

F. No. J-11011/105/2007- IA II (I)
Government of India
Ministry of Environment and Forests
(I.A. Division)

Paryavaran Bhawan
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New Delhi – 110 003

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Telefax : 011: 2436 7668
Dated 18th July, 2007



To,
✓ M/s Mangalore Chemicals & Fertilizers Ltd.
Panambur, Mangalore – 575018
Karnataka

E-mail : admin_wo@mangalorechemicals.com ; Fax No. : 0824-2407938

Subject : Revamping of Di-ammonium Phosphate (DAP) Fertilizer Plant (2,55,500 TPA to 4,01,500 TPA) at Panambur, Mangalore, Dakshina Kannada, Karnataka by M/s Mangalore Chemicals and Fertilizers Ltd. – Environmental clearance reg.

Sir,

Kindly refer your letter no. 10602/ENVCLR/151 dated 22nd December, 2006 alongwith project documents including Form-I, Pre-feasibility Report and draft 'Terms of Reference' as per the EIA Notification, 2006 and subsequent clarifications furnished vide communications dated 14th February, 2007 and 20th March, 2007 and 29th March, 2007 regarding above mentioned fertilizer project.

2.0 The Ministry of Environment & Forests has examined the application. It is noted that proposal is for the Revamping of Di-ammonium Phosphate (DAP) Fertilizer Plant (2,55,500 TPA to 4,01,500 TPA) at Panambur, Mangalore, Dakshina Kannada, Karnataka by M/s Mangalore Chemicals and Fertilizers Ltd. Proposed higher production will be achieved by adopting pipe reactor system, addition new raw material handling system, replacement / modification of some of the existing equipment and by increasing the number of operating hours by improved operating and maintenance practices. Total existing area is 192 acres and expansion will be carried out at the existing site only and no additional land will be required. Site is not located in any sensitive or critically polluted area.

3.0 Slight increase in air pollution load in respect of SPM is anticipated due to increase in stack gas flow but will be within permissible limits of KSPCB i.e. 150 mg/Nm³. Existing SPM level are 85 mg/Nm³. Fluorine levels are within 5 mg/Nm³ against the limit of 25 mg/Nm³. Off gases from pre-neutralizer and granulator will be scrubbed to recover Ammonia. Additional de-dusting points will be connected to the existing de-dusting system to reduce overall dust level in the plant. 3 new cyclones will be added to improve the dust recovery. No additional fresh water will be required. No effluent will be discharged after expansion due to reuse of effluent from Ammonia and chemical plant in process for scrubbing purpose. No solid waste will be generated since spillages from various points will be recycled back to the granulator through recycle

conveyor. Sulphur cake (200 kg/day) generated from Sulphuric acid plant will be used in DAP plant as filler material. Fuel consumption will come down due to use of exothermic heat in the process.

4.0 In view of these features of the proposed expansion, the Expert Appraisal Committee recommended the proposal for environmental clearance requiring no EIA and public consultation as per the provisions of section (para) 7 (ii) of the EIA Notification, 2006. Total cost of the project is Rs. 12.50 Crores.

5.0 The Ministry of Environment and Forests hereby accords environmental clearance to the above unit under the EIA Notification, 2006 subject to the compliance of the terms and conditions mentioned below :

