



Powering Precision, Shaping Progress
60 MW Hydro VPI Bar Manufacturing Main Process.

Project Name:

Kerala State Electricity Board (KSEB)

Scope of Work:

- Manufacture and supply of 600 Hydro VPI Bars
- Class F materials used
- No winding kit included

Objective:

Deliver precision-engineered bars for efficient hydroelectric performance.



Step-by-Step Precision Engineering

1. Roebeling with a 360° Transposition

- Ensuring uniform conductivity and efficiency in performance.

2. Overhang Bending

- Machine bending to achieve an exact contour profile in the overhang portion for all bars.
- Guaranteed contour radius for each bar.



3. Brazing

- With easy-to-use lug connections.

4. Taping

- 2-axis taping machine for the bars slot portion & overhang portion to ensure the lapping.

5. Single Bar VPI

- Using an internationally preferred Epoxy impregnation system.

Note: Each process guarantees durability, precision and efficiency for 60 MW hydroelectric turbines.



Final Quality Assurance

- Dimensional Checking
- Bar Resistance Measurement
- Surface Resistance Measurement
- Insulation Resistance at 2.5KV (Before and After HV Test)
- AC HV Test at 15 KV for 1 Minute
- Voltage Endurance Test (as per IEEE1043)
- Thermal Cyclic Test (as per IEEE1310)

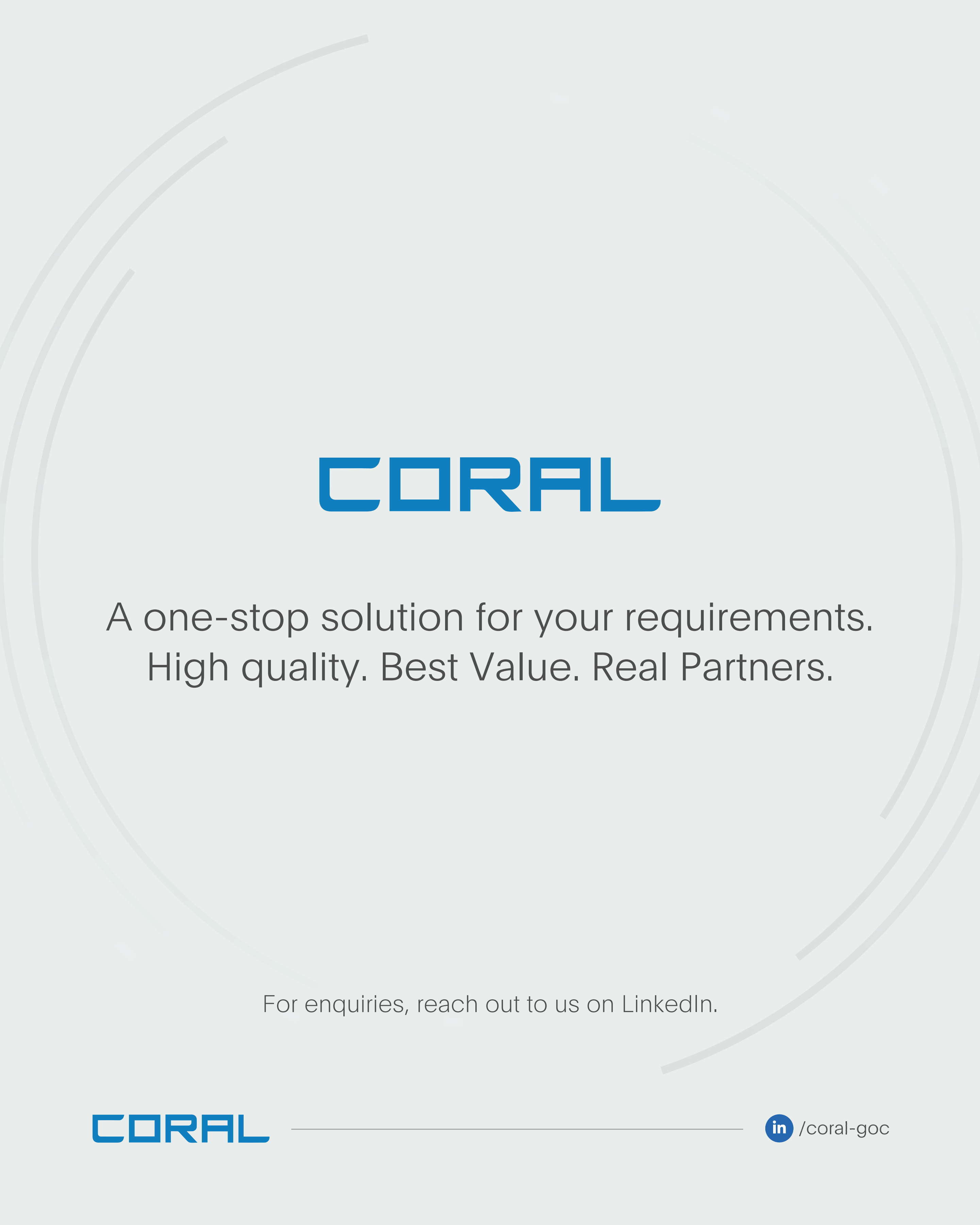
Our bars undergo rigorous testing to meet industry standards.



Successful Project Completion

Coral's contribution to the Kerala State Electricity Board (KSEB) project reflects our commitment to precision and sustainability.

By delivering high-quality Hydro VPI Bars, we empower hydroelectric projects to achieve greater efficiency and reliability.



CORAL

A one-stop solution for your requirements.
High quality. Best Value. Real Partners.

For enquiries, reach out to us on LinkedIn.

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