

PROJECT Proposal

01



2025

PREPARED BY:

J.M Engineers

“Engineering Projects with
Precision and Purpose.”

TABLE OF CONTENTS

<u>Company Introduction</u>	<u>03</u>
<u>Vision & Mission</u>	<u>04</u>
<u>Electrical Panel Work</u>	<u>05</u>
<u>Diesel Generator Service</u>	<u>09</u>
<u>Kirloskar KG4 15WS1 Diesel Generator</u>	<u>13</u>
<u>Automoto Retrofit Emission Control Device</u>	<u>17</u>
<u>HT Panel Work</u>	<u>21</u>
<u>Amf Panel Work</u>	<u>25</u>
<u>Transformer Work</u>	<u>29</u>
<u>Whole Building Substation Work</u>	<u>33</u>
<u>Contact Us</u>	<u>37</u>

COMPANY

Introduction



J.M ENGINEERS

J.M Engineers is a trusted name in engineering excellence, delivering high-quality solutions with innovation, precision, and reliability. With a strong commitment to advanced technology and customer-centric service, we specialize in designing and manufacturing engineering products that meet global standards of performance and durability.

COMPANY Vision & Mission



OUR VISION

“To become a trusted global leader delivering innovative, reliable engineering solutions worldwide.”



OUR MISSION

“To design quality-driven engineering products ensuring performance, safety and customer satisfaction.”



OUR VALUES

“Integrity, innovation, teamwork, quality commitment, customer focus, and continuous improvement.”



Electrical Panel Work

"Powering Precision, Protecting Performance."



CPCB Certified



iCAT Tested



CAQM Approved

“

RENTAL

“Powering Your
Projects, One Rental
at a Time.”

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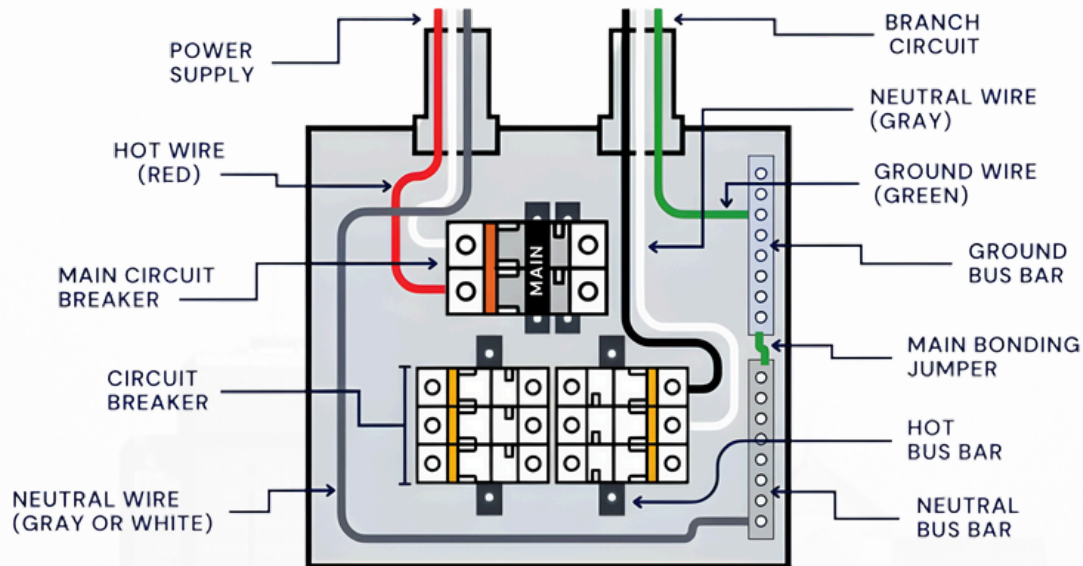
Electrical Panel Work

Annual Maintenance Contract service

“We deal in 15 kVA to 1010 kVA generators—new and used, sales and purchase.”

Electrical Panel Diagram

Components And Labels



"WHY CHOOSE "



Expert Engineering Team

Skilled professionals with years of experience in designing, assembling, and commissioning electrical panels.



Premium Quality Components

We use certified, durable and reliable components to ensure long-lasting performance.



Strict Safety Compliance

All panels are built following IEC, IS, and industry-approved safety norms for maximum protection.



