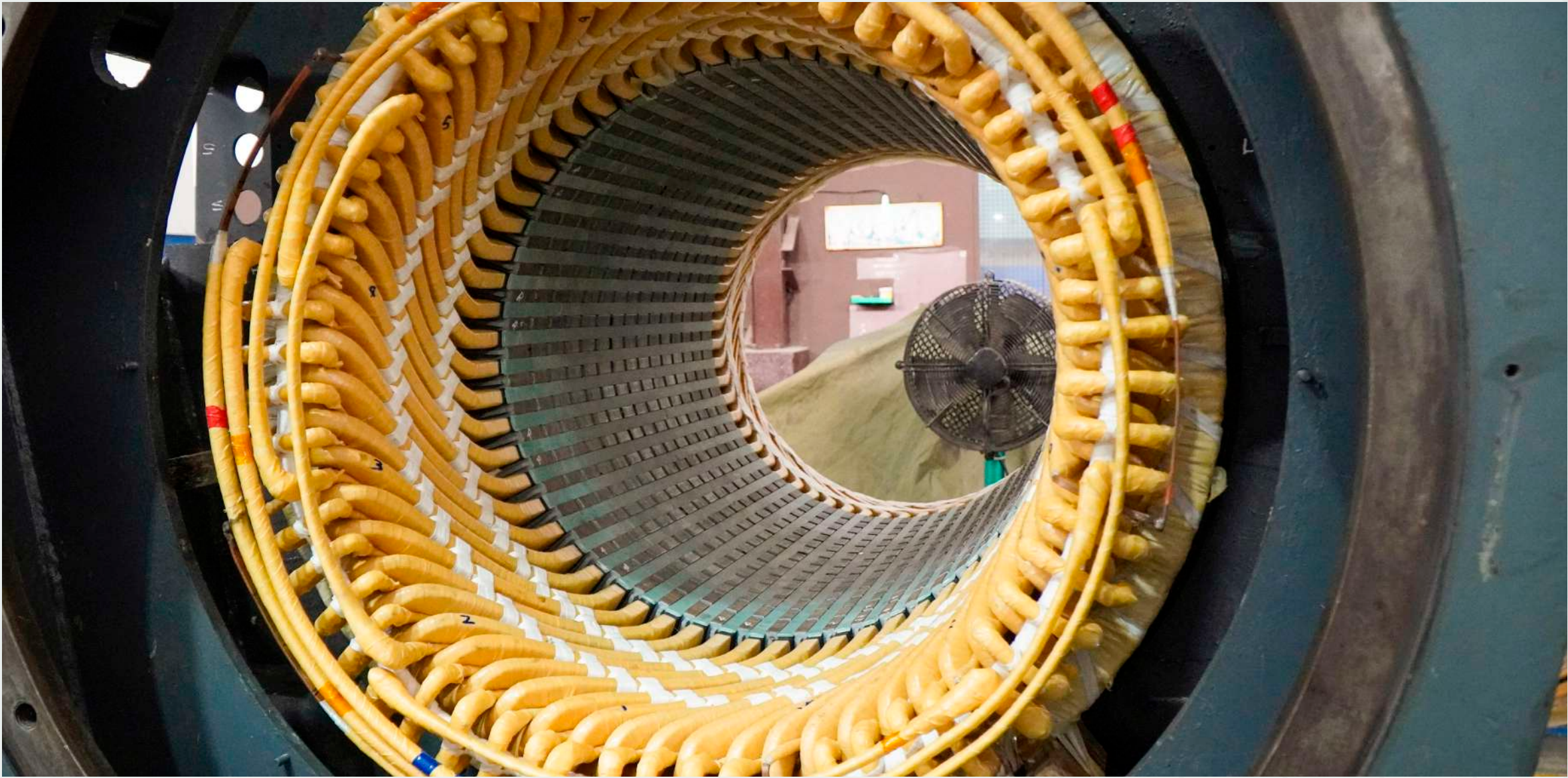




SCOPE OF WORK

The project involves the manufacture and supply of 60+1 RR insulation coils using Class F insulation materials suitable for 6.6 kV applications.

BASIC INFORMATION ABOUT COIL & MACHINE

COUNTRY	MAKE	kW	VOLTS	AMPS	HZ	POLES	RPM	INS.CL
INDIA	BHEL	1250	6600	132	50	4	1487	F

 Swipe to see test plan



QUALITY ASSURANCE

To ensure performance and durability, each coil undergoes rigorous quality checks and electrical testing before dispatch.

