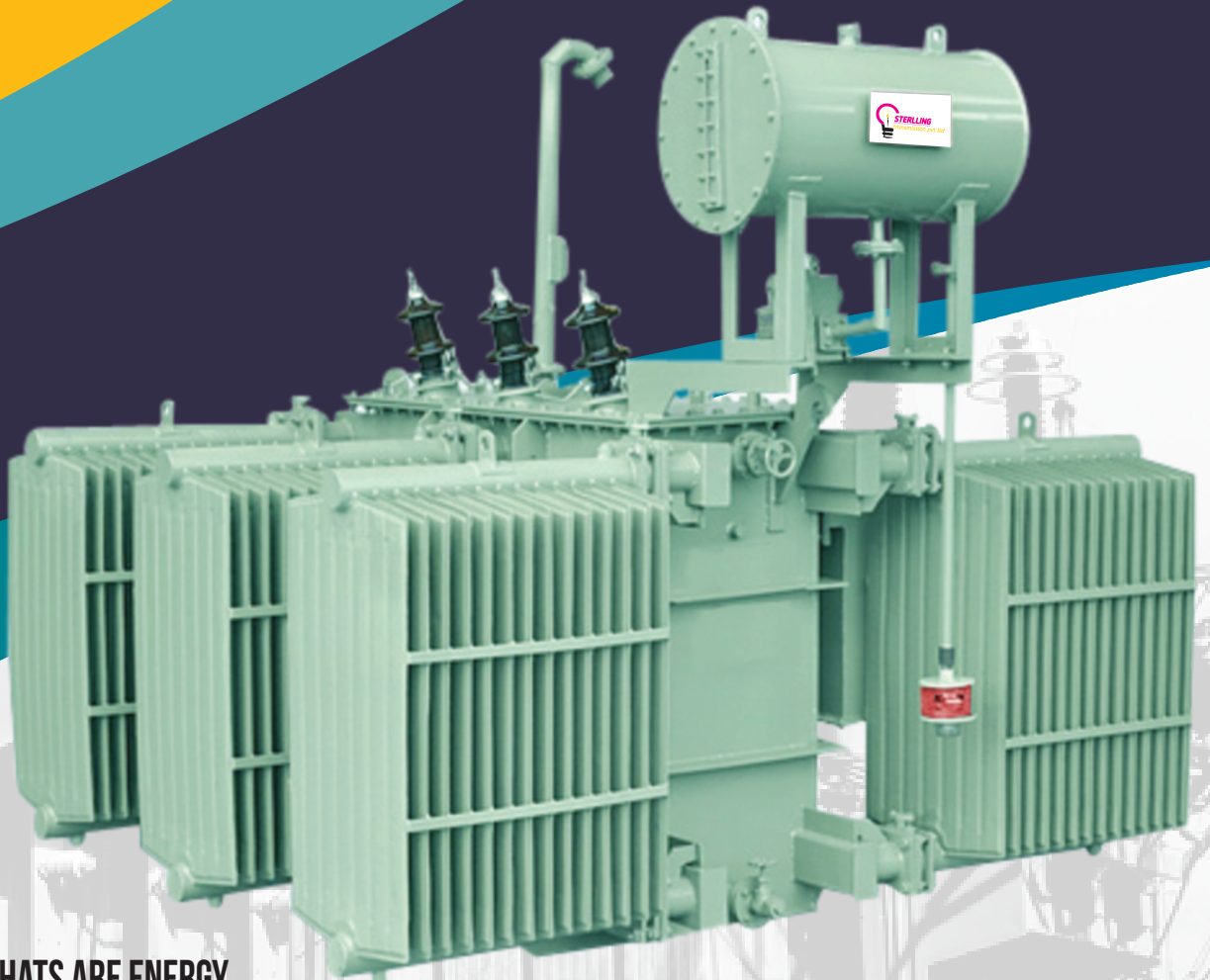


Power and Distribution Transformers

www.sterlingtransmission.com



**PRODUCTS THATS ARE ENERGY
EFFICIENT AND ENVIRONMENT FRIENDLY**

MSME
सूक्ष्म , लघु एवं मध्यम उद्यम
MICRO SMALL & MEDIUM ENTERPRISES

IS : 1180

CERTIFIED


BEE STAR LEVEL
TRANSFORMER

ABOUT US

With humble beginning, today **Sterling Transmission Pvt. Ltd.** is into manufacturing of power and distribution Transformers, HT and LT Automatic Voltage Controller, Variable Voltage Transformer, Isolation Transformers, Electroplating Rectifiers and other special purpose transformer apart from manufacturing Electricals HT and LT Pannels, APFC Pannels, Cabels and All types of industrial Goods.

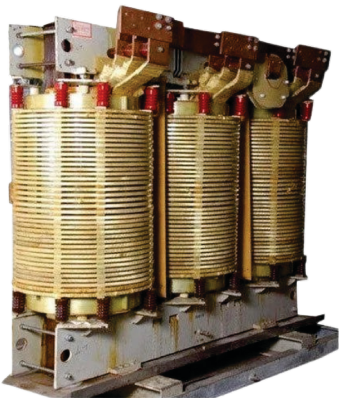
The Power controller manufacturing division of Sterling Transmission Pvt. Ltd. are pioneers in this field. The consolidated group is one of the Bihar's largest power controller company with largest client base and service network in this industry.

The Group operates from 3 factory complexes which are spared in Bihar. All our facilities are ISO 9001:2015 certified.

Throughout the entire process, **Sterling Transmission Pvt. Ltd.** follows stringent quality control measure starting from designing, selection of raw material, testing after every process. Our products are designed and developed using modern techniques and optimum utilization of raw materials, which insures cost-effectiveness and trouble free running of our equipments.

