

SPEED POST

B-33014/07/2018/IPC-II/TPP/ 13844

December 14, 2018

To

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- Closure 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;

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.
2. 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. The deviation between online and manually monitored data was found to be very high (228% and 278% respectively). As per online monitoring the concentration of PM was found to be 190 mg/Nm³ and 170 mg/Nm³.
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.
6. The cooling water from M/s ATPS after neutralisation being discharged outside plant premises through drains which finally meets Rihand Reservoir.

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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. During inspection, ash pond overflow into Rihand Reservoir was seen.
9. The TSS in ash pond over flow was found as high as 838 mg/l against standard of 100 mg/l).

WHEREAS, based on the observations made by inspection team from Regional Directorate, Lucknow, a direction under section 5 of Environment (Protection) Act, 1986 was issued to M/s ATPS 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 the violations.

WHEREAS, vide letter dated 08.11.2018, M/s ATPS submitted following reply to show cause notice:

1. M/s ATPS has applied for renewal of CTO and obtaining Hazardous Waste Authorization which are under process at UPPCB.
2. Efficiency of ESPs will be augmented during proposed overhauling in Unit-5 in January 2019 in Unit-4 during year 2019 (no specific data/time limit specified). After augmentation the PM emission level will be under the prescribed limit.
3. Calibration of OCEMS will be carried out during shutdown of these units to rectify the deviations.(whereas as calibration should be according to OCEMS guideline)
4. Appropriate location of sampling port holes in Unit-1-3 will be provided during time of modifications in ESPs. (no data/time limit specified)
5. Enquiry has been sent to NTPC Ltd. on 17.07.2018 for the consultancy services and preparing feasibility study report for installation of cooling tower (CT) in for Unit- 1 to 5. The prescribed limit will be achieved after installation of CT. (no data/time limit specified)
6. The temperature difference between intake and discharge of water is maintained less than 10^oC. After installation of CT the plant will achieve ZLD.
7. Presently, the Plant is utilising the treated water of STP in horticulture, partially. It is proposed to use STP treated water in Ash Water Sump for disposal of wet ash slurry. IIT-Roorkee has been appointed as a consultant for this work, for which tentative compliance period is July 2019.
8. All the pumps of Plant are working properly and there is no overflow from secondary pond to Rihand Reservoir. During inspection, the overflow was seen due to heavy rain occurred in preceding week.
9. High TSS of ash pond overflow was due to heavy rains. The concentration of Arsenic and Mercury in ash pond overflow was also near to the prescribed limit. However, there is no ash pond overflow discharging into Rihand Reservoir presently.

WHEREAS, the above reply indicates that units 4 & 5 of M/s ATPS will remain not complying with the pre-revised emission standard of PM emission (i.e. 150 mg/Nm³) till proposed augmentation of ESPs.


WHEREAS, 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;

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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.

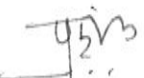
NOW, THEREFORE, in view of the non-compliance of emission norms in Units - 4 & 5 and in exercise of powers vested under Section 5 of the Environment (Protection) Act, 1986, M/s Anpara Thermal Power Station, Sonbhadra, U.P. is directed not to operate its Units - 4 & 5 immediately. M/s ATPS shall seek permission from CPCB to restart these units after completion of proper upgradation of ESP so as to achieve compliance of prescribed emission norms and is further directed to pay Environmental Compensation of Rs. 40,50,000 (@ Rs. 30,000 per day) for non-compliance of emission norms since 02.08.2018 till 14.12.2018, as per Environmental Compensation policy framed by CPCB in compliance of NGT order dated 31.08.2018 in OA no. 593/2017.

The unit M/s Anpara Thermal Power Station Anpara-A & B, U.P.R.V.U.L, Sonbhadra Uttar Pradesh shall submit compliance report within 15 days. Failure to comply with the above directions will attract action in accordance with the provision of the Environment (Protection) Act, 1986.


14/12/18
(S.P.S. Parihar)
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

