EVANS ELECTRIC®
LIMITED

MSME सूक्ष्म, लघु एवं मध्यम उद्यम
MICRO, SMALL & MEDIUM ENTERPRISES

MEMBER EASA® The Electro-Mechanical Authority

ISO 9001:2015



ESTABLISHED 1951 I 75+ YEARS OF EXPERTISE

Rotating Electrical Machinery. Repaired & Remanufactured for Reliability

Coil & Roebel Bar Manufacturing • Repair • Refurbishment • Rewinding • Core Restacking
Specialized solutions for motors, generators & critical electrical equipment

HV Motors I Generators I HV Coils I DC Motors I On-Site Repairs I Diagnostics I Special Purpose Spares

ABOUT US

SEVEN DECADES OF KEEPING INDUSTRY ENERGIZED

Established in 1951, Evans Electric Ltd. has evolved from humble beginnings into one of India's most reputed and experienced organizations in electro-mechanical services, repairs, rewinds, refurbishment and HV coil manufacturing.

With more than seven decades of engineering experience, we provide reliable, result-oriented and technically advanced solutions for rotating electrical machines across power generation, utilities, process industries and other critical industrial sectors in India and overseas.

Our capabilities are supported by an experienced team of engineers, consultants, technicians and skilled professionals, enabling us to undertake both workshop-based and challenging on-site projects.



OUR MISSION

To keep industries energized where no job is too big, too small or too difficult.

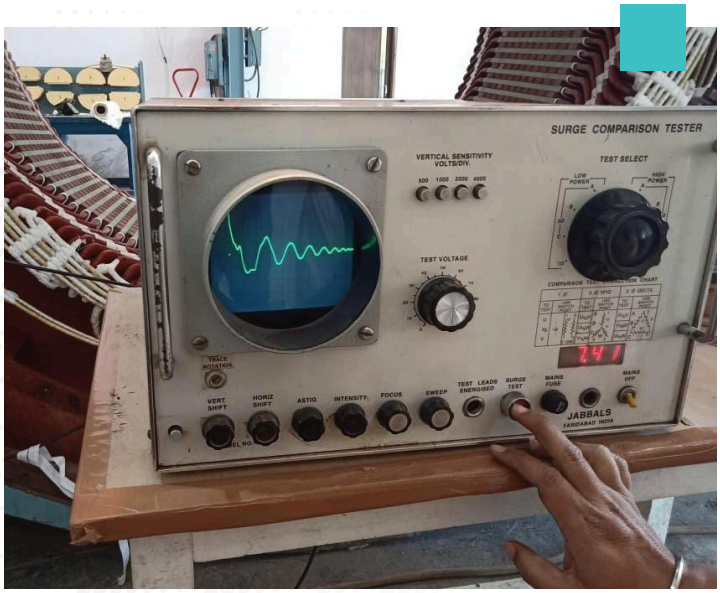
OUR VISION

Our Company will inspire its employees to be the best they can be. We will only engage in sustainable work practices and cater to the immediate need of our customers. We will maximize return to our investors while maintaining the highest quality workmanship.

OUR VALUES

- We believe in our people
- We encourage team effort
- We keep our communication lines open
- We simplify complex processes
- We strive for constant improvement
- We are cost conscious
- We are an eco-friendly company
- We are an envorionmentally responsile company





MAJOR PROJECTS

ENGINEERING ACHIEVEMENTS

500 MW Turbo Generator Rotor
Successful on-site repair.

248 MVA Turbo Nuclear
First successful on-site repair of a 248 MVA, 4-pole Turbo Generator Rotor weighing 105 tons.

80 MW Hydro Generator
Complete on-site core and winding replacement of the stator with new Roebel bars.

75 MW Hydro Generator
On-site stator and rotor repair & rewind with new Roebel bars.

50 MW Parsons Turbo Generator
World Record Achievement
33KV rated Stator winding
120 new continously transposed bar's manufacured and installed