24/7 Technical Support

Dedicated team available round-the-clock for service, troubleshooting, and maintenance.



Cost-Effective Solutions

High efficiency, reduced power losses, and long lifespan ensuring value for money.



Advanced Testing

Each panel undergoes rigorous quality checks, load testing, and safety verification before delivery.

PRODUCT

Details

Our electrical panel work delivers safe and efficient power distribution with high-quality components, proper load management, and advanced protection systems. Panels are engineered for durability, heat resistance, and easy maintenance. We follow IS/IEC standards and provide customized solutions to ensure reliability, safety, and long-lasting performance in all applications.



Specification	Details
Panel Type	Electrical Control Panel
Operating Voltage	415 V AC
Rated Current	100–630 A (as per requirement)
Busbar Material	Copper / Aluminium
Busbar Rating	25 kA / 36 kA / 50 kA
Protection Devices	MCCB / MCB / ACB
IP Protection	IP42 / IP52 / IP55
Cooling System	Natural / Forced Ventilation
Applications	Industrial, Commercial,

KEY REDUCTIONS

Power Loss:	32%	Maintenance Effort:	30%
Downtime:	40%	Heat Generation:	28%
Fault Risk:	35%	Noise Levels:	18%

Diesel Generator Service

"Keeping Your Generator Strong, So Your Power Never Stops."



CPCB Certified



iCAT Tested



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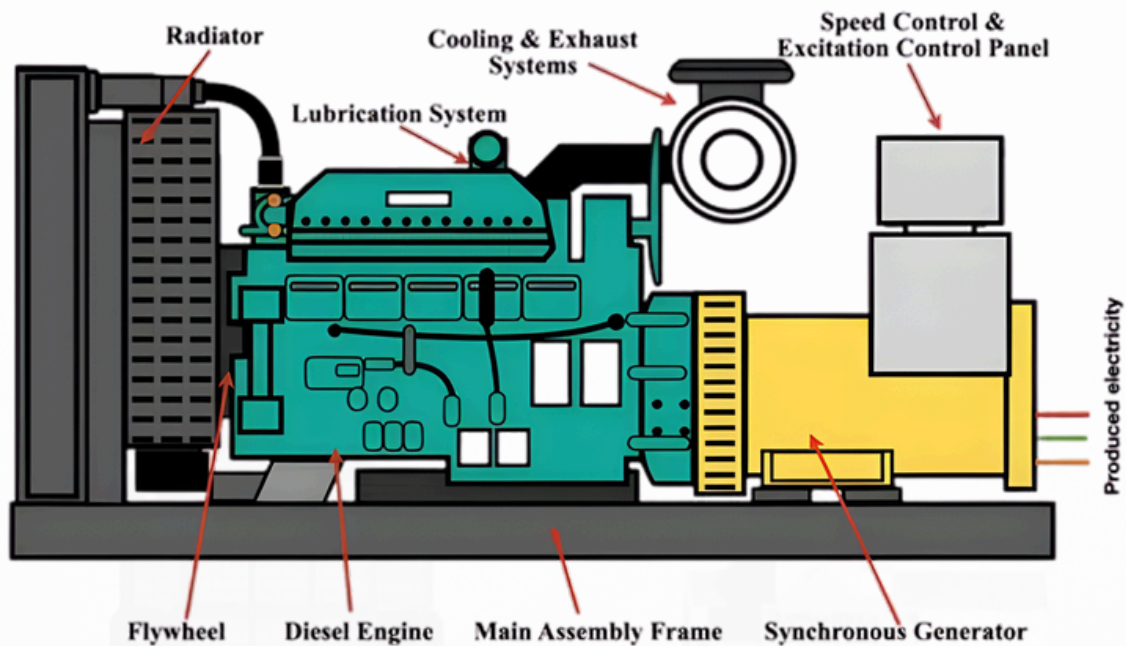
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Diesel Generator Service Annual Maintenance Contract service

“We deal in 15 kVA to 1010 kVA generators—new and used, sales and purchase.”

Diesel Generator Diagram

Components And Labels



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PRODUCT

Details

Our diesel generator service includes preventive maintenance, load testing, filter replacement, engine tuning, electrical inspections, vibration checks, coolant monitoring, fuel system cleaning, safety diagnostics, and performance calibration. We ensure reliable operation, reduced downtime, improved efficiency, extended generator life, and 24/7 technical support for uninterrupted power supply.