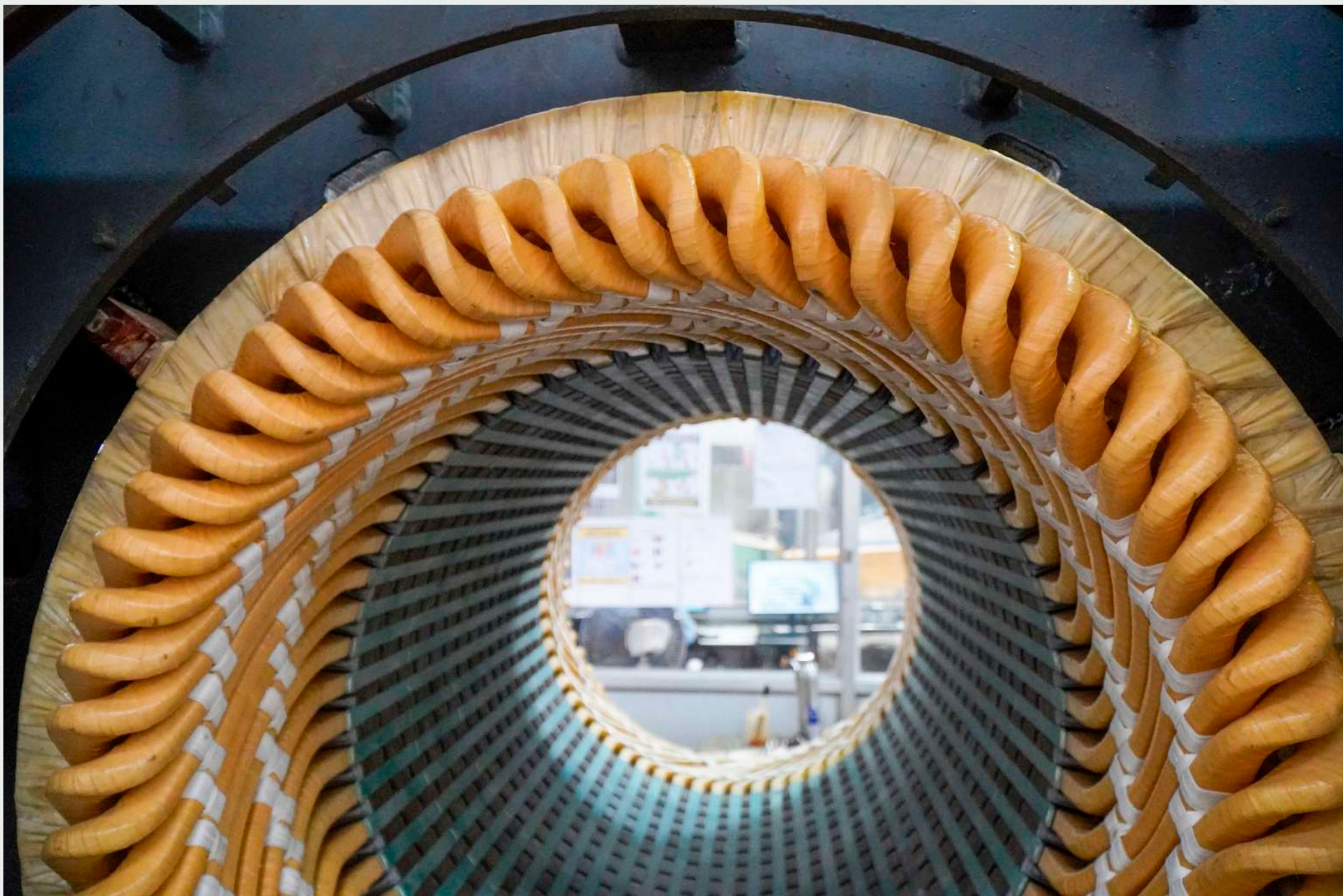
The testing procedures include:

- ◉ Dimensional Checking - Verification of coil dimensions for precise fit and installation.
- ◉ Coil Resistance Measurement - Ensuring electrical resistance values are within acceptable limits.
- ◉ Insulation Resistance (IR) Test - Conducted at 5000 V before and after the HV test to verify insulation integrity.
- ◉ AC High Voltage Test - Performed at 16 kV for 1 minute to validate insulation strength under high voltage conditions.



- Surge Comparison Test - Conducted at 15 kV to detect any turn-to-turn insulation faults.
- HV/HF Interturn Test - Executed at 10 kV to ensure proper inter-turn insulation performance.
- Tan Delta and Capacitance Measurement - To assess insulation health and dielectric losses.

These tests ensure that the coils meet industry standards and operational reliability requirements for high-voltage motors.



PROCESS

- Coil Installation
- Coil to Coil Banding
- Wedging
- End Connections
- Test Include IR, WR, SURGE, PI, HV, TAN DELTA
- Winding Accessories Test

PROJECT STATUS

The coil process has been completed and sent for rewinding, which is currently in progress.