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**Government of India**  
**Ministry of Environment & Forests**  
**(IA Division)**

F. No. J-11011/850/2008-IA-II (I)

**M/s Tata Chemicals Ltd.**

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Dated: February 2, 2009

**Sub: Expansion of the fertiliser plant by setting up of a customized fertilizer plant (20 TPH NPK) at Urea Fertilizer Complex, Tata Chemicals Limited, Babrala, Distt. Badaun, Uttar Pradesh by M/s Tata Chemicals Ltd. – Environmental Clearance reg.**

This has reference to your letter no. TCL/FD/EMC/2008 Dated 13th September, 2008 along with Form 1 and Customized Fertilizer 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 proposal and noted that proposal is for environmental clearance for expansion of the fertiliser plant by setting up of a customized fertilizer plant (20 TPH NPK) at Urea Fertilizer Complex, Tata Chemicals Limited, Babrala, Distt. Badaun, Uttar Pradesh by M/s Tata Chemicals Ltd. The total cost of the project will be Rs. 54.78 Crores. The total land required for the unit will be 0.8035 ha. The production capacity of the plant will be Customized Fertiliser - NPK 20 TPH.
- 3 Emissions will be from burning of fuel oil in rotary dryer which will be controlled by dust collector followed by stack. Vent gases mainly containing ammonia and hydrochloric acid generated from granulator will be scrubbed in scrubber with water. Ammonia is dissolved in water and the solution is sprayed in granulator. The total water requirement for the proposed plant will be 37 KLD which will be sourced from ground water with existing facilities. No effluent generation is anticipated from the proposed project. The utilities required would be tapped off from the existing complex at Babrala.
- 4 The project activity is listed at Sl. No. 5(a) under Category 'A' and appraised at the Central level by the Expert Appraisal Committee (Industry) in its 89th meeting held during 22nd – 23rd December, 2008. Public hearing/public consultation is exempted as per para 7(ii) of the 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:**

	<b>EC Condition</b>	<b>Compliance Status</b>
i	The projects authorities shall treat the waste water generated from all sources and recycle back in the process to maintain zero discharge condition. No utilities shall be developed for this project.	We agree. No waste water will be generated from process other than water generated from scrubbing system and same will be reused for maintaining the moisture content in product.

	<b>EC Condition</b>	<b>Compliance Status</b>
ii	The project authority shall obtain prior permission for drawl of 37 KLD ground water from the Central Ground Water Authority/State Ground Water Board. A copy of permission shall be submitted to the Ministry's Regional Office at Lucknow.	We agree. Water will be drawn from existing ground water system being used for urea fertilizer plant and no additional bore-well will be installed. Water usage requirement is only 37 KLD and as per CGWA water withdrawal guideline, for less than 2000 M <sup>3</sup> /day water requirement in safe category area, NOC from CGWB will not be required.
iii	The project authorities shall not manufacture the raw materials as this plant will be based on mixing process only.	We agree. Raw material will be procured from outside and only mixing will be done at site.
iv	Multi stage scrubbing system shall be installed to control ammonia and Hydrochloric acid. The project authority shall install dust collection system in drier, fertilizer mixing and bagging plant to control particulate emissions.	We agree. Air pollution control system comprising scrubbers & dust collectors will be installed to control fugitive emissions.
v	The company shall carry out air quality monitoring at vents / stacks and regular monitor the gaseous emissions along with particulate matter. The reports shall be submitted to the Ministry's Regional Office at Lucknow, CPCB and SPCB.	We agree. Stack emission quality will be monitored for gaseous emissions & particulate matter and monitoring report will be submitted to CPCB, MoEF (RO) and SPCB.
vi	The ambient air quality shall be monitored at least at 3 locations, minimum one in down wind direction. The location of monitoring stations shall be selected in consultation with the State Pollution Control Board,	We agree. Industry has already provided 5 ambient air quality monitoring stations in consultation with SPCB.
vii	The company shall develop the green belt in 33% area, out of total area to mitigate the effect of fugitive emissions and noise as per the guidelines CPCB.	We agree. Company has developed a green belt covering more than 33% of area inside the factory complex, which helps in mitigation of fugitive emission and act as noise barrier.
viii	The company shall implement all the recommendations made in the Charter on Corporate Responsibility for Environmental Protection (CREP) for fertilizer industry.	We agree. TCL has already implemented the recommendations of CREP requirements for fertilizer industry.
ix	Occupational health surveillance of the workers shall be carried out on a regular basis and records shall be maintained as per the Factories Act.	We agree. Occupational health surveillance of direct & in-direct employees has been done periodically and records are maintained as required under the Factory Act.
x	Risk assessment shall be carried out and report shall be submitted to SPCB and CPCB and to the Ministry's Regional Office at Lucknow.	Risk assessment considering emergency conditions arising due to fertilizer plant operation has been done. Risks related to Customized Fertilizer have been identified and draft QRA is under review.
xi	The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.	We agree. Fire management system like fire hydrants, fire extinguishers and fire alarms will be provided for control of fire hazards in the plant area.
xii	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.	We agree. Garland / closed drains will be provided in side the plant to avoid accidental mixing of process effluents (if any) with storm water drains.

