

**Renewable Energy (Vijayanagar) Limited**

Works: P.O: 9. Toranagallu
Dist. Ballari, PIN: 583123, Karnataka, India.
CIN: U40106MH2020PLC338593
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Date: 13th April 2022

Sub: Justification for the Pumped Storage Project (PSP)

JSW Renewable Energy (Vijayanagar) Limited, a group company of JSW, has embarked on setting up Renewable Pumped Storage Project in Vijayanagar district of Karnataka.

JSW Energy has set a vision of becoming a 10 GW company by 2025 and 20 GW company by 2030, with all the incremental capacity additions coming predominantly from the Renewable Energy sources. The bold and ambitious plan of the company further reinforces its position as a leader in the energy transition, with its renewable's portfolio, currently at 30%, growing to 68% of total energy portfolio by 2025, and to about 84% by 2030. With renewable capacity additions already on blueprint, JSW Energy would become carbon neutral well before 2050. By contributing towards a more balanced and sustainable world, JSW Energy aims to play a meaningful role in meeting the country's growing future demand for energy; in meeting the Government's target for adding 450 GW of renewable generation by 2030; and in enabling India to outperform its Paris pledges. The Pumped Storage Project at Vijayanagar shall be one of the targeted renewables to be used as a captive power plant for JSW Steel as company have set a target of zero emission greenhouse gases by 2050.

The advantages of the Pumped Storage Project are mentioned below.

- i) Spinning Reserves – Online reserve capacity that is synchronized to the grid and ready to meet electricity demand within minutes of request.
- ii) Non-Spinning Reserves – This is needed to maintain system frequency stability during emergency conditions
- iii) Frequency Regulation

Considering the potential, JSW Renewable Energy (Vijayanagar) Limited proposes to set up 130 MW Pumped Storage Project in Vaddu, Bannihatti, Kodalu, Taranagara and Lingadahalli villages of Sandur taluk, Ballari District. In the case of Pumped Storage Projects (PSP) it is required to store water on higher elevations (Upper Reservoir) so that power is generated by gravity on releasing it to lower elevation



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(Lower Reservoir). The said project has merits to utilize the existing raw water reservoir of the steel plant as lower reservoir.

After the detailed analysis of the surrounding area and the ground profile, suitable area for the upper reservoir is identified on the south side of existing lower reservoir. The area suitable for the upper reservoir belongs to both **Sy no. 66 of Vaddu village** which is a non-forest land and **Sy No 224 of Bannihatti village** part of which is a forest land falling in the Ballari district of Karnataka. This is the only suitable land for construction of upper reservoir which makes this project viable with minimum land degradation. Accordingly, **23.3876 Ha** forest land has been identified in Ballari Distt. of Karnataka for the said PSP.

In view of the above and being an environment friendly Renewable project, we request you to allow / permit the use of proposed forest land for the Pumped Storage project.

Thanking you,

For JSW Renewable Energy (Vijayanagar) Ltd,

Sanjay Rana
Authorized signatory



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