

## TRANSFORMER TEST BENCH

We are manufacturer of Electrical parameter Testing and Measuring Instruments. Our technical team has its full attention on continuous up gradation of our instruments. We keep full attention on instrument - not about only the measuring accuracy of it, but the instrument should be completely user friendly. We had keep our eyes on Transformer Testing Instruments and hence our product range is related with Transformer Manufacturers, Transformer Repairing Agencies as well users.

The Transformers are widely used in the industries and hence its maintenance also makes industries running. Transformers are tested from its manufacturing stage to final installation, and also at maintenance time it is mandatory to test the transformer twice before maintenance and after maintenance. To test the transformers there are lot of parameters should be measured which should be within limit, and from them there are some routine tests should be after manufacturing or repairing and they are compulsory. So we had develop Transformer Testing Panels with according to parameter to be tested.

With our own experience and with the help of feedback from our clients we had developed different kind of Testing panels for measuring different kind of parameters of Transformers.

Testing panels could be designed as per user's feedback like, parameters to be measure? The accuracy class of measurement? Capacity of the panel? need how much ease of access? After getting feedback from client we could design complete solution of user's problem.

Most probably in Transformers, total 4 types of tests are covered in Testing Panel.

- » No Load Loss Test or Core Loss Test.
- » Full Load Loss Test or Copper Loss Test.
- » Power Frequency Test or DVDF Test.
- » High Voltage Test.

From above said tests any of them or all of them could be implanted in a single unit with different attachments and could be synchronize in a single panel. The capacity of Transformer to be tested decides the capacity of Switchgears and other components used in the Testing Panel. The measuring accuracy class to be indeed decides the selection of Meters or Power Analyzer for measurement. Testing panel is completely tailor made product. As much as the user could give proper feedback, the panel could be designed convenient and user friendly. The testing panel for single phase transformers could also be designed.

There are also some more routine tests which should be done at manufacturing stage.

- » Voltage ratio test.
- » Magnetic balance test.
- » Vector group test.

At some time these tests should be done at site at the time of maintenance. Now if the transformer is multi tap then to take the voltage ratio and other tests at site is being time worthy process as well it indeed also man power. With help of our client's feedback, we had developed Transformer Routine Test Set to test these test accurately and with the minimum time and man



power required. There are some logical connection done in the Test Set and the one time wiring with Transformer bushings and then switching the supply from Test set for one test to other test. There are some meters to measure different parameters at the top of panel. The complete instrument is enclosed in MS powder coated cabinet. The enclosure is such design to suit it with the industrial application. There are dual door in the enclosure for control cable and power cable itself.

If some time it is indeed to have a No load loss test of transformer, then we had settled arrangement for it. At that time the user will need the appropriate capacity Variac and connect it with the Test Set at indicated connector and it is ready for No load loss test.

## OTHER PRODUCTS

Testing Instruments supports manufacturers, repairers, agency owners and contractor in each Power Sector related industry with a breadth of critical services.

- » Primary Injection Test Set
- » Secondary Injection Test Set / Relay Test Set.
- » Oil BDV Test Set.
- » HV Test Set (AC/DC).
- » Transformer Turns Ratio Test Set.
- » Transformer Voltage Ratio Test Set.
- » Load Bank.
- » Transformer Routine Test Set.
- » 3 Pole Breaker Timer.
- » Contact Resistance Test Set.
- » 1phase / 3phase Transformer / Motor testing panel. (Custom built).
- » All Kind of Transformers, Variacs (Auto Transformers) and Inductors.
- » Epoxy Resin cast high volt transformer. (1KV TO 100KV).
- » DC Power Supply.



Our expert Engineering team can effort your any kind of Queries.

**"TESTING INSTRUMENTS"**

**Add:** 7, Valam Nagar Soc., Nr. Kshama Soc., A.K.Road, Surat, Gujarat - 395008, INDIA

**E-mail:** info@testset.in / **Web:** www.testing-instruments.in