We have an array of sophisticated facilities like all Testing Equipments coil winding machines, heating ovens, forklifts, EOT cranes etc....,

Wishing for client's patronage and products by assuring quality and service



Our Clients:

PRODUCT RANGE

- Three Phase Power and Distribution Transformers up to 10 MVA 33 KV class
- Transformers with OLTC arrangement
- Special Purpose Transformers
- Complete self protection (CSP) Transformer-up to 1000 KVA with extreme MCCB

- Furnace duty Transformers
- LT-LT Transformers
- Step up Transformers
- Package Substation Transformers up to 2 MVA with RMU or HV breaker and LV distribution panel
- Dual Ratio Transformer

TECHNICAL SPECIFICATION

Range	25 KVA to 10 MVA
Applicable Standards	IS 1180:2014 (Part-1,2,3) Outdoor type oil immersed Distribution Transformers upto and including 2500 KVA, 33 KV (EEL 1/2/3) IS: 2026 - Indian standard for Power Transformers IEC: 60076 (Parts 1 to 11)- International standard Power Transformer
Vector Group	Dyn 11 or as per customer specification and requirement
Winding Material	Copper or Aluminium
Primary Voltage	11/22/33 KV or as per customer specification and requirement
Secondary Voltage	433/415/400 V or as per customer specification and requirement
Duty/Type	Continuous duty Outdoor/Indoor, Conventional or hermetically sealed
No. Of phases	3 Phases
Class of insulation	Class A
Insulating Oil	Mineral Oil as per IS:335 / IEC:296
Frequency	50/60 Hz

CUSTOMIZED OPTION

Mounting	Pole/Pad/Ground mounted with under carriage with four unidirectional/bidirectional rollers
Cooling Medium	Oil Natural Air Natural (ONAN)- Pressed Steel Radiators or Corrugated Finwall or Elliptical Tubes
Tapping	Externally operated Off circuit tap changing Switch (OCTC) / On load Tap changer (OLTC) With RTCC panel and AVR as per customer requirement of range and steps
Termination	HV / LV : Bushing / Cable box / Busduct flange
Safety / Anti theft systems	Primary expulsion fuse for protection External circuit breaker for overload and fault protection Primary surge arrest for lightning protection Anti theft measure to prevent theft of transformer oil
Optional Fittings	Buchholz Relay with alarm and trip contacts Inspection cover Weather proff marshelling box as per IP 55 Jacking pads Pressure relief valve (PRV) with alarm and trip contacts Dial type winding temperature indicator (WTI) and Oil temperature idicator(OTI) with contacts Magnetic oil level gauge MOG with low level alarm contacts

OTHER ADDITIONAL SERVICES:

- Repair and refurbishment of Power Transformers.
- Supervision and Commissioning of transformers on site.
- Supply of spares for reputed transformer make.
- Overhauling and maintenance of transformer on annual contract base.
- Rental Transformer Service
- On Site Oil Filtration
- Govt. Electrical and Civil Contractor

MAXIMUM TOTAL LOSSES UPTO 11KV CLASS TRANSFORMERS (AS PER IS: 1800 (PART-1): 2014 latest Amendments)

Sl. No.	Phase	Rating (kVA)	Impedance (Percent)	Maximum Total Loss (W)					
				Energy Efficiency Level 1		Energy Efficiency Level 2		Energy Efficiency Level 3	
				50% Load	100% Load	50% Load	100% Load	50% Load	100% Load
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
i)	3	25	4.5	190	635	175	595	158	541
ii)	3	63	4.5	340	1140	300	1050	270	956
iii)	3	100	4.5	475	1650	435	1500	392	1365
iv)	3	160	4.5	670	1950	570	1700	513	1547
v)	3	200	4.5	780	2300	670	2100	603	1911
vi)	3	250	4.5	980	2930	920	2700	864	2488
vii)	3	315	4.5	1025	3100	955	2750	890	2440
viii)	3	400	4.5	1225	3450	1150	3330	1080	3214
ix)	3	500	4.5	1510	4300	1430	4100	1354	3909
x)	3	630	4.5	1860	5300	1745	4850	1637	4438
xi)	3	800	5.0	2287	6403	2147	5838	2015	5323
xii)	3	1000	5.0	2790	7700	2620	7000	2460	6364
xiii)	3	1250	6.25	3300	9200	3220	8400	3142	7670
xiv)	3	1600	6.25	4200	11800	3970	11300	3753	10821
xv)	3	2000	6.25	5050	15000	4790	14100	4543	13254
xvi)	3	2500	6.25	6150	18500	5900	17500	5660	16554

MAXIMUM TOTAL LOSSES ABOVE 11KV UPTO & INCLUDING 22KV CLASS TRANSFORMERS (AS PER IS: 1800 (PART-1): 2014)

Three Phase Transformer

+5% of the Maximum Total Loss Values given in above table

MAXIMUM TOTAL LOSSES ABOVE 22KV UPTO & INCLUDING 33KV CLASS TRANSFORMERS (AS PER IS: 1800 (PART-1): 2014)

Three Phase Transformer

+7.5% of the Maximum Total Loss Values given in above table

PERMISSIBLE LIMIT OF TEMPRETURE RISE (AS PER IS: 1800 (PART-1): 2014)

Particulars	Oil Temperature Rise	Winding Temperature Rise
Upto and including 200 kVA, 33 kV Class Transformer	35°C	40°C
From 250kVA, upto including 2500kVA, 33kV Class Transformer	40°C	45°C

CORPORATE OFFICE

RAJEEV NAGAR, ROAD NO.- 24, PATNA - 800 024

MANUFACTURING UNIT -

1. INDUSTRIAL GROWTH CENTRE, GIDHA, PLOT NO.- F23, F24
2. POLSAN ROAD, DIGHA, PATNA

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