

SPEED POST

B-33014/07/2020/IPC-II/TPP/ 13135

March 17, 2020

To,

The General Manager,  
M/s Tenughat Thermal Power Station,  
Tenughat Vidyut Nigam Limited,  
P.O. Tenughat, Lalpania,  
Bokaro - 829149, Jharkhand

**Sub: Directions under Section 5 of the Environment (Protection) Act, 1986 to M/s Tenughat Thermal Power Station (TTPS) of TVNL-- Show Cause thereof.**

WHEREAS, Thermal Power Plants are identified as one of the 17 categories of highly polluting industries in the country and have been discharging environmental pollutants directly or indirectly into ambient air and water, which pose constant threat to cause adverse effect on air and water quality; and

WHEREAS, for strengthening the monitoring and compliance through self-regulatory mechanism, online emission and effluent monitoring systems need to be installed and operated by the developers and the industries on 'polluter pays principle'; and

WHEREAS, directions under section 5 of the Environment (Protection) Act, were issued on July 21, 2015 to M/s Tenughat Thermal Power Station (TTPS), TVNL, Lalpania, Bokaro, Jharkhand for installation of Online Continuous Emission & Effluent Monitoring Systems (OCEMS) for parameters namely PM, SO<sub>2</sub>, NO<sub>x</sub> & pH, TSS, Temperature, flow and submission of the status; and

WHEREAS, M/s TTPS has been directed on 11.12.2017 to upgrade ESP in Unit - 1 and install FGD in Units - 1 & 2 by December 31, 2020 respectively, as per plan submitted by MoP to meet revised emission norms;

WHEREAS, in view of the non-compliances observed by a team from Regional Directorate-East, Kolkata during inspection of M/s TTPS carried out on 10.10.2017, a closure direction under section 5 of the Environment (Protection) Act, 1986, was issued on 21.11.2017 to M/s TTPS.

WHEREAS, taking into the consideration the compliance status submitted by M/s TTPS vide letter dated 02.01.2018 and 30.05.2018, closure direction issued on 21.11.2017 to M/s TTPS was revoked vide letter dated 02.07.2018 subject to compliance of the conditions that the plant shall implement ZLD action plan submitted to CPCB by the end of year 2018.

WHEREAS, based on the alerts generated from OCEMS of M/s TTPS during Dec 2019 - Jan 2020, in order to verify the compliance status, a team from Regional Directorate - East, Kolkata carried out an inspection of M/s TTPS on 19.02.2020 and made the following observations:

- 1. Emission from Unit-1 was found non-complying with the prescribed standards.**  
The concentrations of PM during manual monitoring from Unit-1 was observed to be

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179 mg/Nm<sup>3</sup> against the prescribed standard of 150 mg/Nm<sup>3</sup>, whereas, as per online monitoring system the PM concentration was found to be 101.5 mg/Nm<sup>3</sup>. Moreover, significant deviation (43.3%) was observed between manual and online monitoring data.

2. It was informed by the plant representative that 5 nos. of ESP fields are non-functional and repairing work of ESP fields is proposed for upcoming unit shutdown/overhauling.
3. The manual stack emission monitoring was carried out from the rectangular port hole provided in ESP duct. OCEMS sensors for PM, SO<sub>2</sub> and NO<sub>x</sub> parameters are also provided in the duct. The OCEMS location and manual stack emission monitoring facilities are not appropriate as per CPCB guidelines for OCEMS and Emission Regulation Part 3, respectively.
4. As per consent conditions, M/s TTPS shall keep the industrial effluent in closed circuit after proper treatment and over flow of fly ash pond. However, ash pond overflow, after settling, is discharged into River Katel, which finally meets Tenughat Reservoir. During inspection, ash pond overflow including rain water was being discharged into River Katel after settling.
5. It was informed by the plant representative that the plant is in process of installation of AWRS and M/s MECON, Ranchi has been engaged for this purpose.

WHEREAS, M/s TTPS is not complying with the prescribed emission norms in Unit - 1, and has also not yet complied with the conditions given in revocation directions issued to the plant vide letter dated 02.07.2018 and discharging ash pond overflow into River Katel, which finally meets Tenughat Reservoir, and thus poses serious threat to environment.

WHEREAS, Ministry of Environment & Forests, Government of India, vide Notifications No. S. O. 157 (E) of 27.02.1996 and S. O. 730 (E) dated 10.07.2002, has delegated the powers vested under Section 5 of the Environment (Protection) Act, 1986 (29 of 1986) to the Chairman, Central Pollution Control Board, to issue directions to any industry or any local body or any other authority for violations of the standards and rules notified under the Environment (Protection) Rules, 1986 and amendment thereof.

**NOW, THEREFORE**, in exercise of powers vested under Section 5 of the Environment (Protection) Act, 1986, M/s Tenughat Thermal Power Station, TVNL, Lalpania, Bokaro, Jharkhand is hereby directed to show cause as to why the Plant should not be closed and environmental compensation be imposed in view of the non-compliances as highlighted above.

M/s Tenughat Thermal Power Station is given an opportunity to submit its objection, if any, within 15 days from the date of issue of the directions. In case of failure, the Board will be constrained to initiate action as deemed necessary and appropriate in the circumstances under the Environment (Protection) Act, 1986.

(Ravi S. Prasad)  
Chairman



**Copy to:**

1. The Chairman  
Jharkhand State Pollution Control Board  
T.A. Bldg., HEC, P. O. Dhurwa,  
Ranchi - 834 004, Jharkhand
2. The Addl. Secretary (CP Division)  
Ministry of Environment, Forests and Climate Change  
Prithvi Wing, 2nd Floor, Room No. 216  
Indira Paryavaran Bhawan  
Aliganj, Jor Bagh Road, New Delhi - 110 003
3. The Regional Director - East,  
Central Pollution Control Board  
Southend Conclave, Block 502, 5th & 6th Floor  
1582, Rajdanga Main Road  
Kolkata - 700 107
4. ✓ The Divisional Head - IT, CPCB
5. The Divisional Head - IPC-VI, CPCB

  
(Prashant Gargava)  
Member Secretary

