voltage(HV) :11 KV, 22 KV, 33 KV
- Secondary Voltage(LV) : Up to 1000 V
- Frequency : 50 Hz
- Phase : Three Phase
- IVector Group : DYN 11
- Loses : As per IS Standard
- Temperature :50°, 55°
- Tapping : Off circuit Tap Changer
  On Load Tap Changer

STANDARD ACCESSORIES

Rating Plate, HV/LV Bushings with fittings, Lifting & Jacking Lugs, Silica gel Breather, Thermometers, Filter & Drain valves, Tap changers, Earthing Terminals.

OPTIONAL ACCESSORIES

HV/LV Cable Boxes, Pressure Relief Valve, On load Tap changers with RTTC Panel, Oil Temperature Indicator, Double Float Buchholz Relay, Winding Temperature Indicator, Magnetic Oil level Gauge and Arching Horns.

Distribution Transformer is an electrical transformer which is received electrical energy from primary circuit and distributes electrical energy to various power utilities center. This electrical energy is differing from commercial consumers, residential consumers and light industry consumers.

We are manufacturing Distribution Transformers from 25 KVA to 2000 KVA 3 Phase. The Transformers can work at different voltage and frequency level according to the standard prevailing in various countries.

APPLICATIONS AND USES

- Power Generating Stations
- Substations
- Transmission Systems

FEATURES

- Linear Tap Switch with OLTC
- Pressure Relief Valve
- Magnetic type oil level indicator
- Cover mounted core-coil assembly
- Morshelling box with mercury control switch for temparature indication

FURNACE TRANSFORMERS

The Furnace Transformer is an electrical transformer which is used for furnace to melt the Iron. It is custom designed and confirm with the customers specification. We manufacture Oil cooled furnace transformers comply with furnace duty and to suppress harmonics to necessary arrangements.The Furnace Transformers are very high current in secondary side with low voltage. For these high secondary currents, special bushings are required to connect to the busbars.

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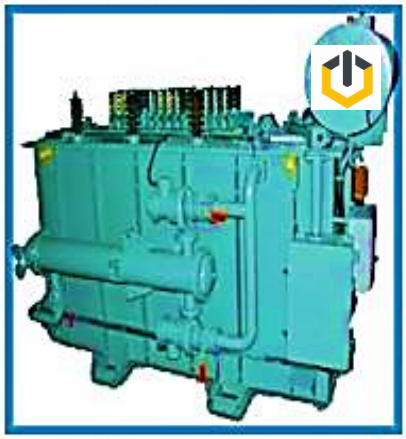

- Capacity : Up to 5000 KVA
- Voltage : 33 KV to 100 V
- Short circuit impedance : 5%-10.5%
- No load current : Less than 2% from full
- Losses :No load loss fully comply with IS and IEC standards
- Arrangements : 50°, 55°
- Connections : Delta/Star
- Cooling : ONAN/ONOF
- Tapping : On load with OLTC or Off circuit Tapping arrangements

APPLICATIONS AND USES

Inductions and Arc Furnace are used in steel Industry for melting Iron and for refining steels. Other Applications are:

- Melting glass and ceramics
- Manufacturing or refining many other materials
- E.g.: Ferrochromium, Ferromanganese, Semiconducting base materials

FEATURES

- Low loss and Low noise
- High Efficiency
- Low partial Discharge
- High Mechanical strength and short circuit withstand ability
- Operation Reliability and Easy Maintenance

POTENTIAL TRANSFROMERS

The potential transformers are operating high voltage. Normally the input supplies like 11 KV, 22KV and 33 KV is converted to 110 V. It is used for both Protection and measuring electrical power and measuring instruments. This is type tested by our industry.

SPECIFICATION :

- VA Rating : 5VA to 200VA
- Class of accuracy : 0.1 to 0.2
- Voltage level : From 11KV to 66 KV
- Voltage factor :1.2 cont
- IInsulation level : up to impulse level

ACCESSORIES:

- Suitable Control Panel

FEATURES

- Compact Size
- Less maintenance cost
- Cheap
- High accuracy level
- Withstood high short circuit level and impulse level

DRY TYPE TRANSFROMER

The Distribution Transformers receive high electrical power from Electricity Board or Power Utilities and converts to low electrical power and distribute them to many consumers and networks.Normally 500 KVA Rating and 11 KV/433 V within the range are called Distribution Transformers.

- KVA : Up to 5000 KVA
- Primary Voltage(HV) :11 KV, 22 KV, 33 KV
- Secondary Voltage(LV) : Up to 1000 V
- Frequency : 50 Hz
- Phase : Three Phase
- IVector Group : DYN 11
- Loses : As per IS Standard
- Temperature : 50°, 55°
- Cooling : Air with suitable enclosure

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STANDARD ACCESSORIES

Rating Plate, HV/LV Bushings with fittings, Lifting & Jacking Lugs, Silica gel Breather, Thermometers, Filter & Drain valves, Tap changers, Earthing Terminals.

