



- EQUIPMENT SUPPLIER
- ELECTRICAL CONSULTANCY
- ELECTRICAL CONTRACTING

**Transforming Technology | Transforming World**

**BHARDWAJ SALES CORPORATION**



# ABOUT BHARDWAJ SALES CORPORATION

**We, Bhardwaj Sales Corporation,** are an ISO 9001:2008 certified organization, proudly serving the electrical industry since 2024.

As a comprehensive solutions provider for all your electrical requirements, we specialize in the supply and stocking of a wide range of electrical products. Our portfolio includes HT Circuit Breakers, Power and Distribution Transformers, DG Sets, Wires and Cables, Cable Jointing Kits, Protection Relays, AESD systems, Automatic Voltage Regulators, Industrial Fans, and related accessories.

With decades of expertise and a commitment to quality, we continue to serve as a trusted partner for reliable and efficient electrical solutions.

## VISION

To be a trusted industry leader, delivering innovative, reliable, and sustainable solutions in the electrical engineering domain, while fostering long-term value for our clients, partners, and communities.

## MISSION

1. To deliver high-quality electrical products and solutions with integrity, efficiency, and a strong focus on customer satisfaction.
2. To provide reliable, innovative, and cost-effective electrical solutions while upholding the highest standards of service and professionalism.
3. To build long-term relationships through excellence in supply, service, and support, contributing to the success of our clients and partners.
- 4.To consistently meet and exceed client expectations through expertise, timely delivery, and continuous improvement.



## VALUES

1. Integrity, commitment, and transparency in every interaction.
2. Customer-centric approach with a focus on quality and reliability.
3. Continuous innovation and adaptability to drive excellence.
4. Respect for people, partnerships, and long-term relationships.
5. Accountability, teamwork, and a passion for delivering results.

## OUR ADVANTAGES

- Complimentary Free Expert Maintenance, Support and Service on selected equipment's
- End-to-End Turnkey Solutions for Electrical Projects, from Planning through Execution
- Specialized Service for Power and Distribution Transformers
- Comprehensive Annual Maintenance Contracts (AMC) for Reliable After-Sales Support
- Skilled and Certified Personnel Dedicated to Customer Assistance

## WHO WE ARE

We guarantee authentic products offered at highly competitive rates. Our marketing and service networks extend across numerous cities throughout India.

Our team comprises skilled and proactive professionals dedicated to quality service.

We actively encourage and value customer feedback and inquiries. Timely delivery remains our foremost commitment.

## WHAT WE DO

Our work involves providing power continuity and energy efficiency through a diverse product portfolio. From transformer oil field systems and dry-type transformers, to HT AVR's, electrical panels, and DG sets, we offer end-to-end solutions for power management. We assist our clients in selecting, sourcing, and installing the right equipment based on their specific operational needs.



## ACCELERATING OUR PRESENCE IN RENEWABLE ENERGY



**3.6 MVA 33/0.950 kV Aluminium Foil wound  
WTG Transformer designed for 3.3 MW  
Wind Turbine has successfully passed  
Dynamic Short Circuit Tests,  
Lightening Impulse Test & Temperature Rise Test**

**3.6 MVA 33/0.800 kV Copper wound  
Inverter Duty Transformer successfully passed  
Lightening Impulse & Temperature Rise Test**





## POWER TRANSFORMERS - UP TO 66 KV CLASS

- Oil Cooled Power Transformers up to 20 MVA
- Furnace Transformers up to 10 MVA
- Shunt and Series Reactor as per requirements
- Dynamic Short Circuit Test passed at CPRI
  - 8 MVA 11/3.6 kV CU wound Power Transformer - 2024
  - 6.3 MVA 11/6.9 kV CU wound Power Transformer - 2024
  - 5 MVA 33/11 kV CU wound Power Transformer - 2023
- 12.5 MVA AL wound 5 winding Inverter Duty Transformer is under development
- 7.2 MVA 33/0.660-0.660 kV 3 winding AL wound IDT is under execution
- 8 MVA 11/3.6 kV Power Transformer supplied to BHEL, Tuticorin Thermal power plant in 2025



