

**BRIEF SCOPE OF WORK FOR 'EPC PACKAGE FOR DEVELOPMENT OF ISTS  
CONNECTED STANDALONE BATTERY ENERGY STORAGE SYSTEMS OF  
250MW/500MWH CAPACITY.**

Design, Engineering, Manufacturing, Supply, Packing and Forwarding, Transportation, Unloading, Storage, Installation and Commissioning of grid connected Standalone Battery Storage System of 250MW/500MWH capacity located near Fatehgarh-III ISTS substation in Rajasthan.

Bidder shall provide comprehensive operation & maintenance of the BESS plant (including Battery replacement and disposal if required) for a period for 12 years from the date of Commercial Operation.

BESS Project capacity : 250MW with 500MWH

Project Life =12 Years after COD.

Annual Degradation Allowed: - 2.5% per Year (MWh)

Demonstration of Capacity after 12 years of COD =70% of Capacity at SCOD.

The scope includes the following: -

1. Detailed design, fabrication, shipping, assembling, testing, start-up, commissioning of all the equipment and system(s) including civil works. Warrant and make ready for service a fully functional turnkey battery energy storage system that meets or exceeds all requirements.
2. Design, install and make ready an Energy Management System (EMS) with control and communication system for monitoring and controlling battery/BMS and PCS parameters.
3. All Civil, Structural and Architectural works for BESS and associated electrical system including 33 kV Pooling switchgear and CMCS building.
4. Development of Internal 220 kV Switchyard evacuation system from 33kV Pooling switchgear and necessary Transmission Line for connection with Fatehgarh-III ISTS Substation
5. Project commissioning and Performance testing for demonstration of Guaranteed capacity at interconnection point at ISTS Fatehgarh-III substation.
6. Performance testing at each year and end of Project Life (12 years from COD).