



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	Construction power package using Solar PV System at NTPC REL's Khavda RE Park
Type of Project	Ground mounted Solar PV Project
Project capacity	550 kWp
Project Location	Khavda RE Park, Rann of Kutch, Gujarat

1. Design, engineering, manufacturing, supply, packing and forwarding, transportation, unloading storage, installation, testing and commissioning of “Construction power package using solar PV System”.
2. Solar Array capacity with fixed tilt module mounting structure and associated foundation-550 kWp.
3. Solar inverter (having MPPT feature) suitable for operation with AC Coupled Battery Energy Storage System (BESS) without grid connectivity: 500 kW (250 KW x 2). BESS is not in the scope of this package.
4. 415V ACDB for interconnection of Solar PV System, BESS and Load feeders with provision for future Utility grid and DG set connectivity.
5. Associated Electrical system, AC and DC Wiring, earthing and lightning protection
6. Pre-Engineered Building- 1 no. for the following purpose: -
 - a. For Housing inverter, ACDB
 - b. Air-conditioned office, Pantry, and toilet



- c. Air-conditioned Conference room
7. Chain link fencing - Total length of 1000 m
8. 415 V, 4-wire distribution line on 8 m tubular pole with aerial bunched cable– Total length of 5000 m
9. Street light 30 W Single LED luminaries embedded in the 415V tubular pole (for distribution lines) - 125 No.s, with outdoor control switchboards
10. WBM road- From main access road till control room
11. Comprehensive Operation & maintenance of Standalone Solar PV plant and associated facilities for a period of Three years from the date of commissioning of full Project capacity.