



(Formerly Known As PME Transformers (India) Ltd.)

An ISO 9001, 14001, OHSAS 18001 & NABL Accredited Company

## VPI DRY TYPE TRANSFORMERS

PME manufactures Dry Type Transformers ranging from 25 kVA to 3150 kVA of voltage class up to 33 kV. These transformers are fitted in enclosures suitable for indoor installation (IP21, 23) as well as for outdoor installation (IP45)

PME in association with El Dupont USA manufactures Dry Type Transformers with certified insulation materials & system meeting the international standards for quality of design, manufacturing and performance as per IEC 60076-20.

The vacuum pressure impregnation technology adopted is superior to conventional oil filled & Cast Coil transformers as explained below.

| Sr. No. | Parameters             | VPI                                        | Cast Resin          | Oil Filled                                       |
|---------|------------------------|--------------------------------------------|---------------------|--------------------------------------------------|
| 1.      | Conductor Insulation   | Nomex                                      | Non-Woven Polyester | Paper                                            |
| 2.      | Thermal Rating         | Class C                                    | Class F             | Class A                                          |
| 3.      | Process                | Conventional Winding with nomex insulation | Cast Mould          | Conventional winding with press board insulation |
| 4.      | Impregnation           | Resin (Vacuum Pressure)                    | Resin (Vacuum cast) | Oil (Vacuum)                                     |
| 5.      | Coil Strength          | Excellent                                  | Cracking of coils   | Poor mechanical strength                         |
| 6.      | Over Loading           | Yes, due to Ventilation                    | No                  | Marginal                                         |
| 7.      | Repair                 | Possible                                   | Not Possible        | Possible                                         |
| 8.      | Safety                 | No Toxic Gases                             | Partial Emission    | Emission of Toxic Gases                          |
| 9.      | Partial Discharge      | No                                         | Average             | High                                             |
| 10.     | Pilferage              | No                                         | No                  | Yes                                              |
| 11.     | Maintenance            | No                                         | No                  | Yes                                              |
| 12.     | Short Circuit Strength | Excellent                                  | Excellent           | Poor                                             |

These transformers are as per IS 11171/SAN 180 and IEC 60076-20

The energy efficient transformers can also be supplied using Amorphous core & no load losses are reduced by 70%.

The winding temperature indicator is provided & operated by RTD placed in the winding. The terminations can be bushings/cable box suitable for cable sealing.

The tap changing is usually affected by means of links or off circuit switch provided with handle on enclosure.

### APPLICATIONS

- Underground substations
- Chemical plants
- Solar & wind power
- High rise buildings
- Safety hazard locations
- Overhead distribution (Pole mounting)



CORE & WINDING ASSEMBLY



TRANSFORMER HOUSED IN ENCLOSURE



TRANSFORMER HOUSED IN ENCLOSURE WITH HV & LV TERMINALS

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