Detailed scope of works and Technical Specification

25 kV Electrification of Tundla – Agra - Bayana section, 146 TKms, INDIA:-

IRCON was awarded the work of Railway Electrification of Tundla – Agra – Bayana section on Western and Central Railway of Indian Railways Network. The work was completed between Oct'1987 to March'1990. The work on the 146 TKM single line section with fifteen stations enroute had to be carried out under traffic blocks. The Project involved complete Design, Supply, Erection, Testing and Commissioning of 25 kV polygonal type, SNCF design based self-regulating Overhead Catenary system with steel masts. Close coordination and interfacing with Railway Authorities had to be ensured to avoid minimum disruption to the train operation. Main features of the Catenary system were:

- Swiveling type Cantilever assemblies with galvanized steel tubes.
- Winch type self regulating equipment

- Portals in station areas.
- 65 mm sq. cadmium copper Catenary wire
- 107 mm sq. electrolytic copper Contact wire
- ACSR Return Conductor
- Booster Transformers
- Return Conductor to Rail connections
- Sectioning and Sub-sectioning Posts
- Disconnecting Switches