

COMPANY P R O F I L E

EXPERT
ENGINEERS

SIEMENS
Authorized Technology Partner

EFFICIENT SOLUTION | BEST SERVICE | COMPETITIVE PRICE | TIMELY DELIVERY

COMPANY DIVERSE

Expert Engineers delivers advanced electro-mechanical solutions across multiple industries. With decades of experience in power, industrial, and infrastructure sectors, our dedicated team of seasoned professionals ensures quality, on-time response, and complete customer satisfaction. We prioritize ethical, professional, and proactive services to delight our customers through in-depth knowledge and resourcefulness.

OUR OFFERINGS

TRANSFORMER DIVISION:-

DISTRIBUTION TRANSFORMER – OIL COOLED
DISTRIBUTION TRANSFORMER – DRY TYPE (CAST RESIN)
SOLAR INVERTER DUTY TRANSFORMER
WIND TRANSFORMER
INDUCTION FURNACE TRANSFORMER

SWITCHGEAR DIVISION:-

MV PANEL / VCB PANEL
HTMC (DISCOM-APPROVED)
RING MAIN UNIT (RMU)
COMPACT SUBSTATION (CSS)
GAS INSULATED SWITCHGEAR (GIS)

- **Head Office:**
Our Strategic Core
- **Manufacturing Plant:**
Cutting-Edge Facilities
- **Employee Strength:**
Skilled Excellence



- **Service Infrastructure:**
Unwavering Support
- **Testing Facilities:**
Quality Assurance Mastery
- **Design & Engineering:**
Tailored Innovation

TRUST

We possess a comprehensive understanding and profound appreciation for the multifaceted nature of trust in life. When trust is cultivated and strengthened in one domain, its positive influence extends seamlessly to encompass at other areas. Our commitment to acting with unwavering integrity is an inherent part of our organizational DNA. It is a fundamental principle that trust is nurtured when individuals exhibit vulnerability and are safeguarded from any form of exploitation.

VALUE

We are dedicated to achieving excellence, earning the respect of both colleagues & customers. We recognize the value of a harmonious work-life balance in enhancing motivation and productivity. As a cohesive team, we have unwavering trust in one another and provide mutual support while working.

MISSION

At our core, our mission is to empower individuals and organizations to reach their fullest potential. We are dedicated to delivering innovative solutions and services that enhance the lives of our customers and contribute to their success. With a steadfast commitment to integrity and a focus on building trust, we strive to create an environment where individuals can express vulnerability without fear of exploitation.

We are driven to set the standard for excellence, earning the respect and loyalty of our customers & partners. We believe in the significance of a balanced work-life approach, understanding its power to ignite motivation & drive productivity. As a united team, we place unwavering trust in one another, offering unwavering support as we collaborate towards our shared mission of empowering and enabling growth.



DISTRIBUTION TRANSFORMER
OIL COOLED

Type	Oil-cooled
Rating	Up to 5000kVA
Voltage Class	Up to 33kV
Secondary Voltage	11kV/0.433kV/0.415kV/0.400kV
Frequency	50Hz
Cooling Type	ONAN/ONAF
Vector Group	As Required
Winding Material	Copper / Aluminium
Tap Range	Off Circuit or On-Load Tap Changers for HV/LV Variation As Per Customer's Specification
Impedance	In Line With Applicable Standards/Customer's Specification
Applicable Standard	IS, IEC, IEEE Etc.

DISTRIBUTION TRANSFORMER DRY CAST RESIN



Type	Dry Type (Cast Resin)
Rating	Up to 3500kVA
Voltage Class	Up to 33kV
Secondary Voltage	11kV/0.433kV/0.415kV/0.400kV
Frequency	50Hz
Cooling Type	AN/AF
Vector Group	As Required
Winding Material	Copper / Aluminium
Tap Range	Off Circuit or On-Load Tap Changers for HV/LV Variation As Per Customer's Specification
Impedance	In Line With Applicable Standards/Customer's Specification
Applicable Standard	IS, IEC, IEEE Etc.

