

SPEED POST

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

September 26, 2018

To

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The General Manager
Anpara Thermal Power Station
Anpara -A & B, U.P.R.V.U.L.,
Sonebhadra - 231 225, Uttar Pradesh

Sub: Directions under Section 5 of the Environment (Protection) Act, 1986 to M/s Anpara Thermal Power Station, Sonebhadra, Uttar Pradesh- 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 Anpara Thermal Power Station (ATPS), Sonebhadra, U.P for installation of Online Continuous Emission & Effluent Monitoring Systems (OCEMS) for parameters namely PM, SO₂, NO_x & pH, TSS, Temperature & Flow and submission of the status; and; and

WHEREAS, in order to verify compliance and find out the status of online monitoring system, a team from Regional Directorate, Lucknow carried out inspection of M/s ATPS on 02.08.2018 and made the following observations:

1. **M/s ATPS is operating without a valid consent to operate under Air Act 1981 & Water Act 1974 and Hazardous Waste Authorization.** As informed, M/s ATPS has applied for renewal of CTO and obtaining Hazardous Waste Authorization which are under process at UPPCB.
2. **The PM emission from Unit - 4 & 5 were found to be non-complying with prescribed standards.** The concentration of PM during manual monitoring in Units - 4 & 5 was observed to be 623 mg/Nm³ and 642 mg/Nm³ against the consented limit of 100 mg/Nm³.
3. **Whereas, as per online monitoring the concentration of PM was found to be 190 mg/Nm³ and 170 mg/Nm³. The deviation between online and manually monitored data was found to be very high (228% and 278% respectively).**
4. **The port holes in Unit - 1 to 3 are provided in the duct for source emission monitoring which are very close to ID fans installed. Therefore, due to continuous fluctuation in the flue gas velocity, isokinetic sampling is not possible through those ducts.**
5. **The specific water consumption of Anpara A & B TPS during Year 2016-17 & 2017-18 was found to be 92.50 m³/MW and 104 m³/MW. The very high specific water consumption is due to Once Through Cooling (OTC) system.**

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6. The cooling water from M/s ATPS after neutralisation being discharged outside plant premises through drains which finally meets Rihand Reservoir.
7. M/s ATPS has installed a Sewage Treatment Plant for treatment of domestic waste. The treated waste water is taken into a pond and then being discharged into a local drain which finally meets Rihand Reservoir.
8. M/s ATPS has installed Ash Water Recirculation System (AWRS) to recycle the waste water. The decanted waste water after settlement in auxiliary pond is recycled and **excess waste water is discharged into Rihand Reservoir. During inspection, ash pond overflow into Rihand Reservoir was seen.**
9. The quality of ash pond overflow discharging into Rihand Reservoir was tested. The results show **very high TSS (838 mg/l against standard of 100 mg/l). The concentration of heavy metals like Arsenic (0.0196 mg/l) and Mercury (0.0114 mg/l) was also found high in the ash pond overflow.**

WHEREAS, in earlier inspections also which were carried out by CPCB in compliance to NGT orders dated 17.11.2017 and 21.02.2018, report of which were submitted to NGT (Principal Bench), it was found that on 17.11.2017 emission from unit 1 & 4 were exceeding the norms and on 22.03.2018 emission from units 1 to 5 were exceeding the limit.

WHEREAS, in a meeting held on 31.05.2018 with representatives of M/s ATPS in CPCB in reference to inspection carried out during 21-22.03.2018, it was directed that a firm action plan indicating all measures for achieving norms and time lines for improving the efficiency of ESPs to achieve existing PM emission limit 100 mg/Nm³ shall be prepared and submitted by 08.06.2018. The plan shall be forwarded to Board of Directors for approval to ensure financial commitment

WHEREAS, in said meeting held on 31.05.2018, it was explained by representative of M/s ATPS that AWRS system for recycling of ash pond effluent of Anpara A & B have been installed and commissioned whereas the same will be commissioned for Plant D by July 2018. The entire ash pond overflow from all three plants is recycled at present. However, during the inspection by CPCB team, ash pond overflow was being discharged due to malfunctioning of return pump of Anpara C plant of M/s Lanco. It was directed that total recycling of ash pond shall be ensured round the clock in all three plants-Anpara A, B and D of UPRVUNL.

WHEREAS, it was informed in the meeting held on 31.05.2018 that CEMS for emission and effluent in Anpara D plant have been installed and order have been placed for connectivity to CPCB on 28.05.2018. It was directed that the connectivity of CEMS for emission and effluent installed at Plant D shall be established within a week's time.

WHEREAS, in reference to M/s ATPS has been directed on 11.12.2017 to upgrade ESPs and install FGD by February 2022 to October 2022 in Unit- 1 to 5 to comply new PM and SO₂ norms, and to meet NO_x norms by December 31, 2022 as per plan submitted by MoP;

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

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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 Anpara Thermal Power Station (Unit- 1 to 5), Sonebhadra, U.P. is directed to show cause as to why your Plant should not be closed in view of violation of norms for Particulate Matter emission and suspended solids in ash pond effluent prescribed by SPCB and environmental compensation be not imposed in respect of these violations.

M/s Anpara Thermal Power Station, Sonebhadra, Uttar Pradesh shall submit its reply to show cause notice 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.


(A. K. Mehta)
Chairman


Copy to:

1. The Chairman
Uttar Pradesh Pollution Control Board
IIIrd Floor PICUP Bhawan, Vibhuti Khand
Gomti Nagar, Lucknow - 226 020, UP
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 - 110003
3. Regional Directorate (North)
Central Pollution Control Board
PICUP Bhawan, Ground Floor
Vibhuti Khand, Gomti Nagar
Lucknow - 226 010
4. The Divisional Head - IT, CPCB
5. The Divisional Head - IPC-VI, CPCB


(Prashant Gargava)
Member Secretary
