

# Diesel Generator Auto Test (DGAT)

An Effective Systemic way to increase Productivity, Efficiency and Integrity of the Diesel Generator Testing Laboratory.

DGAT is a fully integrated test suite for testing of 1 / 3 phase Diesel Generators of all rating. The suite consists of Test bench, **Generator Test Bro** – an interface and reporting software, Flow Meter, Insulation Tester, Step Down transformer, Heaters, Humidifiers, Instrument Transformers, HV tester, Barcode printer & scanner, Name plate punching machine and Load Bank.

With DGAT, operator connects test bench leads to Diesel Generator. Then he connects diesel pipe to Diesel Generator. Then he clicks to start tests in sequence. DGAT then automatically conducts all the tests and signals completion on the screen. DGAT prints report that are in full compliance with IS, IEC & IEEE standards and name plate is automatically punched.

Following tests covered by “**Generator Test Bro**” software

Insulation Resistance	Safeties, Alarms & Protections
Starting Behavior	Load Test
Control Panels and Instrument Readings	Vibration Measurements
Sound Measurements	Fuel Consumption Measurements
Performance Class G3 Tests	Generator Circuit Breaker and other Switchgear

Following Graphs are drawn by "**Generator Test Bro**" Software

- Starting Curves
- Transient Response At 25, 50, 75 & 100 % Load
- Voltage Total Harmonics Distortion ( THDV) at 0,25,50,75 & 100 % Load
- Load Acceptance at 50 %
- Load Rejection at 100 %



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