

Detailed scope of works
and Technical
Specification

25 kV Electrification of Delhi – Mathura section, 460 TKms, INDIA

IRCON completed the work of Railway Electrification of Delhi – Mathura Trunk Route on Central Railway of Indian Railways Network between Sept'1981 to March'1984. The work on the 460 TKM section had to be carried out under traffic blocks on high density Trunk Route. Between Delhi to Ballabgarh, the section had four lines and from Ballabgarh to Palwal had three lines. The Electrification of the section included Erection of a huge nos. of portals. 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. The Project involved close coordination and interfacing with Railway Authorities to avoid minimum disruption to the train operation. Main features of the Catenary system were:

- Swiveling type Cantilever assemblies with galvanized steel tubes.
- More than 900 Portals in section.
- 65mmsq.cadmium copper Catenary wire
- ACSR Conductor
- Booster Transformer
- Disconnecting Switches
- 107 mm sq. electrolytic copper Contact wire
- Two nos. 66/25 kV Traction Sub-station
- Sectioning and Sub-sectioning Posts
- Winch type self regulating equipment



The Project involved Design, Supply, Erection, Testing and Commissioning of 66 kV double circuit Transmission Line between Traction Sub-stations at Ballabgarh and Hodal.