OPTIONAL ACCESSORIES

HV/LV Cable Boxes, Pressure Relief Valve, On load Tap changers with RTTC Panel, Oil Temperature Indicator, Double Float Buchholz Relay, Winding Temperature Indicator, Magnetic Oil level Gauge and Arching Horns.

Distribution Transformer is an electrical transformer which is received electrical energy from primary circuit and distributes electrical energy to various power utilities center. This electrical energy is differing from commercial consumers, residential consumers and light industry consumers.

We are manufacturing Distribution Transformers from 25 KVA to 2000 KVA 3 Phase. The Transformers can work at different voltage and frequency level according to the standard prevailing in various countries.

FEATURES

- Compact Size
- Less maintenance cost
- Reduce cast
- High Efficiency
- High Electric intensity
- Saves over long service periods

CT PT COMBINED UNIT

We are leading manufacturer of this CT PT Combined Unit. We manufacture and supply the 11KV, 22KV and 33KV CT PT Units. This is mainly used for measuring the electrical energy, the consumed unit is depends upon this CT PT Combined Units. So it has very accuracy level.

SPECIFICATION :

CT Details	PT Details
Ratio 11 - 22 - 33 KV/110 V	Ratio upto 300/5 - 1
VA - 100	Burden - 15
Frequency 50 Hz	Frequency 50 Hz
Three Phase	Single Phase
Accuracy - 0.2 Class	Accuracy - 0.2 Class
Insulation 28/75-50/125-70/170	Insulation 28/75-50/125-70/170
Oil Cooled	Oil Cooled

ACCESSORIES:

- Standard

FEATURES

- Compact Size
- Less space requirement
- Low maintenance
- Strong Insulation level
- High Short circuit withstand capacity
- High Impulse voltage withstand level
- High accuracy class like 0.2s class

WINDMILL TRANSFORMERS

The Wind Mill Transformer is working with Step down voltage and Step up voltage with same frequency. This transformer operates fluxuation voltage and current while varying wind speed. This transformer is specially designed because it has withstood heavy short circuit current and Impulse voltage.

We are manufacturing custom based transformers up to 2500 KVA and 33 KV Insulation level.

- Rating : 1 Ph: up to 33 KV, 200 KVA
  3 Ph: up to 33 KV/433 V, 500 KVA
- Frequency : 50/60 Hz
- Applicable Standards : IS-2026, IEC-76, ANSI.C.57
- Core : Mitre Type, Stack CRGO, Laser Type
- Winding : Copper/Aluminium
- Insulation Fluid : Mineral Oil, IS-335
- Class of Insulation : Class – A
- Cooling : ONAN
- Tap Changing : Off circuit Tap Changer

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VARIABLE AUTO TRANSFORMER

As with two winding transformer , auto transformer may be equipped with many taps and automatic switchgear to allow them to act as automatic voltage regulators, to maintain a steady voltage at the customers service during a wide range of load conditions.

A Auto transformer is also a single wound transformer with two end terminals and one or more terminals at intermediate tap points. The primary voltage taken from the terminals almost having one terminal in common with primary voltage.

TECHNICAL SPECIFICATION

SPECIFICATION	REQUIREMENT	
CAPACITY	1 A -5000A	
INPUT PHASE	SINGLE PHASE	THREE PHASE
INPUT VOLTAGE	230V	400V
OUTPUT VOLTAGE	0-270	0-470
COOLING	AIR COOLED OR OIL COOLED	
VECTOR GROUP	DYN-11	
REFERENCE STANDARD	ACCORDANCE WITH RELEVANT IEC AND EN	
AMBIENT TEMPERATURE	0-60 Deg.C	
VOLTAGE VARIATION	MANUL OR MOTORIZED VARIABLE	
FREQUNCY	50/60HZ +-3%	
INSULTION CLASS	F	
% REACTANCE	2-3%	
DUTY	CONTINUOUS	
WINDING COPPER	99.9% ELECTROLYTIC	
CORE TYPE ,GRADE OF LAMINATION	CRGO TOROIDAL CONSTRUCTION,M3,0.23MM	
METERING	I/P VOLTAGE,O/P VOLTAGE,O/P AMS	
PROTECTION	MCCB FOR INPUT	

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SERVO VOLTAGE STABLIZER

WORKING OF SERVO VOLTAGE STABLIZER

Servo voltage stabilizers work on servo mechanism which is negative feedback used to generate control over voltage fluctuations. In servo voltage stabilizers, there is a boost/buck transformer component which is primarily used to regulate & control the input voltage.

