VARDHMAN ELECTRO-MECH PVT. LTD.

VARDHMAN®
ELECTROMECH

INNOVATION | RELIABILITY | QUALITY

ABOUT US

Vardhman Electromech Pvt Ltd. is one of the leading quality manufacturer of Oil Cooled, Solar Inverter Duty Type and Dry Type Transformers based at Jaipur (Rajasthan) India. Established in year 1997 by a team of visionaries, Vardhman has supplied its transformers to industrial giants like L&T Construction, Cairn Energy, Hindustan Zinc Limited, ABB & NCC to name a few and also supplied to various State Bodies/Utilities such as NHAI, PWD, RHB, RSRDCL, KMDA, RRVPNL, JdVVNL, AVVNL, JVVNL etc. Vardhman has implemented ISO 9001-2015 system to ensure quality at each stage be it in-coming, in-process, outgoing or final stage inspections. With the help of our vendor partners and ample in-house manufacturing facility, Vardhman is able to produce and supply its quality products to its customers on time.

Spanning over an area of 1,20,000 sqft. Vardhman has state of the art manufacturing equipments and testing facility. Its testing Laboratory is fully equipped with necessary instruments to carry out Routine Tests as per required relevant standards. Vardhman has the facility to design, manufacture and test 25MVA 33KV Class Transformers and has an annual capacity of 3000 MVA. With the combination of constant innovation and R&D, Vardhman is able to cater successfully to the industries' changing needs over the years. Our main objective at Vardhman is to support and respond on time to its esteemed customers in every possible way so that partnership can go a long way.

We have complete range BIS Marked Transformers manufactured as per IS 1180:2014 both in aluminium and Copper Winding.

TECHNICAL COMPETENCY

Has Type test on over 75 Various designs, Including Compact Sub Station, Dry Type Transformer, Bio Ester Oil Type Transformer, Hermetically Sealed Transformer and Mineral Oil type transformers. In house designers and engineers with average industry experience of more than 21 years, also association with nationally acclaimed industry technical personals.

PLANT MACHINERY & TESTING EQUIPMENTS

Two testing benches with all latest equipment, calibrated with NABL recognised laboratory. Plant is Equipped with 5 overhead cranes with maximum capacity of 25 ton. The plant has machineries to manufacture and test transformer up to rating 25 MVA up to 66 KV class.

ACHIEVEMENTS/ACKNOWLEDGMENT

Vardhman has won many awards and accolades across the nation. The plant is certified with ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 from reputed institution like NABCB. We have performance certificates by many Industry giants like L&T, NCC, Cairn Energy, Gammon etc. also from government electricity boards, Military engineering Services Etc.

HIGHLIGHTS

- We are transformer experts based in Jaipur, serving industries since last 28 years.
- We have served more than 250 clients across 15 states.
- We have supplied transformers worth ₹1530 crores, powering infrastructure projects valued at over ₹3 lakhs crores across India.
- Currently, 109 infrastructure companies are associated with us.
- Our client retention rate is above 91%.

PRODUCTS

OIL FILLED TRANSFORMERS

Vardhman make Oil filled transformers are innovatively engineered to achieve optimum performance for its unique application.

SALIENT FEATURES:

- Step Up and Step down transformers
- Sturdy designs to withstand unpredictable system conditions
- Quality raw material and systems ensures long life of transformers
- Electrolytic Grade (EC) copper for excellent results
- Prime Grade CRGO used for longer life
- BEE complied green transformers for low losses
- Tailor made designs to meet customer requirement
- Transformers designed with all type of vector groups and tapping arrangements, in both on load tap changer and off circuit tap changer.
- Highly Customised LV & HV Termination available with Bus bar extension and Panel mounting.
- Experienced supplier of Hermetically sealed transformer with both Mineral oil filled and Bio degradable ester oil filled.
- All cooling arrangements as Corrugated panels, Pressed Steel Radiator, Elliptical tube, Air Forced or Oil Natural can be provided.

