



SCOPE OF WORK

Manufacture and supply of 50 numbers of RR insulation coils using all Class F materials for 11 kV application for the ***Ramganga Power Plant (BHEL make)***, with a manufacturing lead time of 13 days and a warranty of 12 months.



BASIC INFORMATION ABOUT COIL & MACHINE

COUNTRY	MAKE	KW	VOLTS	AMPS	HZ	POLES	RPM	INS.CL
INDIA	-	67000	11000	3849	50	32	187.5	F



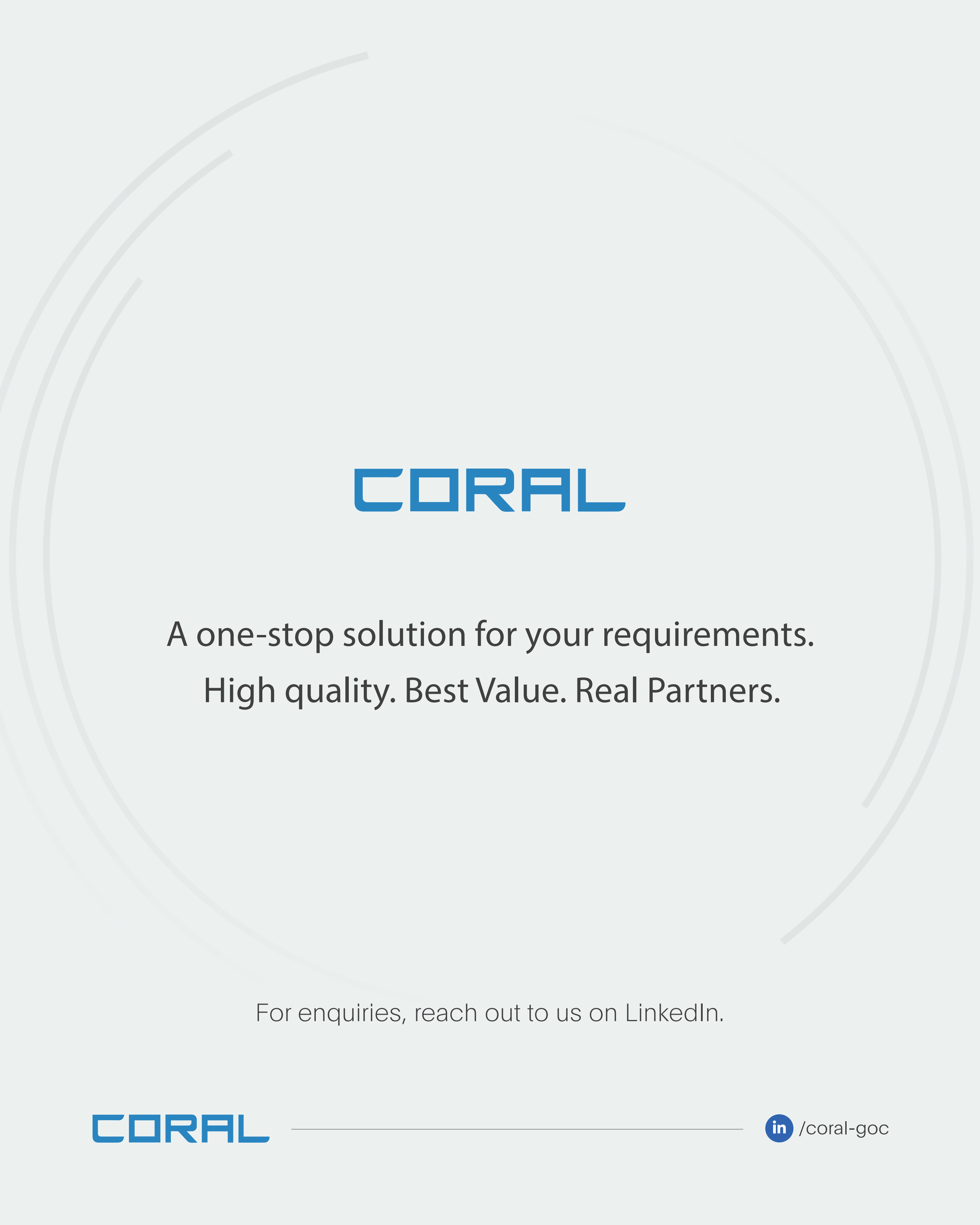
FINAL TESTING ON INDIVIDUAL COIL

- ◉ Dimensional check
- ◉ Inter-element test - 110V AC (as per ESI 44-7, 1978)
- ◉ Coil resistance measurement
- ◉ IR test - 5000V before & after HV (IEEE 43:2000)
- ◉ AC HV test - 33kV for 1 min (BS-4999:1976)
- ◉ Surge comparison - 15kV (IEEE 522:2004)
- ◉ Tan delta & capacitance at 11kV
- ◉ Standards - IEEE 286:2000 & IEC 60034-27-3:2015
- ◉ Partial ischarge - per IEEE 1434



PROCESS CRITICALITY

- Each turn consists of 22 parallel wires
- Roebelling is provided on the NCE side of the OH section at both the top and bottom
- Turn insulation is applied to each turn & undergoes three-stage consolidation



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