Specification	Details
Service Type	DG Preventive & Breakdown
Capacity	5 kVA – 1250 kVA
Engine Check	Oil, Filters, Injectors
Electrical Check	Alternator, AVR, Battery
Cooling System	Radiator & Coolant Check
Fuel System	Tank & Line Inspection
Load Test	No-load / Full-load
Support	24/7 Emergency Service
Documentation	Service Report

KEY REDUCTIONS

Fuel Consumption: 18%
Breakdowns: 32%
Noise Levels: 20%

Emission Levels: 28%
Maintenance Cost: 25%
Downtime: 35%

Kirloskar KG4 15WS1 Diesel Generator

"Engineered for Uninterrupted Performance."



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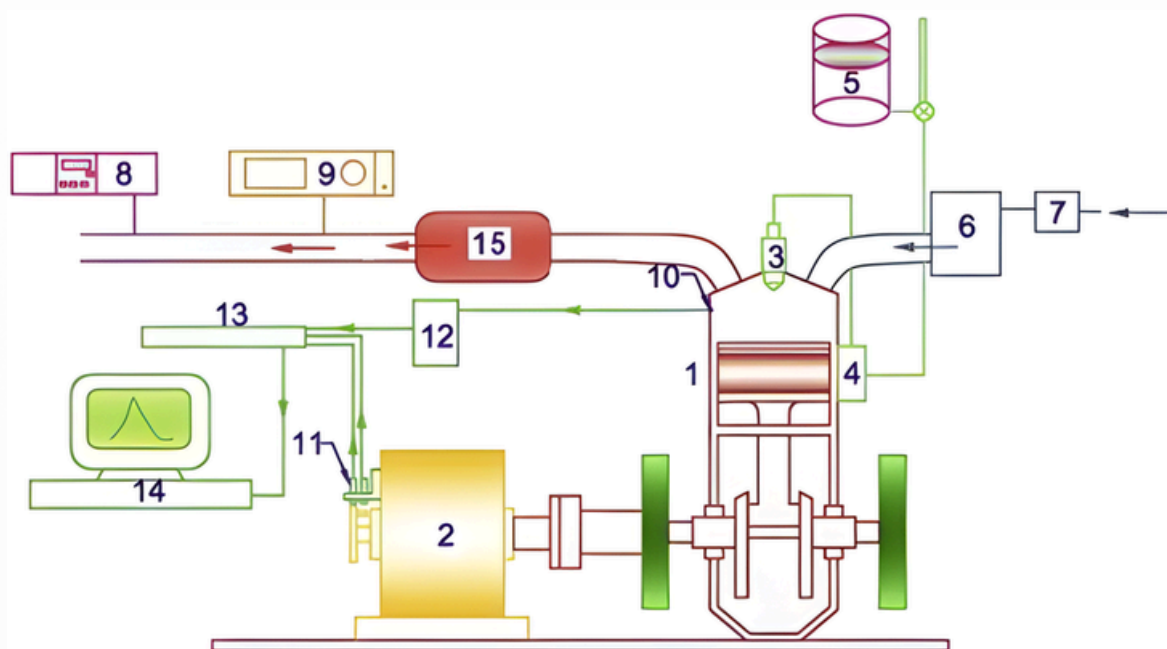


Diesel Generator Service **Annual Maintenance Contract service**

“We deal in 15 kVA to 1010 kVA generators—new and used, sales and purchase.”

Kirloskar KG4 15WS1 Diesel Generator

Components And Labels



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PRODUCT

Details

The Kirloskar KG4 15WS1 Diesel Generator delivers reliable 15 kVA power with a robust 3-cylinder engine, low noise performance, and high fuel efficiency. Designed for durability, it offers smooth operation, quick electric start, strong load handling, and long service intervals—making it ideal for homes, industries, and commercial applications.



