

**ABRIDGED INVITATION FOR BIDS**

**NTPC GREEN ENERGY Limited(NGEL)  
CONTRACT SERVICES**

**INVITATION FOR BIDS (IFB)  
FOR  
EPC Package for Development of 6 MW Floating Solar PV Project coupled  
with 6 MW /24 MWhr Battery Energy Storage System (BESS) at ABVTPS  
Project of CSPGCL**

**(DOMESTIC COMPETITIVE BIDDING)**

**IFB No. NRE-CS-5839-CNGEL-EPC  
ETS Search Code: NTPCREL-2025-TN000024**

**Date: 31.12.2025**

*NTPC GREEN ENERGY Limited* on behalf of Joint Venture (JV) between NTPC Green Energy Limited (NGEL) and Chhattisgarh State Power Generation Company Limited (CSPGCL), invites online bids on Single Stage Two Envelope Bidding basis (Envelope I: Techno-Commercial Bid & Envelope II: Price Bid) followed by Reverse Auction from eligible bidders for **'EPC Package for Development of 6 MW Floating Solar PV Project coupled with 6 MW /24 MWhr Battery Energy Storage System (BESS) at ABVTPS Project of CSPGCL.**

For the detailed IFB and bidding documents please visit <https://ntpctender.ntpc.co.in, ngel.in> or [www.ntpc.co.in](http://www.ntpc.co.in) from 31.12.2025 or contact DGM(CS) / AGM (CS), NTPC Green Energy Limited, 4<sup>th</sup> Floor, Renewable Building, Plot No. 3E, Ecotech-II, Udyog Vihar, Greater Noida, Distt. Gautam Budh Nagar - 201301 (U.P.) on Mob No. +91-9418084741 or at e-mail: [prishantpathik@ntpc.co.in](mailto:prishantpathik@ntpc.co.in) / [vishaljain@ntpc.co.in](mailto:vishaljain@ntpc.co.in)

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## **Brief Scope of Work for Solar + BESS Package for at ABVTPS Project of CSPGCL**

Design, Engineering, Supply, Packing and Forwarding, Transportation, Unloading, Storage, Installation and Commissioning of grid connected 6 MW floating solar PV project coupled with 6 MW /24 MWhr Battery Energy Storage System (**BESS**) on turnkey basis. Further the bidder has to obtain site-specific data from the owner in preparation for developing installation and implementation plans.

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.

### **1.0 SCOPE OF WORK FOR Solar + BESS:**

Successful Bidder shall be responsible for providing all equipment, component, and services necessary to install a fully functional floating solar PV plant with BESS.

- 1.01 Design, Engineering, Supply, Packaging and Forwarding, Transportation, Unloading, Storage, Construction, Erection, Testing, Commissioning of grid connected 6 MW floating solar PV project coupled with 6 MW /24 MWhr Battery Energy Storage System (**BESS**) on turnkey basis. BESS capacity to be considered is the rated AC discharge capacity at Point of injection/Metering. Power evacuation system and equipment including integration in existing 11 kV Station Bus is considered in the scope of Bidder along with any modification with all material and service in the switchgear if required.
- 1.02 Performance conditions of Solar + ESS Project, such as Annual Peak Hour Energy Availability, Off-peak hour capacity utilization factor etc. will be mentioned in detailed specifications.
- 1.03 Bidder has to bid for the complete project including Floating solar , BESS and power evacuation works.
- 1.04 Designed life of BESS system including that of battery shall be of minimum 15 years (considering daily single cycle operation) from the date of successful completion of trial run.
- 1.05 Comprehensive Operation and Maintenance (O&M) works of FSPV along with BESS system for 5 years from the date of successful completion of trial run shall be in scope of Bidder.
- 1.06 Bidder has to provide the 10 year AMC and LTSA of the BESS for performance after 5 year O&M.
- 1.07 Grid compliance study, Reactive power compensations and power quality compliance for entire solar + BESS system upto grid interconnection point shall be in scope of bidder.
- 1.08 Project shall comprise of Floating Solar PV, BESS containers, Battery Management System (BMS), Energy Management System (EMS) and SCADA, Power Conversion System (PCS), Protection system, Communication System, HT & LT System, Auxiliary power system, Monitoring & Control system, Fire Fighting, remote control and monitoring, HT & LT Transformers, Power evacuation Infrastructure, and all other associated materials and accessories necessary for trouble free operation and maintenance of the solar + BESS system.

- 1.09 BMS and EMS of the BESS should comply with the latest IS or/and IEC or/and IEEE standards. Fire safety of the Battery and container should be in line with latest Indian or/and international standards.
- 1.10 Floating solar PV plant should be as per Technical Specification of Contract and latest guidelines of CEA, CERC and LDC.
- 1.11 Bidder has to ensure the Minimum Guaranteed generation from floating Solar PV plant.
- 1.12 Site-grading, clearing of vegetation, as required.
- 1.13 Providing power supply and water supply for construction purposes.
- 1.14 Construction of control room with switchgear room, with all electrical fitting and furniture, security cabin etc.
- 1.15 All associated electrical and civil works required for interfacing with grid (i.e. transformer(s), switchgear, protection system, cables, etc).
- 1.16 Metering philosophy should be as per site requirement and metering system will be in the scope of bidder.
- 1.17 Provide documentation for design and expected performance through design calculations, software, design drawings, equipment drawings, and modifications to the existing drawings.
- 1.18 Develop detailed start up and site acceptance plan.
- 1.19 Provide training for the operators, engineers, technicians and maintenance personnel.
- 1.20 Supply any special equipment and tools required for the operation and maintenance of the project.
- 1.21 Provide a warranty for the battery energy storage system (BESS) and its constituents equipment as per technical specification.
- 1.22 All other details will be provided in the IFB.