

**IN THE JHARKHAND STATE ELECTRICITY REGULATORY
COMMISSION AT RANCHI**

Case No. 28 of 2024

M/s. NTPC Ltd.....Petitioner

Versus

Jharkhand Bijli Vitran Nigam Limited Respondent

**CORAM : HON'BLE MR. MAHENDRA PRASAD, MEMBER (LAW)
HON'BLE MR. ATUL KUMAR, MEMBER (TECHNICAL)**

For the Petitioner : Mr. Prashant Pallav & Ms. Shiwani Jaluka
Advocates and Mr. Basant Kumar Behera, AGM
(EE), NTPC

For the Respondent : Mr. Dinesh Kumar Singh, General Manager,
JBVNL-Hazaribagh

Date – 8th October, 2024

1. The instant petition has been filed by M/s NTPC Limited (hereinafter referred to as the petitioner) under clause 4.7 of the (Electricity Supply Code) Regulations, 2015 for approval of taking E.H.T. connection on 220 kV line from the Respondent-JBVNL for contract demand of 2000kVA.
2. The Petitioner in its petition has prayed for the following relief:
 - i) To direct the Respondent to grant EHT connection to the petitioner for supply of 2000 kVA (2MVA) power at 220 kV voltage level.
 - ii) For grant of any other order(s) as this Commission may deem fit in the interest of Justice.

Submission of the Petitioner

3. Learned counsel for the petitioner submitted that the petitioner is a Maha Ratna Company of Government of India and has been allocated Pakri-Barwadih Coal Mining Project since 2004 and has carrying mining after consistently adhering to the various applicable law, standard, compliance and safety protocols.
4. It was submitted that the coal mine supplies coal to nearly 20 power projects of the petitioner. And Ministry of Coal, Government of India vide letter dated 25th August, 2006 approved the mining plan in favour of the petitioner company with respect to Pakri Bawadih Coal Mine Block.
5. It was submitted that the Jharkhand State Pollution Control Board vide letter dated 18th of December, 2007 granted consent to establish (CT E) to the petitioner. It was also added that the petitioner was granted

environment clearance by the Ministry of Environment, Forest and Climate Change, Govt. of India vide letter dated 19th of May, 2009

6. It was pointed that Pakri Barwadih Coal Mining Project Comprises of open cast Mines, Mine and Coal Handling Plant, Main and extended Coal Handling Plant for transportation of Coal up to Railway siding. The conveyor of Coal handling Plant are of approximately 23 KM and the installed equipment of Pakri Barwadih Coal Mines area is electrically driven equipment and are constructed as per DGMS and CEA construction guidelines. The power supply requirement of Pakri Barwadih Coal Mining area, Coal handling Plant area, siding area, Misc. Infra area and Township area are being envisaged through a 220/33 KV substation wherein 220KV incoming power supply shall be connected through transmission line that will be further transmitted at 33 KV to meet the power supply requirements of Pakri Barwadih Coal Mining area. Further, it was also stated that 220/33 KV Pakri Barwadih substation is comprising of 02 nos. Main Bus of 220 KV, 6 nos. 220 KV Line Bays, 1 no. Bus coupler bay and 2 nos. transformer Bays.
7. It was pointed out that after completion of construction of 220 KV NTPC Pakri Barwadhi Substation, 220 KV transmission lines connectivity was not available in the vicinity of Pakri Barwadih, however for national urgency of operationalizing of Coal Mines, 132 KV power supply was arranged by the petitioner from DVC. Technical modifications for compatibility and charging of 220 KV PB substation at 132 KV level was carried out by the petitioner and for above compatibility, one new 31.5 MVA, 132/33 KV transformer, 18 Nos of 132KV LA, 6 nos 132 KV CVTs and other transmission line connections, jumpers etc. were modified to make system compatible for taking incoming 132 KV power supply from DVC and the petitioner invested around INR 10 Crores of capital expenditure
8. Learned Counsel submitted that after completion of above said compatibility, bus -1 was charged at 132 KV level from DVC for the connection as per load requirement of Pakri Barwadih Mines. It was added by the learned Counsel that due to single source of power supply, mining operations get hampered badly during outages of 132 KV DVC system, hampering of mining activity and onward coal dispatch to various power plants results to crisis in power plants for generation of electrical power and in turn of hampering in mitigating pan India power demand.
9. It was submitted that as the 220 KV power supply source was not available, the electrical equipment/system like power transformer, LA, CVT, CT Bus etc. of Pakri Barwadhi substation, which were designed for the rated 220 KV were in idle condition for 7-8 years since the erection stage
10. It was stated that the construction of 220 KV D/C Transmission line connectivity from JBVNL/JUSNL Itkhori substation to NTPC Pakri Barwadih substation, Hazaribagh has been completed and the said lines are in charged condition up to line side isolators at Bay nos-209 and 208 respectively of NTPC Pakri Barwadih Switchyard with effect from January 2024 and the assessment on proper functioning and stability of the aforesaid 220 KV PB/CB Substation equipment & Systems can only be analyzed through condition monitoring upon charging Bus-2 at the rated 220 KV voltage level though JBVNL power.