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ADVATAGES OF SERVO VOLTAGE STABLIZER

- It can support load capacity up to 5000 KVA and more
- Great voltage accuracy with +/- voltage correction
- Wide utility area like from home to school, industries and offices
- Available in both Air-cooled and oil cooled transformers
- Affordable and fit in the budget
- Higher durability and great reliability
- Fast and accurate
- No maintains cost
- Highly efficient

1 PHASE

AIR COOLED

2000KVA SERVO VOLTAGE STABLIZER

200KVA SERVO VOLTAGE STABLIZER

SERVO STABLIZER - TECHNICAL SPECIFICATION

Characteristics	Single phase	Three phase
Capacity	1kva-50KVA	3kva-5000KVA
Input voltage	197v- 277v	360v-460v
	170v-270v	340v-480v
	140v-270v	295v-470v
	110v-270v	240v-460v
	90v-270v	190v-460v
	Other Range also available as per customer requirements	
Output voltage	220v/230v +/- 1% (Adjustable)	380v/400v/415v +/-1%(Adjustable)
	1 Phase + Neutral, Ground	3 Phase + Neutral, Ground
Frequncy	50/60HZ	
Correction speed	20v/sec , 70v/sec , 110v/sec (As Required)	
Response time	Less then 10 milliseconds	
Correction method	Step less correction using variac (Microprocessor Based control system for measurement and correction)	
Waveform Distortion	Nil	
Effect of power factor	Nil	
Efficiency	98% As per IS standards	
Type of cooling	Nature Air cooled /Forced air cooled/Oil cooled	
Duty cycle	Continuous 24 hrs 100%	
No load losses	0.5% from the rated capacity/ As per Is standards	
Operation mode	Auto /Manual	
Suitability	Suitable for 3phase,4wire Unbalanced Voltage & Unbalanced/balanced load all power factors	
Operating Temperature	0 to 55	
Humidity	0 to 95% RH Max ,Noncondensing at 35	
Noise Level	<65dB For 1meter	
High voltage Test	Can withstand 2.5kV for 5 seconds	
System construction	As per IS : 9815 & ISO 2015	
Degree of protection	Ip21 - IP 55 (As Required) & Epoxy Powder coated (7 Tank processes)	
Insulation	Class- B /Class- H / Class – F (As Required)	
MCB / MCCB	Short circuit Protection	
BYPASS	Inbuilt in up to 300KVA above 300Kva optional (Change over Switch to bypass the stabilizer and use main voltage directly)	
CONTACTOR	Over load ,Under /Over voltage cut – Off Protection Through contactors	
Log book memory	History of error logs	
Input /Output Terminations	DIN Connectors up to 75Kva Above 75kva Busbar Connection	
Monitoring facility	DIGITAL MICROPROCESSOR LCD DISPLAY FOR A. Input Voltage - Phase to Neutral & Phase to Phase B. Output Voltage – Phase to Neutral & Phase to Phase C. Load Current in Three Phase	D. Frequency E. Earth Neutral Voltage F. Fault annunciation

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Features and Protections

1. Low voltage cut-Off & Alarm
2. High voltage cut-Off & Alar
3. Over Load Cut-Off & Alarm
4. Single Phase Prevention Cut-Off & Alarm
5. Reverse Phase Cut-Off & Alarm
6. Neutral Trip
7. Auto Phase Correction in case of Phase Reversal
8. Short Circuit Protection for Input MCB/MCCB/ACP
9. Surge & spike Protection.
10. Stabilizer Bypass System
11. Delay on Circuits
12. Auto / manual operation

STATIC STABILIZER

Why Static Voltage Stabilizers?

- Super quick response time of 50 microseconds
- Fast regulation speed of 2500 volt/sec (minimum)
- Continuous supply of highly stable output voltage
- Independent phase correction and capable to handle unbalanced 3-phase input without any trouble
- Built in protections against: over / under voltage, phase reversal, single phasing, over load, over temperature & short circuit
- Zero maintenance cost because of no mechanical or moving parts.
- Completely noiseless operation
- Lowest foot print (less space needed)
- Compatible for all kinds of loads
- >99.8% efficiency
- Greatly improves power quality and reduces electricity consumption at site of installation

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TECHNOLOGY

- IGBT based converter technology for continuous voltage regulation
- Converter not connected in the load path, correction voltage injected through transformer
- Modular design allows independent regulation of each phase
- Dual voltage tracking for the most accurate and fastest possible voltage regulation
- Internal current tracking to detect overload quickly
- Allows bi-directional power flow to realize full scale sag as well as swell correction
- Redundant internal bypass is engaged in case of an internal fault and load can be operated directly from grid supply

ADVANTAGES

IGBT Based Electronic Voltage Regulation

Fast, Accurate & Continuous Voltage Regulation

Effective Isolation from Grid Disturbances and Fluctuations

Efficient Operation of Equipment Increased Productivity

Improved Product Quality, Reduced Rejections.