## DISTRIBUTION TRANSFORMERS - UP TO 33 KV CLASS

- Non-Sealed Transformers up to 5 MVA
- Hermetically Sealed Corrugated Fins based Transformers up to 3 MVA
- BIS Approved Distribution Transformers up to 2500 KVA as per IS 1180: Energy Efficiency Level 1 & 2
- ONAN: IS 1180: Part 1 & KNAN: IS 1180: Part 3
- Converter Duty, Inverter Duty, Rectifier Duty, Generator Duty Transformers
- Dual Primary or Multi-Secondary Transformers
- +30 configurations are Type Tested in NABL Labs
- CU & or AL wound, both options are available as per customer's requirement
- 3.6 MVA 33/0.950 kV AL Foil wound WTG Transformer passed Dynamic Short Circuit Tests & Lighting Impulse Test for 3.3 MW Wind Turbine Application
- 3.6 MVA 33/0.800 kV CU wound IDT Transformer passed Lighting Impulse Test for Solar Application
- Environ Green & Fire Safe Distribution Transformers filled with Natural Ester oil as per IS16659, IEC 62770 (KNAN), offers enhanced Fire Safety, Biodegradability & loadability.





## DRY TYPE TRANSFORMERS

- Product Range: Up to 7.5 MVA 3.3 / 6.6 / 11 / 22 / 33 kV Class
- Best in Class Cast Resin and Vacuum Pressure Impregnated Transformers
- Insulation Class: CRT F or H, VPI: C, F or H,
- Cooling: AN / ANAF
- Air Type On Load Tap changer for 11 kV
- Vacuum Type On Load Tap changer for 22 kV and 33 kV
- CU & or AL wound, both options are available as per customer's requirement
- As per : IS 2026: Part 11 & IEC 60076
- Comply to latest ECBC Standard
- Available for Indoor application i.e. IP 21, IP 23 & Outdoor application i.e. IP 44
- Energy-efficient, Reliable and Fire Safe Solutions
- Series Reactor are available as per customer's requirement
- Expertise in to supply of Excitation Duty Transformer for Hydro Application



### UNIQUE CREDENTIALS & STRENGTH – DRY TYPE

- Diversified Engineering expertise of 30 years i.e. one of the oldest experienced & established manufacture in India
- 100 configurations are Type Tested in NABL Labs
- Highest Rating Passed for Lightning Impulse Tests of 5 MVA 11/3.45 kV CU wound Transformer
- Highest Rating passed for Dynamic Short Circuit Test of 2500 KVA 11/0.433 kV and 6.6/0.433 kV CU wound Transformer with LV current of 3333 A
- Highest Rating passed for Dynamic Short Circuit Test & Lighting Impulse of 1000 KVA & 630KVA 11/0.433 kV AL wound Transformer in year 2025 Supply to Adani Electricity Mumbai – 25 Nos.
- Multi-Secondary Transformers
  - Supplied 1600 KVA with 40 secondaries to M/s BARC Mumbai
  - Supplied 2800 KVA with 32 secondaries to M/s ITER India
  - Supplied 1200 KVA with 16 secondaries to M/s ITER India
- Highest Rating passed for three winding Converter Duty application i.e. Dynamic Short Circuit Test & Lighting Impulse Tests of 2250 KVA 22/0.590-0.590 KV





## COMPACT – UNITIZED – PACKAGE SUBSTATION

- Product Range: Up to 3000 KVA 33 kV Class
- Comprises of HT & LT Compartment of IP 54 & Transformer IP 23
- AMES IMPEX make Cast Resin Dry Type & or Hermetically Sealed ONAN/ KNAN
- Distribution Transformer as per application & customized requirement Compliant to IEC 62271-202
- Enhanced Safety Features with Digital communication for BMS connectivity
- Floor Mounted, Non-walk-in type suitable for Indoor & Outdoor applications
- Space & Cost Optimization, ease of installation & commissioning
- Supports for on time project completion with one Window World Class solution
- Aesthetically appealing & safety interlock approach
- Installations in India and overseas
- APFC Banks can also integrate as per requirements
- Largest CSS under supply: 3000 KVA 11 kV CRT OLTC with 3 Way VCB and 5000 AACB