Specification	Details
Model	Kirloskar KG4 15WS1
Power Rating	15 kVA
Output Voltage	230V / 415V
Frequency	50 Hz
Engine Speed	1500 RPM
Weight	605 kg
Dimensions	1850 × 760 × 1050 mm
Fuel Tank Capacity	32 Litres
Starting System	12V Electric Start

KEY REDUCTIONS

Fuel Consumption: 15%
Breakdowns: 25%
Noise Levels: 20%

Emission Levels: 22%
Maintenance Cost: 18%
Engine Wear & Tear 20%

India's Leading Emission Control Solution

Powering a Cleaner, Smarter Diesel Future

Automoto Retrofit Emission Control Device (RECD)



CPCB Certified



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Automoto Retrofit Emission Control Device

"We deal in 15 kVA to 1010 kVA generators—new and used, sales and purchase."

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Fueling India's Transition to Clean Energy

Automoto brings India future-ready power with cleaner, dual-fuel innovation.

Automoto is enabling India's transition to cleaner, compliant, and sustainable energy solutions. Our flagship technologies — Automoto RECD and Automoto DFK — help businesses, industries, and institutions keep their diesel generators compliant without expensive replacements.

With 2,500+ installations across the country, Automoto has built a strong reputation for trust, reliability, and environmental leadership. Every solution is engineered for Indian conditions — durable, field-tested, and certified by CPCB, ICAT, and CAQM.

At Automoto, we don't just supply products — we deliver assurance. We ensure your DG sets stay compliant with current emission norms, avoid penalties, and operate responsibly under evolving government standards.



India's #1
RECD Brand



2500+
Installations



CPCB
Certified

Why Choose Automoto?



100% CPCB-compliant



Proven Leadership



Track Emissions in Real Time



SS 409
Ferritic Steel body



Engineered Clamp Based
Mechanism



Trusted by Institutions

Automoto RECD & DFK Clean Energy Solutions

Where compliance, performance, and trust come standard.

RECD Retrofit Emission Control Device

Automoto's Retrofit Emission Control Device (RECD) upgrades any diesel genset to meet emission norms—without replacing the engine. Using advanced catalytic oxidation and multi-stage filtration, it cuts harmful pollutants directly at the exhaust with proven, verifiable results.

Key Reductions

PM:	99.21%
CO:	95.90%
Smoke:	98.92%
HC:	79.24%



- Custom sizing available on request
- 20 kVA-3000KVA

DFK Duel Fuel Kit

DFK retrofits your existing diesel generator to run on a controlled blend of diesel and natural gas, maintaining performance while cutting diesel consumption and emissions.



Headline Outcomes

- Up to 70% reduction in diesel consumption
- Lower NOx/PM/greenhouse gases versus diesel-only operation
- Optimized diesel:gas ratio -25:75 while maintaining rated power and load response

- ICAT-Certified No risk of rejection

- 2,500+ compliant systems running across India

High Tension HT Panel Work

Reliable Control Systems for Critical Operations



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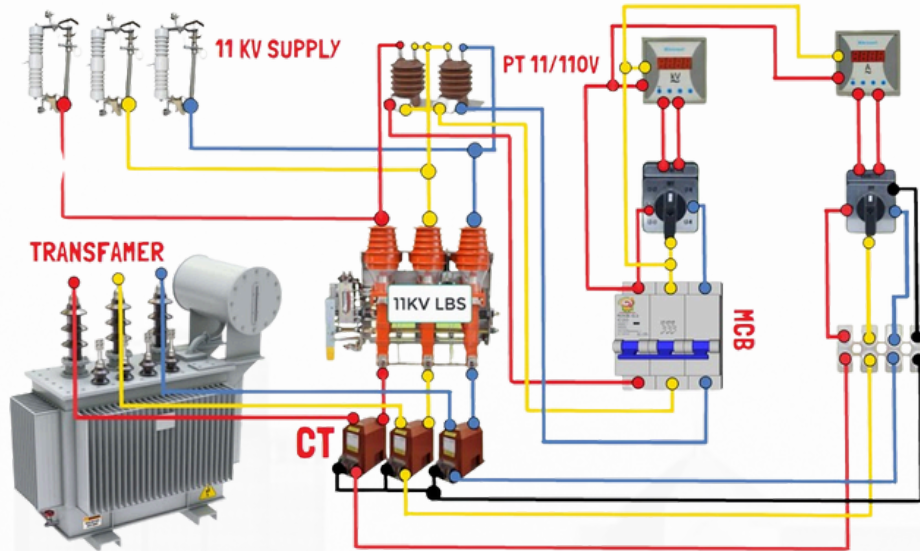


High Tension **HT Panel Work**

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High Tension Panel Work

Components And Labels



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24/7 Technical Support

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Cost-Effective Solutions

High efficiency, reduced power losses, and long lifespan ensuring value for money.



