



## NTPC Renewable Energy Limited

(A wholly Owned Subsidiary of NTPC Green Energy Limited)

Corporate Centre

### SALIENT TECHNICAL FEATURES

“Salient Technical Features of the systems /equipment/ services are mentioned below. These Salient Technical Features are mentioned only to facilitate the prospective bidders to prima-facie understand the requirements under the tender and shall not in any way limit or alter the scope of work and technical features/specification of equipment/ systems/ services covered in the Bidding Documents. Detailed provisions in regard of scope of work and technical features/specification of equipment/ systems/ services, contained in the Bidding Document shall be final and binding.”

Salient technical features of the proposed project are as follows:

Name of the Project	<b>EPC PACKAGE FOR DEVELOPMENT OF 900MW (3x300MW) GRID CONNECTED SOLAR PV PROJECTS AT MANDSAUR, MADHYA PRADESH</b>
Project capacity	<b>900 MW (3 x 300MW)</b>
Block/Plot capacity	<b>3 Blocks of 300MW</b>

1. There are three Solar Blocks namely Block-1, Block-2 and Block-3 of 300MW each, which are grouped into two clusters. **Cluster-1 comprises of a single 300MW Block (Block-1) and Cluster-2 comprises of two 300MW Blocks (Block-2 and Block-3). Bidders may bid for Cluster-1 (One block) or Cluster-2 (One or Two Blocks) or both.**
2. Complete Design, engineering, manufacturing, supply, packing and forwarding, transportation, unloading storage, installation, testing and commissioning of Solar Photo Voltaic Plant **including** supply of Solar PV Modules.
3. **MMS** as per Technical Specification – Tracker based (**Cost per MU Based Bidding**)
4. String / Central Inverter with Maximum Power Point Tracking technology along with associated cables, cabling, Transformer & Switchgears.
5. SCADA, Weather Monitoring System, and CCTV system.
6. Electrical works and associated switchgear equipment as per technical specification.
7. Evacuation of power up to Owner’s 33kV Switchgear of 33/400kV Substation
8. Module cleaning system including supply and installation of all accessories.
9. All associated civil works for Solar plant and power evacuation up to Owner’s 33kV Switchgear of 33/400kV Substation



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10. Dynamic reactive power compensation at PoI as per CEA technical standards and working committee report.
11. Facilitation for Grid compliance study of Solar projects
12. Comprehensive O&M for 3 years from date of commissioning of full capacity
13. Supply of mandatory spares