WHEREAS, M/s. Bakreswar Thermal Power Project (WBPDCL) [hereinafter referred to as the industry] located at P.O.- BKTPP, Dist.- Birbhum, Pin-731 104 is a coal based thermal power plant of total power generation capacity 1050 MW (5X210 MW). Each power generating unit has individual ESP as air pollution control device (APCD) and connected to individual stack of adequate height.

AND WHEREAS, the industry was inspected by the officials of the West Bengal Pollution Control Board (hereinafter referred to as the Board) on 24/09/2015. During inspection four (4) units were found in operation. High visible emission was noticed through the stack of unit 2.

AND WHEREAS, the industry generates approx. 6500 Tons per day ash from all the boilers. Part of the generated ash is utilized in cement plants and the rest is disposed of to Ash pond in slurry form which is periodically evacuated for filling up of abandoned mines, low lands etc.

AND WHEREAS, the entire ash pond overflow water for units 1, 2 & 3 are treated and re-circulated through 2 nos. Clariflocculator (one is stand by). The Clariflocculator for treatment of Ash pond overflow water for units 4 and 5 is yet to be commissioned; it was observed to be at an advanced stage of construction.

AND WHEREAS, during inspection effluent sample was collected from Ash pond overflow and confluence point of the river and the analysis report shows compliance (Ash pond overflow: pH-7.49 & TSS-32 mg/l and at confluence point of river: pH-7.61 & 42 mg/l). The industry has installed opacity meter for all five units, but yet to install on-line effluent monitoring system at Ash pond outlet.

AND WHEREAS, the industry has raised the dyke height of existing Ash pond to enhance its ash handling capacity by another 16.0 lac.m³. They have also started ground preparation for installation of another Ash pond and it is expected to be completed by March 2017 (as reported).

AND WHEREAS, handling of dry fly ash is mainly carried out through Ash storage silos (capacity: 3X300 Ton for units 1, 2 & 3 and 2X1000 Ton for units 4 & 5). During inspection it was noticed that the fly ash was collected from bottom hoppers of ESP of unit 4 and directly bagged for despatch.

AND WHEREAS, the Consent to Operate of the unit is valid upto 31/12/2015.

AND WHEREAS, the industry was called for a hearing at the Head office of the Board on 07/10/2015.

AND WHEREAS, the representative of the industry appearing in the hearing submitted that:

i) construction of the Clariflocculator for unit 4 and 5 will be completed by 31/12/2015 and that of new ash pond will be completed by 31/03/2017.

ii) ESPs for the boiler of unit 2 was not functioning properly on the day of inspection due to poor quality of coal causing high stack emission.
iii) the problem of transferring ash to silos of unit 4 & 5 will be taken care of and will be rectified at the earliest.

iv) they are running at around 75% PLF for more than six months to take care of the problem of ash handling & disposal; out of 1050 MW generation capacity, only around 750 MW power generated during this period.

v) they are sending dry fly ash to brick manufacturing units, cement plants etc. and also exploring the possibilities to enhance utilization of dry fly ash so as to reduce load on the ash pond.

**NOW THEREFORE**, considering the above, M/s. Bakreswar Thermal Power Project (WBPDCL) located at P.O.- BKTPP, Dist.- Birbhum, Pin-731 104 is hereby directed as follows:

1. **That**, the industry shall complete the construction work of the Clariflocculator for unit 4 and 5 within 31/12/2015.

2. **That**, the industry shall always operate the air pollution control devices (ESPs) efficiently so as to maintain the particulate matter emission from the stacks within permissible standards.

3. **That**, the industry shall install on-line effluent monitoring system at the earliest in order to comply with CPCB’s direction and submit action taken report in this regard to the Board within 10th November, 2015.

4. **That**, the industry shall immediately arrange for connectivity with server for online stack emission data transmission.

5. **That**, the industry shall identify the problems associated with ash conveying system to silos of unit 4 & 5 and rectify it within 30th November, 2015.

6. **That**, the industry shall restrict power generation within 750 MW (out of total generation capacity of 1050 MW) either by operating the units at reduced load or by keeping one unit shut to reduce load on the existing ash pond till ash handling & disposal problem is sorted.

7. **That**, the industry should continue to improve the dry ash collection & utilization systems as has been found during inspection and 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, Durgapur 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 Section 33A of Water (Prevention & Control of Pollution) Act, 1974, Section 31A of Air (Prevention & Control of Pollution) Act 1981, Section 5 of 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