

Detailed scope of works
and Technical
Specification

1500 V DC Electrification of Jakarta Suburban Railway Networks CLTA Project, 45 TKms, INDONESIA:-

IRCON completed the turnkey Electrification of Jakarta suburban Railway from Jat nagara to Depok Station (45 TKM) between Nov'90 to June'92. IRCON had the responsibility of Design, Supply, Erection, Testing and Commissioning of complete Railway Electrification system on the section having 8 stations with 1500 Volt DC Overhead Contact System, Japanese Design based on self-regulating Contact Wire with pre-stressed reinforced concrete tubular poles. The Project involved close coordination and interfacing with Consultants and JABOTABEK Railway Authorities. Main features of the Overhead Contact system were:

- Fixed Cantilever assembly with Galvanized MS Angles.
- Winch type and Hydraulic Regulating equipment
- V-Truss Beams in station areas
- 90 sq. mm. Galvanized steel Catenary wire
- 110 sq. mm Electrolytic Grooved Copper Contact wire
- 300 sq. mm. flexible copper feeder wire
- 65 sq. mm. Galvanized steel earth wire
- 1500 Volt DC Disconnecting switches
- DC Traction Sub-stations
- Positive and Negative cables




The Project involved modification to the existing electrified line under power block conditions.

The Project also included lighting of station yards and Design, Supply, Erection, Testing and Commissioning of 6.6 kV Cables with Auxiliary Transformers to meet the Power Supply requirements of Signalling and Station areas.

1500 V DC Electrification of Bekasi Line, 42 TKms, Jakarta, INDONESIA:-

IRCON completed the turnkey Electrification of Jakarta suburban Railway from Jatinagara to Bekasi Station (42 TKM) between March'91 to Nov'92. IRCON had the responsibility of Design, Supply, Erection, Testing and Commissioning of complete Railway Electrification system on the section having seven stations with 1500 Volt DC Overhead Contact System, Japanese Design based on self-regulating Contact Wire with pre-stressed reinforced concrete tubular poles. The Project involved close coordination and interfacing with Consultants and JABOTABEK Railway Authorities. Main features of the Overhead Contact system were:

- Fixed Cantilever assembly with Galvanized MS Angles.
 - Winch type and Hydraulic Regulating equipment
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- V-Truss Beams in station areas
 - 90 sq. mm. Galvanized steel Catenary wire
 - 110 sq. mm Electrolytic Grooved Copper Contact wire
 - 300 sq. mm. flexible copper feeder wire
- 65 sq. mm. Galvanized steel earth wire
 - 1500 Volt DC Disconnecting switches
 - DC Traction Sub-stations
 - Positive and Negative cables

The Project also included lighting of station yards and Design, Supply, Erection, Testing and Commissioning of 6.6 kV Cables with Auxiliary Transformers to meet the Power Supply requirements of Signalling and Station areas.