

“LAND AND POWER EVACUATION PACKAGE FOR DEVELOPMENT OF 900MW ISTS CONNECTED SOLAR PV PROJECTS IN ANANTAPUR, ANDHRA PRADESH WITH GREEN SHOE OPTION OF 300MW.”

Salient Technical Feature / Brief Scope of Work

A. Land Related Works

1. **Arrangement of Government/private Land (5Acres/MW) on freehold/leasehold** basis near Anantapur ISTS substation, Andhra Pradesh. The lease period shall be a minimum of 30 years.
2. Necessary approach road till Pooling substation including any interconnection between plots (if not readily available) by self or through State machinery.
3. Topography Survey for Land Parcels and any cutting / Filling with 95% compaction as per standard Proctor density test, to maintain an average slope of 10% for Solar Project Land for installation of tracker-based MMS. (Tracker system is not included in bidder's scope). The slope of land would preferably be in one direction for at least 100m length in N-S Direction.
4. Geotech Investigation for Pooling Substation and Transmission System only as required for Design of Foundations.
5. Fencing of the offered Land including entry / exit gates (minimum 2 per plot) including security cabins (as per Tender Drawing) for Solar Project except Tr. Line related Land.

B. Power Evacuation Related Works

1. Arrangement of **grid connectivity with ISTS substation in Anantapur, Andhra Pradesh.**
2. Design, Engineering, Supply, Erection, Testing & Commissioning of:
 - a) **AIS Pooling Substation** (400kV or 220kV as per quoted capacity) with Tie Transformers (400kV/33kV or 220kV/33kV- suitable quantity and rating in line with CEA standard specification) and associated SAS and Protection.
 - b) **33 kV Pooling Switchgear** for quoted capacity.
 - c) Associated Civil work for substation including Control Room Building and Pooling switchgear building.
3. **Design and Construction of EHV Transmission Line** from Pooling substation till ISTS Sub-Station as per technical specifications and relevant standards including arranging for the “Right of Way” of transmission line.
4. Design and construction of terminal bay(s) at ISTS end.
5. Telemetry system for data communication as per specifications.
6. Installation of Common Power Plant Controller (Main and Sub-PPCs) and Grid Compliance Study for solar plants associated with each Pooling Substation.
7. Supply and Installation of various Monitoring associated with Tie Transformers.
8. Supply of mandatory spares
9. O&M of Pooling substation and associated equipment, EHV Transmission Line and terminal bay(s) at ISTS end for a period of 3 years from the date of Project Commissioning.