**“AMES IMPEX” make Mineral oil filled Distribution Transformer  
Losses Table BIS IS 1180: Part 1: 2014 &  
Amendment 4 dated 01.04.2022**

**2025**

**ONAN**

**Natural Ester Oil filled Distribution Transformer : Losses Table  
Reference Standard: IS 1180: Part 3: 2021**

**KNAN**

Upto 11 KV / 0.433 or 0.415	Energy Efficiency Level 1		
Rating (kVA)	Total Losses @ 50% Load	Total Losses @ 100% Load	Z%
	Watts	Watts	Impedance
250	980	2930	4.50%
315	1025	3100	4.50%
400	1225	3450	4.50%
500	1510	4300	4.50%
630	1860	5300	4.50%
800	2287	6402	5.00%
1000	2790	7700	5.00%
1250	3300	9200	5.00%
1600	4200	11800	6.25%
2000	5050	15000	6.25%
2500	6150	18500	6.25%

Upto 11 KV / 0.433 or 0.415	Energy Efficiency Level 2		
Rating (kVA)	Total Losses @ 50% Load	Total Losses @ 100% Load	Z%
	Watts	Watts	Impedance
250	920	2700	4.50%
315	955	2750	4.50%
400	1150	3330	4.50%
500	1430	4100	4.50%
630	1745	4850	4.50%
800	2147	5837	5.00%
1000	2620	7000	5.00%
1250	3220	8400	5.00%
1600	3970	11300	6.25%
2000	4790	14100	6.25%
2500	5900	17500	6.25%

Upto 22 KV / 0.433 or 0.415	Energy Efficiency Level 1		
Rating (kVA)	Total Losses @ 50% Load	Total Losses @ 100% Load	Z%
	Watts	Watts	Impedance
250	1029	3077	4.50%
315	1076	3255	4.50%
400	1286	3623	4.50%
500	1586	4515	4.50%
630	1953	5565	4.50%
800	2401	6722	5.00%
1000	2930	8085	5.00%
1250	3465	9660	5.00%
1600	4410	12390	6.25%
2000	5303	15750	6.25%
2500	6458	19425	6.25%

Upto 22 KV / 0.433 or 0.415	Energy Efficiency Level 2		
Rating (kVA)	Total Losses @ 50% Load	Total Losses @ 100% Load	Z%
	Watts	Watts	Impedance
250	966	2835	4.50%
315	1003	2888	4.50%
400	1208	3497	4.50%
500	1502	4305	4.50%
630	1832	5093	4.50%
800	2254	6129	5.00%
1000	2751	7350	5.00%
1250	3381	8820	5.00%
1600	4169	11865	6.25%
2000	5030	14805	6.25%
2500	6195	18375	6.25%

Upto 33 KV / 0.433 or 0.415	Energy Efficiency Level 1		
Rating (kVA)	Total Losses @ 50% Load	Total Losses @ 100% Load	Z%
	Watts	Watts	Impedance
250	1054	3150	4.50%
315	1102	3333	4.50%
400	1317	3709	4.50%
500	1623	4623	4.50%
630	2000	5698	4.50%
800	2459	6882	5.00%
1000	2999	8278	5.00%
1250	3548	9890	5.00%
1600	4515	12685	6.25%
2000	5429	16125	6.25%
2500	6611	19888	6.25%

Upto 33 KV / 0.433 or 0.415	Energy Efficiency Level 2		
Rating (kVA)	Total Losses @ 50% Load	Total Losses @ 100% Load	Z%
	Watts	Watts	Impedance
250	989	2903	4.50%
315	1027	2956	4.50%
400	1236	3580	4.50%
500	1537	4408	4.50%
630	1876	5214	4.50%
800	2308	6275	5.00%
1000	2817	7525	5.00%
1250	3462	9030	5.00%
1600	4268	12148	6.25%
2000	5149	15158	6.25%
2500	6343	18813	6.25%