Advanced Testing

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PRODUCT

Details

High Tension Panels are designed for safe and reliable power distribution with VCB/SF6 technology, high-conductivity busbars, advanced protection relays, digital metering, arc-proof construction, interlocking systems, SCADA compatibility, strong CRCA fabrication, IP-rated enclosures, easy maintenance access, and compliance with IS/IEC standards for efficient high-voltage operations.



Specification	Details
Product Name	HT Panel (High Tension Panel)
Voltage Range	11kV / 22kV / 33kV
Panel Type	VCB / SF6 / RMU Panels
Construction	CRCA body, powder coated
Busbar	Copper/Aluminium, insulated
Protection	OCR, EFR, SC, Relay Protection
Dimensions	1850 × 760 × 1050 mm
Installation	Indoor / Outdoor
Standards	IS/IEC compliant

KEY REDUCTIONS

Power Losses:	25%	Safety Risks	50%
Downtime:	40%	Fault Impact:	35%
Maintenance Cost:	30%	Space Requirement:	20%

(AMF PANEL WORK)

Automatic Mains Failure

"Automatic changeover. Continuous power."



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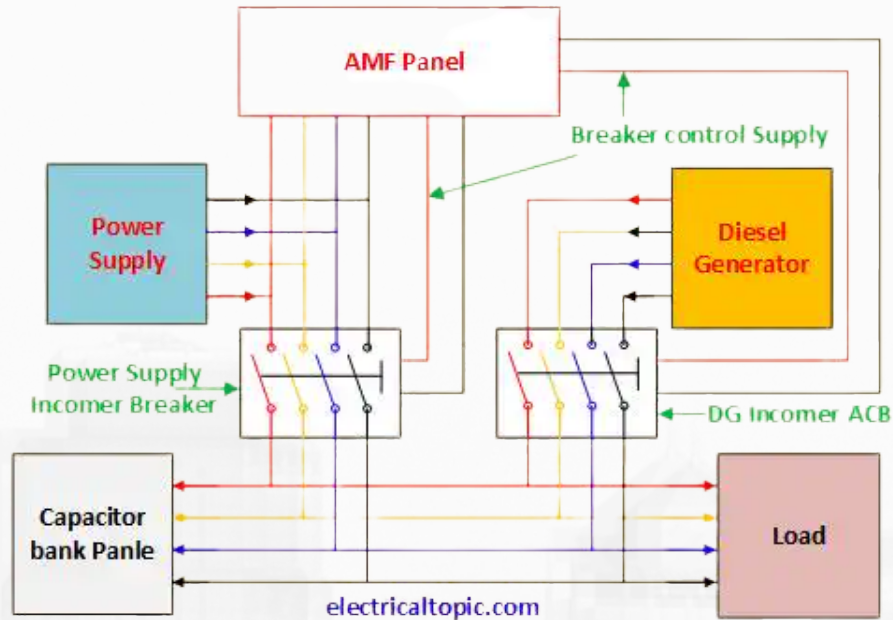
(AMF PANEL work)

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Automatic Mains Failure

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PRODUCT Details

Automatic Mains Failure (AMF) Panels ensure uninterrupted power by automatically switching to the generator during mains failure and restoring supply once power returns. They feature advanced controllers, protection relays, digital metering, safety interlocks, overload protection, smooth changeover, remote monitoring options, and reliable performance for industrial, commercial, and residential applications.



