

SPEED POST

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

March 17, 2020

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To,

The General Manager,  
M/s G.M.D.C. Limited,  
Akri Mota Power Plant,  
Vill. Chhernanni, Tal: Lakhpat,  
Kutch - 370 602, Gujarat

**Sub: Directions under Section 5 of the Environment (Protection) Act, 1986 to M/s G.M.D.C. Limited, Akri Mota Power Plant, Vill. Chhernanni, Tal: Lakhpat, Kutch, Gujarat - reg.**

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 G.M.D.C. Limited, Akri Mota Power Plant, Vill. Chhernanni, Tal: Lakhpat, Kutch, 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, 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 G.M.D.C. Limited on February 05, 2020 and made the following observations:

1. The sensors for PM, SO<sub>2</sub> and NO<sub>x</sub> parameters in both stacks are provided in the duct. The CEMS location is not appropriate as per CPCB guidelines. Manual sampling porthole is provided in other duct of the stack.
2. Manual sampling porthole are also provided on curve of the duct of the ESP which is smaller in size (approx. diameter 2.5 inch). The porthole was fully choked from inner side and thus not suitable for stack emission monitoring. Besides, stack emission monitoring facilities in the stack are also not adequate as per CPCB guidelines given in Emission Regulation Part 3. Platform has not been provided on the stack and approach ladders are also in rotten condition. Therefore, manual monitoring of stack emission could not be carried out.
3. Although Unit-1 was non-operational during visit, still the OCEMS display panel was showing PM & NO<sub>x</sub> concentration as 84.7 mg/Nm<sup>3</sup> and 8.9 mg/Nm<sup>3</sup> respectively, which raises question on authenticity of CEMS data. OCEMS data for Unit-2 was observed for PM, SO<sub>2</sub> and NO<sub>x</sub> parameters as 17.8 mg/Nm<sup>3</sup>, 9.0 mg/Nm<sup>3</sup> and 239.1 mg/Nm<sup>3</sup> respectively.

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4. Highly pungent fumes of SO<sub>2</sub> were felt near the ducts attached to ESP of Unit - 2. The ducts are in rusted condition and leakage of fumes was observed.
5. Treated effluent samples were collected from the neutralization cum collection sump where OCEMS sensors are placed and the analysis results were found as pH: 8.14, TSS: 181 mg/l and Temp.: 31 °C. The effluent sample was found to be exceeding the prescribed limit for TSS parameter (Std. 100 mg/l).
6. During visit, it was found that OCEMS data was not available for ETP outlet parameters as sensors were not dipped in the effluent due to low effluent level in the sump.

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 G.M.D.C. Limited, Akri Mota Power Plant, Kutch, Gujarat is hereby directed to comply the following within 60 days:

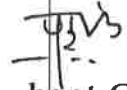
1. That unit shall provide manual stack emission monitoring facilities as per CPCB guidelines given in Emission Regulation Part-3.
2. That unit shall ensure proper treatment of industrial effluent to comply with the prescribed limits for all parameters and submit documentary evidence for compliance.
3. That unit shall ensure proper positioning of OCEMS sensors for emission parameters at appropriate location as per CPCB guidelines.
4. That unit shall ensure proper positioning of OCEMS sensors for effluent quality monitoring of treated effluent at ETP.
5. That unit shall ensure proper calibration of OCEMS for emission and effluent parameters and transmission of actual and uninterrupted online data from OCEMS to CPCB server.
6. That unit shall take appropriate action for rectification of leakages from ducts and improvement of deteriorated condition of approach ladder to stacks.

M/s G.M.D.C. Limited, Akri Mota Power Plant, Kutch, Gujarat shall submit compliance report within 60 days from the date of issue of the directions. In case of failure, the CPCB will be constrained to initiate action as deemed necessary and appropriate in the circumstances under the Environment (Protection) Act, 1986.

(Ravi S. Pasad)  
Chairman

**Copy to:**

1. The Chairman  
Gujarat Pollution Control Board  
Paryavaran Bhawan, Sector 10-A,  
Gandhi Nagar - 382 010, Gujarat
2. The Joint 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,  
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

