

**NAME OF PROJECT –** Indo Gulf Fertilisers (A Unit of Aditya Birla Nuvo Ltd.)

**CLEARANCE LETTER NO.:** J 11011/314/2006-IA-II(I) issued on 13.7.2007

**PERIOD OF COMPLIANCE LETTER -** Oct'07 – Mar'08

**A - SPECIFIC CONDITIONS**

<b>S.NO.</b>	<b>CONDITION</b>	<b>COMPLIANCE STATUS</b>
i	There shall be no addition of air pollution load to the expansion.	Letter submitted on 6.9.2007 to MOEF to amend the condition. Response awaited.
ii	The gaseous emissions (SO <sub>2</sub> NO <sub>x</sub> NH <sub>3</sub> HC, VOC, Urea Dust & Fluoride) and particulate matter from various process units shall conform to the prescribed norms by the concerned authorities from time to time. At no time, the emission levels shall go beyond the stipulated standards. The stack height shall be as per the CPCB guidelines. 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. Further, the company shall interlock the production system with the pollution control devices.	<p>Since VOC &amp; F are not applicable to us due to use of clean fuel. However, Analysis of Fluoride &amp; VOC has been started on quarterly basis through authorized laboratory till amendment in condition. Monitoring of other parameters is already in practice.</p> <p>Safety interlock system is in place to take care of safety of man, machine, material, process, equipment and environment. This safety interlock system will safely shutdown the section of the plant / whole plant / any machine if any parameter goes beyond the set parameters as prescribed by OEM / technology supplier.</p> <p>Letter submitted on 6.9.2007 to MOEF to amend the condition. Response awaited.</p>
iii	To limit various pollutants within the prescribed limits multiple scrubbing systems along with a stack of 50 m shall be provided. The stack height of DG sets will be 13 m.	<p>Being a natural gas based plant, a very clean raw materials, technology supplier has not provided any scrubbing system. The existing stack height of DG sets is already as specified in the condition.</p> <p>Letter submitted on 6.9.2007 to MOEF to amend the condition. Response awaited.</p>
iv	In Urea Plant particulate emissions shall not exceed 50 mg/nm <sup>3</sup> . Monitoring of Prilling Tower shall be carried out as per the CPCB Guidelines. Hydrocarbon Monitors shall be installed.	No possibility of presence of Hydrocarbon in the prilling tower. Letter submitted on 6.9.2007 to MOEF to amend the condition. Response awaited.
v	Regular monitoring of ambient air quality shall be carried out. The location of existing ambient air quality monitoring stations shall be reviewed in consultation with the state Pollution Control Board	Letter submitted to SPCB on 20.9.2007 to review the existing AAQ stations. Inspection by SPCB team completed.

	Control Board and additional stations shall be set up if required. It shall be ensured that stations are in the downwind directions as well as where maximum ground level concentration are anticipated.	
vi	Fugitive emissions in the bagging plant shall be controlled through two wet de-dusting systems. Urea dust laden air from various dust emission points will be sucked through and sent to the venturi scrubbers. The scrubber liquor will be sent for urea recovery system and urea plant. Cyclone separators/Bag Houses will be provided at transfer points for controlling dust. Dust collected at these points will be reprocessed in the urea plant.	Wet de-dusting system is in place & working satisfactorily. Dust collected at different points is reprocessed in Urea plant.
vii	The fugitive emissions in the work zone environment, product, raw material storage area shall be regularly monitored as per the guidelines of CPCB and data shall be submitted to the concerned authorities. The fugitive emission shall be controlled and conform to the limits prescribed by the CPCB in future.	Ammonia & SPM are being monitored around work place area as per schedule and reports are being submitted to concerned authorities on monthly basis.
viii	Total water requirement shall not exceed 905 m <sup>3</sup> /hr which will be sourced from River Gomti and deep borewell. A copy of the water withdrawal permission shall be submitted to the Ministry.	In EC application, we have given expected industrial water consumption of 905 M <sup>3</sup> /hr (sp. water consumption 6.46 M <sup>3</sup> /Te) & it does not include domestic water consumption. Due to shut down of the plant, the Sp. water consumption increases more than 7 M <sup>3</sup> /Te of Urea. Hence, Letter submitted on 6.9.2007 to MOEF for amendment in condition. Response awaited.
ix	The total wastewater generation shall not exceed 4680 m <sup>3</sup> /d. 61 m <sup>3</sup> /hr will be the additional effluent. The effluent shall be treated as per the discharge standards under E(P)Act 1986 and/or provided by the State Board, whichever is most stringent. The treated effluent shall be reused in the process and for Green Belt development. The Unit shall endeavour to achieve zero water discharge.	Effluent discharge standard is strictly followed & Efforts are being done to maximize reuse of effluent in greenbelt area. Irrigation lines are further extended in township to maximize the reuse of treated effluent.
x	Regular monitoring of ground water by installing piezometric wells around the guard pond and sludge disposal sites shall be periodically monitored and report shall be submitted to the concerned Regional Office of the Ministry, CPCB and SPCB.	Three piezometers are already installed as per guidelines of Ground Water Department in the factory complex and six monthly reports are submitted to concerned agencies.
xi	No solid waste shall be generated from the expansion project. Activated carbon, Spent Catalysts and Used Oil will be	Used oil & spent catalyst generated in the process were sold to authorized reprocessors in above period.