Specification	Details
Product Name	Automatic Mains Failure
Function	Auto mains-to-DG changeover
Controller	Digital/PLC-based
Switching	Contactor / MCCB
Metering	Digital volt/amp/frequency
Protection	Overload, SC, phase failure
Enclosure	CRCA, powder coated
Application	Homes, industries, hospitals
Indicators	Mains ON / DG ON / Fault

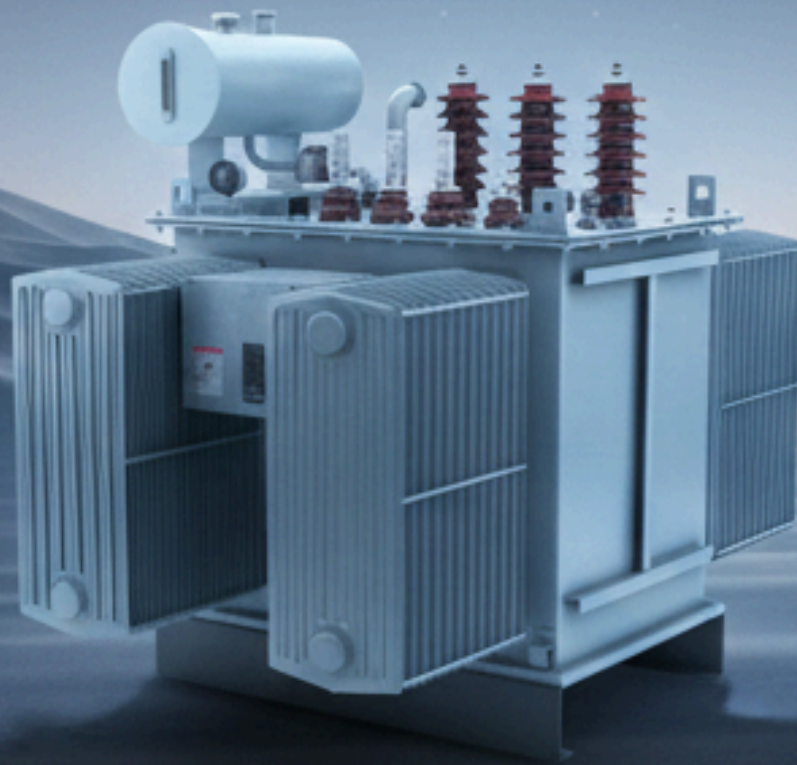
KEY REDUCTIONS

Power Interruption : 90%
Manual Switching: 100%
DG Start Delay: 85%

Equipment Damage: 40%
Human Error: 70%
Downtime : 60%

Transformer Work

"Power Delivered with Precision."



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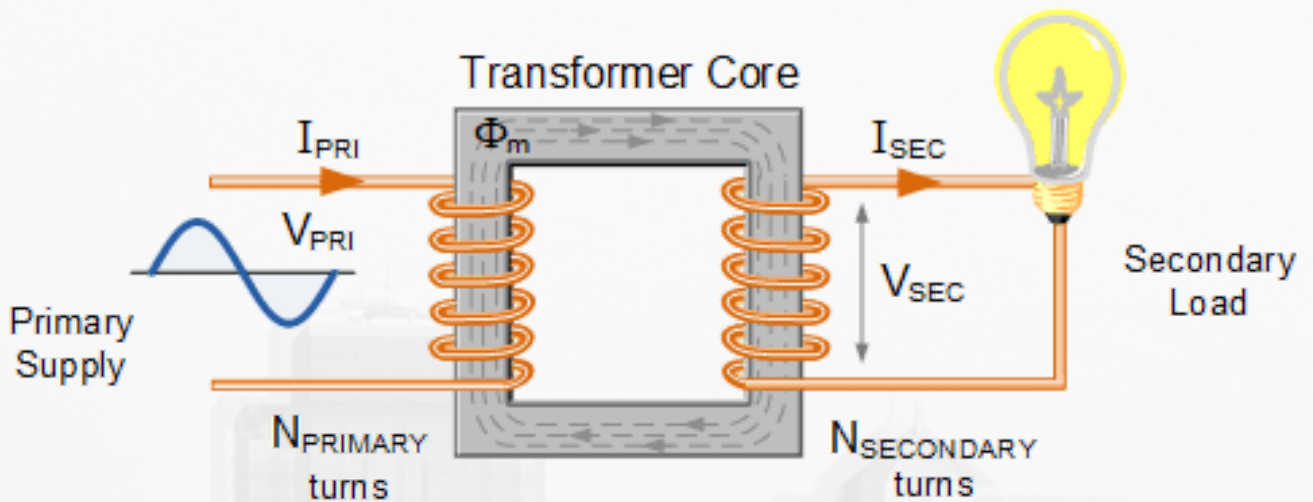
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**Transformer work**

“We deal in 15 kVA to 1010 kVA generators—new and used, sales and purchase.”

