

Salient Feature of Technical Specifications

EPC Works of 400kV EHV Transmission Line from NTPC REL's Project Pooling Sub-Station (PSS), Fatehgarh to PGCIL ISTS Sub-Station, Fatehgarh-IV

Name of the Package	EPC Works of 400kV EHV Transmission Line from NTPC REL's Project Pooling Sub-Station (PSS), Fatehgarh to PGCIL ISTS Sub-Station, Fatehgarh-IV
Transmission Line	400 kV Single Circuit on Double Circuit towers; approx. 51 km (-100% to +20%) route length (exact length to be fixed after detailed survey)
Route / Location	From NTPC REL's PSS, Fatehgarh (Distt. Jaisalmer, Rajasthan) to PGCIL ISTS Sub-Station, Fatehgarh-IV; route in non-GIB zones
Terminal Point	PSS end: termination of conductor and OPGW (with Junction Box) on Employer-provided take-off gantry. Grid end: termination and integration at ISTS Sub-Station, Fatehgarh-IV including associated telemetry / interface systems
Tower Configuration	Double circuit towers for the entire route with cross-arms on both sides; stringing of one circuit only, other side kept fully equipped for future use. Multi-circuit towers for ~2–3 km near ISTS Sub-Station (subject to CTU approval)
Conductor	AL59 Twin "Moose" or higher configuration / equivalent
OPGW & Telemetry	OPGW with Junction Boxes at take-off gantries of both ends; FOTE / DPC telemetry at ISTS end as per CTU / RLDC requirement; metering panel with control cable
Right of Way	Complete RoW arrangement (documentation, crop / tree compensation, NOCs) by bidder, valid min. 30 years from land allotment; all costs included in bid price
Operation & Maintenance	3 years from date of commissioning including consumables and spares
Liquidated Damages	Generation loss due to line unavailability during O&M: ₹2.89/unit; unavailability up to 45 hrs per O&M year permitted (incl. planned outages); LD capped at PBG value

Survey, Design, Engineering, Supply, RoW/RoU, Construction, Erection, Testing, Commissioning and Operation & Maintenance of approximately 51 (-100% to +20%) km long 400kV Single Circuit on Double Circuit tower Transmission Line from NTPC REL's Project Pooling Substation (PSS) near Fatehgarh to PGCIL ISTS Substation at Fatehgarh-IV, including OPGW and all statutory approvals (including approval under Section-164 of the Electricity Act).

The scope includes the following:

1. Basic Engineering of the EHV Transmission System as per CTU/CEA regulations and requirements.
2. Geotech Investigation for Transmission System as required for Design of Foundations.
3. Supply of mandatory spares for the transmission line.
4. Complete testing, pre-commissioning and commissioning of the Transmission System, including all type, routine and acceptance tests, and successful completion of initial operation.

5. Comprehensive Operation & Maintenance of the EHV Transmission Line including consumables and spare parts, for a period of Three (03) years from the date of Commissioning.

Exclusions: Solar project development works (inside plant boundary), pooling substation and gantry at the solar project end. The detailed scope of work shall be as defined in the Bidding Document.