

Salient Feature of Technical Specifications

EPC Package with Land for Development of up to 600MW (300MW+300MW) ISTS Connected Ground Mounted Solar PV Project near Dhule Solar Project (Maharashtra) of NTPC REL

Name of the Package	EPC Package with Land for Development of up to 600MW (300MW+300MW) ISTS Connected Ground Mounted Solar PV Project Near Dhule Solar Project (Maharashtra)
Solar Project Capacity	Block I : 300 MW Block II : 300 MW
Metering Point (PG Test)	At 33 kV Switchgear of the respective Solar PV Plant
Terminal Point	220 kV Substation(s) (One Each for Each Block) 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	Per block: 125 MVA × 2 + 100 MVA × 1 (220/33 kV)
Liquidated Damages	PG-test shortfall: $R \times N$ ($R = ₹2.89$, $N = 11.98$); 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 Dhule Solar Project of NTPC REL including power evacuation system from solar project to NTPC REL's Dhule Solar Project PSS / ISTS Substation and development of terminal Bay at NTPC REL's Dhule 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 **220kV Terminal line bay(s)** (including Bus extension if required) at NTPC REL's Dhule Solar Project(s) PSS.
3. Development of dedicated 220kV transmission line(s) including ROW from Solar Plant to NTPC REL's Dhule Solar Project PSS. The project comprises two blocks of 300MW each. The evacuation scheme may involve either a single common PSS or two separate PSS.

Accordingly, the contractor shall design and develop either single or two (02) transmission lines along with corresponding line bay(s) as per the final approved configuration.

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 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 PSS (including developed bay(s)) along with consumables and spare parts for a period of Three (03) years from the date of commissioning.