

Detailed scope of works
and Technical
Specification

25 kV Electrification of Nagpur – Gondia - Paniajob section, 485 TKms, INDIA:-

IRCON completed the work of Railway Electrification of Nagpur – Gondia - Paniajob Trunk Route on South Eastern Railway of Indian Railways Network between Oct'1986 to Dec'1991. The work on the 485 TKM section had to be carried out under traffic blocks on high density Trunk Route with 14 stations. In addition to Railway Electrification, complete work of two nos. 220/25 kV Traction sub-stations 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.
- Winch type self regulating equipment
- Portals in station areas.
- 65 mm sq. cadmium copper Catenary wire
- 107 mm sq. electrolytic copper Contact wire
- Disconnecting Switches
- Booster Transformers
- ACSR Return Conductor
- Return Conductor to Rail connections
- Two nos. 220/25 kV Traction Sub-station
- Sectioning and Sub-sectioning Posts



The section included special design for installation Catenary system in the existing tunnels enroute.