

Since 1985



**Transforming Technology | Transforming World**

---

**AMES IMPEX ELECTRICALS PVT. LTD.**



## CREDENTIALS & STRENGTH

- "AMES IMPEX" is a Leading and Trusted Brand over last 40 years in Electrical Power Industry
- **1985:** Established as a SSI unit in Ahmedabad, Gujarat with manufacturing of ONAN Transformers
- **1991:** Supplied 1st order of 250 KVA and 315 KVA Converter Duty VPI to Selam Steel Plant, Tamil Nadu via BHEL ISG BLR
- **1995:** Expanded product range to include Cast Resin Dry Type Transformers, supplied 1st order of 1000 KVA to ONGC Mumbai off shore
- **1997:** Technological Collaboration with M/s Electromeccanica Italy for developing and establishing Cast Resin Transformers for Indian Market
- **2014:** Shifted & expanded the plant capacity at GIDC Gozaria Industrial Area
- Facility built-up in 4.13 acres with a production area of 7150 Sq. Meter
- Dust proof and air-condition winding section facility with Annual production capacity of 1500 MVA

## \* CERTIFICATIONS \*





## 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 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 & Lightning 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 & Lightning 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

|                                                                                                                                                  |             |
|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| <b>"AMES" make Mineral oil filled Distribution Transformer<br/>Losses Table BIS IS 1180: Part 1: 2014 &amp;<br/>Amendment 4 dated 01.04.2022</b> | <b>2025</b> |
|                                                                                                                                                  | <b>ONAN</b> |
| <b>Natural Ester Oil filled DistributionTransformer : Losses Table<br/>Reference Standard: IS 1180: Part 3: 2021</b>                             | <b>KNAN</b> |

| 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%     |

## THEY TRUST US.....

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

|                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |   |   |  |  |  |
|  |  |  |  |  |                                                                                     |



|                                                                                     |                                                                                       |                                                                                       |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|







## ❄️ TESTIMONIALS ❄️

[illegible]



Transforming Technology | Transforming World



## AMES IMPEX ELECTRICALS PVT. LTD.

**Address:** Plot No. 22, 23, 30, 31, Nirmal Industrial Park, New GIDC,  
At & Post - Gozaria, Dist. Mehsana - 382 825, Gujarat, India.

✉ info@amesimpex.com | nikkhil.paathak@amesimpex.com

☎ +91 70961 00774

[www.amesimpex.in](http://www.amesimpex.in)