SOLAR INVERTER DUTY TRANSFORMER

Type	Oil-cooled
Rating	Up to 18MVA
Voltage Class	Up to 33kV
Secondary Voltage	1.1kV/0.800kV/0.660kV/0.630kV /0.440kV/0.415kV
Frequency	50Hz
Cooling Type	ONAN/ONAF
Vector Group	As Required
Winding Material	Copper / Aluminium
Tap Range	Off Circuit or On-Load Tap Changers for HV/LV Variation As Per Customer's Specification
Impedance	In Line With Applicable Standards/Customer's Specification
Applicable Standard	IS, IEC, IEEE Etc.

WIND TRANSFORMER

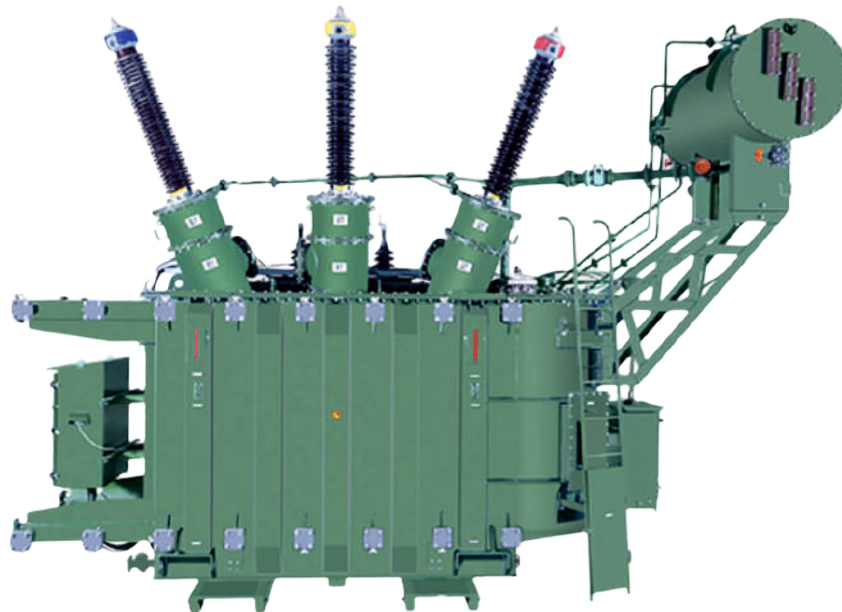


Rating	Up to 7.5MVA
Voltage Class	Up to 33kV
Secondary Voltage	1.1kV/0.975kV/0.950kV/0.690kV
Frequency	50Hz
Cooling Type	ONAN/ONAF
Vector Group	As Required
Winding Material	Copper / Aluminium Foil & Strips
Tap Range	Off Circuit or On-Load Tap Changers for HV/LV Variation As Per Customer's Specification
Impedance	In Line With Applicable Standards/Customer's Specification
Applicable Standard	IS, IEC, IEEE Etc.

INDUCTION FURNACE TRANSFORMER



Rating	Up to 7.5MVA
Voltage Class	Up to 33kV
Secondary Voltage	0.400kV - 0.600kV
Frequency	50Hz
Cooling Type	ONAN/ONAF
Vector Group	As Required
Winding Material	Copper
Insulation Class	A
Tap Range	Off Circuit or On-Load Tap Changers for HV/LV Variation As Per Customer's Specification
Impedance	In Line With Applicable Standards/Customer's Specification
Applicable Standard	IS, IEC, IEEE Etc.

POWER TRANSFORMER

Rating	Up to 20 MVA
Voltage Class	Up to 66kV
Secondary Voltage	33kV/22kV/11kV/6.6kV/3.3kV
Frequency	50Hz
Cooling Type	ONAN/ONAF
Vector Group	As Required
Winding Material	Copper Strips & CTC
Tap Range	Off Circuit or On-Load Tap Changers for HV/LV Variation As Per Customer's Specification
Impedance	In Line With Applicable Standards/Customer's Specification
Applicable Standard	IS, IEC, IEEE Etc.

