

J.11011/8/98-IA II



4363964



Original to be
retained by GM (Site)
T. Chellathurai
7/10/98

T. Chellathurai
7/10/98
ED (P/W) / GH (Site)
7-x-98

Dated 3rd September, 1998

To,

The Chairman & Managing Director,
Tuticorin Alkali Chemicals and Fertilisers Limited,
East Coast Centre,
553, Anna Salai, Teynampet,
Chennai- 600018.

Subject:- Expansion of Soda Ash and Ammonia Chloride Plants at Tuticorin, Tamil Nadu- Environmental Clearance.

Sir,

This has reference to your application No.TAC/HO/MEF/98/4718 dated 19th May, 1998 and supplementary information dated 22nd June, 1998 from Executive Director on the above mentioned project. Ministry of Environment and Forests have carefully examined your application.. It is observed that the proposal involves increasing the production of Soda Ash (250 MT/d) to 500 MT/d), Ammonium Chloride (230 MT/d to 450 MT/d) in the existing unit and setting up new facilities for production of Sodium Bicarbonate (15 MT/d), Potassium Bromide (100 kg/d) and Ammonium Chloride (35 MT/d). It is noted that NOC from the Tamil Nadu State Pollution Control Board has been obtained and the proposal has been recommended by the Public Hearing Panel in the meeting held on 8th May, 1998.

The Ministry of Environment and Forests hereby accords Environmental Clearance as per EIA Notification dated 27th January, 1994 subject to strict compliance of the following

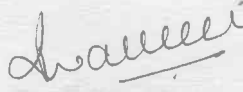
conditions. In addition all conditions stipulated in the Annexure should be strictly adhered to.

- i. *The gaseous emissions (SO₂, Nox, NH₃) and particulate matters, from various process units/ storages should conform to the standards prescribed by the concerned authorities from time to time.*
- ii. *Ambient Air Quality Monitoring Station should be set up in the down wind direction as well as where maximum ground level concentration of SPM, SO₂, NH₃ are anticipated in consultation with the State Pollution Control Board. The monitoring stations should be selected on the basis of mathematical modelling to represent short-term ground level concentration, human settlements, sensitive targets etc*
- iii. *Dust suppression and dust extraction systems should be provided to control fugitive emission at material handling points. Fugitive emission should be regularly monitored and record maintained.*
- iv. *There will be no generation of process effluent. The effluent generated from utilities and domestic waste should be adequately treated before disposal into the sea. As reflected in the EMP, the total effluent discharged into sea should not exceed 800 m³/day. Recommendations of NIO in the marine impact assessment carried out in 1982 should be strictly adhered to.*
- v. *A marine impact assessment study should be carried out to assess the long term impact on the aquatic environment due to disposal of effluent into sea by a nodal/marine/fisheries agency.*
- vi. *Adequate number of influent and effluent quality monitoring stations should be set up in consultation with the State Pollution Control Board. Regular monitoring should be carried out for relevant parameters.*
- vii. *The company must shift from chromate to non-chromate treatment for cooling water not only for the expansion but also for the existing operation to avoid generation of chromium sludge and the time frame should be indicated to the Ministry within 3 months of issue of the letter.*

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

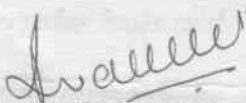
The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution)

Act, 1981, the Environment (Protection) Act, 1986 and the Public Insurance Liability Act, 1991 alongwith their amendments and rules.


(Dr. R. Warriar)
Joint Director

Copy to:-

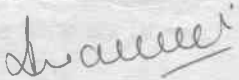
1. Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
2. Chairman, Tamil Nadu Pollution Control Board, 100 Anna Salai, Madras-600032.
3. Chief Conservator of Forests (Central), Regional Office (FZ), Kendriya Sadan, IV Floor, E&F Wings, Office(SZ), 7th Main Road, II Block Koramangala, Bangalore-560034.
4. Secretary, Deptt. of Environment, Government of Tamil Nadu, Fort St. George, Madras-600009.
5. Adviser (EI Division), Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi -110003.
6. Director, Regional Office Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi -110003.
7. Additional Director (Monitoring Cell), Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi -110003.
8. Guard File.
9. Monitoring File.
10. Record File.


Dr. R. Warriar)
Joint Director

ANNEXURE

GENERAL CONDITIONS

- i. *The project authorities must strictly adhere to the stipulations made by the Tamil Nadu Pollution Control Board and the State Government.*
- ii. *No further expansion or modifications in the plant should be carried out without prior approval of the Ministry of Environment and Forests.*
- iii. *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 without bringing the system back to normalcy.*
- iv. *Guard Pond (s) of sufficient holding capacity should be provided to cope up with the effluents discharge during the process disturbance.*
- v. *The hazardous wastes should be handled as per the Hazardous Waste (Management and Handling) Rules, 1989 of the Environment (Protection) Act, 1986.*
- vi. *Green Belt of adequate width and density should be provided to mitigate the effects of fugitive emission all around the plant. A minimum of 25% of the total land acquired should be developed as green belt in consultation with the local DFO. A detailed greenbelt plan should be submitted to the Ministry for review within three months.*
- vii. *Adequate provisions for infrastructure facilities such as water supply, fuel, sanitation etc. should be ensured for construction workers during the construction phase so as to avoid felling of trees and pollution of water and the surroundings.*
- viii. *Occupational Health Surveillance of the workers should be done on a regular basis and records maintained.*
- ix. *The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA and risk analysis report.*
- x. *The project proponent should have a scheme for social upliftment in the nearby village with reference to contribution in road construction, education of children, festivals, health centres, sanitation facilities, drinking water supply, community awareness and employment to local people whenever and wherever possible both for technical and non-technical jobs.*
- xi. *The project authorities will set up separate environmental management cell for effective implementation of all the above stipulations under control of Sr.Executive.*
- xii. *The project authorities will provide adequate funds both recurring and non-recurring to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided should not be diverted for any other purposes.*
- xiii. *The stipulated conditions will be monitored by the Regional Office of this Ministry at Bangalore/Central Pollution Control Board/State Pollution Control Board. A six monthly compliance status report and the monitored data along with statistical interpretation should be submitted to them regularly.*


(Dr.R.Warrier)
Joint Director