	stored in HDPE bags and sold to end users. Spent catalysts based on Chromium, Copper, Nickel Zinc, Aluminium and Iron will be stored in metallic drums at designated place and sold to the re-processors authorized by CPCB/SPCB. Used oil will be stored in leak proof steel drums for sale to registered recyclers. Used Batteries shall be sold to authorized reprocessors.	
xii	All safety precautions as submitted to Ministry shall be installed and undertaken. Adequate protection measures for the handling of Ammonia vapours in case of process upset condition shall be undertaken. Safety well exhaust and drains shall be connected to a separate close header from which ammonia vapours shall be vented from vent stack after diluting the stream.	System already is in place.
xiii	The project authorities shall strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended in October 1994 and January 2000 and Hazardous Wastes (Management and Handling) Rules, 2003 along with the Emergency Preparedness Rules. Authorization from the state pollution Control Board must be obtained for collection/ treatment/ storage/ disposal of hazardous wastes, if any.	Authorisation issued by UPPCB is valid up to 2.3.2009.
xiv	The company shall strictly follow all the recommendations mentioned in the charter on corporate Responsibility for Environmental Protection (CREP).	All CREP conditions are implemented & followed.
xv	The company shall install rainwater harvesting systems from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the various activities of the project to conserve fresh water.	As per Ground water department (GWD), rain water harvesting system installed at IGF will not be fruitful. Letter from GWD already submitted at SPCB.
xvi	Total green belt area will be 116.61 ha after the expansion.	Agreed. No. of plants survived are 1.10 lacs with 37% green belt coverage area.
xvii	Occupational Health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Yearly OHS of employees completed. No employees found suffering with occupational disease.

#### **B - GENERAL CONDITIONS**

<b>S.NO.</b>	<b>CONDITION</b>	<b>COMPLIANCE STATUS</b>
i	The project authorities must strictly adhere to the stipulations made by the concerned State Pollution Control Board	Stipulations applicable to us are being complied.

	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.	Agreed
iii	Adequate number of influent and effluent quality monitoring stations shall be set up in consultation with the SPCB. Regular shall be carried out for relevant parameters.	In compliance. However, letter submitted at SPCB on 20.9.2007 to review existing locations of AAQ Monitoring Stations. Inspection by SPCB team completed.
iv	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report.	Recommendations are being complied.
v	Industrial wastewater shall be properly collected and treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 <sup>th</sup> May 1993 31 <sup>st</sup> December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.	Treated effluent quality is monitored regularly by IGF lab before discharge. During this period, 71.0% treated effluent was used for irrigation purposes.
vi	The overall noise levels in and around the plant area shall be limited within the prescribed standards (85 dBA) by providing noise control measures including acoustic hood, silencers, enclosures etc. on all sources of noise generation.	Noise level is being monitored regularly. PPE are provided to employees for movement in compressor area.
vii	Proper House keeping and adequate occupational health program shall be taken up. Regular Occupational Health Surveillance Program shall be carried and records shall be maintained properly for at least 30-40 years. The program shall include lung function and sputum tests once in six months. Sufficient preventive measures shall be adopted to avoid direct exposure to dust etc.	Action has been initiated to carry out lung & sputum test wherever needed in occupational health checkup program. Sufficient measures are taken to avoid exposure to dust.
viii	A separate environment management cell with full fledged laboratory facilities to carry out various management and Monitoring functions shall be setup under the control of a senior executive.	Environment management cell is in place with well equipped laboratory & working well under control of General Manager.
ix	Rs.43.80 lakhs and Rs.94.67 lakhs/annum have been earmarked to meet the capital cost and recurring cost/annum for the environmental protection measures. The amount needs to be raised in view of the Capital cost of expansion and the revised amount shall be submitted to the Ministry. The amounts so earmarked shall be used judiciously to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other	No investment was proposed in the project cost of Rs.157.43 Crores for Environment protection. Letter submitted on 6.9.2007 to MOEF to amend the condition. Response awaited.

	purpose.	
x	The Company shall undertake welfare measures and community development measures for the local people in the vicinity of the project area.	Indo Gulf Jan Seva Trust (IGJST - Formed by Indo Gulf Fertilisers – A unit of ABNL) is working since inception for upliftment and welfare of nearby rural population like medical care, providing artificial limbs to handicapped, eye care camps, leprosy eradication etc. In addition to it, IGJST also extends their helping hands in collaboration with NGOs for development of Infrastructure like School, Kharanza etc. in villages & improvement of their livelihoods.
xi	The concerned regional Office of this Ministry / State Pollution Control Board / Central Pollution Control Control Board shall monitor the implementation of the stipulated conditions. Six monthly compliance status report and monitoring data along with statistical interpretation shall be submitted to them regularly and shall be placed on the Website of the Company.	Monitoring data shall be submitted after commissioning of the project.
xii	The project proponent should 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 state Pollution Control Board / Committee and may also be seen at Website of the Ministry and Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a> . The advertisement should be made within 7 days from the date of issue of the clearance letter and a copy of the same should be forwarded to the concerned Regional Office of the Ministry.	Information had been published in two new papers, Dainik Jagran & Rashtriya Sahara on 19.7.2007 & also informed to MOEF, Regional office – Lucknow on 25.7.2007.
xiii	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.	Shall be informed.