A. SPECIFIC CONDITIONS :

- i. The gaseous emissions (SO₂, NO_x, NH₃, Urea dust, Fluorine) particulate matter from various process units shall conform to the standards prescribed by the concerned authorities from time to time. At no time, the emission levels shall go beyond the stipulated standards. In the event of failure of pollution control system(s) adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.
- ii. Ambient air quality monitoring stations shall be set up in the downwind direction as well as where maximum ground level concentration are anticipated in consultation with the Karnataka State Pollution Control Board (KSPCB) and data submitted to the Ministry's Regional Office at Bangalore six monthly and KSPCB quarterly alongwith statistical analysis.
- iii. Air pollution control system viz. cyclones, wet scrubbers, mist eliminators, ventury scrubber shall be provided to control gaseous emissions within permissible limits of KSPCB i.e. 150 mg/Nm³. The off gases from pre-neutralizer and granulator shall be scrubbed in fume scrubber to recover Ammonia. Additional de-dusting points shall be connected to the existing de-dusting system to reduce overall dust level in the plant.
- iv. Total water requirement is presently met from River water supplied by Mangalore City Corporation and no additional fresh water will be required. No effluent shall be discharged due to reuse of effluent from Ammonia and chemical plant in process for scrubbing purpose. All the plant washings and other draining liquids will be collected in sump tank and reused in the process. No effluent shall be discharged from DAP Plant too.
- v. Prior clearance under the Coastal Regulation Zone (CRZ) shall be obtained from the State / Central Govt. for the disposal of treated effluent into the Sea.
- vi. Regular monitoring of ground water by installing peizometric wells around the guard pond and sludge disposal site shall be periodically monitored and reports submitted to Ministry's Regional Office at Bangalore, CPCB and KSPCB.
- vii. Gypsum produced as a by-product from phosphoric acid plant shall be utilized in cement industries as a retarder as well as soil conditioner for agricultural use. Waste oil shall be sold to the authorized recyclers / reprocessors.

- viii. All the spillages from various points shall be effectively collected and recycled back to the granulator through recycle conveyor and no solid waste shall be generated. Sulphur cake generated from Sulphuric acid plant shall be used in DAP plant as filler material.
- ix. The company shall adopt rainwater harvesting measures to reduce requirement of the fresh water.
- x. Green belt developed in 45 acres (60 %) out of total ¹⁹² ~~75~~ acres area shall be properly maintained to mitigate the effects of fugitive emissions all around the plant as per the Central Pollution Control Board guidelines.
- xi. 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 must strictly adhere to the stipulations made by the Karnataka State Pollution Control Board and the State Government.
- ii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.
- iii. Adequate number of influent and effluent quality monitoring stations shall be set up in consultation with the KSPCB. Regular monitoring shall be carried out for relevant parameters.
- iv. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report.
- v. Rs. 165.00 Lakhs and Rs. 24.00 Lakhs earmarked towards capital cost and recurring cost/annum for environmental pollution control measures respectively shall be judiciously utilized to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government and an implementation schedule to implement all the conditions stipulated herein shall be submitted to the Ministry's Regional Office at Bangalore and KSPCB. The funds so provided shall not be diverted for any other purpose.
- vi. The implementation of the project vis-à-vis environmental action plans will be monitored by Ministry's Regional Office at Bangalore / KSPCB / Central Pollution Control Board. A six monthly compliance status report shall be submitted to monitoring agencies.
- vii. The Project Proponent shall advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the Karnataka State Pollution Control Board / Committee and may also be seen at Website of the Ministry and Forests at <http://envfor.nic.in>. The advertisement shall be made within 7 days from the date of issue of the clearance

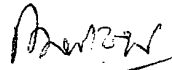
letter and a copy of the same shall be forwarded to the Ministry's Regional Office at Bangalore.

- viii. 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 land development work.

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


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

8.0. 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.


(Dr. P. B. Rastogi)
Additional Director

Copy to :-

1. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi -110032.
2. The Chairman, Karnataka State Pollution Control Board, 6,7,8 & 9th Floor, (Public Utility Building) Subhas Chandra Bose Building, M.G. Road, Bangalore - 560001, Karnataka.
3. The Chief Conservator of Forests (Central), Regional Office (SZ), Kendriya Sadan, IVth Floor, E&F Wing, 17th Main Road, Koramangala, Bangalore-560034.
4. The Secretary, State Department of Environment & Forests, Government of Karnataka Bangalore.
5. JS (CCI-I), Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi. - 110003.
6. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi- 110003.
7. Guard file.
8. Monitoring file.
9. Record file.


(Dr. P. B. Rastogi)
Additional Director