TECHNICAL DATA:

Ratings & Voltage Class	Three Phase from 25 KVA Upto 25 MVA 33KV Class
Duty	Indoor/Outdoor
Applicable Standards	IS: 2026, IEC: 60076, BS, SANS, IS1180:2014 etc
Losses	As per relevant standard/Customer requirement
Impedance	As per relevant standards or as per customer requirement
Tapping	Off Circuit Tap Changer (OCTC) or On load tap Changer (OLTC)
Vector Group	Dyn11, Dyn5, Yzn11, Ynd etc
Frequency	50 Hz
Insulation Class	A,B
Cooling	ONAN/ONAF
Winding Material	Copper(Cu)/ Aluminium (Al)
Insulating Fluid	Mineral Oil or Synthetic Ester Oil confirming to relevant standards or as per customer requirement.
Accessories and Fittings	As per customer requirement

DRY TYPE TRANSFORMERS

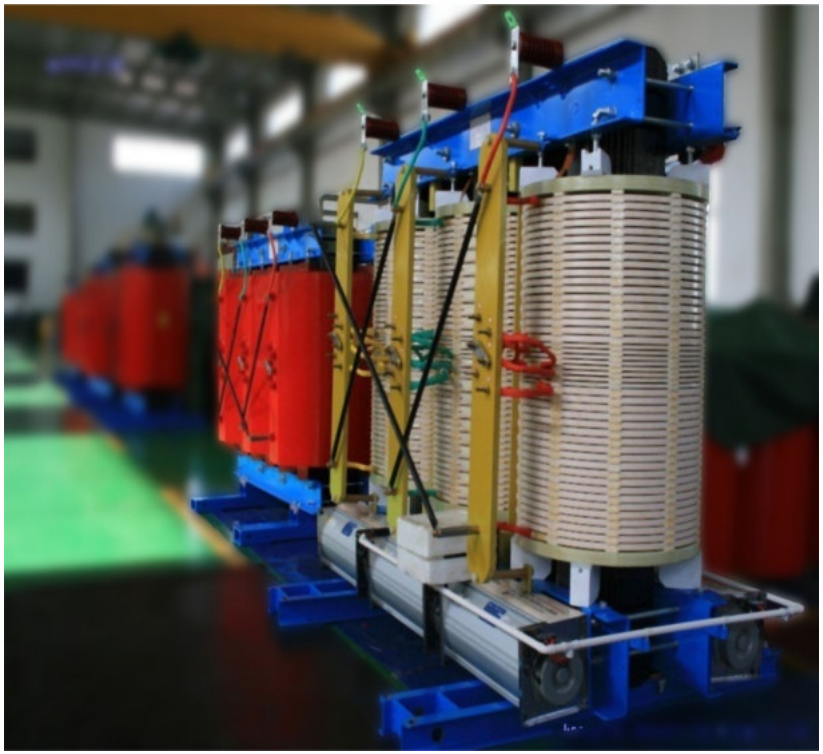
With proven designs and performing well in Western countries, Dry Type Transformers are now widely used in Indian market as well. Vardhman make Cast Resin type / Vacuum Pressure Impregnated Dry Type Transformers are engineered with precision to perform well and efficiently.

SALIENT FEATURES:

- Both Cast Resin Type & VPI Type Dry type transformers are manufactured
- Maintenance Free
- No Fire hazard therefore suitable to use in indoor applications
- Self Extinguishing and hence very safe
- High resistance to temperature fluctuations
- High Impulse and Short Circuit Strength
- Environmental friendly
- Low Partial Discharge
- Cable drop can be reduced as can be placed near to Load center
- Capable of withstanding vibration condition hence high performance in earth quack prone areas.

TECHNICAL DATA:

Ratings & Voltage Class	Three Phase from 100 KVA Up to 2 MVA 11KV Class
Duty	Indoor/Outdoor
Applicable Standards	IS: 11171, IEC: 60726, BS, SANS, ANSI,DIN etc
Losses	As per relevant standard/Customer requirement
Impedance	As per relevant standards or as per customer requirement
Tapping	Off Circuit Tap Links (OCTL) or On load tap Changer(OLTC)
Vector Group	Dyn11, Dyn5, Yzn11 etc
Frequency	50 Hz
Insulation Class	F,H
Cooling	AN/ANAF
Winding Material	Copper(Cu)/ Aluminium (Al)
Accessories and Fittings	As per customer requirement



COMPACT SUBSTATION

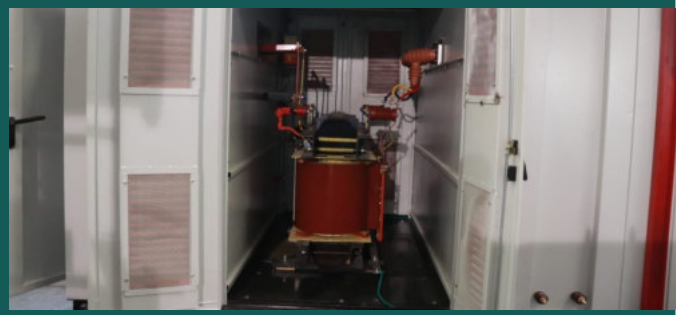
Robust, Secure, space saving power distribution solution

SALIENT FEATURES:

