

Project:

Repair and Rewinding of BHEL Generator

Project for:

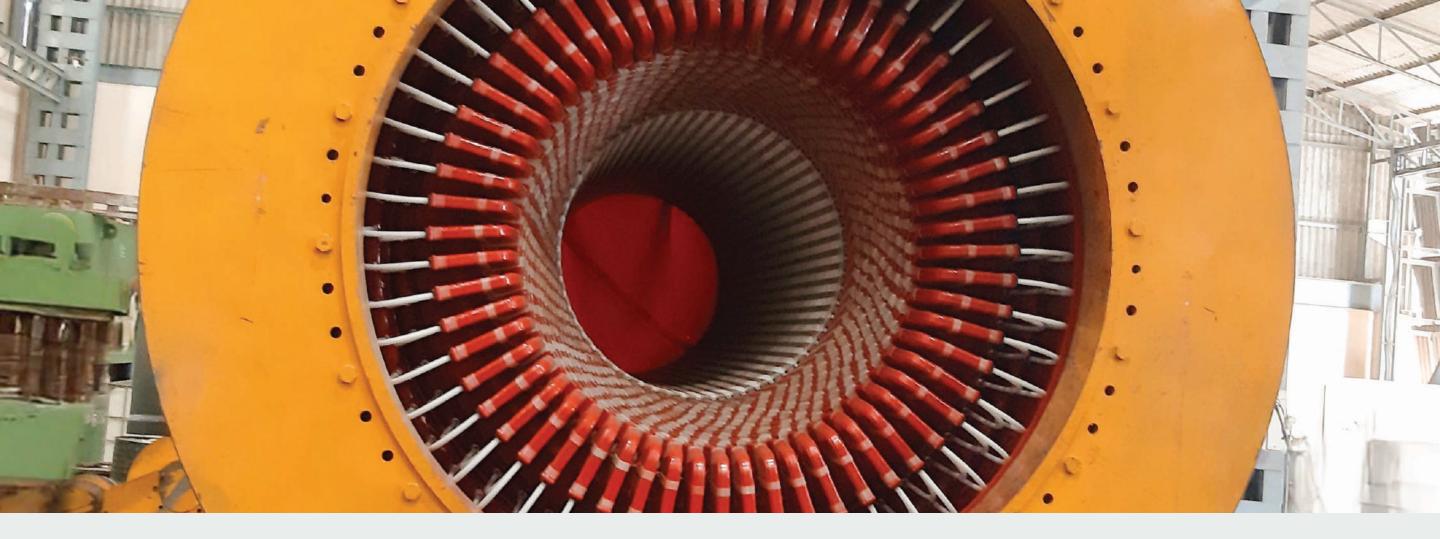
TANGEDCO, Tuticorin, Tamil Nadu, India

Industry:

Thermal Power Station







Capacity : 210 MW

Voltage : 15,750 V

O Current : 9,050 A

• RPM : 3,000

O Power Factor : 0.85 Lag

• Frequency : 50 Hz

Insulation Class : F

Year of Manufacture : 1989

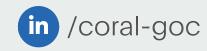




## Precision Dismantling & Core Restoration

- Dismantling and cleaning of the stator core.
- ELCID and flux loop tests conducted, hotspot of 124°C detected.
- Damaged laminations replaced,
  core reassembled using a custom tilting device.



