

F. No. J-11011/314/2007-IA II (I)
Government of India
Ministry of Environment and Forests
(I.A. Division)

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Dated 31st August, 2007

To,

M/s Coromandel Fertilisers Ltd.
Sriharipuram, Malkapuram,
Visakhapatnam-11
Andhra Pradesh.

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Subject: Expansion of Fertilizer Plant (2,700 MTPD to 3,900 MTPD) at Sriharipuram, Malkapuram, Visakhapatnam, A.P. by M/s Coromandel Fertilisers Ltd. (II) – Environmental Clearance reg.

Sir,

This has reference to your letter No.SHE/MoEF/07-12 dated 2nd April 2007, along with Form-1 and pre-feasibility report seeking environmental clearance for the above project under the Environment Impact Assessment Notification, 2006.

2. The Ministry of Environment and Forests has examined your application and noted that proposal is for environmental clearance for expansion of Fertilizer Plant expansion of Fertilizer Plant (2,700 MTPD to 3,900 MTPD) at Sriharipuram, Malkapuram, Visakhapatnam, A.P. by M/s Coromandel Fertilisers Ltd. Expansion will be done within existing land and no additional land will be acquired.

3. Total cost of the project will be about Rs. 1.50 – 2.00 Crores for process improvements for enhancing the production capacity of the Fertilizer plant. No Sulphuric acid Plant will be installed and additional requirement of Sulphuric acid will be imported. Increase in production will be achieved through technology innovations, process improvements, improving on-stream hours, maximization of equipment capacity and continuous supply of raw materials. No increase in pollution is anticipated. Total usage of fuel oil would be reduced by 4000 TPA with the installation of air pre-heater in granulation plans.

4. Ammonia fumes will be controlled by using strong acid instead of weak acid for scrubbing and dust scrubbers will be provided in granulator off gas duct. Fluorine emissions will be controlled by limiting fluorine input of the plant and using low fluorine

imported acid. SO₂ emissions will be controlled by replacing LSHS based hot air generators with steam-heated pre-heater. The dust load, fluorine and Ammonia from complex fertilizer plant will decrease from 35.80 to 35.46, 4.3 to 3.93 and 143.5 to 138.1 kg/hr respectively.

5. 900 m³/d water will be obtained from Visak Municipal Corporation. All the wastewater generated will be collected and recycled into the process. No wastewater will be discharged and 'zero' effluent will be adopted.

6. Green belt is already developed in 60 acre out of total 445 acre and it is proposed to develop green belt in 10% more area covering almost 25% area..

7. All the Chemical Fertilizer plants have been listed at S. N. 5(a) under Category 'A' and are appraised at the Central level. As per Section 7 (ii) of the EIA Notification, 2006 the proposal is considered without EIA/EMP and public hearing due to expansion of the project in the same location and proposed adequate pollution control measures.

8. Based on the information submitted by you, the Ministry of Environment and Forests hereby accords environmental clearance to above project under the provisions of EIA Notification dated 14th September 2006 subject to the compliance of the following Specific and General conditions:

A. SPECIFIC CONDITIONS :

- i) The expansion of the project shall be based on process improvement , technology innovation , improving on stream hours maximization of equipment capacity and continuous supply of raw materials. No Sulphuric acid and phosphoric acid plant shall be installed for additional requirement of Sulphuric and phosphoric acid. Due to enhancement of production pollution load shall not increase from the existing load.
- ii) The project authorities shall install efficient scrubbing system to control fluorine emission and bag filters for dust control in phosphoric acid plant.
- iii) Multi stage scrubbing system shall be installed to control ammonia and suspended particulate matter in fertilizer plant.
- iv) The project authority shall install dust collection system in fertilizer bagging plant.
- v) The Sulphuric Acid Plant shall be based on double conversion double absorption technology and anodic ally protected acid coolers shall be provided. Start-up scrubbers shall be installed in both Sulphuric acid plant to minimize SO₂ emission during start-up.

- vi) The project authority shall install high efficiency scrubber nozzles, additional tailgas scrubber, improve the scrubber efficiency by optimizing the L/G ratio, install additional cyclones in scrubbing system, install mist eliminators in scrubbers .
- vii) Permission of the competent authority shall be obtained for drawal of additional quantity of 250m³/d existing Tatipudi and Medghaderigedda reservoirs.
- viii) The gaseous emissions (SO₂, SO₃ , NO_x, NH₃, F, fertilizer dust) and particulate matter from various process units shall conform to the standards prescribed by the concerned authorities from time to time. Emission data shall be periodically monitored and reports submitted to Ministry's Regional Office, CPCB and SPCB.
- ix) All the waste waters generated from the various processes shall be recycled/reuse in the plant and zero discharge shall be maintained. The domestic waste water shall be treated in septic tanks and treated waste shall be used for irrigation in the green belt.
- x) The proponent shall not withdraw groundwater for the plant and if it requires, the permission from the competent authority CGWA/SGWB shall be obtained .
- xi) The company shall develop the green belt in atleast 25% land area to mitigate the effect of fugitive emissions and noise as per the guidelines CPCB.
- xii) The company shall implement all the recommendations made in the Charter on Corporate Responsibility for Environmental Protection (CREP) for fertilizer industries

B. GENERAL CONDITIONS :

- (i) The project authorities shall strictly adhere to the stipulations of the SPCB/state government or any statutory body.
- (ii) No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- (iii) At no time, the emissions shall exceed the prescribed limits. In the event of failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.

- (iv) The locations of ambient air quality monitoring stations shall be reviewed in consultation with the State Pollution Control Board (SPCB) and additional stations shall be installed, if required, in the downwind direction as well as where maximum ground level concentrations are anticipated.
- (v) Dedicated scrubbers and stacks of appropriate height as per the Central Pollution Control Board guidelines shall be provided to control the emissions from various vents. The scrubbed water shall be sent to ETP for further treatment.
- (vi) All the storage tanks will be under negative pressure to avoid any leakages. Breather valves, N₂ blanketing and secondary condensers with brine chilling system shall be provided for all the storage tanks to minimize vapour losses. All liquid raw material shall be stored in storage Tanks and Drums.
- (vii) The company shall undertake following Waste Minimization measures.
- Metering and control of quantities of active ingredients to minimize waste.
 - Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
 - Use of automated filling to minimize spillage.
 - Use of "Close Feed" system into batch reactors.
 - Venting equipment through vapour recovery system.
 - Use of high pressure hoses for equipment cleaning to reduce wastewater generation.
- (viii) Fugitive emissions in the work zone environment, product, and raw materials storage area shall be regularly monitored. The emissions shall conform to the limits imposed by the State Pollution Control Boards/Central Pollution Control Board.
- (ix) The project authorities shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended in October, 1994 and January, 2000 and Hazardous Waste (Management and Handling) Rules, 1989, as amended from time to time. Authorization from the SPCB shall be obtained for collection, treatment, storage, and disposal of hazardous wastes.
- (x) The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- (xi) The company shall develop rain water harvesting structures to harvest the run off water for recharge of ground water.