

Salient Technical Features for Battery Energy Storage System (BESS) at NTPC Ramagundam, Telangana

“Salient Technical Features of the equipment/ systems/ services covered in IFB No. **RE-CS-5747-004(B)-9** 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.”

Name of the Project	EPC PACKAGE FOR DEVELOPMENT OF 10MW/40MWh BATTERY ENERGY STORAGE SYSTEM (BESS) AT NTPC RAMAGUNDAM
Project capacity	10 MW and 40MWh Rated Discharge AC capacity at 33KV interconnecting point.
BESS Service Life	The service life of BESS shall be minimum 10 years and maximum upto 15 years. Bidder can quote BESS system with any service life between 10 years to 15 years based on their offered BESS technology.

- Determination of basic design criteria for 10 MW and 40 MWh capacity grid interactive Battery Energy Storage System (**BESS**).
- The BESS shall comprises of Battery System, Battery Management System (BMS), Energy Management System (EMS) and SCADA, Power Conversion System (PCS), Protection system, Communication System, HT & LT System, Auxiliary power system, Fire Fighting, remote control and monitoring, and all other associated materials and accessories necessary for trouble free operation and maintenance of the BESS system.
- Comprehensive Operation and Maintenance (O&M) works of BESS system throughout the service life of the project from the date of successful completion of trial run.