



Instrument Transformers



The Power of Resilience®

- Outdoor Oil Cooled Current Transformers (CTs) upto **440kV** voltage class.
- Outdoor Oil Cooled Electromagnetic Voltage Transformers (EmVTs) up to **300kV** voltage class.
- Outdoor Oil Cooled Capacitor Voltage Transformers (CVTs) and Coupling Capacitors (CCs) upto **300kV** voltage class.
- Combined CT/PT units upto 36kV voltage class.
- Precision Grade Current & Voltage Transformers/Test Benches.
- Indoor Resin Cast Instrument Transformers upto 36kV voltage class.
- Low Tension Current & Voltage Transformers.
- High Voltage Test Sets upto 800kV voltage class.

An ISO 9001:2008 and ISO 14001:2004 certified company

About Us

MEHRU established in the year 1997, is an ISO 9001:2008 and ISO 14001:2004 certified company, manufacturing Instrument Transformers upto 420kV.

The products manufactured by MEHRU incorporate the best and latest technology, to ensure a good quality product. The design of Instrument Transformers, are time tested designs over a period of several decades. All the Instrument Transformers have been type tested as per IEC/IS and ANSI standards. Instrument Transformers have also been type tested for Seismic Withstand test at 0.5G on all 3 axis & fast transient (Multiple chopped impulse) Test.

The Testing Lab is equipped with the latest equipments to carry out all routine tests as per IEC/IS/BS/AS and ANSI standards.

MEHRU is one of the leading suppliers of Instrument Transformers to numerous clients not only in India but all over the world. Our customers include almost all government utilities and various power sector companies like ABB, Siemens, Alstom, Schneider Electric etc.

Spread over 120,000 sq.ft. in 3 manufacturing facilities, MEHRU employs over 600 people.



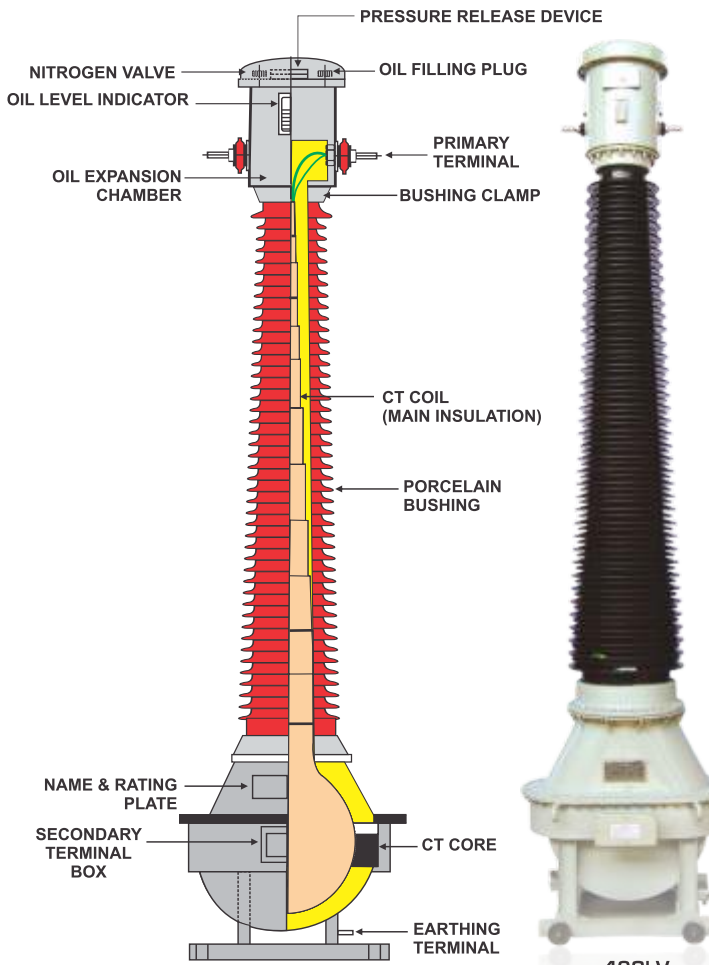
Outdoor Oil Cooled Transformers

Outdoor oil cooled instrument transformers are hermetically sealed type in construction. The whole transformer unit is dried in an air heating oven under very high vacuum & strictly controlled conditions. Measurement of amount of moisture taken out from the instrument transformer is done at regular intervals during the vacuum drying process. After the process is over, the transformers are filled with filtered, de-aerated EHV grade transformer oil under vacuum. The oil filtration plant, the processed oil storage tank & the vacuum drying chambers are all interfaced together to ensure that the transformers are filled with oil untouched by human hand. To seal the transformers, the space left for expansion on the top is filled with dry & pure nitrogen gas through a non-returnable valve at pre-determined pressure.

On request MEHRU can also supply instrument transformers with stainless steel bellows instead of nitrogen gas cushioning.



