

OTHER SERVICES

Standby Transformer On Rent

Transformer Field Testing and Repair

All kind of Electrical Cable & Wires

Servo Voltage Stabilizer

Energy Auditing

Oil Filtration and Dehydration and Service

Earth, Oil Testing Equipment Health Certifications

Turnkey Projects

DG set for industrial/residential setup & sync

Smart Metering and Energy Management Solutions

Power Factor

Manage energy to reduce electricity consumption and increase production

24x7x365 days services

Load management consultancy to save huge electricity bills by opting proper electrical equipments



**ENGINEERS
ELECTRICALS**

AN ISO 9001:2015 COMPANY



+9170738-60640



hengineerseletricals@gmail.com

H.O. Verka, Amritsar, Punjab-143001



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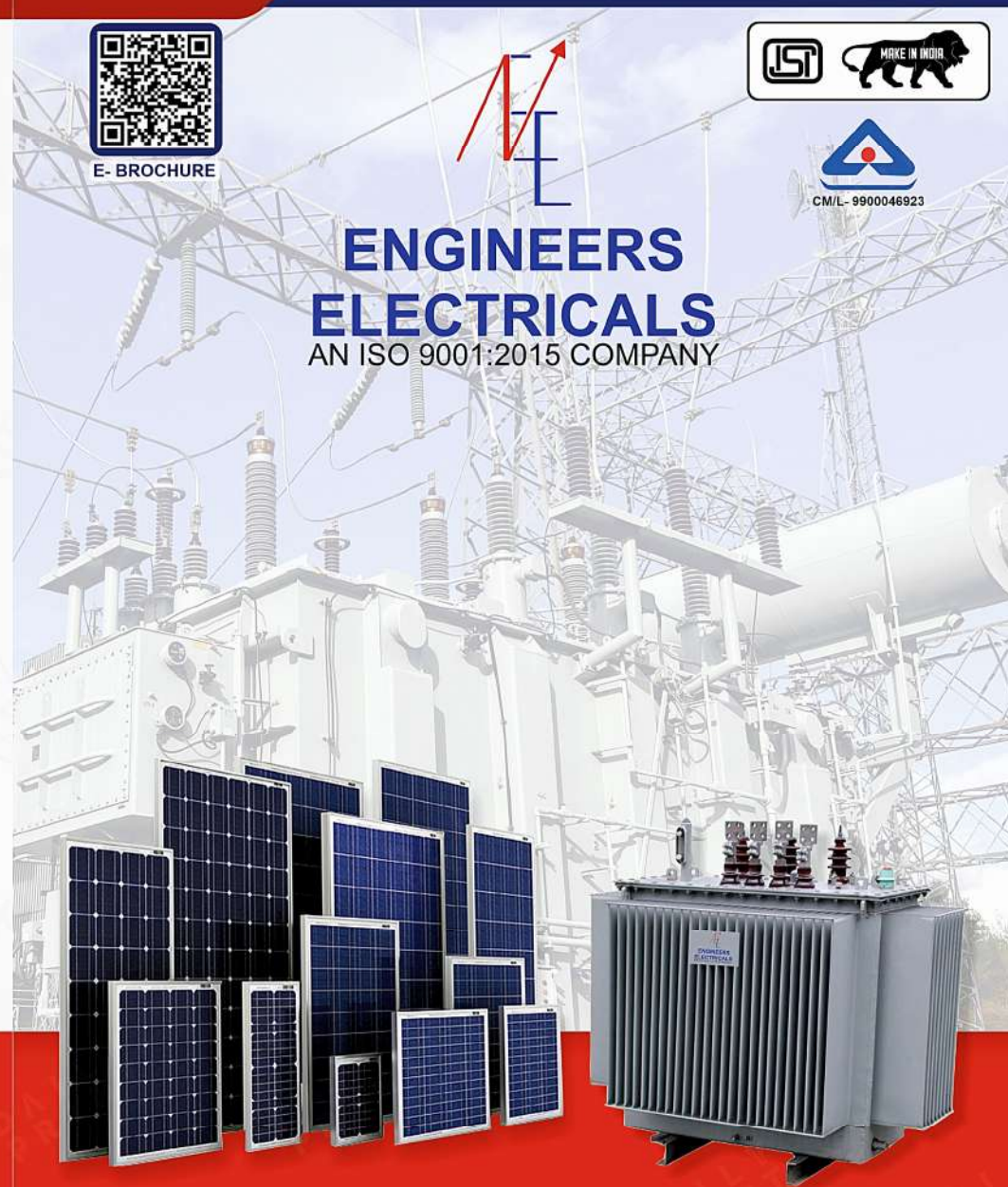


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ELECTRICALS**
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About Us

At **Engineers Electricals**, we are a leading manufacturer of high-quality transformers, *specializing in Power, Distribution, Furnace, Special, and Dry Type Transformers*. Our solutions are tailored to meet the diverse needs of industries with a focus on performance and reliability.

