

4-2/94

No. J-13011/13/93-IA-III

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भारत सरकार
पर्यावरण एवं वन मंत्रालय
GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT & FORESTS
पर्यावरण भवन, सी.जी.ओ. कॉम्प्लेक्स
PARYAVARAN BHAWAN, C.G.O. COMPLEX
लोदी रोड, नई दिल्ली-110003
LODI ROAD, NEW DELHI 110003

19.4.94.

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29 APR 1994

OFFICE MEMORANDUM

Sub:- Wanakbori Thermal Power Station, Unit-7(1x210 MW) -
Environmental clearance reg.

Gujarat Electricity Board may refer to their
letter No. PP/PL-III/Coal/Wanakbori/21/1003 dt. 6.5.1993
and subsequent letter dated 18th January, 94 on the above
cited subject.

2. The proposal has been examined and the undersigned is
directed to convey environmental approval subject to the
implementation of the following conditions and safeguards:

- i) Stack height should be provided as per MOE&F's
notification dated 19.5.93.
- ii) Electrostatic Precipitators(ESP)/alternate dust collect-
ing equipment e.g Bag filter etc. with operational
efficiency of not less than 99.3% should be provided
so that the particulate emissions should not exceed 150mg/
Nm³ failing which plant should be shut down. Adequate
redundencies should be provided so that partial failures
do not result in exceeding the limit mentioned above.
Arrangements for interlocking of ESP/alternate equipments
would be desirable to enable enforcement of the pollution
standards.
- iii) Space provision for installation/ plant should be made so
that the same could be provided, if required in future
from environmental angle.

Scientist

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- iv) Liquid effluents including cooling water emanating from the plant as also waste water from the ash pond and other areas should be properly treated to conform to the standards stipulated by the State Pollution Control Board/MOE&F whichever is more stringent.
- v) The project authority should prepare a comprehensive EIA report including air quality data of all the seasons and submit within one year. Further conditions may be stipulated on the basis of the comprehensive EIA.
- vi) The cooling towers were to be replaced by modern ones so that the water requirement does not increase.
- vii) In order to arrest the heavy concentration of liquid effluent to be properly treated as per stipulated standards.
- viii) Time frame for carrying out the mitigative measures, mentioned in the Sec-9 of the rapid EIA, to be submitted within one month.
- ix) The project authority should furnish a workable plan for full utilisation of fly ash for the approval of the appraisal committee/MOE&F as follows -
20% of fly ash should be put into use within one year of commissioning of the plant. Thereafter 10% progressively for next 8 years and 100% within 9 years. Provision of fly ash collection should be made by the dry system.
- x) A green belt of not less than 50 meters width

and adequate density should be raised at the plant and right from the construction stage. This should preferably be with local species including indicator and resistant ones in consultation with professional organisations. Similar plantation around the ash pond area should also be provided. Treated waste water should be used for irrigation of green belt.

- xi) The requirement of land for ash disposal should be based on ash utilisation plan. Ash pond area should be properly lined to avoid ground water contamination. Recycling and reuse of ash pond effluent should be done so as to achieve 'Zero' discharge to the maximum extent possible.
- xii) Continuous dust monitoring system should be provided in each stack/dust and calibrated at least once in a week. Monitoring of stack emissions of SO₂/NO_x should be done at least once in a month.
- xiii) Efforts should be made to minimise evaporation losses of water to the maximum extent possible (around 1%) in case of closed cycle cooling system by adopting latest available technology.
- xiv) Adequate monitoring stations (with minimum once meteorological station) for ambient air and water quality should be provided in consultation with the SPCB. Levels of pollutants (SPM, SO₂ and NO_x) should be monitored on regular basis and record maintained. Similarly, the parameters for water quality including ground water contamination particularly in the vicinity of ash pond area as

may be specified by the SPCB/MOE&F should be monitored and the records maintained. Statistically analysed data should be quarterly sent to the SPCB/CPCB and half yearly to this Ministry.

xv) A separate Environmental Cell with suitable qualified people to carry out various functions should be set up under the control of a Senior Executive who will report directly to the Head of the organisation.

3. The conditions stipulated may be varied or new conditions may be added or the clearance revoked, if necessary, in the interest of environmental protection, and if there is any change in the project profile, non-satisfactory implementation of the stipulated conditions, etc.

4. The stipulations will be implemented, among others under the Water(Prevention & Control of Pollution) Act, 1974, the Air(Prevention and Control of Pollution) Act, 1984 the Environment(Protection) Act, 1986 and the Public Liability Insurance Act, 1991.

5. Necessary funds should be provided in the project for implementation of the above mentioned conditions and environmental safeguards. The funds earmarked for the environmental protection measures should not be diverted for other purposes and yearwise expenditure should be reported to this Ministry.

(Dr. S. Bhowmik)
Joint Director(Scientific)

The Chairman,
Gujarat Electricity Board,
Vidyut Bhavan,
Race Course
Baroda-390007.

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Copy to:-

1. The Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi-1.
2. The Chairman, Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi-66.
3. The Chairman, Gujarat Pollution Control Board, 10-A, Gandhinagar-382043.
- ✓ 4. Regional Office, MOEF, E-3/240 Arera Colony, Bhopal-462016.
5. Guard file.

S. Anand
(Dr. S. Bhowmik)
Joint Director (Scientific)