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Efficient  
makes us different

**NEMR Transformers**  
**Power into Shape**

**Manufactures & Supplier of**

- HT Servo Voltage Stabilizer
- Automatic Voltage Stabilizer
- Distribution Transformer
- Dry Type Transformer
- Isolation Transformer
- Electroplating Rectifier
- Transformer with OLTC
- Compact Sub Station



**NEMR Industries Pvt. Ltd.**

Empowering Nation with Quality Products



CM/L-9600076414





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## Technology you can rely on

With our technical expertise design transformers which are reliable in the long run

## Guaranteed short delivery times

With comprehensive transformer stock levels, units can be dispatched in 5-9 days.

## A BRIEF INTRODUCTION:

Parent Company National Enterprises, established in the year 2004, has emerged as one of the prominent manufacturers and exporters of-PMCC, PCC, MCC, APFC, and AC. DC. Drive Electric Control, Panel Board (HT & LT), Electrical Goods Supplier & 'A' Class Electrical Contractor of HT & LT, manufactured of S.S Equipments for Pharma, Hospitals & Hotels Designer & Fabricator as well as Installation, Liasoning and annual Maintenance work contract across India since 2004, We are associated with many respected & reputed names in the industry across the world. The offered services are rendered by skilled professionals and are regarded for their optimal solutions. We have a well-equipped manufacturing plant with the latest and technologically advanced machines, equipments, instrument and tools that are manufacturing a quality range of transformers and maintain rapid rate of production. All our products are optimally designed to assure very low, no load and full load losses which resulting in electricity savings. Our production unit is taken care of by our team of expert professionals, which make optimum utilization of all the the available resources at its disposable for manufacturing an energy efficient range of products, We also have an in-house testing laboratory which is calibrated annually from NABL approved laboratory.





## DISTRIBUTION & POWER TRANSFORMER

### TECHNICAL EXPERTISE IN DESIGNING & TESTING:

At NEMR Industry, we have a team of highly skilled & experienced engineers who with the help of latest technology design the most efficient products for our clients. We have a modern and efficient Testing Facility equipped with high precision equipment to meet the requirements of IEC 76, IEEE, BEE, IS standards. The products are deemed fit for dispatch only after it has stringently passed all the requisite tests as per requirement.

#### STANDARD FITTINGS PROVIDED:

- Rating & diagram plate along with labels
- Earthing terminals - 2 nos.
- Pre-filled Silica-gel breather.
- Lifting lugs for complete transformer.
- Thermometer pocket
- Oil filling pipe with cap on tank cover/conservator
- HV TERMINAL Outdoor Type Porcelain Bushings
- LV TERMINALS Outdoor Type Porcelain Epoxy Bushings.
- Bi-metallic connectors on HT side.
- Oil level indicator on the Oil Conservator.
- 4 set of wheels for movement
- Drain Cum sampling valve 1 no.
- Filter Valve with plug - 1 no.
- Pressure relief explosion vent with diaphragm.
- Externally operated off Circuit tap changer switch.
- Oil Temperature Indicator.

#### Optional Fittings on request

- Buchholz Relay
- HV & LV Cable Boxes
- Winding Temperature Indicator
- Magnetic Oil Level Gauge
- Marshalling Box, Disconnecting Chamber
- Oil Temperature Indicator with Alarm Trip Contacts.

#### Product Range:

- Distribution Transformers – 6.3 KVA to 3500 KVA in 11KV & 33KV Class
- Distribution Transformers with OLTC – 500 KVA to 3500 KVA in 11KV & 33KV Class
- Power Transformers – 1000 KVA to 5000 KVA
- Furnace Transformers – 500 KVA to 3150 KVA
- Dry Type Transformers – 100 KVA to 1000 KVA
- Auto Transformers – 6.3 KVA to 3150 KVA
- Special purpose transformer: Any kind of step up/step down transformers for LT/HT Supply
- Solar inverter duty Transformer
- Customized Compact Substation Transformers

#### Application Standards

AT NEMR, transformers are manufactured & tested as per IS : 1180, IS:2026, BS-17J, IEC-76, IEC-726, ANSI, JIS & DIN Internationally recognized standards.

