NOTICE INVITING TENDER

INTRODUCTION

1.1 Project Background and Solar Infrastructure:

Bundelkhand Saur Urja Limited (BSUL) (A Joint Venture of NHPC Ltd. and Uttar Pradesh New and Renewable Energy Development Agency i.e. UPNEDA herein after referred to as employer/owner) has been notified as the Solar Power Park Developer (SPPD) by the Ministry of New and Renewable Energy (MNRE), Government of India, for the development of the 1200 MW Jalaun Solar Park in District Jalaun, Uttar Pradesh.

Under this framework, as an Intermediary Procurer, BSUL has completed the selection of Solar Power Developers (SPDs) i.e. M/s Coal India Limited (CIL) and M/s NLC India Renewables Limited—for the implementation of 1200 MW of solar generation capacity across Tehsil Orai and Tehsil Madhogarh. The total annual contracted capacity is 2,419 Million Units (MU). BSUL shall execute Power Purchase Agreements (PPAs) to procure the entire 1200 MW of solar energy generated from the park.

1.2 Objective of the RfS:

BSUL intends to integrate Battery Energy Storage System (BESS) with the existing Solar Power of 2,419 Million Units (MU) in Solar + BESS configuration for meeting the firm and dispatchable power requirement of End Procurer.

Accordingly, this Request for Selection (RfS) is issued by NHPC Limited on behalf of Bundelkhand Saur Urja Limited for the selection of a Battery Energy Storage System Developer (BESSD) who shall procure the entire solar energy generated from the existing solar plants, set up the co-located BESS projects, utilize the existing solar energy for charging of BESS and schedule the Solar (remainng)-plus-BESS power as per the terms of this RfS.

1.3 Scope and Configuration Options:

The project developer will be selected through Tariff Based Competitive Bidding (TBCB) at composite Solar+BESS tarrif for following two configurations which have been devised for optimum utilization of Solar+BESS capacity based on the Energy availabily from existing solar plants.

- **Configuration I (300MW/800MW/4800MWh):** Scheduling of 300 MW of solar capacity during solar hour, coupled with the BESS capacity of 800 MW / 4,800 MWh in Non-Solar Hour.
- **Configuration II (600MW/800MW/3200MWh):** Scheduling of 600 MW of solar capacity during solar hour, coupled with BESS capacity of 800 MW / 3,200 MWh.

The developer is free to bid for either or both configurations, and PPA shall be signed for either of the configurations based on the requirement of Buying Entity.

1.4 The selected BESS Developer shall be required to set up the Battery energy storage infrastructure for the four (4) distinct blocks near the three (3) nos. 33/400 kV Pooling Substations (PSS) nearby Jalaun Solar Park. The Developer shall procure the solar energy generated from these blocks and supply the Solar-plus-BESS power to the designated Delivery Point at the ISTS CTUIL substation. With various global developments in technology and manufacturing, Renewable Energy (RE) has become the most affordable and cheapest source for meeting energy requirements. In India, the government has set an

ambitious target of reaching 500 GW of non-fossil fuel capacity by 2030. However, sources such as solar and wind energy are intermittent and cannot provide a continuous, 24/7 supply like conventional power plants. To address this variability, Energy Storage Systems (ESS) are essential. ESS store excess energy when production exceeds demand and discharge it during peak periods, ensuring a stable power supply. As India increases its reliance on renewable energy, grid stability becomes a challenge, particularly during peak periods when RE generation is insufficient. This requires additional power sources to balance the demand. ESS plays a critical role in managing these fluctuations, supporting grid operators in maintaining reliability and smooth integration of RE into the grid. Additionally, ESS connected to SPV plants can enhance the capacity utilization of RE transmission systems.

1.5 The above aspects rightly point out to the next course of direction of India's energy planning methodology- integrating Energy Storage Systems (ESS) with existing and upcoming RE capacity in order to optimize generation mix while also better utilizing the transmission infrastructure in the country. With respect to increasing the storage component in the energy mix, CEA's Report on identification of usage of storage as business case and for ancillary services, identifies Pumped Hydro Storage System (PSP) and Battery Energy Storage Systems (BESS) as the commercially deployed solutions for providing requisite storage capacity. The CEA Study has revealed that the planning model selects the battery energy storage system from the year 2027-28 onwards and a Battery Energy Storage capacity of 8680 MW/34720 Mwh (4-hour storage) is projected to be part of the installed capacity in 2022-27. This will be in addition to 7446 MW of Pumped Hydro Storage System envisaged to be a component of India's installed capacity in 2022-27.

