

SPEED POST

B-33014/07/2019/IPC-II/TPP/ 2439

June 10, 2019

To

The General Manager  
Gandhinagar Thermal Power Station,  
Gujarat State Electricity Corporation Ltd.  
Gandhinagar - 382 041, Gujarat

**Sub: Directions under Section 5 of the Environment (Protection) Act, 1986 to M/s Gandhinagar Thermal Power Station (GTPS), Gujarat State Electricity Corporation Ltd, Gandhinagar, Gujarat - 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 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 Gandhinagar Thermal Power Station (GTPS), Gujarat State Electricity Corporation Ltd (GSEC Ltd.), Gandhinagar, Gujarat 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 Gandhinagar Thermal Power Station (GTPS), GSEC Ltd. has been directed on 11.12.2017 to install FGD in Units - 3 to 5 by December 31, 2021 to comply with SO<sub>2</sub> emission norms as per plan submitted by MoP;

WHEREAS, as per plan submitted by MoP, no timeline has been submitted for upgradation of ESPs of Unit- 3 to 5 of M/s GTPS, GSEC Ltd. which means Unit- 3 to 5 are to comply with new PM emission limits (100 mg/Nm<sup>3</sup>) notified vide notification dated 07.12.2015;

WHEREAS, in order to verify the compliance and find out the status of online monitoring system, a team from Regional Directorate - West, Vadodara carried out an inspection of M/s GTPS, GSEC Ltd. on May 23, 2019 and made the following observations:

1. Emission from Units - 3, 4 & 5 was found non-complying with the prescribed standards. The concentration of PM during manual monitoring in Units-3, 4 & 5 was observed to be 117.67 mg/Nm<sup>3</sup>, 114.10 mg/Nm<sup>3</sup> and 100.63 mg/Nm<sup>3</sup> respectively against standards of 100 mg/Nm<sup>3</sup>. Moreover, the deviation between online monitoring and actual manually monitored values for Unit - 5 was found high (34.1%). As per online monitors, the average concentration of PM was found to be 121.42 mg/Nm<sup>3</sup>, 125.14 mg/Nm<sup>3</sup> and 135.0 mg/Nm<sup>3</sup>.
2. The effluent samples collected from ETP-1 & 2 outlets were found complying with the prescribed standards. The analysis results of effluent samples were found to be pH: 8.21, TSS: 35 mg/l (ETP-1) and pH: 8.06, TSS: 23 mg/l (ETP-2) against the prescribed standards of pH: 6.5 - 8.5 and TSS: 100 mg/l. The treated effluent was not being discharged outside but as per CC&A, the Plant is permitted to discharge effluent outside.

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3. The online values for ETP-1 & 2 for pH were recorded as 8.69 & 8.34 and for TSS: 75 mg/l & 76 mg/l. The deviation between online and manually monitored values of TSS parameter was found very high (114 to 230 %).
4. The average specific water consumption during March 2018 to April 2019 was reported as 3.9 M<sup>3</sup>/MWH, which is exceeding the prescribed limit of 3.5 M<sup>3</sup>/MWH.

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 view of the non-compliances mentioned above and in exercise of powers vested under Section 5 of the Environment (Protection) Act, 1986, M/s Gandhinagar Thermal Power Station (GTPS), GSEC Ltd, Gandhinagar, Gujarat is hereby directed to show cause as to why the Units - 3, 4 & 5 of the plant should not be closed in view of the non-compliance as highlighted above.

M/s Gandhinagar Thermal Power Station (GTPS), GSEC Ltd, Gandhinagar, Gujarat shall submit its reply to show cause notice/compliance report within 15 days from the date of issue of the directions. In case of failure, the Board will be constraint to initiate action as deemed necessary and appropriate in the circumstances under the Environment (Protection) Act, 1986.

  
14/01/19  
(S.P.S. Parihar)  
Chairman  


Copy to:

1. The Chairman  
Gujarat Pollution Control Board  
Paryavaran Bhawan, Sector 10-A,  
Gandhi Nagar 382 010, Gujarat
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 - West,  
Central Pollution Control Board  
Parivesh Bhawan, Opp. VMC Ward Office no. 10  
Subhanpura, Vadodara - 390 023
4. The Divisional Head - IT, CPCB
5. The Divisional Head - IPC-VI, CPCB

  
(Prashant Gargava)  
Member Secretary  


o/c