No Batteries, No Moving Parts.

STATIC STABILIZER - TECHNICAL SPECIFICATION

Operating Voltage	1F+F (225-470VAC) Standard
Input Voltage Ranges	1F+F (300-450V)Standard
Output Voltage	1F+N 380 VAC +/- %1~3 Standard (400V ve 415V optional)
Control and Process Control	Multi-Microprocessor Control (DSPIC)
Operating Frequency	50 Hz +/-%5 (60 Hz Adjustable)
Efficiency	>%97 (in nominal terms, at full load)
Operating Temperature	-10 C lie + 50 C range (Special cooling unit)
Protection	Pasive and electronic Protection (Overvoltage, under voltage, overcurrent, peak, surge, right and spike protection)
Display	Graphic LCD Display for each Phase Output Voltage, Output Voltage, Output Current, Load Percentage, Output Frequency, Regulator Status and Fault Information, Overload Warning, Input Fault Warning, Output Fault Warning, etc. information can be monitored.
Communication	Dry Contact (Optional; Ethernet /USB / MODBUS TCP/IP)
Filter	At the entrance of the system there is an electricity noise filtering special filter system and network filters.
By Pass	Manuel by pass (Opsiyonel; Auto By Pass)
Relative humidity	%90 (condensing)
Acoustic Noise	50 dB(A)'less
Protection Class	Ip 20 (Optional; Outdoor Cabinet)
Standards	EN50091-1/EN62040-1(Safety) EN50091-2/EN62040-2 (EMC

PHASE CONVERTERS

SINGLE PHASE TO THREE PHASE BETA phase converter is a device that converts single phase electrical to 3 phase supply. Most phase converters are used to produce three-phase electric power from a single-phase source, thus allowing the operation of three-phase equipment at a site that only has single-phase electrical power supply. BETA Phase converter first converts 230v single phase supply to 440v through step up transformer and it again given to AC derive where the 3 phase AC supply is given to the electrical load through converting DC to AC.

TWO PHASE TO THREE PHASE three-phase power is not always available. To keep cost down, often only one phase is fed from a street transformer to a house. There are two options, if an industrial machine has to be connected. Installation cost for three-phase power lines may be high. Phase convert two phase 415v into three phase 380v,400vor415v.Booster: standard converters for multi-motor applications. Motors will produce 100% nameplate torque continuously, up to 200% during start-up or excessive loads. One output socket. Booster e: high performance converters for all single and multi-motor applications and all hard-start conditions. Motors will produce 100% of nameplate torque continuously and up to 600% during motor start-ups and excessive loads. Two output sockets. For all motor start-stop, reverse, hard-start conditions (metal lathes, wheel balancers, irrigation pumps, conveyors, elevators, refrigeration systems, compressors, deep submersible pumps, hydraulic systems).

TECHNICAL SPECIFICATION

INPUT PHASE	SINGLE PHASE	TWO PHASE	
CAPACITY	1HP -15HP	1HP - 300HP	
INPUT VOLTAGE	230V	400V	
INPUT RANGE	200-250V	340-460V	Other Range also available as per customer requirements
OUTPUT VOLTAGE	400V		
OUTPUT PHASE	3 PHASE 3 WIRE (R, Y, B) OR 3 PHASE 4 WIRE (R,Y,B,N)		as per customer requirements
INPUT FREQUENY	50/60HZ +-0.5%		
OUTOUT FREQUENCY	50/60HZ +-0.5%		
POWER FACTOR	0.95		
EFFICIENCY	<97%		
COOLING	FORCED AIR COOLED		
PROTECTION	I/P AC OVER VOLTAGE/UNDER VOLTAGE,O/P OVER LOAD, SHORT CIRCUIT PROTECTION		

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OUR ESTEEMED CLIENTELE

We work with diverse range of clients across the world. Here are just few of them.

CUSTOMER SATISFACTION

Quality for us is not just a word that defines our product but our capability to achieve complete customer satisfaction. Working with the prime focus of achieving complete customer satisfaction, we work in coordination with our clients to conceptualize their idea and manufacture machines exactly as per their requirements. We also provide our customers excellent after sale service for the maintenance and long service life of the machine. Equipped with the most sophisticated technology and competent engineers, we have innate capability to meet every requirement of our esteemed customers.

TPS-Infrastructure-Unit 2

Future Planning - Coimbatore,

Tamilnadu, India

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MANUFACTURER ALL TYEPS OF TRANSFORMERS SERVOSTABILIZERS,CONVERTER,REACTOR CHOKES,
METAL FABRICATION,PEB STRUCTURE WORKS





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