We also manufacture *substation structures, custom distribution panels*, and supply a full range of transformer accessories, showcasing our versatility in the power sector.

As part of our **Smart & Clean Energy** initiative, we deliver integrated solar solutions backed by end-to-end services from pre-commissioning to post-commissioning. Known for our innovation, quality, and customer-centric approach, we take pride in building long-term relationships and delivering excellence in every project.

POWER TRANSFORMER

Engineers Electricals specializes in manufacturing high-performance Three Phase Power Transformers designed for diverse industrial applications

Key Features:

Type: CRGO and Amorphous core with Copper Wiring

Voltage: Supports Step-Up & Step-Down applications

Installation: Suitable for Indoor & Outdoor use

Protection: Completely Self-Protected for enhanced safety

Configuration: Available in Low Voltage (LV) and High Voltage (HV)

Connections: Delta & Star types, based on Dyn11 vector group

Capacity Range: 10 KVA to 10 MVA

Industries Served:

- Coal Fields
- Power Projects
- Residential Developments
- Large-Scale Businesses
- Individual Manufacturing Units

Ratings	: Three Phase CRGO-Upto 10000kVa
Applicable Standards	: IS, IS1180, IEC, ANSI, JIS, DIN, BIS Etc.
Cooling	: ONAN, ONAF
Insulating Fluid	: Mineral Oil to specification
Frequency	: 50Hz, 60 Hz
Primary voltage	: Upto 33000V
Secondary Voltage	: 22000, 11000, 6600, 3300 V (Other Voltages as required)
Winding material	: Copper
Taping range	: Off circuit and On loan tap changers as per customer specification



DRY TYPE TRANSFORMERS

ADVANTAGES OF DRY TYPE TRANSFORMERS:

- These Transformers are safe, eco-friendly, fire-resistant, explosion proof, easy to install and easy to maintain beside being better in appearance.
- Moisture ingress resistant & immune to polluted atmosphere.
- Resistance to temperature fluctuations.
- Good impulse withstand strength.
- High dynamic short circuit & mechanical strength.
- Less space and civil work needed.
- Special safety features are not required.
- Longer transformer life due to low thermal and dielectric ageing.

These Transformers are suitable where safety, reliability and low noise level are of the prime concern like:

- **Electronics Industries**
- **Nuclear Stations**
- **Stadiums**
- **Hospitals**
- **Oil Plants**
- **Software Parks**

- **High Rise Buildings**
- **Power Plants**
- **Textile Plants**
- **Hotels**
- **Airports**

- **Metro Railways**
- **Steel Plants**
- **Chemical Plants**
- **Material Handling**
- **Ships**



SECTIONAL VIEW OF TRANSFORMER



OLTC TRANSFORMER

At **Engineers Electricals**, our **OLTC (On Load Tap Changer) Transformer** is designed to regulate voltage levels *without interrupting the power supply*. It automatically adjusts the transformer's output voltage under varying load conditions, ensuring *stable and consistent power delivery*.

Key Features:

- **On-load voltage adjustment** without shutdown
- **Automatic or manual tap** changing
- **Enhances power** stability and efficiency
- Ideal for **fluctuating load** conditions
- **Low maintenance** and long operational life
- Built-in **safety and protection** mechanisms

Solar Solutions

Solar On-Grid Systems

Our **Solar On-Grid Systems** connect directly to the utility grid, generating power during the day and sending excess energy back to the grid. Ideal for **homes and businesses**, they help **cut electricity costs** and support a **greener future**.

Key Features:

- Grid Connectivity:** Powers your home or business while feeding excess power back into the grid.
- Cost Efficiency:** Reduces electricity costs by using solar energy during peak sunlight hours.
- Reliable Performance:** Designed for continuous power generation with minimal maintenance.
- Smart Monitoring:** Integrated with remote monitoring solutions to track energy production.

