

By Speed Post



भारत सरकार
पर्यावरण एवं वन मंत्रालय
Government of India
Ministry of Environment & Forests
(IA Division)

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F. No. J-11011/1303/2007-IA-II(I)

Dated : June 11, 2008

To

M/s. Coromandel Fertilizers Limited
Kakinada, East Godavari Dist.,
Andhra Pradesh

godavari@gfcl.murugappa.com

Sub: Enhancement of Complex fertilizer plant capacity from 3200 MTPD to 4500 MTPD in the existing facility at Kakinada, East Godavari Dist., Andhra Pradesh by M/s. Coromandel Fertilizers Limited – Environmental Clearance reg.

Sir,

This has reference to your letter No. Nil dated 17th December, 2007 along with Form-1 and pre-feasibility project report seeking environmental clearance for the above project under the Environment Impact Assessment Notification, 2006.

2. The Ministry of Environment and Forests has examined the application and noted that proposal is for environmental clearance for enhancement of Complex fertilizer plant capacity from 3200 MTPD to 4500 MTPD in the existing facility at Kakinada, East Godavari Dist., Andhra Pradesh by M/s. Coromandel Fertilizers Limited. The total area of the plant is located in 696 acres. The Capital and recurring cost earmarked for environmental protection measures are Rs.50 Lakhs and Rs. 10 Lakhs per year respectively. The details of final product and their production capacities are as given below:

Sl.No.	Product	Capacity (MTPD)
1	D.A.P. & N.P.K. Fertilisers	4500
2	Water-soluble fertilizers	100
3	Sulphate of Potash fertilizers	5

3. The raw material requirement of the plant will be Ammonia, Phosphoric acid, Sulphuric acid, Urea, Potash, and River sand which will be met through imports. All wastewater generated are collected and recycled in to the process. Hence zero effluent discharge will be maintained. Additional 300 m³ water per day will be required for enhanced capacity. High efficiency cyclones followed by acid scrubbing in dryer and cooler circuits will be installed to control the dust. All dust generation units shall be connected to cyclones and scrubbed with acid to control the particulate emission. Stand-by cyclones will be installed to control extra load during upset conditions. Fumes from the reactor and granulator are scrubbed in a series of scrubbers such as pre-scrubber and main scrubber with weak acid and the scrubber liquor is recycled back to the reactor. The scrubbing facilities are also provided with dryer and cooler. All gases pass through tail-gas scrubber for removal of residual pollutants. All the solid wastes generated from air pollution control equipment and cleaning system will be recycled back.

4. All the Chemical Fertilizer plants have been listed at Sl. No. 5(a) under Category 'A' and appraised at the Central level in its 81st meeting of Expert Appraisal Committee (Industry) held during 12th - 14th May, 2008. Public hearing/public consultation is dispensed with as per para 7(ii) of EIA Notification, 2006.

5. Based on the information submitted, 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 project authorities shall treat the waste water generated from all sources and recycle back to maintain zero discharge condition.
- ii) The project authority shall obtain fresh concurrence for drawl of additional 300 KLD water from the existing summer storage tanks at Samalkot, East Godavari District, A.P. from the concerned authority.
- iii) The project authorities shall not manufacture the raw materials in the existing plant premises as there will be imported.
- iv) Multi stage scrubbing system shall be installed to control ammonia and suspended particulate matter in fertilizer plant. The project authority shall install dust collection system in fertilizer bagging plant.
- v) The project authority shall install high efficiency scrubber nozzles, tailgas scrubbing system, install additional cyclones in scrubbing system along with mist eliminators in scrubbers.



- vi) The company shall develop the green belt in 350 acres, out of total area of 696 acres to mitigate the effect of fugitive emissions and noise as per the guidelines CPCB.
- vii) The company shall implement all the recommendations made in the Charter on Corporate Responsibility for Environmental Protection (CREP) for fertilizer industries.
- viii) Occupational health surveillance of the workers shall be carried out on a regular basis and records shall be maintained as per the Factories Act.
- ix) Risk assessment shall be carried out and report shall be submitted to SPCB and CPCB and to the Ministry's Regional Office at Bangalore.
- x) The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.
- xi) During transfer of materials, spillages shall be avoided and garland drains be constructed to avoid mixing of accidental spillages with domestic waste and storm drains.

B. GENERAL CONDITIONS :

- (i) The project authorities shall strictly adhere to the stipulations of the SPCB/state government or any statutory body.
- (ii) The gaseous emissions (SO₂, SO₃, NO_x, NH₃, 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.
- (iii) 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.
- (iv) 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.
- (v) 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.

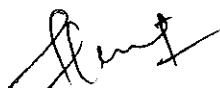
- (vi) The locations of ambient air quality monitoring stations shall be reviewed in consultation with the State Pollution Control Board (SPCB) and additional stations shall be installed, if required, in the downwind direction as well as where maximum ground level concentrations are anticipated.
- (vii) 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.
- (viii) 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.
- (ix) 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.
- (x) 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.
- (xi) 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.
- (xii) 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).



- (xiii) The company shall develop rain water harvesting structures to harvest the run off water for recharge of ground water.
- (xiv) The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment. The eco-development plan should be submitted to the SPCB within three months of receipt of this letter for approval.
- (xv) The project proponent shall also comply with all the environmental protection measures and safeguards proposed in the EIA/EMP report.
- (xvi) A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- (xvii) The project authorities shall earmark adequate funds 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 shall not be diverted for any other purpose.
- (xviii) The implementation of the project vis-à-vis environmental action plans shall be monitored by the concerned Regional Office of the Ministry/SPCB / CPCB. A six monthly compliance status report shall be submitted to monitoring agencies and shall be posted on the website of the Company.
- (xix) The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry at <http://envfor.nic.in>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.
- (xx) The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.

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

7. The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.



8. Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Authority Act, 1997.

9. The above conditions will be enforced, inter-alia under the provisions of the Water(Prevention & Control of Pollution) Act,1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 Hazardous Wastes (Management and Handling) Rules, 2003 and the Public Liability Insurance Act, 1991 along with their amendments and rules.


(H. S. Malviya)
Joint Director

Copy to :-

1. The Secretary, Department of Environment and Forests, Govt. of Andhra Pradesh, Mantralaya, Hyderabad, A.P.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110032.
3. The Chairman, Andhra Pradesh State Pollution Control Board, Paryavaran Bhavan, A-3, Industrial Estate, Sanathnagar, Hyderabad 500 018, A. P.
4. The Chief Conservator of Forests (Central), Ministry of Environment & Forest, Regional Office (SZ), Kendriya Sadan, IVth Floor, E & F Wing, 17th Main Road, Koramangla, Bangalore - 560 034, Karnataka.
5. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi-110003.
6. Guard file.
7. Record file
8. Monitoring file.


(H.S. Malviya)
Joint Director