

Transformer Test Setup (Up to 200MVA)

Type: Automatic / Semi-Automatic / Manual

Input: 415V, 3 - Phase, A.C, 50Hz & 60Hz, ±5%

Output: 0 - 470V, 3 - Phase, A.C, 50Hz & 60Hz, ±5%

Panel Loading Capacity: Up to 600V, 3 - Phase, A.C with 1300A Current Capacity at L.V Side

I.S Compliances: IEC 60076 / IS 2026 / IS 1180 & Other Standards

Test Performed (Associated with panel):

1) Watt Losses Test

- (A) No Load Test, (B) Load Loss Test
- 2) High Voltage Test / Separate Source Voltage Withstand Test
- 3) Induced Over Voltage Test
- 4) Magnetic Balance Test
- 5) Vector Group Verification Test
- 6) Temperature rise Test
- 7) Zero sequence impedance Test
- 8) Measurement of Magnetizing Current

Capability of Transformer Testing:

From 500kVA to 200MVA (Capability to Test 500kVA to 200MVA with Different ranges of Transformers)

Transformer Impedance Voltage: Up to 20% of Rated System Voltage Level

System Voltages:

L.V Side:- 433V / 690V / 800V / 3.6kV / 6.6kV, 3 - Phase

H.V Side:- 11kV / 22kV / 33kV / 66kV / 110kV / 132kV / 220kV, 3 - Phase (For Losses Measurement)

Panel Operating Modes:

- 1) Manual
- 2) HMI Based Semi Automatic
- 3) Complete HMI Based
- 4) Computerized Based Semi Automatic
- 5) Complete Computerized
- 6) Computerized & HMI based with PLC

Capability of Supportive Equipments (Addition of rating can be implement on request)

1) High Voltage Transformer

Rating = Up to 500kVA

Output = Up to 500kV, A.C, (P - E), 1A @ H.V Side

2) Motor-Generator Set

Rating = Up to 1000kVA

Output = Up to 900V & 500V, 3 - Phase with 100Hz to 200Hz Frequency

3) High Voltage Divider

Range = Up to 500kV, A.C - D.C Both

Frequency = Up to 200Hz

Type = Oil Cooled



- 4) Current Transformer, System Voltage Up to 220kV (For Losses Measurement) Ratio = 5A / 5A to 5000A Range (Wound Type / Ring Type) Accuracy Class = 0.05%, VA = 5 /10 / 15
- 5) Potential Transformer, System Voltage Up to 220kV (For Losses Measurement) Ratio = 110V / 440V to 220kV Range (Open Type / Resin Cast / Oil Cooled) Accuracy Class = 0.05%, VA = 2.5 / 5 / 7.5
- 6) L.T Capacitor Bank
 Rating = Up to 5000kVAR
 System Voltage = 440V, A.C, 3 Phase (Delta Connected)
- 7) H.T Capacitor Bank

Rating = Up to 50MVAR (Based on Design of Intermediate Transformer) System Voltages = 6.6kV / 11kV / 22kV / 33kV / 44kV (1 - Phase) (By series - Parallel connection Capacity of bank can be enhanced)

(Note:- Addition of Rating can be implement on request.)

Measurement System:

Analog Metering / Digital Metering / Computerised or on HMI Data Monitoring

Consideration of Protection:

Consist MCB's, RCCB's, Fast Sensing Over Current Relays, Fast Sensing Over Voltage Relays, Earth Leakage Relays with Suitable CBCT, Fuses for Small Circuits, Necessary Isolation Transformers, Protection C.T'S etc

Key Features:

Consist Output On - Off Push Button, Output Increase - Decrease Push buttons, Flasher Lamps, Switches for L.T and H.T Capacitor & C.T - P.T Changeover, Tower lights, Metering Sections etc.

Data Reporting:

All Testing Data will Capture by one click and it will arranged in suitable reporting system. (This System not be available on Manual operating Panel)

Operating Temperature: 2° to 60° Degree

Panel Body:

Mild Steel Fabricated Body with CNC / Laser Cutting and Banding with 90 to 95 Micron Powder Coated

Mounting Arrangements: Suitable to Single , Double & Triple Floor Design

Installation: 1) Indoor, 2) Mobile Vehicle (Limited to certain Ratings only)

Asthetic Apperance: Can be customized Completely based on Customer Requirement and conviniences.

Associated Make of Equipments:

Schneider Electric, Siemens, Selec, Pheonix Contact, Omron, Esbee, Connectwell, Lumel, Nippen, Gorlan India, Pelican, Murr Electric, Raytech, YokoGawa, Hioki, Metrel, Sonel, Cimon, Lapp cables, Polycabs etc.

Applications:

- 1) Distribution and Power Transformer Manufacturer
- 2) Transformer Reparing Units
- 3) NABL Accredited Laboratories

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