



**WEST BENGAL POLLUTION CONTROL BOARD**

( Department of Environment, Govt. of West Bengal )

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Memo No. 290-344/WPB(HRO)-K/2011 (Pt.-IV)

Date: 04/11/2015

**DIRECTION**

**WHEREAS, M/s. Kolaghat Thermal Power Station (WBPDCCL)** [hereinafter referred to as the industry] located at **Mecheda, P.S.- Kolaghat, Dist.- Purba Medinipur, Pin – 721 137** is a thermal power plant having six (6) units of capacity 210 MW each. Each power generating unit has individual ESP as air pollution control device (APCD) and unit no. 1, 2 & 3 are connected to individual stack of height 120 ft. and unit 4,5 & 6 are connected to individual stack of height 220 ft.

**AND WHEREAS,** the industry was inspected by the officials of the **West Bengal Pollution Control Board** (hereinafter referred to as the Board) on 06/10/2015. The following observations were made during inspection:-

- Units 2, 3, 5 & 6 were found in operation. Huge emission was observed from the stacks connected to these units.
- Opacity meter installed for all units. But presently opacity meters of only unit 3, 4, 5 & 6 are functional.
- Ammonia conditioning was found in progress for Stage I units (Units 1, 2 & 3). Ammonia conditioning started for Unit 5.
- Ash ponds 4A & 2B/1 were in operation, overflow was discharged to Midnapore & Denan canals respectively.
- Presently about 60% of fly ash is being collected in five ash silos (capacity – 5 x 2000 Ton). Rest is being taken to ash pond.
- ETP present. Outlet water from ETP is reused in making ash slurry.
- Excavation work of canals as submitted by the unit representative –

Work for Denan canal – completed by Irrigation Deptt.

Work for Banpur canal - completed by WBPDCCL authority.

Work for Midnapore canal – partly completed.

- The unit has started documentation work regarding upgradation of ESPs for units 1, 2 & 3. M/s. STEAG Energy Services India Pvt Ltd. has been entrusted with the job and they have submitted the report to WBPDCCL authority.
- The unit has planted approx.5,000 saplings through 06 nos. gram panchayats.

**AND WHEREAS**, stack sampling were carried out for the boilers in the months of January, May & July 2015 and results show a highly non-complying PM level which is tabulated below:-

Date of sampling	Sample collected from	Parameters	Results obtained (mg/Nm <sup>3</sup> )	Permissible limit (mg/Nm <sup>3</sup> )
13/01/2015	Stack attached to Unit no. #1	PM	2570.57	150
	Stack attached to Unit no. #2		4756.786	
	Stack attached to Unit no. #3		1007.303	
14/01/2015	Stack attached to Unit no. #6 (Pass A)	PM	1117.385	
	Stack attached to Unit no. #6 (Pass A)		1223.988	
	Stack attached to Unit no. #4 (Pass A)		370.249	
	Stack attached to Unit no. #4 (Pass B)		210.859	
22/05/2015	Stack attached to Unit no. #4 (Pass A)	PM	625.66	
	Stack attached to Unit no. #5 (Pass B)		543.98	
	Stack attached to Unit no. #1		1150.25	
	Stack attached to Unit no. #3		785.44	
16/07/2015	Stack attached to Unit no. #1	PM	573.06	
	Stack attached to Unit no. #2		687.09	
	Stack attached to Unit no. #4 (Pass-A)		795.24	
	Stack attached to Unit no. #4 (Pass-B)		805.04	
17/07/2015	Stack attached to Unit no. #5 (Pass A)	PM	720.26	
	Stack attached to Unit no. #5 (Pass B)		818.79	
	Stack attached to Unit no. #6 (Pass A)		1798.17	
	Stack attached to Unit no. #6 (Pass B)		1355.33	

**AND WHEREAS**, earlier the industry was directed on 30/03/2015 to complete overhauling of the ESP and ammonia dosing work for unit no. 5 by April 2015 and those for unit nos. 4 & 6 by September 2015. The industry was also directed to complete upgradation/modification work of the ESPs of unit nos. 1, 2 & 3 by the year 2017.

