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No. J-11011/24/96-IA.II(I).

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

Dated 3rd July, 1996.

OFFICE MEMORANDUM

Sub: 60 TPD chlor-alkali plant at Melavanjore, Karaikal of M/s
Kothari Petro-chemicals Ltd. - Environmental Clearance reg.

This has reference to letter of 15th March, 1996 from the
Chief Executive, M/s Kothari Petrochemicals Ltd. on the above
subject.

2. The project has been examined and environmental clearance
is accorded to the project for manufacturing 60 TPD caustic soda,
53 TPD chlorine, 15 TPD HCL and 1.5 TPD hydrogen gas subject to
implementation of the following conditions and environmental
safeguards:-

- i. The project authorities must strictly adhere to the
stipulations made by the State Pollution Control Board and
the State Government.
- ii. No further expansion or modification in the plant should be
carried out without prior approval of this Ministry.
- iii. Gaseous (Cl₂, SO₂, NO_x and HC) and particulate emissions
from the various process vents and storage tanks should
conform to the standards prescribed by the competent
authorities, from time to time. At no time, the emissions
level should go beyond the prescribed standards. In the
event of failure of any pollution control system adopted by
the units, the respective unit should be put out of
operation immediately and should not be restarted until the
pollution control measures are rectified to achieve the
desired efficiency.

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- iv. At least three ambient air quality monitoring stations should be established in the down wind direction as well as where maximum ground level concentrations of SPM, SO₂, NO_x and Cl₂ are anticipated. The selection of the AAQ monitoring stations should be based on modelling exercise to represent short term ground level concentrations, sensitive targets etc. in consultation with the State Pollution Control Board.

Stack emissions should also be regularly monitored by installing stack monitoring devices in consultation with the State Pollution Control Board.

Data on AAQ and stack emissions should be submitted regularly to this Ministry once in six months and the State Pollution Control Board once in three months alongwith the statistical analysis and interpretation.

- v. Fugitive emissions should be controlled, regularly monitored and data recorded.

Chlorine sensors should be installed in the chlorine storage area at lower level between the tanks.

- vi. Liquid effluents coming out of plant should conform to the standard as prescribed by the State Pollution Control Board/the Ministry of Environment and Forests under the Environment (Protection) Act, 1986.

Recycling and reuse of the treated waste water should be maximised to the extent possible.

- vii. Adequate measures for the control of noise should be taken so as to keep noise levels below 85 dB in the work environment.

Persons working near the noisy machines like blowers, compressors etc. should be provided with well designed ear muffs/plugs. Besides, measures should be taken to reduce the noise by engineering methods.

- viii. Occupational health surveillance programme should be undertaken as a regular exercise especially with respect to exposure to chlorine, thermal stresses and noise pollution.

- ix. A green belt of adequate width and density (2000 - 2500 trees/ha) should be developed covering 12 acres of land using native plant species suitable for saline soil in consultation with the local Agriculture Department. Final treated liquid effluent should be used for developing the greenary.

- x. Suitable alarm system and standard procedure for transmitting the information on accidental release of chlorine to the nearby areas and proper focal point should be established. Steps should also be taken to ensure access to information on weather conditions prevailing at that time and weather forecast. Wind socks at appropriate locations should be provided.

Necessary approval may be taken from the Explosives Department/Chief Inspector of Factories regarding the safety of the pressure vessels, storage tanks etc.

- xi. Efforts should be made involving other industries operating in the area for development of facilities to combat any emergency situation that may arise in case of an accident.
- xii. Hazardous wastes should be handled as per the Hazardous Waste (Management and Handling) Rules, 1989 of the EPA, 1986 and necessary approval of State Pollution Control Board for safe collection, treatment, storing and disposal of hazardous wastes *should also be obtained.*
- xiii. Handling, manufacture, storage and transportation of hazardous chemicals should be carried out in accordance with the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended in October, 1994.
- xiv. The project authorities must set up laboratory facilities for collection and analysis of samples under supervision of competent technical personnel, who will directly report to the Chief Executive.
- xv. A separate Environment Management Cell with suitably qualified people to carry out various functions should be set up under the control of Senior Executive, who will report directly to the Head of the organisation.
- xvi. The funds earmarked for the environmental protection measures should not be diverted for any other purposes and year-wise expenditure should be reported to this Ministry.
- xvii. Six monthly reports on the compliance status of project implementation vis-a-vis above environmental measures should be submitted to Regional Office of the Ministry at Bangalore.

3. This Ministry or any competent authority may stipulate any further condition(s) on receiving reports from the project authorities. The above conditions will be monitored by the Regional Office of this Ministry located in Karnataka (Bangalore).

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4. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.


5. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention and Control of Pollution) Act, 1974; and Air (Prevention and Control of Pollution) Act, 1981; The Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 with their amendments and rules.

(K.K. JAIN)
Joint Director

The Secretary,
Ministry of Chemicals & Fertilizers,
Shastri Bhavan,
New Delhi-110001.

Copy to:

1. ✓ Chairman & Managing Director, M/s Kothari Petrochemicals Ltd., Kothari Buildings, 115, M.G. Salai, Madras-600 034. Please send a set of environmental reports including the questionnaire to the addressee at Sl. No. 4.
2. Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
3. Chairman, Pondicherry Pollution Control Board, Administration, Pondicherry.
4. Chief Conservator of Forests, Regional Office, (SZ), Kendriya Sadan, 4th Floor, II Block, 17th Main Road, E&F Wing, Koramangala, Bangalore.
5. Guard file.
6. Monitoring file
7. Record file.


(K.K. JAIN)
Joint Director