	<b>EC Condition</b>	<b>Compliance Status</b>
xiii	The company shall comply with all the conditions mentioned in the environmental clearances issued vide letters no. J-11011/4/88-IA-II dated 16th June 1989, J-11011/28/94-IA-II(I) dated 16th May, 1996 and J-11011/112/2007-IA-II(I) dated 1st August, 2007.	We agree. All compliances of conditions laid in all clearances issued vide letters no. J-11011/4/88-IA-II dated 16th June 1989, J-11011/28/94-IA-II(I) dated 16th May, 1996 and J-11011/112/2007-IA-II(I) dated 1st August, 2007 have being complied.
xiv	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, Safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	We agree. All necessary infrastructure and facilities shall be provided for project construction labours.
<b>B. GENERAL CONDITIONS :</b>		
	<b>EC Condition</b>	<b>Compliance Status</b>
i	The project authorities shall strictly adhere to the stipulations of the SPCB/state government or any statutory body.	We agree. All statutory requirements laid by SPCB / state government or any statutory body will be complied and compliance report will be submitted periodically.
ii	The gaseous emissions (SO <sub>2</sub> , HCl, NO <sub>x</sub> , NH <sub>3</sub> , 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.	We agree. All applicable statutory standards laid for relevant emissions will be adhered and compliance reports will be submitted periodically.
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.	We agree. All process waste water generated (if any) shall be recycled and reused in the plant. Treated domestic waste water will be used for irrigation of green belt and during rainy season, same may be discharged into seasonal river flowing outside the factory complex.
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.	We ensure that any expansion, modernization or changes in plant and etc will be done after obtaining prior approval from MoEF.
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.	We agree. All statutory standards laid will be strictly adhered.

	<b>EC Condition</b>	<b>Compliance Status</b>
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.	05 Ambient air quality monitoring have been setup and in which 03 stations are located to 120° to each other. All stations have been approved by SPCB. Air quality monitoring is being done twice per week & compliance reports are also being submitted to SPCB and MoEF (RO) periodically.
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.	We agree. Appropriate stack height will be provided to control the emissions. The scrubbed water will be reused in the process during mixing of raw material for maintaining the moisture content of the product.
viii	All the storage tanks will be under negative pressure to avoid any leakages. Breather valves, N2 blanketing & 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.	There will not be any storage tank in customized fertilizer plant. All precautions will be taken if any storage will be done in tanks and drums.
ix	The company shall undertake following Waste minimization measures. <ul style="list-style-type: none"> <li>&gt; Metering and control of quantities of active ingredients to minimize waste.</li> <li>&gt; Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.</li> <li>&gt; Use of automated filling to minimize spillage.</li> <li>&gt; Use of "Closed Feed" system into batch reactors.</li> <li>&gt; Venting equipment through vapour recovery system.</li> <li>&gt; Use of high pressure hoses for equipment cleaning to reduce wastewater generation.</li> </ul>	We agree. All necessary control measures will be provided to minimize / recycle / reuse the waste generated.
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.	We agree. Work zone monitoring will be done for fugitive emissions and shall be conforming to SPCB / CPCB norms if any.
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.	We agree.

	<b>EC Condition</b>	<b>Compliance Status</b>
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).	We agree.
xiii	The company shall develop rain water harvesting structures to harvest the run off water for recharge of ground water.	Rain water harvesting system has been developed for collection of rain water and natural 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.	We agree. The various community development measures have already been done for local community of surrounding areas of project site.
xv	The project proponent shall also comply with all the environmental protection measures and safeguards proposed in the EIA/EMP report.	We agree.
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.	A separate Environment Management Cell equipped with all necessary facilities has been established to carry out the EMS monitoring.
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.	We agree. The adequate amount of funds allocated separately shall be used for implementation of stipulated conditions.
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.	We agree.

	<b>EC Condition</b>	<b>Compliance Status</b>
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 <a href="http://envfor.nic.in">http://envfor.nic.in</a> . 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.	We agree. Public notice has already been done through advertisement in two local newspapers. Please refer Annexure-4.
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.	We agree.
xxi	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	We agree.
xxii	The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.	We agree.
xxiii	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.	We agree.
xxiv	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.	We agree.