#### Raw material used:

- Only high-quality material of prime grade is used in the manufacturing products at NEMR industry.
- Directly imported prime quality CRGO from International manufacturer.
- We use best grade of transformer oil which is directly procure from Apar/Savita/Raj and Gandhar, as per latest Relevant ISS specification.
- We used best grade of copper and aluminium material for winding as per latest relevant ISS.
- MS and other items from ISI certified manufacturers only

#### Transformer Options

- Copper wound/aluminium wound.
- DPC Insulated Conductor/Super Enamelled Conductor.
- Off Load Tap Changer/On Load Tap Changer with RCCT Panel.
- Pole Mounted/Ground Mounted.
- Elliptical Tube Radiators/PSR Radiators/Corrugated Tank.
- Non Sealed (Conventional) Outdoor/Indoor with HV/LV Terminals Boxes as per customer's requirement.
- Vector Group Dyn11/YNd 11 or as per required by customer.

#### REPAIR, RE-CONDITIONING & RE-FURBISHING OF OLD TRANSFORMER AT NEMR INDUSTRY:

We understand repair & refurbishing of old transformers De-Hydration of oil, rewinding of coil, reassembly of core & replacement of damaged parts is done. This extends the usable life of the transformer.



# DISTRIBUTION AND POWER TRANSFORMER

NEMR are manufactured with a standard rating and customer requirements. All transformers are designed for continuous operation with maximum efficiency to confirming is 1180 standards. Transformers are designed & tested as per Indian & International Standards to meet specific requirements of our customers . Our manufacturing facility governed by stringent quality, assurance check during different manufacturing stages, to manufacturing power & distribution transformer.

## Introduction:

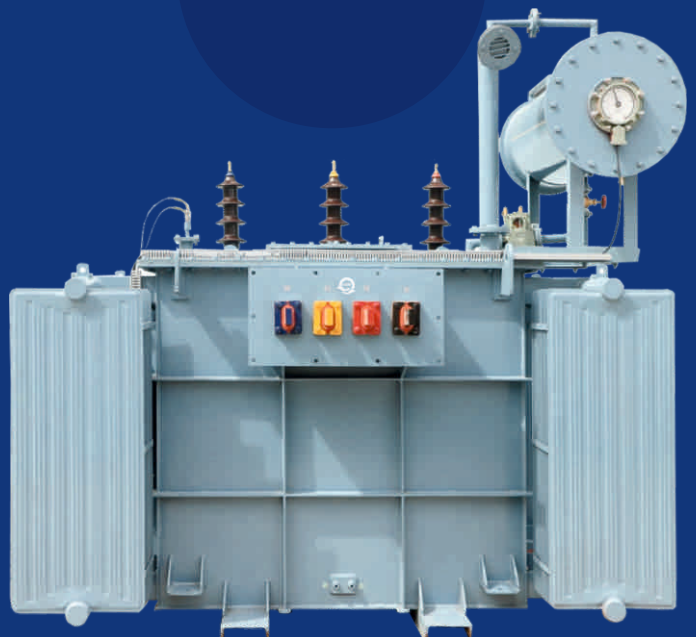
NEMR is the most important element in any industrial/commercial unit, at NEMR our main aim is to provide superior quality maintenance, design and tested as per the latest highest standard, to assure the same we are maintaining our design and development team having highly qualify and experienced personal to prissily keep eye on design part in cooperated with a state of art testing lab transformer is manufactured with standard rating & customer requirement,