Transformer work

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Advanced Testing

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PRODUCT Details

Transformer work involves efficient voltage regulation, safe power distribution, and high-quality copper/aluminium windings with low losses. Features include robust insulation, efficient cooling systems, advanced protection relays, noise-free operation, durable CRGO cores, overload handling, reliable bushings, precise metering, strong mechanical structure, and long service life for industrial, commercial, and utility applications.



Specification	Details
Product Name	Transformer work
Capacity Range	25 kVA – 5 MVA
Voltage Levels	11kV / 22kV / 33kV
Core Material	CRGO / Amorphous Core
Windings	Copper / Aluminium
Cooling Method	ONAN / ONAF
Testing	Routine, Type & Special Tests
Application	Industrial, commercial, utility
Indicators	Mains ON / DG ON / Fault

KEY REDUCTIONS

Energy Losses: 30%
Maintenance Cost: 25%
Heat Generation: 35%

Fault Risk: 40%
Noise Levels: 20%
Downtime : 40%

Whole building substation work

"Complete Power Control for the Entire Building."



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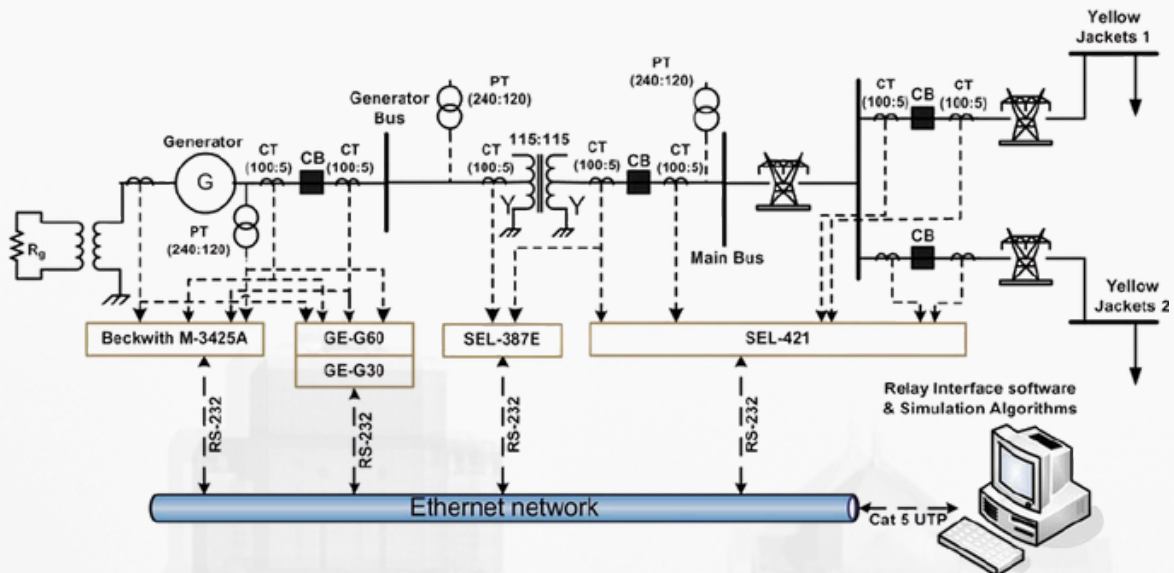
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Whole building substation work

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Whole building substation work

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PRODUCT

Details

Whole building substation work includes complete high-voltage power distribution with transformers, HT/LT panels, breakers, earthing networks, cable routing, and protection relays. It ensures safe energy flow, reliable load management, advanced metering, automated control, strong grounding, and long-term, uninterrupted electrical performance for commercial, industrial, and residential facilities.



Specification	Details
Product Name	Transformer work
Voltage	11kV / 22kV / 33kV
Core Components	Transformer, HT/LT Panels
Protection	Relays, breakers, earthing
Metering	Digital meters
Control	Auto/Manual
Installation	Indoor/Outdoor
Standards	IS/IEC compliant
Application	Industrial / Commercial

KEY REDUCTIONS

Power Losses:	30%	Fault Risk:	45%
Maintenance Cost:	25%	Safety Hazards :	50%
Energy Waste:	20%	Downtime :	40%



Company
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🌐 www.jmengineer.co.in

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