

TRANSFORMER OIL TESTING LABORATORY

SHREE ABIRAMI ENGINEERING WORKS

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An ISO 9001: 2000.Certified Company

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(Approved by NABL)



**We are Having Following Testing Facilities For
Transformer Oil**

- ❖ Dissolved Gas Analysis (DGA)
- ❖ Interfacial Tension (IFT)
- ❖ Moisture Content (PPM)
- ❖ Dielectric Strength (BDV)
- ❖ Dielectric dissipation Factor (Tan Delta)
- ❖ Flash Point
- ❖ Sludge
- ❖ Acidity
- ❖ Resistivity
- ❖ Density
- ❖ DP Test



BDV (Break down Voltage)

The voltage at which the oil breaks down when subjected to AC electric field with a continuous voltage raise.

IFT (Interfacial Tension)

This Instrument used for Measuring, under non-equilibrium condition, the Interfacial Tension of Mineral Oils against water, which has been shown by practice to give reliable indication of the presence of hydrophilic compounds.



Flash Point

This Instrument used for measuring the Flash Point by Pensky Martens closed Cup Tester of fuel oils, lubricating oils, Suspensions of Solids, liquids that tend to form a surface film under test conditions and other liquids.



Acidity (Neutralization Number) Kit

This Instrument used for the determination of acidic constituents in Transformer oil. This acid number is used as a guide in the quality of Transformer oil.





Water Content (PPM)

This Instrument used for the determination of water Content in unused or used insulating liquids with Coulometrically generated Karl Fischer reagent. We can measure From 1 ppm to 100 ppm.

Capacitance, Tan Delta and Resistivity

This Testing Instrument to measure three Important parameter Tan Delta, Dielectric Constant and resistivity of an insulating medium. The Tan Delta and Dielectric constant balance with the aid of a synchronous and phase sensitive null detector.



Dissolved Gas Analyser (DGA)

DGA is the most sensitive and reliable loss Prevention technique and it gives an early indication of abnormal behavior of Transformer. This Instrument measure the concentrations of Dissolved gas or free gases and be interpreted to diagnose the condition of oil filled electrical equipment in service and suggest future action.



Multiple Gas Extractor

This instrument used for extracting dissolved gas from transformer oil

Density

Density is significant in determining the quality of an oil and may be useful for type identification or to suggest marked compositional changes.



Oil & Sample Container Storage Room



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