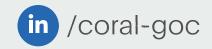


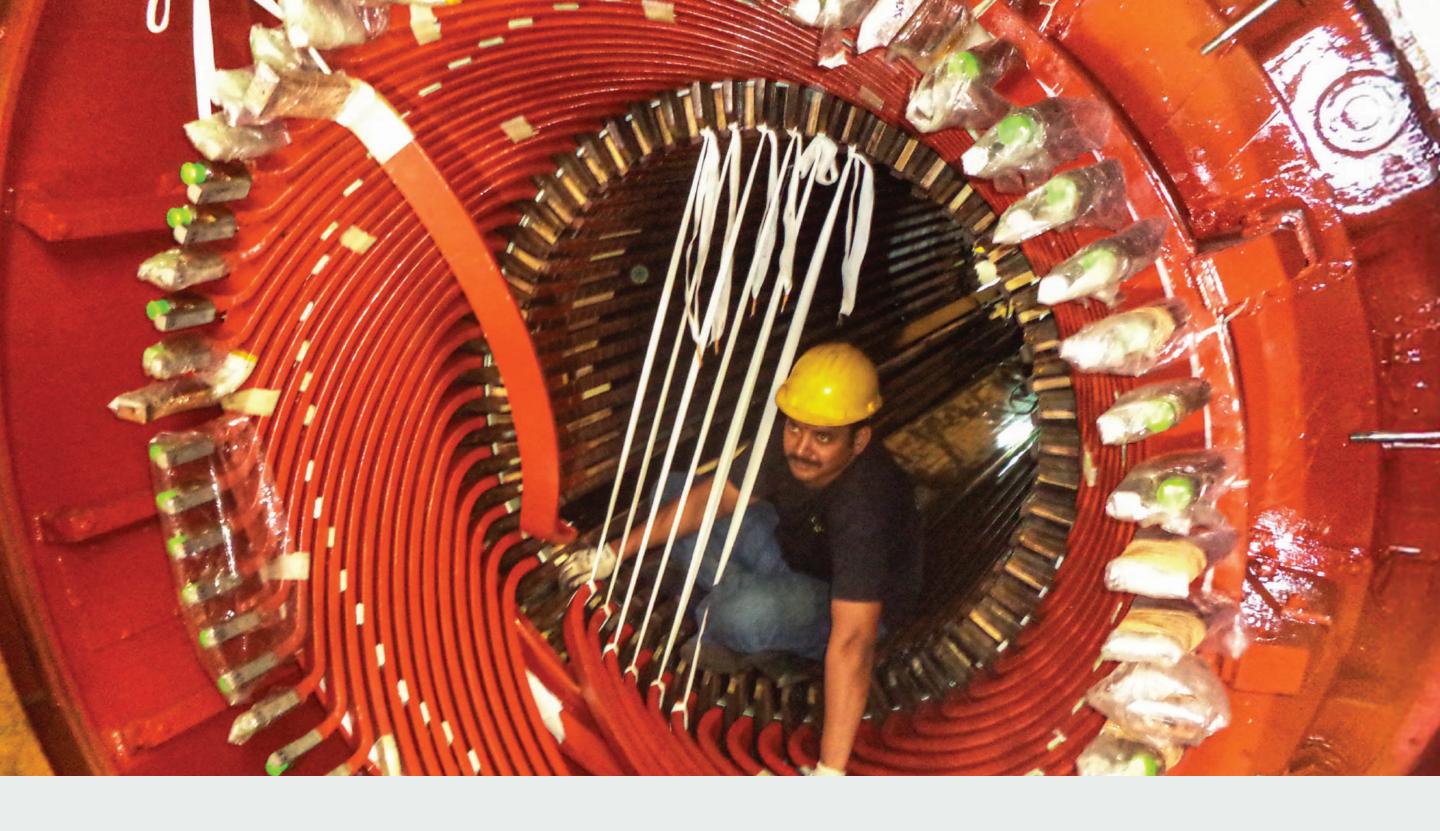


## Construction & Testing of Custom Bars

- Each bar is made with 28 solid and 14 hollow conductors.
- Comprehensive tests: Water flow, nitrogen leak, helium leak, thermal shock, AC HV and partial discharge to ensure quality.







# Bar Insertion & Core Assembly

- Top and bottom bars inserted with
  IR and HV testing before and after insertion.
- Wedging and wedge deflection tests to ensure structural stability.





#### Ensuring Peak Performance

- Leak Tests: Air Pressure Decay, Tracer Gas, Vacuum Decay.
- Electrical Tests: IR, PI, DC/AC High-Pot, PD Analysis.
- Mechanical Tests: End-Winding Vibration,
  Capacitance Mapping.

All tests met IEEE standards, ensuring safety, reliability and top performance.



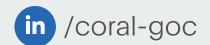


## Successful Completion & Reliable Performance

The rewound stator was transported back to Tuticorin Thermal Power Station.

Final on-site tests in collaboration with TANGEDCO engineers ensured top performance, reinforcing Coral Group's position as a leader in high-capacity generator repairs.







A one-stop solution for your requirements.

High quality. Best value. Real partners.

For enquiries reach out to us on LinkedIn.