Solar Off-Grid Systems

Our **Solar Off-Grid Systems** offer a self-sustained power solution for areas without reliable grid access. Ideal for **rural homes, remote industries, and off-grid locations**, these systems operate **independently of the utility grid**, ensuring **uninterrupted, efficient power** anytime, anywhere.

Key Features:

- Energy Independence:** Provides 24/7 power without reliance on the national grid.
- Battery Storage:** Comes with integrated battery storage for energy availability during non-sunlight hours.
- Eco-Friendly:** Reduces reliance on non-renewable energy sources and lowers your carbon footprint.
- Custom Solutions:** Tailored to meet specific energy needs based on location, usage, and power demands.

Hybrid Energy Systems Solution

Hybrid Energy Systems combine solar **power, battery storage**, and **the utility grid** to provide a **flexible and reliable energy solution**. These systems ensure uninterrupted power by switching between solar, battery, and grid sources based on availability and demand. They are ideal for areas with **unstable grid supply** or for users who want to **maximize energy independence** and reduce reliance on any single power source.

Key Features:

- Combines solar, battery & grid power
- Ensures **continuous power supply** during outages
- Maximizes energy savings and efficiency
- Smart energy management with automatic switching
- Reduces grid dependency and supports sustainability
- Scalable design for residential, commercial, or industrial use

High-Grade Solar Water Heaters & Heat Pumps

Upgrade your heating system with our **High-Grade Solar Water Heaters**, designed to provide **efficient and sustainable hot water solutions for residential, commercial, and industrial applications**. These solar heaters use the energy from the sun to heat water, reducing the need for conventional electrical heating and significantly cutting energy costs.

Key Features:

- Eco-Friendly:** Uses renewable solar energy to heat water, reducing dependence on fossil fuels.
- Durable & Long-Lasting:** Built with high-quality materials to ensure longevity and performance in all weather conditions.
- Energy Efficiency:** Provides reliable hot water throughout the year, reducing electricity consumption and bills.
- Versatile Applications:** Ideal for homes, hotels, hospitals, and factories, providing hot water for daily use or industrial processes.

Save Money With Solar Energy



DISTRIBUTION PANEL

At Engineers Electricals, we specialize in the design and manufacture of high-quality Distribution Electric Panels that provide reliable and efficient power distribution for residential, commercial, and industrial applications. Our panels are engineered to ensure safety, durability, and optimal performance in a wide range of environments.

Compact Substation

A **Compact Substation** is a modular, factory-built unit that integrates the **transformer, switchgear, and protection devices** into a single, enclosed system. Designed for **space-saving, fast installation, and enhanced safety**, it's ideal for **urban, industrial, and renewable energy** applications. It offers **low maintenance, high reliability**, and operates efficiently even in harsh environments, making it perfect for **quick deployment and limited-space installations**.

Rating Range: 3.3 kV to 33 kV or customized as per requirements.



HT/LT Panels

Electrical Panels play a crucial role in distributing and controlling electrical power across various mechanical systems. Constructed from **high-quality materials**, they comply with industry standards and are used across a wide range of applications, including in industries, commercial buildings, hospitals, and more.

There are two primary types of electrical panels:

High Tension (HT) Panels: These panels are responsible for managing the flow of **high-voltage electricity to various devices and distribution boards**. They are suitable for both indoor and outdoor installations.

Low Tension (LT) Panels: These panels are designed to distribute power through **low-tension cables**, typically in systems that require lower voltage for operation.



Chemical & Water Level Earthing Solutions

At **Engineers Electricals**, we offer reliable **Chemical & Water Level Earthing Solutions** designed to ensure safety, system stability, and long-term performance in all types of environments.

EARTHING SOLUTIONS

Earthing Solutions are tailored to meet the specific needs of industrial, commercial, and residential setups. We provide a **range of high-quality earthing systems** that ensure protection for people, equipment, and infrastructure against electrical faults and surges.

CHEMICAL EARTHING SOLUTIONS

Chemical Earthing involves the use of electrodes filled with conductive compounds that **reduce soil resistance and maintain consistent grounding**. It is ideal for areas with poor soil conductivity and requires minimal maintenance.

WATER LEVEL EARTHING SOLUTION

Water Level Earthing supports the earthing system by maintaining adequate moisture around the electrode. This method **enhances the effectiveness of chemical earthing**, especially in **dry conditions, ensuring low and stable resistance** throughout the year.

Our integrated approach delivers safe, efficient, and **long-lasting earthing solutions** suitable for modern power systems.

