Detailed scope of works and Technical Specification

25 kV Electrification of Delhi – Panipat - Ambala section, 540 TKms, INDIA:

IRCON completed the work of Railway Electrification of Delhi – Panipat - Ambala Trunk Route on Northern Railway of Indian Railways Network between Oct'1992 to March'1996. The work on the 540 TKM section had to be carried out under traffic blocks on high density Trunk Route with 22 stations. In addition to Railway Electrification, complete work of four nos. 132/25 kV and 66/25 kV Traction sub-station was carried out by IRCON. 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 was maintained in planned way to avoid disruption to the train operation. Main features of the Catenary system were:

- Swiveling type Cantilever assemblies with galvanized steel tubes.
- Three pulley type self regulating equipment
- Portals in station areas.
- 65 mm sq. cadmium copper Catenary wire
- 107 mm sq. electrolytic copper Contact wire
- Four nos. 132/25 kV & 66/25 kV Traction Sub-stations
- ACSR Return Conductor
- Booster Transformers
- Disconnecting Switches
- Return Conductor to Rail connections
- Sectioning and Sub-sectioning Posts