# ONLINE UPS RANGE 5 KVA TO 500 KVA



7.5 to 40 KVA – 3Ø in/1Ø out

## Specifications

Input Voltage	Three Phase
Voltage range	340 to 460 V
Frequency	45-55 Hz
<b>INVERTER</b>	
Output Wave Form	Pure Sine Wave
Output voltage	220 V
Output voltage regulation	+/- 1%
Output Frequency	50Hz +/- 0.01%
Output Isolation	Galvanic Isolation
Power Factor	0.8 to unity
THD	Less than 3%
Technology	Micro Controller based Hi Freq. PWM
Overload Capacity	110%
Crest Factor	4:1
Transient Recovery	Within 3 cycle
<b>BATTERY CHARGER</b>	
Charger Type	Constant Voltage Constant Current
Charging Mode	Trickle, Float & Boost
<b>OPERATING CONDITIONS</b>	
Operating Temperature	0-45° C
Humidity	90% Non Condensing
Noise Level	Less than 45dB
<b>RESPONSE TIME</b>	
Transfer Time	0 ms
<b>DIMENSIONS (W x L x H)</b>	
7.5 - 15KVA	450 mm x 600 mm x 800 mm
20, 25, 30 & 40KVA	450 mm x 800 mm x 825 mm

10 to 300 KVA – 3Ø in/3Ø out

## Specifications

Input Voltage	Three Phase
Voltage range	340 to 460 V
Frequency	45-55 Hz
<b>INVERTER</b>	
Output Wave Form	Pure Sine Wave
Output voltage	415 V/400 V/380 V
Output voltage regulation	+/- 1%
Output Frequency	50Hz +/- 0.01%
Output Isolation	Galvanic Isolation
Power Factor	0.8 to unity
THD	Less than 3%
Technology	Micro Controller based Hi Freq. PWM
Overload Capacity	110%
Crest Factor	4:1
Transient Recovery	Within 3 cycle
<b>BATTERY CHARGER</b>	
Charger Type	Constant Voltage Constant Current
Charging Mode	Trickle, Float & Boost
<b>OPERATING CONDITIONS</b>	
Operating Temperature	0-45° C
Humidity	90% Non Condensing
Noise Level	Less than 45dB
<b>RESPONSE TIME</b>	
Transfer Time	0 ms
<b>DIMENSIONS (W x L x H)</b>	
10, 15, 20 & 25KVA	450 mm x 800 mm x 825 mm
30 - 60KVA	500 mm x 1020 mm x 910 mm

# SERVO VOLTAGE STABILIZER



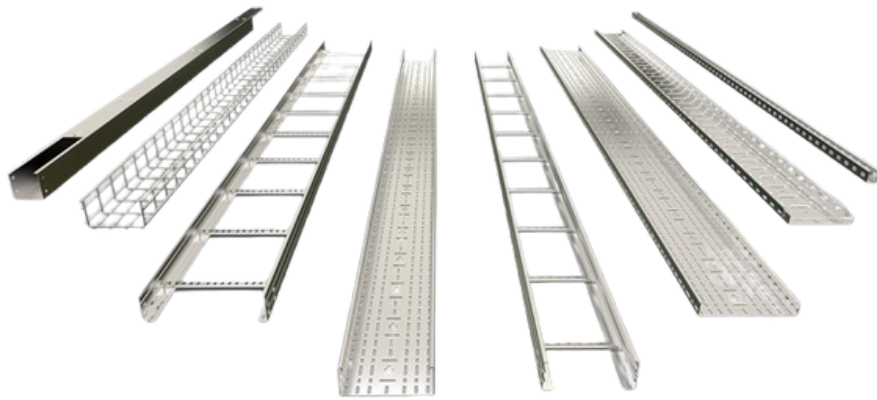
In our modern world, the reliability of electrical appliances and systems is critically dependent on a stable power supply. This is where a servo voltage stabilizer comes into play. Designed to provide consistent voltage levels, a servo voltage stabilizer helps protect sensitive electronic devices from fluctuations that can lead to serious damage or operational failure.