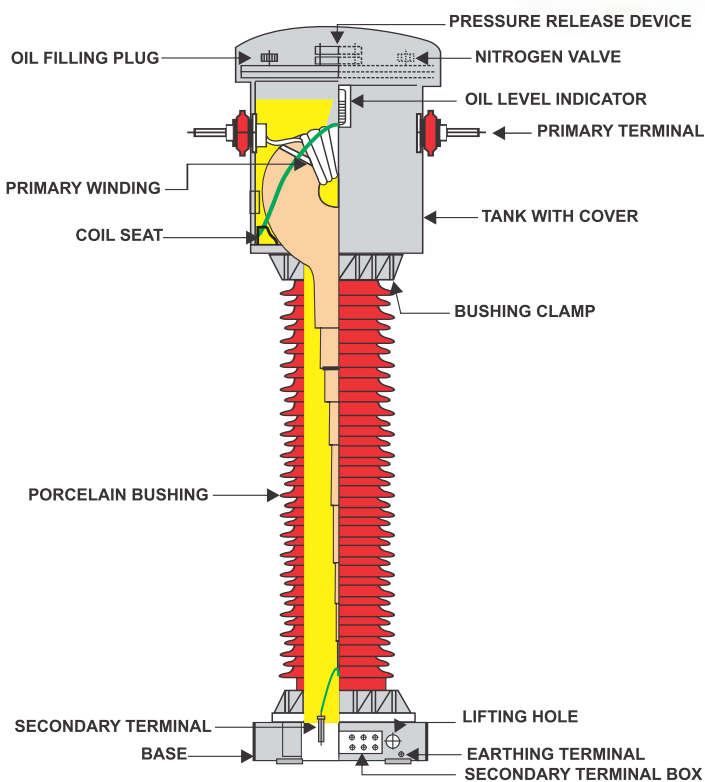
Current transformers

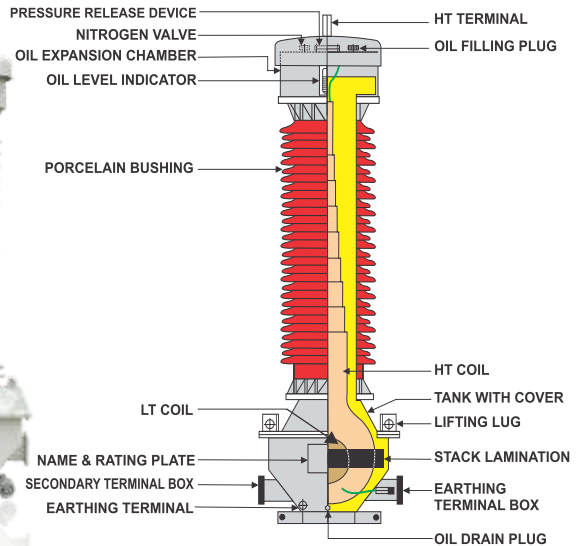
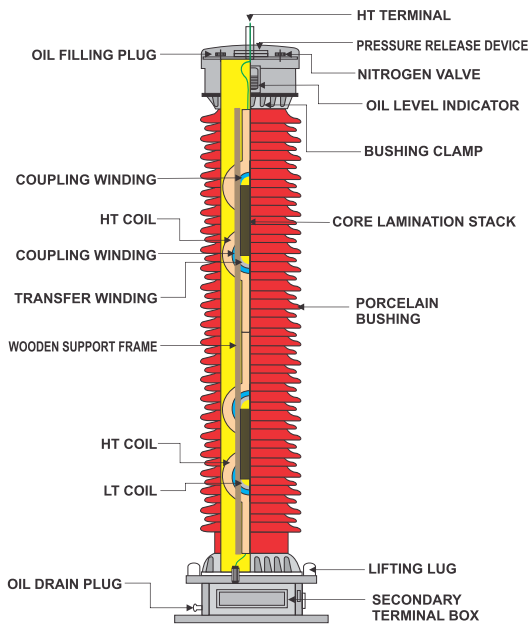