## Product Range of Distribution & Power Transformer:

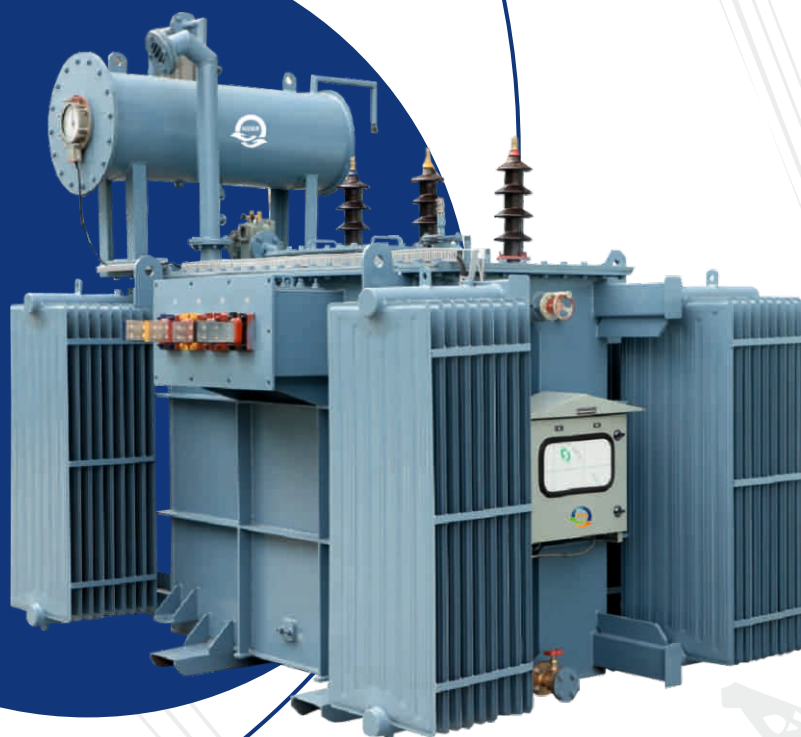
- Power transformer up to 10 mva 33 / 22 / 11
- Distribution Transformer Upto 6000kva 11/22/33kv
- Transformer With Oltc Up To 6000kva 11/33kv
- Distribution Transformer With Built-In Htavr Upto 4000kva 11kv
- Earthing Transformer Upto 6000kv 11/33kv
- Generator Transformer Upto 4000kva 11kv

## Transformer Design Options:

- Single Phase / Three Phase
- Indoor | Outdoor
- Pole Mounted / Ground Mounted
- Conventional Type / Hermetical Fealed Type
- Offload Tap Changer / On Load Tap Changer ( OLTC)
- Fitting Accessories As Per Requirement
- Step Up & Step Down Transformers







**Capacity:**  
**1000 KVA**  
**Ratio:**  
**33/433 KV**

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Harmentically  
Sealed Corrugate  
Type  
(For Export Purpose)

**Capacity: 630 KVA**  
**Ratio: 22/433 KV**

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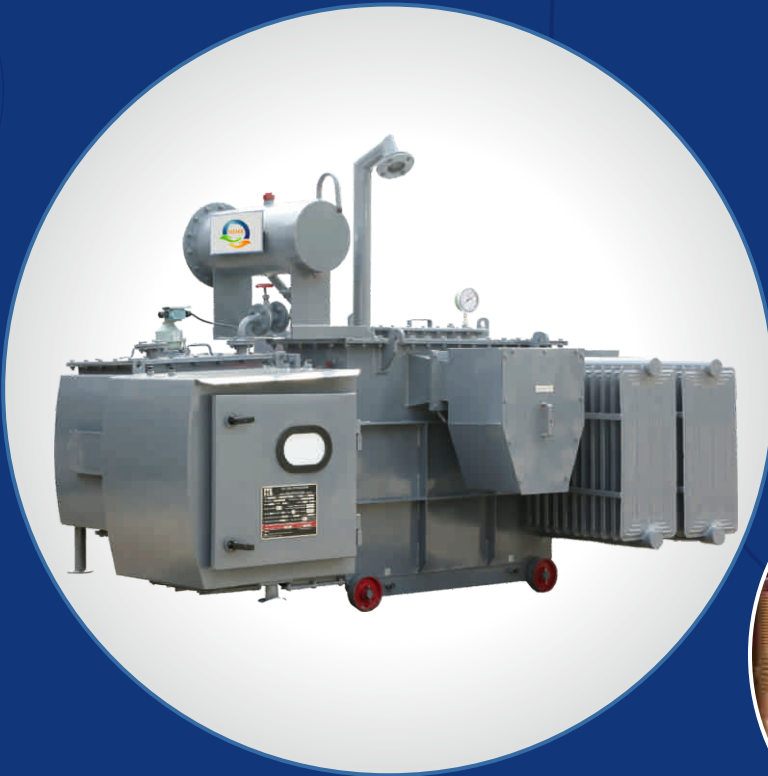