11. Learned Counsel for the petitioner submitted that the petitioner gave an application dated 29th of June, 2024 to the Electric Supply Circle JBVNL, Hazribagh for providing 2 MVA load connectivity at 220 KV level for NTPC Pakri Barwadih substation for enabling charging of 220 KV Bus- 2 and the Respondent vide letter no. 1562/HESA dated 3rd of July 2024 intimated the petitioner that as per Clause 4, 3 of Supply Code 2015, 220 KV supply is permissible only on exceeding 20000 KVA (20 MVA) and intimated the petitioner to approach this Hon'ble Commission for appropriate permission.
12. It was stated that as per clause 4.7 of the JSERC (Electricity Supply Code) Regulations, 2015 Distribution Licensee may grant service connection at any other technically suitable nonstandard voltage and no. of phase to consumer with the approval of the Commission.
13. Learned Counsel for the petitioner has also submitted that the petitioner does not have any problem if voltage rebate is not given by JBVNL for connection at 220 KV supply system with contract demand of 2 MVA.

Submission of the Respondent

14. The representative of the Respondent submitted that the petitioner applied for connection at 220 KV supply system with a contract demand of 2MVA vide application no. 995350 dated 29th of June, 2024 and as per Supply Code Regulation, 2015 issued by this Commission, electricity connection can be given to the petitioner at 220 KV voltage level on contract load exceeding 20 MVA. However, it is also provided in the aforesaid Regulation that the Distribution Licensee may depending upon the technical condition of supply in system, give supply at a voltage and phase other than the classification of supply in clause 4.3 subject to the approval of the Commission.
15. It was submitted that the 220 KV transmission line is available at Pakri Barwadih, sub-station, NTPC Hazaribagh connected from JBVNL, Itkhori Sub-station and the Respondent-JBVNL does not have any objection in giving the supply for connection at 220 KV supply system with contract demand of 2 MVA.

Commission Observation and Findings

16. The Commission considered the submission made by the parties and perused the materials available on records.
17. Clause 4.7 of the JSERC (Electricity Supply Code) Regulations, 2015 reads as under;
“ 4.7 The Distribution Licensee may, depending upon the technical conditions of the distribution system, give supply at a voltage and phase other than the classification of supply in clause 4.3 of these Regulations, subject to the Commission’s approval.”
18. The respondent does not have any objection giving the supply for connection at 220 KV supply system with contract demand of 2 MVA and

also the petitioner admitted of not claiming voltage rebate for connection at 220 KV voltage level with contract demand of 2 MVA.

In the result, it is ordered as;

ORDER

19. Considering the facts and circumstances of the case, the prayers of the petitioner is hereby allowed. The respondent may allow E.H.T. connection service to the petitioner at supply voltage of 220kV with a contract demand of 2000kVA after ensuring proper arrangement of metering, billing and network system protection.
20. It is hereby also clarified as admitted that the petitioner shall not avail voltage rebate corresponding to 220kV voltage level as per JSERC (Electricity Supply Code) Regulations, 2015.
21. With the aforesaid observations, the petition is hereby disposed off.

Sd/-

Member (T)

Sd/-

Member (L)