NTPC Renewable Energy Limited
(A Group Company of NTPC Ltd.)

Salient Feature of Technical Specifications

EPC Package with Land for Development of up to 1200MW (900MW+300MW) ISTS Connected Ground Mounted Solar PV Project near Anantapur Solar Project (A.P.) of NTPC REL

Name of the Package	EPC Package with Land for Development of up to 1200MW (900MW+300MW) ISTS Connected Ground Mounted Solar PV Project near Anantapur Solar Project (A.P.) of NTPC REL
Solar Project Capacity	Block I : 900 MW Block II : 300 MW
Metering Point (PG Test)	At 33 kV Switchgear of the respective Solar PV Plant
Terminal Point	400 kV and/or 220 kV Sub station at NTPC REL Solar PV project including Integration and interconnection with existing substation systems.
Module Type	The Crystalline Solar PV Bifacial Modules and Solar PV Cells proposed for use in the Project shall be selected only from the models and manufacturers listed in the latest applicable Approved List of Models and Manufacturers (ALMM), issued by the Government of India, for Solar PV Modules (ALMM List-I) and Solar PV Cells (ALMM List-II), as amended from time to time.
Power Transformer	**Package 1/ Block I** Power Transformer Configuration: - 315 MVA x 2 + 250MVA x 2 (400 KV/33KV-33 KV) **Package 2/ Block II** Power Transformer Configuration: - 125 MVA x 2 + 100MVA x 1 (220 KV/33 KV)
Liquidated Damages	PG-test shortfall: R × N (R = ₹2.89, N = 11.98); grid-unavailability loss: ₹12.5/unit

Arrangement of land for the Solar project and Owner's BESS Project, and Design, Engineering, Manufacturing, Supply, Packing and Forwarding, Transportation, Unloading, Storage, Installation, Commissioning and Operation & Maintenance of Grid connected Solar PV project located near Anantapur Solar Project of NTPC REL including power evacuation system from solar project to NTPC REL's Anantapur Solar Project PSS / ISTS Substation and development of terminal Bay at NTPC REL's Anantapur Project PSS.

The scope includes the following:

1. Identification, acquisition, and complete transfer of ownership/lease of encumbrance free land including land for BESS in favour of NTPC Renewable Energy Limited.
2. Supply, erection, commissioning of new **400kV and 220kV Terminal line bay(s)** (including Bus extension if required) at NTPC REL's Anantapur Solar Project PSS.
3. Development of **two (02) dedicated transmission lines** including ROW from Solar Plant to respective NTPC REL's Anantapur Solar Project PSS.

The project comprises two separate evacuation systems corresponding to two (02) substations, and accordingly two (02) transmission lines along with two (02) line bays shall be developed.

4. All EPC works (including civil and structural works) required for Development of Solar PV Project including Solar PV modules along with power evacuation system up to respective PSS and telemetry up to ISTS Pooling substation as per detailed technical Specifications and applicable technical standards. The specification also includes CCTV and all related additional items pertaining to grid compliances like Dynamic Reactive power compensation, harmonics etc.
5. Performance testing for demonstration of Guaranteed Generation at metering point.
6. Supply of Mandatory spares.
7. Operation & maintenance of complete Solar PV plant including Switchyard and power evacuation system till respective PSS (including developed bays) along with consumables and spare parts for a period of Three (03) years from the date of commissioning.