

Detailed scope of works
and Technical
Specification

Railway Electrification of Lucknow – Mughalsrai Section

Ircon completed Design, Supply, Erection, Testing & Commissioning of 25 KV, 50 Hz, Single phase, Electrification Works (OHE, TSS, SCADA, General Electrical Works, S&T & Civil Engineering Works all inclusive) in Mughalsarai – Sultanpur - Utratia Section Group 136 & 137 of Northern Railway between 2009 to 2012.



The scope of works included 557 TKMs of OHE, 5 Nos of TSS with 220 & 132 KV Traction Transformers, 5 SP and 8 SSP and Yard at Varanasi with SCADA system. The work was carried out with high professional skill. Each Sub-station was provided with 220 or 132/27.5 KV, 21.5 MVA, 50 Hz, single phase transformers to feed supply to OHE. On H.V. side, vacuum circuit breakers and on L.V. side SF₆ circuit breakers were used for isolation of Electrical circuits. Sub-station earthmat was designed with 32 mm earthing rod and pipe earthing. Electronic relay panel for sub-station protection were used. Remote Terminal Unit (RTU) were installed on all Traction sub-station and switching post for Supervisory Control and Data Acquisition System (SCADA) for remote operation of Electrical switches.