

SPEED POST

B-33014/07/2018/IPC-II/TPP/

September 24, 2018

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.**

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 as per plan submitted by MoP to comply with SO<sub>2</sub> emission norms notified vide notification dated 07.12.2015;

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 view of the shortcomings observed during inspection of the Plant by CPCB on 21.06.2018, M/s GTPS, GSEC Ltd. was directed by CPCB vide letter No. B-33014/07/2018/IPC-II/TPP/9284 dated 02.08.2018, to show cause as to why the unit should not be closed for the shortcomings as highlighted by the inspecting team and environmental compensation be not imposed in respect of these violations.

WHEREAS, vide letter dated 16.08.2018, M/s GTPS, GSEC Ltd. submitted following reply to show cause notice:

1. On the date of inspection, 4 Nos. of ESP fields in Unit-3 were out of service due to which the PM emission might have exceeded marginally. However, in Unit-4 all the ESP fields were in service. One day before the inspection, manual monitoring was carried out by

an NABL accredited lab and the results were found as 115 mg/Nm<sup>3</sup> which exceeds only marginally. However, GTPS has planned for replacement of controllers of ESP in Unit-3 & 4. (No schedule for completing the proposed work is given).

2. GTPS has awarded AMC of Opacity meter for servicing and calibration, which is done on quarterly basis.
3. GTPS is using Narmada River water which generally has pH around 8.1-8.2 and by the plant process it raises up to 8.4-8.5 mostly. The TSS generally remains below 50 mg/l except during shock load of waste water. However, ultimately the waste water is reutilized for ash handling and not discharged into river from year 2013 onwards.
4. The location of effluent OCEMS sensors has been changed and these are placed at a location where minimum turbulence and resuspension of settled mass occurs after discussion with the CPCB team. The analysers were checked and calibrated also on 10.07.2018.
5. The specific water consumption is slightly higher than the prescribed limit. The same may be achieved if the Plant operates on full load regularly, but due to Reserve Shut Down and forced outages the Units are stopped. However, Plant is working in order to comply with the prescribed limit. (No schedule for completing the proposed work is given).

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 above and in exercise of powers vested under Section 5 of the Environment (Protection) Act, 1986, following directions are hereby issued to M/s Gandhinagar Thermal Power Station (GTPS), GSEC Ltd, Gandhinagar, Gujarat:

1. The Plant shall implement the proposed corrective measures in APCDs to comply with existing emission limit of 100 mg/Nm<sup>3</sup> within 3 months and submit emission monitoring report to CPCB & GPCB from an EPA recognised lab on quarterly basis for one year as evidence of compliance.
2. The Plant shall obtain amended CCA from GPCB to include zero discharge condition for Plant in CCA or ensure compliance of effluent standards prescribed by GPCB.
3. The Plant shall ensure compliance of specific water consumption limit within 3 months.

M/s Gandhinagar Thermal Power Station, GSEC Ltd, Gandhinagar, Gujarat shall ensure compliance of the direction mentioned above at Sl. No. 1 - 3 and submit ATR 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.

  
(A.K. Mehta)  
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

*45/3*  
(Prashant Gargava)  
Member Secretary

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