1.6 Going forward, the planning process for transition to a greener energy mix in the country would entail integrating the planned Renewable capacity into India's energy grid while ensuring its safety and reliability. In addition to Pumped Hydro Storage Plants (PSP), Battery Energy Storage Systems (BESS) are expected to play a crucial role in supporting the grid as the share of renewable energy increases, aligning with the government's target of installing 500 GW of non-fossil fuel-based capacity by 2030. BESS assets will provide the necessary flexibility in power generation, ensuring resource adequacy and helping to balance supply and demand. Besides, Energy Storage Systems have the potential to optimize the utilization of India's transmission network, reducing congestion and minimizing the need for extensive infrastructure expansion.

1.7 Bidder shall submit bids offering contracted Capacity against Configuration-I or Configuration-II or for both the Configurations in which each location having capacity of "*75MW/200MW/1200MWh"* out of total capacity of "*300MW/800MW/4800MWh*" or "*150MW/200MW/800MWh"* out of total capacity of *600MW/800MW/3200MWh* in the prescribed formats alongwith the site location preference for which RfS(s) are submitted. The Minimum capacity against which the bids are to be submitted by the bidders shall not be less than the capacity of each location as per Column (3) of table under Clause 3.1 of Section-3A of RfS. Bidder can quote the tariff either for Configuration-I or Configuration-II or for both the Configurations. However, the total capacity to be allocated to a Bidder including its Parent, Affiliate or Ultimate Parent or any Group Company shall be up to 50% of total

contracted capacity under this RfS, and its allocation shall be limited to maximum two locations in either / both configurations.

If a bidder submits their bids for two locations capacity and during Techno-Commercial Evaluation it is observed that their bid is not responsive for two locations capacity and responsive for one capacity location only, then NHPC/BSUL may, at its discretion, ask the bidder for their consent of consideration of their bids for one location Capacity only. Bidder has to give the necessary consent within the specified time limit, failing which, the submitted bids will be treated as non responsive for all the quoted capacity.

1.8 The bidders will be short-listed by the process of e-bidding (**Single Stage Two Envelope Bidding Process. Envelope-I: Technical Bid and Envelope-II: Financial Bid)** to be followed by reverse auction process for both the congigurations for selection of bidders. E-bidding is a new methodology for conducting Public Procurement in a transparent and secured manner. For conducting electronic tendering, NHPC Ltd. is using the Central Public Procurement (CPP) Portal http://eprocure.gov.in/eprocure/app. The site can also be viewed through e-procurement corner of NHPC website www.nhpcindia.com and CPP Portal.

OVERVIEW OF RfS:

1.9 Battery Energy Storage System Developers (hereinafter referred to as BESSDs) selected by BSUL based on this RfS, shall set up the BESS on Build Own Operate (BOO) basis in accordance with the provisions of this RfS document and standard PPA.

SELECTION OF TECHNOLOGY & ELIGIBLE PROJECTS UNDER THIS RfS

1.10 Under this RfS, Battery Energy Storage System Developer (BESSD) shall procure the entire solar energy generated from the existing solar plants, set up the co-located BESS projects utilizing the existing solar energy for charging of BESS and schedule the Solar-plus-BESS power upto the delivery point i.e 765/400 KV Substation of PGCIL through power evacuation infrastructure developed by BSUL. All approvals, permits and clearances required for setting up of the BESS Project and/or dedicated transmission network upto the designated Pooling Sub-Station (PSS) of BSUL including those required from State Government and local bodies, shall be in the scope of the BESSD. The BESS Projects to be selected under this scheme is meant to provide for deployment of Battery Energy Storage Technology. However, the selection of BESS Projects would be technology agnostic within the above segment.

1.11 The Bidders will be free to avail fiscal incentives like Accelerated Depreciation, Concessional Customs and Excise Duties, Tax Holidays etc. available, if any, for such Projects. The same will not have any bearing on comparison of bids for selection. As equal opportunity is being provided to all Bidders at the time of tendering itself, it is up to the Bidders to avail various tax and other benefits. No claim shall arise on the NHPC/BSUL for any liability if Bidders are not able to avail fiscal incentives and this will not have any bearing on the applicable tariff. The NHPC/BSUL shall not bear responsibility for any availability or non-availability of fiscal incentive and submission of the bid by the Bidder shall be independent of such availability or non-availability as the case may be of the fiscal incentives.

GUIDELINES FOR IMPLEMETATION OF THE RfS

1.12 This RfS document has been prepared based on the following guideline:

Guidelines for Tariff Based Competitive Bidding Process for Procurement of Firm and Dispatchable Power from Grid Connected Renewable Energy Power Projects with Energy Storage Systems" issued vide Gazette Resolution no. 23/03/2023-R&R dated 09.06.2023 (including subsequent amendments and clarifications thereof), read with the Electricity (Amendment) Rules, 2022, dated 29th December 2022

1.13 BSUL hereby invites proposals for setting up of BESS Projects, utilizing the energy from existing solar plants for charging of BESS and schedule the Solar-plus-BESS power in either configuration i.e. "300MW/800MW/4800MWh" or 600MW/800MW/3200MWh to meet Solar and Non-Solar Hour requirements of the buying entity/ DISCOM.

