



Nepal Transformer & Allied Engineering Pvt. Ltd.



Factory: Bhaktapur Industrial Estate, Byashi, Bhaktapur

Contact: 9851175626/9851118845

Office: 01-5901626

Email: nepaltransformer@gmail.com

"Power for Development"



Standard features of our Transformer.

1 Core design and Manufacturing:

We use laser core for all range of transformer. Core design principle is based on achieving the smallest active part possible, low noise level load and no load losses. The core is composed of a circular cross section. Selection of core is highly permeability steel or laser subscribed grain oriented steel based on customer specification for no load loss and noise level. Restriction on weight and dimensions determines the most appropriate core type transformer that is economical on losses, flux density, overall core and sound type.



2. Winding design and manufacturing

The transformer winding must have the ability to withstand high mechanical and electrical stresses resulting from short circuit, lightning and switching surge as well as normal overload during peak hours in daily operation. The conductors used on windings are oxygen free copper. The shape of the conductor is rectangular for L.T and round for H.T. The conductor is often divided in to two or more parallel conductor elements to reduce eddy current losses. The conductor used in L.T is Triple paper coated where as in H.T is enamel laminated.

3. Tank design and Manufacturing

The transformer tank accommodates the core and winding (active parts) as well as insulating oil. It serves as a support structure for accessories and control equipments and physical protection for the active parts. The tank is usually of the rigid types with removable conservator. Mild steel plates are the main building materials used in our tank. Mig welding is used where oil tightness is used instead.

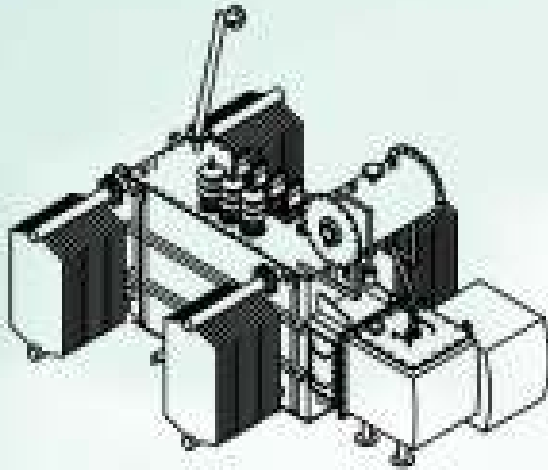


6. Testing

Every transformer of Nepal transformer is individually tested in accordance with the Nepal Electricity Authority (NEA) and must pass it's test before hand over to the costumer. following testings are performed in compay before testing in NEA.



7. Drawing & Design



8. Coil

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9. Standard Fittings Provided

- Rating & diagram plate along with labels.
- Earthing terminals.
- Pre-filled Silica-gel breather.
- Lifting lugs for complete transformer.
- Oil filling pipe with cap on tank/conservator.
- Oil level indicator.
- Externally operated off circuit tap changer switch.

10. Optional Fitting on Request

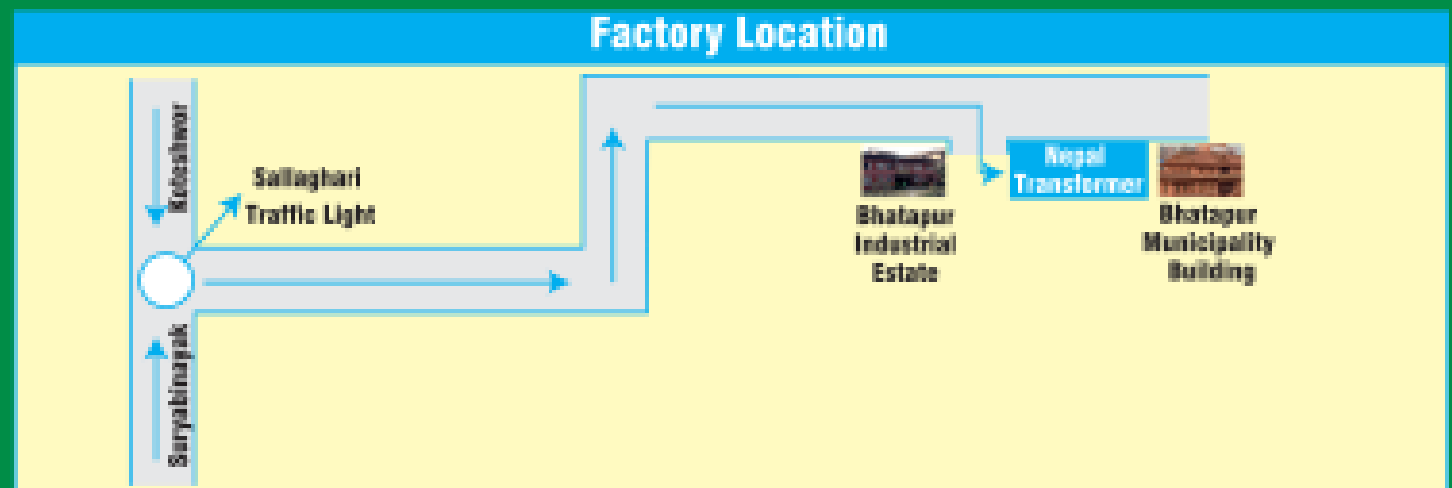
- Bucholz Relay.
- HV & LV cable box.
- Winding Temperature Indicator.
- Magnetic Oil Level Gauge.
- Marshalling Box.
- Oil Temperature Indicator with Alarm Trip Contacts.
- OLTC (On-Load Tap-Changers)

11. Distribution & Power Transformer

Product Range (Up to 5 MVA)

Transformer Option

- Copper Wound.
- Indoor Type/Outdoor Type.
- Off Load Tap Changer/On Load Tap Changer.
- Pole Mounted/Ground Mounted.
- PSR Radiator/Corrugated Tank



STANDERD LOSS OF NEPAL TRANSFORMERS

POWER KVA	PHASE	VOLTAGE SYSTEM 11000-400 V							
		LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	OIL (LTR.)	WEIGHT (K.G.)	NO LOAD LOSS	LOAD LOSS	% IMPEDANCE
25	3-Phase	700	490	1000	80	400	70	455	3.4
50	3-Phase	800	540	1100	130	500	110	735	3.4
100	3-Phase	1050	770	1320	200	750	220	1200	3.4
150	3-Phase	1175	815	1410	250	920	280	1600	3.4
200	3-Phase	1430	730	1490	280	1100	300	800	3.4
250	3-Phase	1440	800	1420	315	1550	455	2550	3.4
350	3-Phase	1545	790	1540	330	1800	650	3500	3.4
400	3-Phase	1640	900	1630	430	1800	710	4000	3.4
500	3-Phase	1700	1000	1700	500	2000	940	5130	3.4