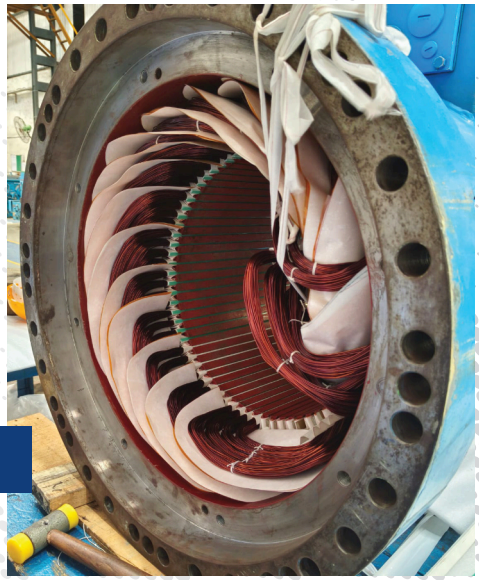
OUR SERVICES

COMPLETE CARE FOR ROTATING MACHINES

- HV Coil Manufacturing
- HV Motor Repairing & Rewinding
- Generator Repairing, Oerhauling & Refurbishment
- DC & Special Motor Services
- Mechanical & Special Spare Study
- On-site Repair & Commissioning







MANUFACTURING AND REPAIRING

COIL & ROEBEL BAR MANUFACTURING



- Resin Rich Roebel bars
- Resin Poor Roebel bars
- Turbo Rotor Coils
- Pole Coil for synchronous machines
- Resin rich diamond coils
- VPI (Green) Coils
- Soft Cell Coils
- DC Field Coils
- DC Interpole Coils
- Armature Coils



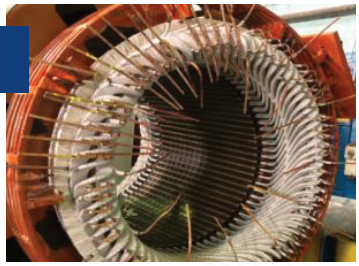




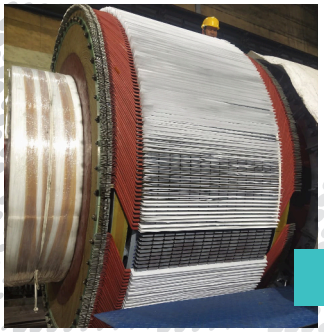
HV MOTOR SERVICES

- HV Motor Repairs & Refurbishment
- HV Motor Rewinds
- On-site Motor Repair & Rewinds
- Motor Assembly & Commissioning
- Condition Assessment





DC & SPECIAL MOTORS





- DC Motor Repairing & Rewinding
- DC Motor Refurbishment
- Special Motor Repairing
- Traction Motor Repairing & Rewinding

TESTING AND DIAGNOSTIC FACILITIES

MOTOR & GENERATOR HEALTH CHECK-UP

Evans Electric Ltd. provides comprehensive diagnostic and condition-assessment services for HV Motors and Generators to identify potential electrical, mechanical and insulation-related issues before they lead to major failures.

Diagnostic & health check-up

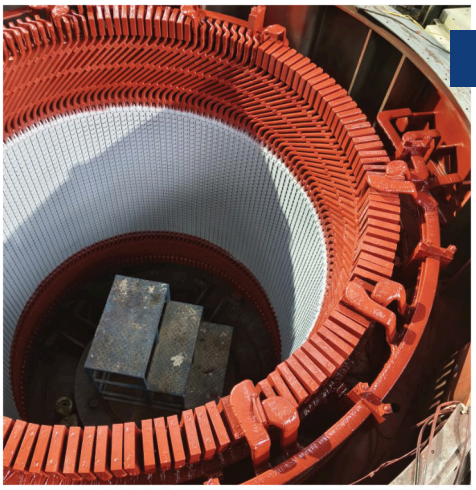
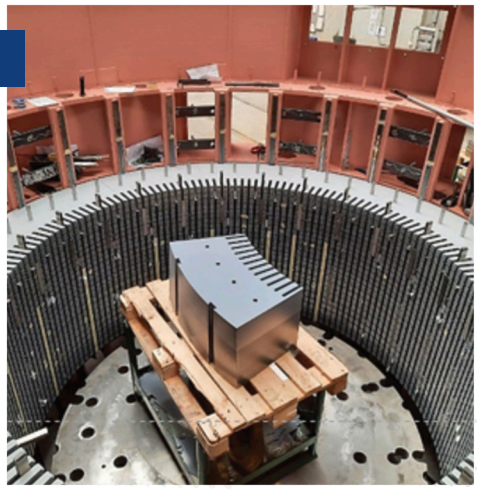
- RLA Studies – condition assessment
- Insulation Resistance (IR)
- Polarization Index (PI)
- Winding Resistance Measurement
- Surge Comparison Test
- Tan Delta
- Partial Discharge
- Core Loss / Core Flux / EL CID Testing
- Vibration & Noise Analysis
- HV / AC Withstand Test