Being lowest bidder does not entail the bidders to be eligible for issuance of LOAs. LOAs shall be issued for the capacities depending on the confirmation of configuration from Buying Entity for offtake of solar-plus-BESS power at the discovered tariff, arriving at a mutual agreement between BSUL and Buying Entity for setting up of such projects and the decision of BSUL in this regard shall be final and binding on the bidders.BSUL shall enter into a Power Purchase Agreement (PPA) with the successful Bidders selected based on this RfS, for availing the Solar-plus-BESS Energy as per the terms, conditions and provisions of the RfS and PPA. It is clarified that BESSD shall procure the entire power from the SPPD (BSUL) from the co – located Solar Projects in Jalaun Solar Park at tariff as detailed hereunder.

Table: 1

Sl No	Location	Developer	Capacity (MW)	Energy at CUF 23% (MU)	Tariff (Rs/kWh)
1	Madhogarh	Coal India Ltd	300	604.75	2.61
2	Madhogarh	Coal India Ltd	300	604.75	2.61
2	Pathrahi	NLC India Renewables Ltd.	300	604.75	2.62
3	Orai	NLC India Renewables Ltd.	300	604.75	2.62

1.14 Deleted

GENERAL

1.15 The complete RfS Documents are available at CPP portal http://eprocure.gov.in/eprocure/app. The site can also be viewed through e-procurement corner of NHPC website www.nhpcindia.com and CPP Portal. Interested bidders shall download the RfS Documents from the CPP portal http://eprocure.gov.in/eprocure/app as per the provisions available therein.

1.16 For proper uploading of the bids on the portal namely http://eprocure.gov.in/eprocure/app *(hereinafter referred to as the 'portal'), it shall be the sole responsibility of the bidders to*

apprise themselves adequately regarding all the relevant procedures and provisions as detailed in the portal. The NHPC in no case shall be responsible for any issues related to timely or properly uploading/ submission of the bid in accordance with the relevant provisions of ITB of the Bidding Documents.

1.17 A Single Stage Two Envelope Bidding Procedure will be adopted and will proceed as detailed in the RfS Documents. Bidding will be conducted through the Domestic competitive bidding procedures as per the provisions of ITB and the contract shall be executed as per the provisions of this RfS. It shall be noted that the respective rights of the NHPC and the Bidder/ BESSD shall be governed by the RfS Documents/PSA signed between the BSUL and the BESSD for the project.

1.18 Bidders should submit their bid proposal online complete in all aspect on or before last date and time of Bid Submission as mentioned on CPP portal (http://eprocure.gov.in/eprocure/app).

1.19 Bidder shall submit bid proposal along with Bid Processing Fees (non-refundable) and Earnest Money Deposit (EMD) complete in all respect as per the Bid Document. Techno-commercial bids will be opened in online presence of authorized representatives of bidders who wish to be present online. Bid proposals received without the prescribed Bid Processing Fees and Earnest Money Deposit (EMD) may be considered as non-responsive.

In the event of any date indicated is a declared Holiday, the next working day shall become operative for the respective purpose mentioned herein.

1.20 1.20 RfS documents which include Eligibility Criteria, Technical Specifications, various Conditions of Contract, Formats etc. can be downloaded from CPP portal (http://eprocure.gov.in/eprocure/app). Any amendment(s) / corrigendum(s) / clarification(s) with respect to this RfS shall be uploaded on CPP portal. The Bidder should regularly check for any Amendment(s) / Corrigendum(s) / Clarification(s) on the above mentioned website.

1.21 For multiple Projects, separate Performance Bank Guarantees shall be furnished against each Project being executed under this RfS by the BESSD after issuance of Letter of Award (LOA) by BSUL.

1.22 The detailed Qualifying Requirements (QR) is given in Section 3A of the RfS.

1.23 NHPC shall conduct e-Reverse Auction (e-RA) as per provisions of RfS documents.

1.24 NHPC has issued this RfS in the capacity of BESS Implementing Agency (BIA) as defined in the aforementioned Guidelines. BSUL may develop a suitable monitoring mechanism, to analyze the performance of the Project and carry out random checks to verify compliance of quality standards.

1.25 ***NHPC reserves the right to cancel / withdraw this invitation for bids without assigning any reason and shall bear no liability whatsoever consequent upon such a decision.***

Digitally signed by UTTAM KUMAR
Date: 2026.11.04 14:43:52 IST
Location: eProcure-EPROC