ABRIDGED INVITATION FOR BIDS

NTPC GREEN ENERGY LIMITED
(A SUBSIDIARY OF NTPC LIMITED)

CONTRACTS SERVICES

INVITATION FOR BIDS (IFB)

FOR

BOS PACKAGE FOR DEVELOPMENT OF 250 MW/ 1000 MWh BESS AT NTPC KAYAMKULAM

(DOMESTIC COMPETITIVE BIDDING)

IFB No.: NGEL-CS-5831-004(BESS BOS)-9 **Date: 09.11.2026**

NTPC GREEN ENERGY LIMITED (NGEL) invites online bids from eligible bidders on Single Stage Two Envelope (i.e. Envelope-I: Techno-Commercial Bid and Envelope-II: Price Bid) bidding basis, followed by Reverse Auction for "**BOS PACKAGE FOR DEVELOPMENT OF 250 MW/ 1000 MWh BESS AT NTPC KAYAMKULAM".**

For the detailed IFB, please visit https://www.bharat-electronictender.com **or** https://ntpctender.ntpc.co.in **or** https://www.ngel.in **or** https://www.ntpc.co.in or may contact:

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Document Sale Start Date and Time :16.11.2026, 17:00 hrs
Document Sale Closing Date and Time : 27.11.2026, upto 17:00 hrs
Bid Submission End Date and Time : 11.12.2026 upto 14:00 hrs
Bid Opening Date and Time :11.12.2026 at 14:30 hrs

Registered Office:
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NTPC Bhawan, SCOPE Complex,
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Corporate Identification Number (NGEL): **L40100DL2022GOI396282**,
Website: www.ngel.in

Brief Scope of Work for BOS PACKAGE FOR DEVELOPMENT OF 250 MW/ 1000 MWh BESS AT NTPC KAYAMKULAM

Design, Engineering, Supply, Packing and Forwarding, Transportation, Unloading, Storage, Installation and Commissioning of grid connected 250 MW/1000 MWh Battery Energy Storage Plant **(BESS) excluding supply of BESS DC Container & Grid-forming PCS**.

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:

Successful Bidder shall be responsible for providing all equipment, component, and services necessary to install a fully functional BESS **excluding supply of BESS DC Container & Grid-forming PCS**.

1.01 Design, Engineering, Supply, Packaging and Forwarding, Transportation, Unloading, Storage, Construction, Erection, Testing, Commissioning of grid connected 250 MW /1000 MWhr Battery Energy Storage System (BESS) on turnkey basis excluding supply of BESS DC Container & Grid-forming PCS. Containerized Battery system and PCS shall be free issued by Owner to Bidder. However, In-land/local transportation from Indian Port, including Loading & Unloading of BESS Container & PCS, shall be in the scope of Bidder. Only Supervision of erection and commissioning of Battery and PCS along with supply of the same shall be in the scope of Owner.

1.02 Bidder has to engage a Custom Broker/CHA (Custom House Agent) for custom clearance & other liasoning work at Incoming Port of the BESS Container & PCS. Transportation of BESS Container & PCS from Port to respective site shall also be in the scope of Bidder.

1.03 BESS capacity to be considered is the rated AC discharge capacity at Point of injection/Metering. Accordingly, the cumulative nameplate capacity of Battery and PCS provided as free issue to Bidder shall be 15% more than the Ac discharge capacity mentioned above.

1.04 **Scope shall also include development of a new 220 KV AIS switchyard along with 220KV/33 KV Power transformers and pooling switchgears and** associated power evacuation system up to 220 KV transmission line take off gantry. **The new switchyard shall have incoming and outgoing Line arrangements (LILO of existing Kundra Line) through two 220 KV line bays and overhead conductor and tower gantry at plant end.**

1.05 **The work of LILO of existing 220 KV line to connect to BESS switchyard at take off gantry at plant boundary end shall be done through a separate package.**

1.06 Project shall be in a single block as follows:
Block-1: 250 MW / 1000 MWhr integrated at 220 kV level

1.07 Designed life of BESS plant shall be of minimum 15 years from the date of successful completion of trial run.

1.08 Comprehensive Operation & maintenance of BESS Plant along with electrical equipment, consumables, and spare parts for a period of Five years from the date of commissioning of full Project capacity shall be included in the scope of Bidder. For Battery and PCS, separate comprehensive AMC (periodic and corrective maintenance only) shall be arranged by Owner and same is excluded from the scope of Bidder.

1.09 Grid compliance study, Reactive power compensations and power quality compliance for entire BESS system upto 220 KV grid interconnection point shall be in scope of bidder. Required data from battery and PCS shall be shared with Bidder by Owner.

1.10 Bidder's scope shall comprises of following major items such as Energy Management System (EMS) and SCADA, Protection system, Communication System, HT & LT System, PCS Transformers, Auxiliary power system, Monitoring & Control system, Fire Fighting, Aux power supply system of the entire plant (including the aux supply requirement of Battery and PCS), remote control and monitoring, Power Transformers, any other associated materials and services necessary for trouble free operation and maintenance of the BESS. Containerized Battery System (including BMS, its internal fire detection and suppression system, HVAc System) and Bi-directional PCS shall be in the scope of Owner and same shall be provided as free issue to Bidder.

1.11 BESS Plant should be in line with latest guidelines of CEA, CERC and LDC.

1.12 Site-grading, clearing of vegetation.

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 Construction of internal roads, pathways, construction of Drainage system as per General Layout and Topography, any internal / temporary fencing, security cabin etc.

1.16 CCTVs along with remote monitoring system with coverage of 100% block periphery, entry/exit gates of the BESS blocks, PCS stations, IDT etc.

1.17 Required Earthing, Lightning protection, Illumination etc. specific to the projects shall be in the scope of Bidder.

1.18 Supply of Mandatory spares.

1.19 All associated electrical and civil works required for interfacing with grid (i.e. transformer(s), switchgear, protection system, cables, etc), including civil works required for Battery and PCS shall be in the scope of Bidder.

1.20 Metering philosophy should be as per KSEBL and site requirement and metering system will be in the scope of bidder.

1.21 Provide documentation for design and expected performance through design calculations, software, design drawings, equipment drawings, and modifications to the existing drawings.

1.22 Develop detailed start up and site acceptance plan.

1.23 Provide training for the operators, engineers, technicians and maintenance personnel.

1.24 Supply any special equipment and tools required for the operation and maintenance of the project.

1.25 All other details will be provided in the IFB.