

Government of India
Ministry of Environment & Forests
I. A. Division

Ref. No. J-11011/112/2007-IA II (I)

Dated 1st August, 2007

Sub: Expansion of Fertilizer Plant by De-bottlenecking (Urea 3,000 MTPD to 3,200 MTPD & Ammonia 1,750 MTPD to 2000 MTPD) at Babrala, Badaun, U. P. by M/s Tata Chemicals Ltd. - Environmental Clearance reg

1 The Ministry of Environment & Forests has examined the application. It is noted that MIs Tata Chemicals Ltd have proposed for the expansion of Fertilizer Plant by De-bottlenecking (Urea 3,000 MTPD to 3,200 MTPD) & Ammonia (1,750 MTPD to 2000 MTPD) at Babrala, Badaun, U. P. as per the details given below:

S. No	By products & Intermediates	Existing (MTPD)	Proposed activity New / modernization	Total (MTPD)
1.	Main Products (Urea)	2620 + 15%	880 + 15%	3500 + 15%
2.	By Products	Nil	Nil	Nil
3.	Intermediate (Ammonia)	1520 + 15%	480 + 15%	2000 + 15%

2 Environmental clearance for the existing plant has been accorded by the Ministry vide letter no. J-11011/4/88 IA II (I) dated 16th June 1989 and for subsequent expansion vide letter no. J-11 011/28194 IA II (I) dated 16th May 1996. De-bottlenecking I expansion at the project will be carried out in the existing 615.3 ha. of UPSIDC land. No national park or wildlife sanctuary is located within 7 km. No R & R is involved.

3 Natural gas (2.58 MMSCMD) and Naphtha (776 MS m3/d) will be used as raw material.

4 Pubic hearing meeting was held on 21st December 2004. No Objection Certificate has been accorded by the UPPCB vide letter no. F 47374/C-5/NOC-67/2005/38 dated 9th June, 2005. Total cost of the project is Rs 33.43 Crores.

5 The Ministry of Environment and Forests hereby accords environmental clearance to the above unit in terms of provisions of Section (Para) 12 of EIA Notification, 2006 read with Para 2.0, 2.1, 2.1.1 (i) of the Interim operational guidelines issued by the Ministry on 13th October, 2006 subject to the compliance of the following specific and general conditions:

A. SPECIFIC CONDITIONS:	
EC Condition	Compliance Status As On 01 April 2010
The gaseous emissions (SO ₂ , NO _x , NH ₃ , Urea dust) 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.	We agree. All flue gas emissions from process stacks are monitored on weekly basis and conform to the stipulated standards laid down by SPCB / CPCB. All compliance reports are submitted to SPCB and MoEF (RO) periodically).
In urea plant, particulate emissions shall not exceed 50 mg/m ³ . Monitoring of prilling tower shall be carried out as per the CPCB guidelines. Hydrocarbon monitors shall be installed. Acid fume blower shall be provided to control fugitive emissions. Stripper in Ammonia Plant, Distillation & Urea Hydrolyser in Urea Plant shall always be kept functional to strip Ammonia and Urea.	Prilling tower emission monitoring is being carried out on weekly basis as per CPCB Emission guidelines & quality conforms to the CPCB standard (50 mg/nm ³). Hydrocarbon monitors have been provided at key locations in ammonia and O&U plant Acid fume blower has been provided in Acid Handling & Storage area. Stripper of ammonia plant and Distillation Tower & Hydrolyser are used for treatment of process condensates generated from ammonia & urea plant
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 UPPCB and data submitted to the Ministry's Regional Office at Lucknow six monthly and UPPCB quarterly along with statistical analysis.	05 Ambient air quality monitoring have been setup and in which 03 stations are located to 120° to each other as directed in earlier NOC conditions. Air quality monitoring is being done twice per week & compliance reports are also being submitted to SPCB and MoEF (RO) periodically.
Total ground water requirement after expansion shall not exceed 45,340 m ³ /day and prior permission from SGWB / CGWA for the drawl of 45,340 m ³ /day shall be obtained. Condensate in Ammonia and urea plant shall be treated in DM Plant and recycled in the process as boiler feed water. Further efforts shall be made to recycle and reuse all the treated effluent in the process or for green belt development. Prior permission for the discharge of treated liquid effluent, if any, shall be obtained from the U. P. Pollution Control Board. Otherwise, no effluent shall be discharged outside the premises except during the rainy season after meeting the norms prescribed under the E (P) Act, 1986 and UPPCB whichever are more stringent.	We agree. Approval from SGWB for drawl of ground water has been taken and copy of the same is already submitted to your office. All process condensates from ammonia, urea & steam are recycled as boiler feed water and balance waste water after suitable treatment in ETP is used irrigation of green belt. Every year consent for discharge of treated effluent has been taken from SPCB.