Dead tank Design upto 420kV



Livetank Design upto 300kV



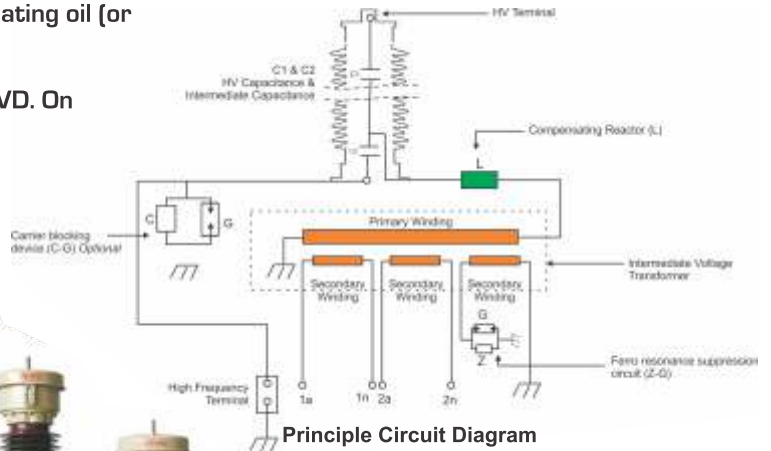
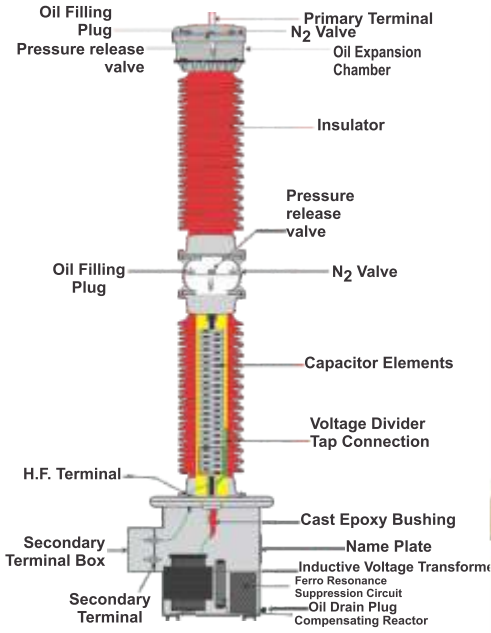


Mehru manufactures the following types of voltage transformers :-

1. Single phase, single pole voltage transformers, to connect between line & earth up to 300kV voltage class.
2. Both pole voltage transformers, to connect between line to line up to 36kV voltage class.
3. Three phase voltage transformers star / star connected up to 36kV voltage class.
4. Three phase residual voltage transformers star / delta connected up to 36kV voltage class.

Capacitor voltage transformers / Coupling capacitors upto 300kV

- Coupling capacitors for power line carrier applications.
- Capacitor voltage divider (CVD) consists of one or two brown or grey glazed porcelain or silicon rubber insulator (on request).
- Capacitor elements consists of Aluminum foil insulated with paper and polypropylene film impregnated with mineral insulating oil (or synthetic oil on request) free from PCBs.
- EMU unit is filled with PCB free mineral insulating oil. Pressure release device is provided for each unit of CVD. On request, Stainless steel bellows can also be supplied.



Combined CTPT units upto 36kV

Low tension CT/VT

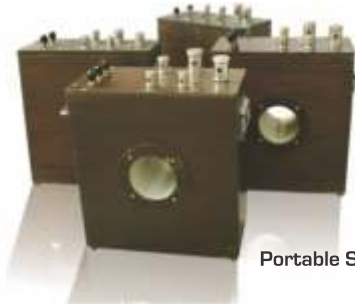


Mehru manufactures various types of Low Tension current & voltage transformers.

Resin cast transformers upto 36kV



Precision grade CT & VT / Testbenches



Portable Standard CT

Precision grade current transformers are supplied in portable model in wooden boxes, fitted with specially designed terminals for easy use. Mehru can supply portable standard current transformer with accuracy class up to 0.1.

Precision grade voltage transformers are supplied in oil cooled model up to 300kV voltage class.

Test Benches fitted with CT/VT test set, standard current transformers, burden boxes and current source are also available.

High voltage Testsets



2.5/5kV Portable Test Set

400kV HV Test Set

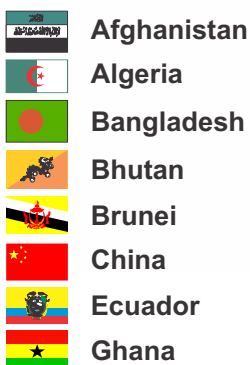
Mehru manufactures high voltage Test set from 2.5kV to 600kV (2.5kV/5kV Dual range HV sets are in portable model). Standard rating of HV sets manufactured are 100 mA for 30 minutes. Mehru can also supply on request HV sets with ratings higher than 100 mA.

The HV Test Set comprises of :-

1. HV Test Transformer
2. Control Panel
3. Auto Transformer (Dimmerstat)

The Control panel consists of voltmeter, timer & a specially designed digital current controller. Various interlocks & protection features are provided to ensure safe & trouble free operation.

Worldwide exports



Afghanistan
Algeria
Bangladesh
Bhutan
Brunei
China
Ecuador
Ghana



Indonesia
Iraq
Jordan
Kenya
Malaysia
Myanmar
Namibia
Nepal



Nigeria
Oman (Muscat)
Panama
Philippines
Republic of Congo
Seirra Leone
Sri Lanka



Sudan
Syria
Thailand
Trinidad & Tobago
Turkey
UAE (Dubai)
Uganda
Vietnam

Mehru Electrical & Mechanical Engineers (P) Ltd.

E - 1247, RIICO Industrial Area,
Phase - 1(Ext.), Bhiwadi - 301 019 Rajasthan, INDIA.
Tel :- +91-1493- 222 010, 225 412, 221 748 Fax :- +91-1493- 222 212
Email :- sales@mehru.net mehruworks@vsnl.com

www.mehru.net



ISO 9001:2008 and ISO 14001:2004
FM 87010 EMS 557370