- Reduced electrical losses as CSS can be installed near load centres.
- Total economy in cost is better.
- Higher degree of safety and operational reliability is achieved by HT and LT switchgears and protective relays to avoid overloading.
- Reduction in logistic cost as USS is delivered as a single unit.
- Low civil / foundation cost/ Less footprints/ save space.
- Enhanced safety from environmental wear and tear
- Appealing aesthetics

TECHNICAL DATA:

Ratings & Voltage Class	3 Phase, 100 KVA up to 2500 KVA up to 24KV Class.
Duty	Indoor/Outdoor
Applicable Standards	IEC 62271 – 202 (IEC 61330) , Relevant IS.
Enclosure Construction	Modular
Maximum Ambient Temperature	50 Degree
Ventilation	Air Natural
Temperature Class	K 10
MV & LV Compartment	IP 54
Transformer Compartment	IP 23
MV Swicthgear Rated Voltage	12/24KV
Impulse (Kv p)	75/125
VCB Rated Normal Current	630



SOLAR INVERTER TRANSFORMER

Robust, Reliable & Highly Energy Efficient Transformers

SALIENT FEATURES:

- Highly energy efficient solar inverter transformers for better returns.
- Special multiple windings [3, 4, 5, etc] design on primary side as per requirement.
- Transformer enables to connect multiple inverters to the grid with minor number of transformers.
- Robust design with extra enforcement to endure fluctuations.
- Earth Shield is provided between the HV & LV windings to reduce the harmonics & path to ground any residual resonance.
- Strengthened Isolation, Extra cooling arrangement to increase the Life span.
- Enhanced safety from environmental wear and tear and appealing aesthetics.
- Type test available of solar inverter transformer.

TECHNICAL DATA:

Ratings & Voltage Class	3 Phase, up to 25 MVA & up to 33KV Class.
Duty	Indoor/Outdoor
Applicable Standards	IS: 2026, IEC: 60076, BS, SANS, ANSI etc.
Losses	Less Than 0.9% or as required.
Max Ambient Temperature	50 Degree
Ventilation	Air Natural / Air Forced
Impedance	5% to 7.5% or As per requirement
Tapping	Off Circuit Tap Changer (OCTC) / On load tap Changer (OLTC)
Vector Group	Dyn11, Dyn5, Yzn11, Ynd etc
Frequency	50 / 60 Hz
Insulation Class	A,B
Cooling	ONAN/ONAF
Winding Material	Copper(Cu)/Aluminium(Al)
Insulating Fluid	Mineral Oil or Synthetic Ester Oil confirming to relevant standards or as per customer requirement.
Accessories and Fittings	As per customer requirement

SERVICES

We understand the losses incurred by our customers when it comes to failure of transformer. That's why Vardhman has developed a dedicated team to bring back transformer into life at the earliest possible time. Apart from expertise in manufacturing new transformers, Vardhman's technical team is fully equipped to provide following services on transformers up to 25MVA 33KV Class irrespective of transformer make.

CLIENTELE

NCC Limited · HINDUSTAN ZINC LIMITED · L&T Construction · NHAI · IMA the way to ENERGY · EPI Engineering Projects (India) Ltd. A Mini Ratna Company · DATTA INFRA · Harjinfra Projects Pvt. Ltd. · BOOND SOLAR · RSRDC · meil · LIC · Roads and Buildings Department Goverment of Gujarat · Military Engineer Services · IVRCL · STERLING & WILSON · SURYADAY · Rajasthan Housing Board · PDIL · TATA POWER-DDL · CESC LIMITED · Central Electronics Limited · addwatt powering your investment · Agrawal GROUP GOA · vedanta transforming for good · TECSO GLOBAL GOING FURTHER · BSES BSES Rajdhani Power Limited · GA · HMWSSB HYDERABAD METROPOLITAN WATER SUPPLY & SEWERAGE BOARD · Public Works Departments · xylem Let's Solve Water · C&S electric · ABB · ENGIE · Schneider Electric · WOG WATER • OIL • GAS · SUNPIN RENEWABLE · ENECON · Oriano Your Clean Energy Partner · PURSHOTAM · BluPine Energy · TrueRE ORIANA POWER LIMITED · OFFSHORE ENERGY · TATA TATA PROJECTS · JK LAKSHMI · Reliance New Energy Solar Ltd · Dara Engineering & Infrastructures Pvt. Ltd. · SAEL · ultraVIBRANT · SUNKALP ENERGY · SunSource ENERGY An SHV Energy Company · TPADL TP AJMER DISTRIBUTION LIMITED · Response Energy · Kashyap Solar · vivaan solar · ib vogt · CMDA · NEERCARE · ENERMAXX PVT LTD

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