



9. The Commission observed that the term liquidated damages may be reviewed legally. The Commission observed that DSM treatment would be proportionate to the capacity. Regarding the location of the project, Sh. Raizada submitted that considering the size of the tendered capacity, 600-700 sqm of land area is required at the identified substation of Ethawa, Hathras, Aligarh, Mathura & Ghaziabad.
10. On the specific query of the Commission about the technological evaluation, Sh. Arun, consultant of UPPCL submitted that the bidders shall have option to change technology from that at the time of bid submission but before financial closure.

Commission's Analysis & Decision:

11. With the increased penetration of intermittent Renewable Energy, further addition in RE capacity is expected to face issues due to supply demand mismatch as generation from some of the Renewable Energy sources is generally available during low demand periods. In order to utilize 100% Renewable Energy (RE), UPPCL may have to back down energy from other sources which is available at lower cost.
12. The adoption of grid scale energy storage system shall be a key component for large scale grid integration of renewable energy sources and shall aid in improving the power system reliability and cost. For energy planning, integrating Energy Storage Systems (ESS) with existing and upcoming RE capacity can optimize generation mix along with better utilization of the transmission infrastructure in the state.
13. This Commission vide its order dated 08.03.2022 in Petition 1799/2021 directed UPPCL to explore energy storage opportunity within or outside the state. Further, the Commission in its order dated 11.03.2022 in Petition 1805/2021 has again directed UPPCL to prepare a document to come up with a plan to install minimum 100 MW of battery storage projects at various load centers in Uttar Pradesh.
14. In the instant matter UPPCL has proposed to procurement & Utilization of BESS capacity of 10MW/40MWh which would be installed at the STU substation for Discom's use for peak power management as well as optimum energy management in a cost-efficient manner. Further, there is no deviation in the tender document from the MoPs Guidelines dated 10.03.2022 for Procurement & Utilization of Batter Energy Storage System.



Commission's View:

15. In view of the above, the Commission allows UPPCL to proceed with the bidding process with the following directions:

- a) UPPCL shall select Revenue Surplus locations, this being first project, viability is important, subject to availability, and
- b) UPPCL shall specify the locations(s) of the project in the bid.
- c) Performance Parameters:
 - i) UPPCL shall specify minimum RtE of 90% instead of 97.5% on monthly basis.
 - ii) For BESS monthly availability less than 70%, no tariff would be payable.
- d) Legally validate the term "Liquidated damages" in the bid document.
- e) Specify treatment of DSM for charging / discharging schedule for the BESS.

The Commission, therefore, approves the bidding document with liberty to approach this Commission for changes required, if any, based on the Pre-bid meeting.

(Vinod Kumar Srivastava)
Member

(Kaushal Kishore Sharma)
Member

(Raj Pratap Singh)
Chairman

Place: Lucknow

Dated: 20.09.2022

