



Rotating Machine Field Services



HV/EHV Equipment Testing



Transformer Oil Testing Lab



Electro Technical Calibration Lab



Dielectric Diagnostic Products



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RLA / Diagnostic Testing Of Transformer

On Line Testing

- » Partial Discharge Measurement And Localization
- » Thermography
- » On Line Moisture Content Measurement
- » Transformer Oil (Screening, DGA and Furan) Test

Off Line Testing

- » Dielectric Frequency Response Analysis [DFR]
- » Sweep Frequency Response Analysis Measurement
- » Capacitance And Tan Delta Measurement Of Transformer
- » Transformer Turns Ratio Measurement
- » Magnetic Balance Measurement
- » Excitation Current Measurement
- » Static Winding Resistance Measurement
- » Dynamic Winding Resistance Measurement for OLTC
- » Insulation Resistance And Polarization Index Measurement
- » OTI And WTI Meter Calibration
- » Functional Checking Of Protection Devices Like PRV, Buchoze Relay, MOG,OTI, WTI

RLA / Diagnostic Testing of Motor and Generator

Online Mode

- » Partial Discharge Measurement
- » Vibrations Spectrum Analysis
- » Thermography

- » Electrical Signature Analysis (ESA)
- » Current Spectrum Analysis

Off Line Mode

- » Capacitance And Tan Delta Test » Surge Comparison Test
- » Dielectric Discharge Test
- » Partial Discharge Test
- » I.R./P.I. Measurement
- » HV DC Test
- » RTD Resistance And IR check
- » Thermostat Resistance
- » Diode Check

- » Motor Circuit Analysis (MCA)
- » Microscopic / Visual Inspection
- » Stator & Rotor Winding Resistance
- » Recurrent Surge Oscilloscope (RSO)
- » Rotor Winding Impedance
- » Rotor Pole Drop Test
- » Exciter/ PMG Tests

Off line Mode- for Generator

- » Visual Inspection Of Stator And Rotor
- » Endoscopic Inspection
- » FL-CID Test On Stator Core
- » Wedge Tapping Test Or Wedge Deflection Test

We Also Provide

Dry Ice Cleaning/CO2 Cleaning:

- » Effective, Efficient and time saving cleaning of Electrical apparatus like Motors, Generators etc.
- » Dry Ice Cleaning or CO2 cleaning is a process where dry Ice (Solid form of carbon dioxide) is accelerated in a pressurized air stream and directed at a surface in order to clean it.

Advantages of Dry Ice/CO2 Cleaning:

- » It is a non-abrasive
- » It is Non-conductive cleaning method
- » Does not leave secondary contaminants such as dangerous solvents as dry ice sublimates at room temperature.
- » Saves downtime as the process is less time-consuming.

Note: For Motors and Generators, our expertise does not stop at cleaning; we complete the job by applying right combinations of varnishes, resins and drying at appropriate temperatures.

Condition Monitoring Switchyard Equipment

- Off Line Testing CT / PT / CVT / LA / CC
- » Capacitance And Tan Delta Measurement
- » Insulation Resistance
- » Ratio, Knee Point Voltage, Polarity, RCT (Only For CT/PT/CVT)
- » Dissolved Gas Analysis And Sampling (Only For CT/Bushing)
- Off Line Testing- Circuit Breaker
- » Capacitance And Tan Delta Measurement
- » Insulation Resistance Measurement
- » Dynamic Contact Resistance Measurement (DCRM)
- » Static Contact Resistance Measurement (CRM)
- » Timing Measurement
- » SF6 Gas Dew Point Measurement
- » SF6 Gas Leakage Test
- » Vacuum Interrupter Test (VIDAR- Only For VCB)
- » Functional Check (Remote Trial)
- Online Mode
- » Partial Discharge Measurement (For All Switchyard Equipment)
- » Leakage Current Measurement (Only For LA)
- » Thermography (For All MV/EHV Equipments)

We Also Undertaking

- » Erection, Comm. And Testing Of EHV Switchyard Equipments.
- » Preparation Of Cable Schedule, Laying And Termination.

(Upto 765kV)

Condition Monitoring Of Transformer Oil NABL Accredited Mobile / Stationary Lab

Transformer Mineral Insulating Oil Condition

- Physical Parameters
- » Appearance
- » Interfacial Tension
- » Flash Point
- » Pour Point
- » Density
- » Kinematic Viscosity
- Chemical Parameters
- » Water Content
- » Total Acid Number / Neutralization Value
- » Sediments And Sludge
- Electrical Parameters
- » Breakdown Voltage / Dielectric Strength
- » Specific Resistance / Resistivity
- » Dielectric Dissipation Factor / Tan Delta

Transformer Internal Condition

» Dissolved Gas Analysis (DGA)

Transformer Insulating Paper Condition

- » Furanic Compound Analysis (Furans)
- Other Special Test As Per Customer Requirement.
- Testing Packages as per IS/IEC/ASTM Standards.



Diagnostic Testing of Power Cables

On Line Testing

» Partial Discharge Measurement And Localization

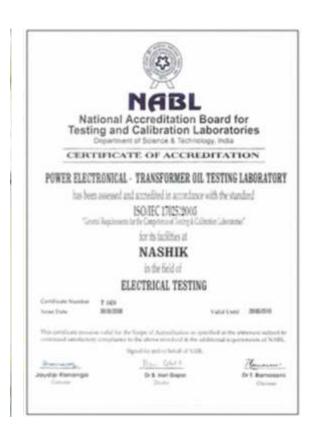
Off Line Testing

- » Capacitance And Tan Delta Measurement
- » Very Low Frequency (VLF) Testing
- » Partial Discharge Measurement And Localization
- » HV-DC Test
- » Insulation Resistance And Polarization Index Measurement

Switchgear and Protection

- » Supply, Installation & Comm. of MV/HV Electrical Installation.
- » Complete Retrofitting Solution For LV / MV / EHV Switchgear
- » Any Type Of LV/MV C and R Panel Modification / Revamping
- » Trouble Shooting & Overhauling of All Type of MV Switchgear
- » MV/EHV Electrical System Testing and Commissioning Work
- » MV/EHV Isolator Maintenance and Retrofitting
- » Testing and Coordination of all Types of Relay

RECOGNITIONS





OUR VALUABLE CUSTOMERS......



























AND MANY MORE.....



OUR ACHIEVEMENTS..



Tender No. GETOO/CC (PR/EEE/GDDSSQ/12 dt - HE SA 2013 Fre-del modeling: 29:94-2013 Calelfung outgratement Operation 13.05, 13. Factional Biol Operation 90.07, 13 Facts delingerman 93:807-14. Inch. CCOPRESCRIPTINGER/DEDISOR/CCCC1184 dt - 26:07-2013 (OD occupation, 18.19-270) Safeta del 29:07-2013 CCS off reventing at: 17.08-2013

L&T Special Steels and Heavy Forgings