**Capacity: 630 KVA**  
**Ratio: 22/433 KV**

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# DISTRIBUTION TRANSFORMER WITH OLTC (INDOOR TYPE)



Core



Windings



## Standard Fitting

- Rating And Diagram Plate.
- Earthing Terminals – 2 Nos.
- Lifting Lugs.
- Oil Level Indicator (Plain)
- Drain-Cum Bottom Filter Valve With Plug.
- Oil Filling Hole With The Plug On Conservator.
- Oil Conservator With A Drain Plug.
- Air Release Plug.
- Silicagel Air Breather.
- Bi-Directional Flat Rollers.
- HV Terminals-Outdoor Bushings.
- LV Terminals-Outdoor Bushings.
- Radiators.
- Filter Valve With Plug.
- Thermometer Pocket.
- Oil Temperature Indicator.
- Externally Operated Off Circuit Tap Changing Switch.
- Explosion Vent.
- Sampling Valve (For 2000 KVA & Above Transformers Only)

## Accessories on Request

- LV And HV Cable Boxes
- Winding Temperature Indicator (WTI).
- Buchholz Relay
- Magnetic Oil Level Gauge
- Marshaling Box
- Disconnecting Chamber
- Oil Temperature Indicator With Electrical Contacts (OTI)
- Pressure Relief Valve

## After Sales Service:

Every Equipment Sold Is Backed By Our Excellent & Prompt Service Network. Our Organization Is Well Known By Virtue Of Strong Support In Terms Of Pre-Sale & After Sales Rendered By Us During Any Solutions.



# H.T. TRANSFORMER WITH BUILT-IN AUTOMATIC VOLTAGE STABILIZER (COMBO)



We Make Transformers With Built-In Rolling Contact Type AVR Suitable For Indoor/ Outdoor Installation, Copper Wound HT Two-In-One System Is A Revolutionary Landmark In The Industry When It Comes To Voltage Regulation And Stabilization.

**Category:** ht servo voltage stabilizer

## Features:

- Reliable Performance
- High Efficiency & Safety
- Strong & Compact Construction
- Space Saving
- Low Cost
- Less Power Losses
- Sturdy Construction & Reliability
- Good Weather Resistance.

## ISOLATION TRANSFORMER

Isolation transformers are being used to protect electronic & sensitive creative equipment such as Computer & Peripherals Medical Instruments, Digital Machines & CNC M/C from the excessive line voltage transient, spikes/surges which produced in the system. Apart from this, Isolation Transformer also obstructs those disturbances that are generated by the noisy equipment from being injected into the power line i.e. It filters common-mode noise usually an attenuation of approx. 30 Db.

**Category:** Isolation Transformer



## Application of isolation transformer

- Protection of microprocessor-based machines from damage & data loss
- Where the ground of equipment cannot be earthen
- When no current leakage is permitted in equipment
- When protection is needed against high-frequency line losses & strong surges.



# AUTOMATIC SERVO VOLTAGE STABILIZER

**Capacity:  
30KVA to 6000 KVA**

## Salient Feature:

- Reduction in breakdown of electrical equipments.
- Energy Saving
- Improvement in Power Factor & MDI
- Improved Power Quality & Stable Supply System
- Depreciation @ 80% as per Income Tax (in India Only)



## Comparison between NEMR make and conventional make Automatic Servo Voltage Controller

NEMR Make	Conventional Make
Linear type regulators, wound with min. 24 mm <sup>2</sup> copper strips.	Torroidal Dimmers are used, wound with max. 100 mm <sup>2</sup> cooper wire.
Power consumption is 0.5-1.5% depends upon capacity and voltage variation.	Power consumption is 5-8% depends upon capacity.
Overall efficiency is more than 99%.	Overall efficiency is 92-95%.
Life at full load is 20-30 years .	Life at full load is 4-6 years.
Suitable for 100% continuous duty cycle.	Suitable for 60-80% duty cycle
Graphite carbon roller assemblies are used. Which do not require replacement for at least 8-10 years. There is no wear & tear of the bared copper track.	Light duty carbon brushes are used which are in full contact with the winding. Wear & tear requires change of brushes periodically.
5 years warranty in India	Normal Guarantee/Warrentee of 1 year