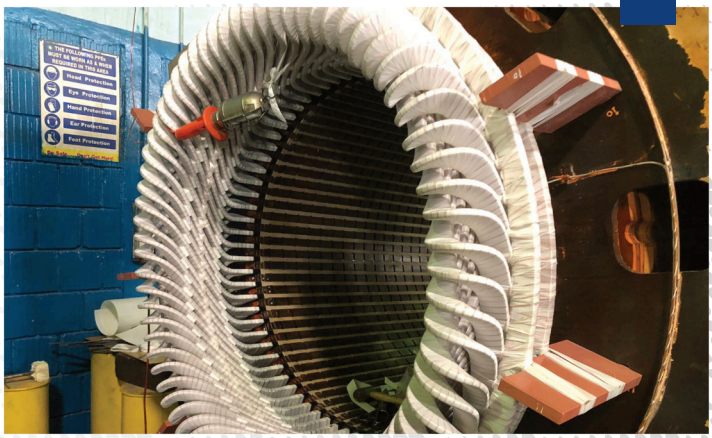
Extended services

- In-situ balancing
- Condition monitoring
- Overhauling & servicing
- Vibration spectrum analysis
- Current signature analysis
- Impulse test
- DC absorption test
- Complete testing with drives
- Energy Saving & Operation cost reduction in electric motor

ONSITE REPAIRING & COMMISIONING

GENERATORS (HYDRO/THERMAL/NUCLEAR/DIESEL/GAS)

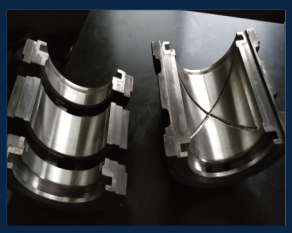



SPARE REENGINEERING AND SUPPLY

SLIP RING I SHAFT I BEARING HOUSING I SLEEVE BEARING COPPER BUSHING WITH INSULATOR I COMMUTATOR INSULATION COMPONENT







CASE STUDY

ON-SITE MOTOR REPAIR & VIBRATION ELIMINATION

- **Equipment:** 6.0 MW, 11 kV, 22-pole vertical motor.
- **Problem:** Chronic vibration causing rotor rubbing against the stator bore.
- **Previous Attempts:** Multiple transportation trips to service centres failed to resolve the issue.
- **Solution:** Evans Electric Ltd. diagnosed and rectified the problem on-site with minor winding design modifications.
- **Result:** Problem successfully resolved within 2 weeks, avoiding further transportation and downtime.

30 MW TURBO GENERATOR

- **Details:** 96 Roebel Bars manufactured in-house using the Resin Rich system. Core was fully re-steeled horizontally and fully rewound on site.
- **Performance:** The machine operated trouble-free for 40 years.
- **Status:** The plant was decommissioned in 2016 due to expansion, with the generator still in active operation at that time.

50 MW, 33 KV RATED TURBO GENERATOR

- **Details:** Fully rewound with 120 in house manufacture fully transposed bars.
- **Performance:** The generator operated successfully for 10 years.
- **Status:** The station was decommissioned in 2014 due to emission controls, with the generator still in perfect operating condition

CONTACT DETAILS

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