MV PANEL / VCB PANEL

Voltage Class	3.3kV / 6.6kV / 11kV / 22kV / 33kV
Rating (Breaker Capacity)	21kA / 26.3kA / 31.5kA / 40kA
Panel Type	Indoor / Outdoor, Draw-out or Fixed Type
Construction	Compartmentalized, Metal Clad, CRCA Sheet, Powder Coated
Busbar Material	Copper / Aluminium
Protection Relay	Numerical Relay / Electro-mechanical Relay (As per requirement)
Breaker Type	VCB (Vacuum Circuit Breaker)
Ingress Protection	IP42 (Indoor) / IP54 (Outdoor)
Metering	Ammeter, Voltmeter, kWh Meter, CT/PT based metering
Control Supply	110V DC / 220V DC
Interlocking	Mechanical & Electrical Interlocking
Safety Features	Arc-proof design, Shutters, Earthing Switch
Standards	IS 3427 / IEC 62271-100 / IEC 62271-200
Application	Industries, Commercial Buildings, Utilities, Substations

HIGH TENSION METERING CUBICLE (HTMC) DISCOM-APPROVED



Voltage Class	11kV / 22kV / 33kV
Metering Type	HT CT-PT Metering, ABT / TOD Metering
Construction	Sheet Steel Enclosure, CRCA / Powder Coated
CT/PT Type	Resin Cast CT/PT, Oil-Cooled PT (as required)
Accuracy Class	CT: 0.2s / 0.5s, PT: 0.5
Ingress Protection	IP42 / IP54
Busbar Material	Copper / Aluminium
Metering Components	CT, PT, Energy Meter, MFM, Fuses, Terminals
Interlocking	Mechanical & Electrical Interlocking
Safety Features	Arc-proof Construction, Lockable Doors
Standards	IS 2705, IS 3156, IEC Standards
Application	Utilities, Industries, Commercial, DISCOM Connections

RING MAIN UNIT (RMU)



Voltage Class	11kV / 22kV / 33kV
Configuration	2 Way / 3 Way / 4 Way / As per Client Requirement
Switch Type	SF6 Insulated Load Break Switch / Vacuum Circuit Breaker
Short Circuit Rating	Short Circuit Rating* 21kA / 26.3kA
Construction	SF6 Gas Insulated, Stainless Steel Tank
Protection Relay	Numerical Relay / Electromechanical (As required)
Ingress Protection	IP54 / IP67
Control Supply	24V DC / 30V DC / 110V DC
Interlocking	Mechanical & Electrical Interlocking
Safety Features	Explosion-Proof Design, Pressure Relief
Standards	IEC 60265 / IEC 62271-200
Application	Distribution Networks, Ring Feeders, Utilities

COMPACT SUBSTATION (CSS)



Voltage Class	11kV / 22kV / 33kV
Rating	Up to 3500kVA
Components	RMU + Transformer + LT Panel
Transformer Type	Oil-Cooled / Dry Type
Construction	Compartmentalized CRCA Sheet, Powder Coated
Ingress Protection	IP54 / IP55
Cooling Type	ONAN / AN (for dry type)
Protection	HT & LT Protection Relays, Fuses, MCBs
Busbar Material	Copper / Aluminium
Safety Features	Arc-proof, Fire-resistant, Cable Entry Protection
Standards	IEC 62271 / IS 14786
Application	Industries, Buildings, Malls, Substations

GAS INSULATED SWITCHGEAR (GIS)



Voltage Class	33kV / 66kV / 132kV
Insulation Medium	SF6 Gas
Busbar Type	Single Bus / Double Bus
Short Circuit Rating	31.5kA / 40kA
Construction	Fully Enclosed, Modular, SF6 Gas Tank
Breaker Type	Vacuum Circuit Breaker / SF6 Breaker
Ingress Protection	IP65
Control Supply	24V / 30V / 110V / 220V DC
Interlocking	Mechanical & Electrical Interlocking
Safety Features	Gas Pressure Monitoring, Arc-proof
Standards	IEC 62271-203
Application	High-Rise Buildings, Metro, Power Plants, Utilities

OUR CLIENTS





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MANUFACTURING FACILITIES

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