## SERVO VOLTAGE STABILIZER (BALANCED TYPE)

**Capacity: 3500 KVA**

### General Specification:

NEMR's Automatic Servo Stabilizer are available in wide range and various models. The standard three phase models are suitable for balanced and unbalanced supply and loads. The standard model confirm the following specifications are as follow:

Input Voltage	: 300-460V   320-460V   340-460V   350-460V.
Efficiency	: Better than 99%
Output Voltage	: 400V/415V +/- 1%. 3 Phase, 50 Hz
Ambient Environment	: 0-35 °C max relative humidity upto 90%.
Wave from distortion	: Designed for Indoor tropical use.
Duty Cycle	: Virtually Nil.
Correction Rate	: 100% Continuous.
Mounting	: 10-20V/Sec. (or as per your req.)
Cooling	: On Uni-directional wheels.
	: Air Cooled/Natural



**Special Servo  
Stabilizer  
for Residential &  
Commercial**

Note: Different Non-Standard input & output ranges are also available against specific requirement.

# COMPACT SUBSTATION

The Compact Sub-Station (CSS) is also known as Unitized Sub-Station (USS) or Packaged Sub-Station (PSS). The compact sub-station is a compact arrangement, which replaces conventional sub-station arrangement consisting of load break switch / vacuum circuit breaker, transformer, distribution panel with L.V. Switchgear lightening arresters mounted on a pole structure or on a platform.

**Category:** Package Substation



## Introduction:

NEMR manufactures various modules of indoor/outdoor type Compact Sub-Stations up to 2500 KVA capacity, 33KV class of Transformers with HT/LT switch gear.

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CSS is designed, keeping in mind the personal safety & aesthetics, considering the equipment is located in high-density urban places. It is a prefabricated secondary Sub-Station consisting of three compartments (i.e.) H.V. compartment which houses Vacuum Circuit Breaker (VCB) or Load Break Switch (LBS), the Transformer Compartment which houses Dry Type /Oil-Cooled Transformers & the LV Compartment which houses ACB, MCCB, SFU, etc. As per client's requirement. All components are housed in an enclosure that protects the equipment against environmental hazards & unauthorized access. The electrical equipment are cooled by natural ventilation.

### Features:

- Fully compartmentalized design
- Easy to install, operate & require very less maintenance
- Cost effective & space saving
- Reduced electrical losses as CSS can be installed near the load centre
- A high degree of safety & operational reliability is achieved by HT & LT Switchgear with protective relays
- Reduction in Logistic Cost as the CSS is delivered as a single unit
- Tailored configuration to meet customer requirement
- Due to the enclosed construction, it avoids bird hit, human / animal contact which may lead to fatal accident and disruption of power supply
- Aesthetically enhanced look & designed to suit the site topography, which gives pleasing appearance
- No separate room is required
- Can be installed indoor & outdoor
- Standard Fitting
- Load Break Switch with Fuse Trip & Earth Switch Mechanism, Shunt Trip Coil, HT HRC Fuses
- Vacuum circuit breaker with metering & protection using current/potential transformers & relays
- Ring main units consists of load break switches/vacuum circuit breakers combination
- Oil filled transformer
- Dry Type transformer
- LT Control Panel with ACB & MCCB
- SFU with metering
- CSS are ideally suited for residential and commercial complexes as it can be placed on ground floor or basement or rooftop of the high rise buildings
- Mainly used by power utilities, multiplex, hotels, hospitals, shopping malls, software parks, airports & residential complexes, etc.



# Our Prestigious Clientele






## Industry We Are Serving



Food Industry



Rice Industry



Power Plant



Paper Industry



Water Treatment



Textile Industry



Plastic Industry



Chemical Industry



Foundries



Refinery



Cement Industry



Pharma Industry

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## NEMR Industries Pvt. Ltd.

Empowering Nation with Quality Products

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