**AND WHEREAS**, effluent sampling was also carried out during successive inspections and the industry failed to meet the liquid effluent discharge standard for the month of January, July & August 2015 which is tabulated below:-

Sampling date	Sampling point	Parameter	Results obtained (mg/l)	Permissible limit (mg/l)
09/01/2015	Final discharge point to Banpur canal	TSS	396.0	100.0
23/07/2015			562.0	
28/08/2015			148.0	

**AND WHEREAS**, a Bank Guarantee of Rs. 10.00 lakh was imposed upon the industry which was subsequently waived by the State Board on 21/07/2014 as per their prayer, as the industry submitted a BG of Rs. 25.00 lakh to Central Pollution Control Board which is valid upto 18/09/2017.

**AND WHEREAS**, the Consent to Operate of the industry is valid upto 31.12.2017.

**AND WHEREAS**, a public complaint was lodged against the thermal power plant alleging severe air pollution in the locality causing serious health hazards to the neighbouring residents.

**AND WHEREAS**, the industry was called for a hearing at the Head office of the Board on 08/10/2015 for the non-compliance of environmental norms as recorded above.

**AND WHEREAS**, the representative of the industry appearing in the hearing submitted that work of Ammonia dosing for unit 4 & 6 will be started during annual shut down of the units. He stated that unit 1 & 4 are closed for about one month. He also submitted that they would arrange for connectivity with server for online stack emission data transmission within 31<sup>st</sup> October 2015 and take necessary steps for installation of on-line effluent monitoring system as early as possible. He mentioned that desiltation work of Midnapore canal has been completed and such desiltation work of the canals will be carried out as per requirement.

**NOW THEREFORE**, considering the above, **M/s. Kolaghat Thermal Power Station (WBPDCL)** located at Mecheda, P.S.- Kolaghat, Dist.- Purba Medinipur, Pin – 721 137 is hereby directed as follows:

1. **That**, the industry shall complete the work of Ammonia dosing for 4 & 6 within 31<sup>st</sup> March, 2016.
2. **That**, the timeline for completion of the upgradation/modification work of the ESPs of unit nos. 1, 2 & 3 by the year 2017 should be strictly maintained.
3. **That**, the industry shall operate the unit nos. 1, 2 & 3 at 50% load till upgradation/modification work of the ESPs is completed.
4. **That**, the industry shall always operate the existing air pollution control devices (ESPs) efficiently.
5. **That**, opacity meters for all six units shall be made functional by 30<sup>th</sup> November, 2015.
6. **That**, the industry shall immediately arrange for connectivity with server for online stack emission data transmission.
7. **That**, the industry shall install on-line effluent monitoring system at the earliest in order to comply with CPCB's direction and submit compliance report to the State Board.
8. **That**, the industry shall ensure that ash laden water does not contaminate the Denan canal, Banpur canal and Midnapore canal.
9. **That**, periodical cleaning of the canals shall be undertaken by the industry so as to maintain free flow of water in the canals.
10. **That**, adequate precaution needs to be taken during excavation, loading, and transportation of ash to minimise dust spreading.
11. **That**, the industry should ensure maximum utilization of the dry fly ash as well as bottom ash. Monthly ash utilization report shall be submitted to the Board on regular basis.

The Environmental Engineer, Haldia Regional Office of the Board is requested to oversee the compliance of this direction.

This direction is issued in exercise of the powers conferred under the provision of Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act 1981, the Environment (Protection) Act, 1986 and Rules made thereunder after being approved by the Competent Authority.

By Order,

**Sd/-**  
**Chief Engineer**  
**Operation & Execution Cell**  
**West Bengal Pollution Control Board**