Regular and periodical monitoring of quality and level of ground water by installing peizometric wells around the guard pond and spent catalyst disposal site shall be carried out and reports submitted to Ministry's Regional Office at Lucknow, CPCB and UPPCB.	03 Peizometer well have been installed to monitor the level of ground water and quality. Water samples are collected from hand pumps located in and around the fertilizer complex. Ground water quality and water level report are being submitted to MoEF (RO), CPCB and SPCB periodically.
Spent catalysts generated shall be properly stored in properly concreted LDPE lined disposal pit before selling to authorized recyclers / reprocessors. Waste oil shall be sold to authorized recyclers / reprocessors.	Spent catalyst & Used oil are stored on LDPE lined concrete floor and are being disposed only to authorized vendors.
The company shall undertake adequate protection measures for handling of ammonia vapours in case of plant upset condition. Safety valve exhaust and drains shall be connected to a separate close header from which ammonia vapours shall be vented from vent stack after diluting with stream.	We agree. Adequate measures have been provided to handle the ammonia vapours in case of emergency and all PSVs and drains are connected to flare and vent stacks accordingly.
The company shall implement all the recommendations made in the Charter on Corporate Responsibility for Environmental Protection (CREP) for fertilizer industries.	We agree. All CREP requirements pertaining to fertilizer industry have been implemented and compliance report is being submitted to MoEF (RO) periodically.
The company shall develop rainwater harvesting structures to harvest the run off water from the roof tops and by laying a separate storm water drainage system for recharge of ground water.	Rain water harvesting system has been develop to collect the runoff water from storm water drains. Development of Ground water recharge system is being assessed for its feasibility.
Green belt already developed in 28.7 % (144 ha, out of 502 ha.) shall be properly maintained and an effort shall be made to further increase the percentage by regularly planting trees at all the vacant spaces to achieve green belt in at least 33 % area to mitigate the effects of fugitive emissions all around the plant as per the Central Pollution Control Board guidelines. Density of trees at the site shall be maintained as 2,000-2,500 trees/ha.	About 35% area of total land inside the factory complex is under green cover containing more than 2.7 lacs tree. A dedicate team headed by Horticulturist is taking care the maintenance of green belt and other land scaping. Every year about 5000 tree plantation target is being taken to increase and maintain the green cover.
B. GENERAL CONDITIONS:	
EC Condition	Compliance Status As On 01 April 2010
The project authorities must strictly adhere to the stipulations made by the U.P. Pollution Control Board (UPPCB) and the State Government.	We agree. All stipulations made by SPCB have been implemented and complied. Compliance reports for the Air, Water and Hazardous waste are being submitted regularly.
No further expansion/modifications in the plant shall be carried out without prior approval of the	We agree.

Ministry of Environment and Forests.	
The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Wastes (Management & Handling) Rules, 2003.	We agree.
The project proponent shall also comply with all the safeguards recommended in the EIA /EMP Report.	We agree.
The project authorities will set up a separate environmental management cell for effective implementation of all the above stipulations under control of Senior Executive.	A dedicated Environment Management Cell headed by Head - Fertilizer Business has been established to ensure the all stipulated compliances.
As proposed in EIA/EMP, Rs. 150.00 Crores for de-bottlenecking and Rs. 0.80 Crores for recurring cost/annum for environmental pollution control measures shall be utilized judiciously to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government and a time bound implementation schedule for all the conditions stipulated herein shall be submitted to the Regional Office of this Ministry at Lucknow. The funds so provided shall not be diverted for any other purposes.	An annual budget for Capital investment & Revenue expenditure is taken every year. This amount is utilized for plant / operational improvement and maintenance of EMS . About Rs. 1.5 Crore utilized during the year 2008-09 for implementation of operational improvements / modification, maintenance of horticulture / environmental management system and implementation of other control measures stipulated by MoEF / SPCB.
The Regional Office of this Ministry at Lucknow / Central Pollution Control Board/ U. P. Pollution Control Board will monitor the stipulated conditions. A six monthly compliance status report and the monitored data along with statistical interpretation shall be submitted to monitoring agencies regularly.	We agree
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 U. P. Pollution Control Board / Committee and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in . This should 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 Regional office at Lucknow.	A public notice has been given to all through publishing the news for accord of environment clearance for debottle-neck of fertilizer plant at Babrala.

<p>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 commencing the land development work, if any.</p>	<p>We agree. All information have been submitted to MoEF (RO) vide our letter no. TCL/FW/27/2009 dated 17 April 2009.</p>
<p>The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.</p>	<p>We agree</p>
<p>The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner will implement these conditions.</p>	<p>We agree</p>
<p>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, Hazardous Wastes (Management and Handling) Rules, 2003 and the Public Liability Insurance Act, 1991 along with their amendments and rules.</p>	<p>We agree</p>