



WEST BENGAL POLLUTION CONTROL BOARD

(Department of Environment, Govt. of West Bengal)

Paribesh Bhawan

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MEMO NO.: 2731 -412-WPB-SEE-K.O.-GEN/2006

DATE: 03/01/08

DIRECTION

WHEREAS, M/S. **BANDEL THERMAL POWER STATION** (hereinafter referred as **BTPS**) under the West Bengal Power Development Corporation operates its thermal power plant at P. O. – Tribeni, P. S. – Mogra, Dist. – Hooghly, PIN – 712 503.

WHEREAS, M/S. BTPS was called for a hearing as photographs of the emission from the stack of the boilers of the thermal power plants taken during the inspection on 23-08-2007 revealed emission of dense black smoke from the stacks of unit Nos.3 & 4.

WHEREAS, the BTPS officials present in the hearing attributed this high emission from the stacks of unit Nos.3 & 4 due to failure of some of the ESP fields during the time of inspection. Besides, during the material time the boilers were operating on oil support. The General Manager attending the hearing submitted following reasons for noncompliance of emission level through a letter dated 16-11-2007.

- a. Start up period for a boiler from the light up to P. F. fire stabilization generally last for 8 to 10 hrs. or sometimes more. During this period, it requires massive Fuel Oil firing which ESP fields can not stand. So, ESP requires to be bypassed during this period resulting in black smoke emission.
- b. Combustion in the boiler some time suffers for a short duration, may be 30 minutes, during addition/exclusion of pulverizers owing to variation of load requirement due to power system need. This results more emission than normal.
- c. To ensure complete combustion, colour of ash is required to be visualized by withdrawing E.S.P. fields for a period of 10 to 15 minutes for testing purpose by operation wing.
- d. Any technical fault for E.S.P. system, which required to be rectified during planned running of the units for a short period, otherwise, shutdown of the unit may cause severe emission nuisance for a prolonged period of re-commissioning.

BTPS also submitted that they have appointed M/s. SGS India Pvt. Ltd. for its detailed Environmental Audit and due diligence assessment for entire plant and its facilities as per World Bank Prevention guideline. The consultant will analyze all the sources of pollution from the plant and its linked/associated facilities which shall include ESP performance, plant water system, effluent treatment system, ash pond etc. Subsequent measures will be taken up in this regard as per suggestion of the consultant afterward.

WHEREAS, the Technical Committee observed during the hearing that onus of maintaining emission standard for the plant squarely lies with the occupier and any limitation of the plant towards such compliance requires to be taken care of by the occupier and also the stipulated date for such compliance as per the CREP for the thermal power plant has expired long back on 31st December, 2005.

NOW THEREOFE, in due consideration of the emission of black smoke frequently from the boilers' stack as evident through photographs of the emission and also because of the fact that the unit failed to phase out the old boilers in view of noncompliance of emission standard as per their earlier assurance and also for not taking short term action for improvement of the emission level, the following recommendations are made:

1. Pending phase out of the old boilers, BTPS will have to take a shut down of the boiler Nos. 1 to 4 for revamping of the existing emission control system for improvement of its efficiency. BTPS will have to submit a time frame for such phase out.
2. BTPS will have to arrange for ammonia conditioning of its flue gas to increase the efficiency of emission control systems within three months time.
3. BTPS will have to pay a pollution cost of Rs.2.00 Lakhs (Rupees Two Lakhs only) by Demand Draft payable at Service Branch, Kolkata/Banker's Cheque within fifteen days from the date of issuance of the order in favour of the WEST BENGAL POLLUTION CONTROL BOARD for copious black smoke emission from its boilers' stacks.
4. BTPS will have to submit an action plan for improvement of the emission condition in the existing boilers within fifteen days from the date of issuance of this order and such improvement will have to be made within six months from the date of issuance of this order.
5. BTPS will have to submit a Bank Guarantee (proforma enclosed) for Rs.10.00 Lakhs (Rupees Ten Lakhs only) valid for twelve [12] months within fifteen [15] days from the date hereof to ensure improvement of the emission condition within the stipulated time.

This direction is issued in exercise of the powers conferred under Air (Prevention & Control of Pollution) Act, 1981 and Environment (Protection) Act, 1986 and Rules made thereunder.

This order has the approval of the Competent Authority.

Order

Sd/-

(Dr. D. Chakraborty)

**Chief Scientist & Head-Technical Cell
West Bengal Pollution Control Board**