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No. J-11011/7/93-IA.II

Government of India

Ministry of Environment & Forests

IA-II(I) Section

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Paryavaran Bhavan,  
C.G.O. Complex,  
Lodhi Road,  
New Delhi-110003.

16th December, 1993.



OFFICE MEMORANDUM

Sub: Expansion-cum-Modernisation of Compound Fertilizer Complex (APS 1,70,000 TPA, Sulphuric Acid 1,81,000 TPA & Phosphoric Acid 35,800 TPA) by M/s. EID Parry (India) Ltd., Ennore.

This has reference to letters dated 17th Nov. 1992 and 22nd July, 1993 on the above subject from General Manager, EID, Parry (India) Limited, Ennore.

2. The project has been examined and environmental clearance is accorded to the expansion scheme, except the proposal for ammonia storage facilities to be created at Madras Port, subject to implementation of the following conditions and environmental safeguards:

- i. The project authorities must strictly adhere to the stipulations made by the Tamil Nadu Pollution Control Board and the State Government;
- ii. No expansion or modernisation of the plant should be carried out without prior approval of the Ministry of Environment & Forests.
- iii. The gaseous emissions (SO<sub>2</sub>, F, NO<sub>x</sub>, NH<sub>3</sub>, particulate matter and hydrocarbons) from the various processes/units should conform to the load/mass based standards notified by this Ministry on 19th May, 1993 or those may be notified from time to time. The State Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its location. At no time, the emissions 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 immediately put out of operation and should not be restarted until the control measures are rectified to achieve the desired efficiency.
- iv. Atleast four ambient air quality monitoring stations should be set up in the down wind direction as well as

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where maximum ground level concentrations of Fluorine, SO<sub>2</sub>, NO<sub>x</sub>, NH<sub>3</sub> and SPM are anticipated in consultation with the State Pollution Control Board. The air quality monitoring stations should be selected on the basis of modelling exercise to represent short-term ground level concentrations, human settlements, sensitive targets etc.

Port holes and sampling facilities should be provided for all the stacks as per the Central Pollution Control Board Guidelines. Stack emissions should be monitored by setting up an automatic continuous stack monitoring unit in consultation with the State Pollution Control Board.

Data on ambient air quality and stack emissions should be submitted to this Ministry once in six months and to the State Pollution Control Board once in three months along with the statistical analysis and interpretation.

- v. Rock Phosphate Storage area should be separated from the APS storage site. Regular monitoring within and outside the APS Store House, and product packing zone should be carried out for ammonia.
- vi. The Sulphur storage yard should have a separate drain to collect surface run-off water.
- vii. On-line SO<sub>2</sub> monitor should be provided with the Sulphuric Acid Plant.
- viii. Ammonia gas leakages from storage and loading points should be efficiently controlled or collected and scrubbed or may be sent to incinerator for flaring.

Adequate precautions for handling ammonia vapours in case of emergency situation arising due to closure of the plant should be taken.

- ix. Fugitive emissions should be controlled, regularly monitored and data recorded. Automatic monitors for ammonia should be provided at appropriate places in the plant. Fugitive emissions of sulphur dust during the charging operations should be controlled. Fumes of sulphur emanating from molten sulphur tank should also be controlled.
- x. Oil bearing waste water should be treated for removal of oily matter and oil traps should be properly maintained so as to conform to the prescribed standards.

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- xi. Guard Pond(s) of sufficient holding capacity should be provided to cope up with the effluents discharged during the process disturbances. The contributing units should be immediately shut down and should not be restarted without bringing the system back to normalcy.
- xii. The industry should practice "zero discharge" from the plant, except the cooling tower blow down. The waste water should be recycled to the extent possible and should conform to the prescribed standards of TNPCB.
- xiii. The ground water tapping should be completely stopped by June, 1994 either by commissioning RO/multi-stage distillation plant.
- xiv. Adequate number of effluent and ground water monitoring stations should be set up in consultation with the State Pollution Control Board. Regular monitoring should be carried out for relevant parameters. Monitored data along with statistical analysis and interpretation in the form of a report should be submitted to this Ministry once in six months and to the State Pollution Control Board once in three months.
- xv. The hazardous wastes should be handled as per the Hazardous Waste (Management & Handling) Rules, 1989 of the Environment (Protection) Act, 1986.
- xvi. Handling, manufacture, storage and transport of hazardous chemicals should be carried out in accordance with the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989.
- xvii. The project authorities should prepare and submit detailed quantitative risk assessment report along with on-site and off-site emergency preparedness plans (EPP) especially for ammonia stored within the premises of the fertilizer plant as required under the Rules 13 and 14 of the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 within six months. EPPs should have approval from the competent authorities.

The approval of the Chief Inspector of Explosives should also be obtained.

- xviii. Adequate measures for the control of noise within the plant should be taken so as to keep the noise levels below 85 dB in the working environment.

Persons working near the noisy machines in Compressor Room, DMP etc. should use ear muffs/plugs.

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- xix. Suitable alarm system and standard procedure for transmitting the information on the occurrence of an accident to the proper focal point should be established. Steps should also be taken to ensure access to information on weather conditions prevailing at the time and weather forecast. Wind socks at appropriate locations should be provided.
- xx. The workers entering the APS Godown and product packing areas should be provided with protective clothes, safety shoes, gloves etc.
- xxi. The height of containment wall all around the gypsum yard should be raised by atleast 1.5 metres to avoid overflow of water and gypsum. Periodically, strength of the impervious LDPE lining provided in the pond should be checked to avoid ground water contamination.
- xxii. Health status of the Ammonia Storage Tank, Stacks and other metallic structures should be carried out regularly and anti-corrosion measures be undertaken to ensure structural soundness.
- xxiii. A workable plan for 100 percent gypsum utilisation should be prepared and submitted to this Ministry for approval within 3 months.
- xxiv. A green belt of adequate width and density should be raised all around the fertilizer complex and the township. Native plant species should only be selected for this purpose in consultation with the local DFO.
- xxv. A separate Environmental 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.
- xxvi. Periodic medical check-up of the workers should be done and records maintained.
- xxvii. The funds earmarked for the environmental protection measures should not be diverted for other purposes and yearwise expenditure should be reported to this Ministry.
- xxviii. The industry should obtained necessary approval from this Ministry for the proposed ammonia storage facilities (12,500 Tonnes) to be provided at Madras Harbour. They should also abide by the provisions of CRZ notification.

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The Secretary  
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3. This Ministry or any competent authority may stipulate any further condition(s) on receiving reports from the project authorities.

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 & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along 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, EID Parry (India) Ltd., "Dare House", Post Box No. 12, Madras - 600 001.
2. Chairman, Tamil Nadu Pollution Control Board, 32, Santhome High Road, 3rd & 4th Floors, Madras - 600 004.
3. Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 110 032.
4. Chief Conservator of Forests (Central), Regional Office (South Zone), No. 463, 1st Main, IIIrd Block, IIIrd Stage, Basaveswara Nagar, Bangalore - 560 079.
5. Guard File.
6. Monitoring File.
7. Record File.

(K.K. JAIN)  
Joint Director.



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