## TECHNICAL SPECIFICATIONS:

Item	Servo Controlled Voltage Stabilizer
Capacity	1.0 KVA to 2000 KVA
Cooling	Air and Oil Cooled in two separate modules
Type	Indoor, Floor Mounting (Balanced/Unbalanced)
Input Voltage Range	<ul style="list-style-type: none"><li>• 300-460 V/ 320-460 V/340-460 V/360-460 V in 3-phase, 4 wires AC system</li><li>• 170-270 VAC/ 140-270 VAC, Single Phase or any voltage range as per requirement for both Single and Three Phase</li></ul>
Output Voltage	<ul style="list-style-type: none"><li>• 380 VAC/ 400 VAC/ 415 VAC <math>\pm</math> 1%, 3 phase, 50 Hz</li><li>• 220 VAC/ 230 VAC <math>\pm</math> 1%, Single Phase or any voltage as per requirement for both Single and Three Phase</li></ul>
Output Voltage Adjustment	$\pm$ 5%
Frequency Range of Operation	47-53 Hz
Correction Speed	35 volts/sec.
Control Circuit	Solid-state electronic plug-in PCB circuits
Efficiency	<ul style="list-style-type: none"><li>• Above 98% at full load</li><li>• Above 95% at half load</li></ul>
Adjustment	Output voltage level and correction sensitivity to be adjustable



# CABLE TRAYS



Cable Trays has been a pioneer in advanced cable management solutions, operating With a focus on supplying high-performance cable tray systems, the company delivers future-ready products designed for critical industrial applications. The product portfolio includes frp cable tray, solid bottom cable tray, gi trunking cable tray, industrial ladder cable tray, slotted waveguide channel, and steel cable tray bend, all engineered for strength, durability, and superior cable organization. Every solution offers seamless integration with existing systems, catering to a broad spectrum of industries with unique installation requirements.

# CABLE AND WIRES



Cables and wires are vital components in the orchestration of modern electrical systems, serving as the conduits through which power and signals are transmitted. While the terms ‘cable’ and ‘wire’ are often used interchangeably in casual conversation, they denote different aspects of electrical components.

A wire is generally a single electrical conductor, typically made from a metal such as copper or aluminum. These materials are chosen for their high conductivity, allowing electricity to flow with minimal resistance. Wires come in various gauges, presented in numeric sizes that indicate the diameter of the wire; the smaller the gauge number, the larger the diameter. This sizing affects the wire’s capacity to carry current, with larger wires able to handle more electricity safely.

## THEY TRUST US.....

HYDRO									
THERMAL									
NUCLEAR									
RENEWABLE WIND & SOLAR									
AUTOMOBILE									
UTILITIES									
COMMERCIAL BUILDINGS									
HOTELS									
MALLS									
OEM									
STEEL PLANTS									
									
PORTS									



THEY TRUST US.....

## HOSPITALS



## IT PARKS



## INDUSTRIES



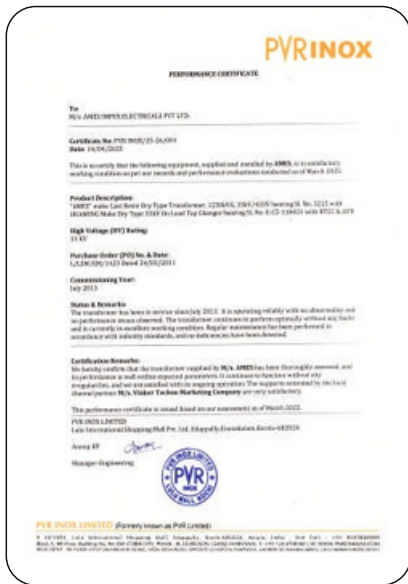
## MINES



**OTHERS**



## TESTIMONIALS







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