



WEST BENGAL POLLUTION CONTROL BOARD

(Department of Environment, Govt. of West Bengal)

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MEMO NO.: 2112-1A-148/2000 – PART - II

DATE: 29-07-2009

DIRECTION

WHEREAS, M/S. KOLAGHAT THERMAL POWER STATION (hereinafter referred as KTPS) under the West Bengal Power Development Corporation Ltd. was called for a hearing at the Head Office of the **WEST BENGAL POLLUTION CONTROL BOARD** (hereinafter referred as the Board) on 24-04-2009 as there was a public complaint against KTPS from the Secretary, Krishak Sangram Parishad alleging discharge of fly ash water into Denan and Banpur Canal resulting in major siltation of the canals.

WHEREAS, KTPS was inspected by the Board Officials on 27-01-2009 when the following observations were made:

Ash generated from the power plant is discharged into ash ponds from where the overflow is either discharged into Midnapore canal or Denan canal. Effluent from the effluent treatment plant is partly used and the rest is discharged into Banpur canal. Siltation was observed in the confluence point of the canal and river Rupnarayan and also at different points of the Denan canal. Such siltation is interfering the flow of water in the canals. A major part of the Midnapore canal was found to be covered with water hyacinth.

WHEREAS, the Complainant Shri Narayan Chandra Nayak appearing in the hearing submitted that Denan Canal is used mainly for drainage purpose but siltation of ash from KTPS has rendered the canal ineffective for the purpose it was dug.

WHEREAS, the Authorities of M/s. KTPS appearing in the hearing however opposed the observation made by the complainants and submitted that the ash may have been contributed from the storm water coming from the stockpile of fly ash of National Highway Authority of India who are using the ash for renovation and modernization jobs of NH-41. However, after hearing the submissions from the complainants and the KTPS Authorities, the Technical Committee summarily rejected the submission made by the KTPS Authorities.

WHEREAS, it is pertinent to mention here that siltation of canals by the discharge of KTPS is not a new phenomenon.

WHEREAS, KTPS was earlier called for a technical hearing on 27-04-2007 at the Head Office of the Board for noncompliance of particulate emission standard from the power plant boilers and for failing to comply with the CREP conditions. A Bank Guarantee of Rs.10.00 Lakhs was imposed upon KTPS as an assurance to comply with the directions dated 14-05-2007 within a period of six months from the date of issuance of the direction.

WHEREAS, besides the issue of siltation of the canals from deposition of ash, the persistent high level of emission from the power plant boilers was also discussed in the hearing. The results of monitoring by the Board clearly indicate that the emission level of particulate matter is very high compared to the standard in almost all the cases of monitoring. The results of monitoring are tabulated below:

DATE OF SAMPLING	STACK CONNECTED TO	VALUE OBTAINED in mg/Nm³
23-07-2008	Boiler No.3	459.69
	Boiler No.1	629.78
24-07-2008	Boiler No.5 (Pass – A)	368.80
	Boiler No.5 (Pass – B)	536.70
18-11-2008	Boiler No.5 (Pass – B)	1558.22
	Boiler No.3	3435.82
	Boiler No.1	1868.07
	Boiler No.5 (Pass – A)	809.84
19-11-2008	Boiler No.6 (Pass – B)	832.14
	Boiler No.6 (Pass – A)	1062.02
	Boiler No.2	12014.88
20-01-2009	Boiler No.3	932.29
	Boiler No.2	301.71
21-01-2009	Boiler No.1	476.38
	Boiler No.5 (Pass – A)	1011.61
	Boiler No.5 (Pass – B)	934.90
20-04-2009	Boiler No.3	2732.25
	Boiler No.5 (Pass – A)	1865.92
	Boiler No.5 (Pass – B)	1689.35
	Boiler No.6 (Pass – A)	3141.05
	Boiler No.6 (Pass – B)	7768.44
21-04-2009	Boiler No.1	703.26
	Boiler No.4 (Pass – A)	858.72
	Boiler No.4 (Pass – B)	284.89

NOW, THEREFORE, considering the noncompliance both in relation to discharge of ash from fly ash pond as also emission from power plant boilers, M/S. **KOLAGHAT THERMAL POWER STATION** is hereby directed as under

1. M/S. KTPS is allowed six months time i.e. up to 31st January, 2010 to excavate both Denan Canal and Midnapur Canal to restore the free flow of water in the canals.
2. M/S. KTPS should ensure compliance of particulate emission standard within this six months time from the date of issuance of this direction through modification/revamping of electrostatic precipitators and also by proper flue gas conditioning for all the boilers.
3. M/s. KTPS will have to adopt dry fly ash extraction or dry disposal system or Medium (35 to 40%) ash concentration slurry disposal system or lean phase with hundred per cent ash water recirculation system as per the CREP conditions within this six months period.
4. M/s. KTPS is penalized with imposition of a Pollution Cost of Rs.10.00 lakhs (Rupees Ten Lakhs) by forfeiting the entire Bank Guarantee amount deposited with the Board for the above noncompliance.

5. M/s. KTPS will also submit a fresh Bank Guarantee of Rs.20.00 Lakhs (Rupees Twenty Lakhs only) as an assurance to comply with the above directions within the stipulated time.

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

By Order,

Sd/-

(Dr. D. Chakraborty)

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