

DESCRIPTIVE REPORT ON STATUS OF COMPLIANCE TO THE CONDITIONS OF ENVIRONMENTAL CLEARANCE AND ENVIRONMENTAL MANAGEMENT

Subject: Compliance report of Environmental Clearance for CDR & Revamp

Reference: J-11011/272/2007-IA, II(I), dated 15.02.2008

Sl. No.	Condition	Present Status
A	<u>SPECIFIC CONDITIONS:</u>	
i.	Natural gas shall be used as fuel as well as feed stock. No naphtha shall be used after de-bottlenecking.	<i>w.e.f. 11.08.09, Natural Gas is being used as Feedstock & Fuel.</i>
ii.	<p>On-line stack monitoring facilities for all the stacks and sufficient air pollution control methods to various process units to control CO₂, NH₃, Urea dust emissions etc. shall be provided. The gaseous emissions (SO₂, NO_x, NH₃, Urea dust) and particulate matter from various process units shall conform to the standards prescribed by the concerned authorities from time to time and maintained below 100 mg/Nm³.</p> <p>Regular monitoring reports for all the relevant parameters shall be submitted to the Regional Office at Bangalore, CPCB and APPCB.</p>	<p><i>As per the directives of CPCB, online stack monitoring for CFG Plant Stack has been commissioned.</i></p> <p><i>De-dusting system has been incorporated in the prilling tower top to reduce dust emissions.</i></p> <p><i>The emissions from all stacks are within the stipulated limits.</i></p> <p><i>CDR unit of 450 MTPD capacity has been installed to recover Carbon Dioxide from the flue gases of Ammonia plant which led to reduction of substantial amount of Carbon Dioxide being emitted into the atmosphere which is a small step towards reducing NFCL's carbon footprint.</i></p> <p><i>Monitoring reports for all the relevant parameters are being submitted to the Regional Office at Bangalore, CPCB and APPCB.</i></p> <p>Annexure XIII</p>
iii.	Total NO _x emissions after expansion shall not be increased over and above the existing NO _x emission levels. NO _x burners shall be provided to control NO _x emissions.	<p><i>NO_x emissions have not increased after expansion.</i></p> <p><i>Low NO_x burners were installed in primary reformer to limit the NO_x emissions at the inception stage itself.</i></p>
iv.	The secondary fugitive emissions shall be controlled and monitored as CPCB guidelines and reports submitted to the Regional Office at Bangalore, CPCB and APPCB. De-dusting system shall be provided to urea prill tower to control urea dust.	<p><i>The secondary fugitive emissions are controlled and monitored as per CPCB guidelines and reports are submitted to the Regional Office at Bangalore, CPCB and APPCB.</i></p> <p>Annexure XIII</p> <p><i>De-dusting system has been provided at</i></p>

		<i>Urea Prill tower to control urea dust.</i>
v.	Total water requirement from Godavari River and effluent generation shall not exceed 25,100 m ³ /day (including 5,560 m ³ /day for the expansion project) and 550 m ³ /day respectively. No effluent shall be generated from the fertilizer plant and entire quantity of treated wastewater shall be recycled and reused in the process, dust suppression and green belt development. 'ZERO' effluent discharge will be maintained.	<i>Total water requirement and effluent generation in NFCL complex are as follows:</i> Annexure XIV <i>The treated liquid effluent is utilized for irrigation of green belt and its sustenance.</i> <i>NFCL is a Zero Effluent discharge plant as no effluent is discharged outside the boundary limits of the complex.</i> <i>Final treated effluent discharged to green belt conforms to the prescribed regulatory standards</i> Annexure VIII
vi.	Prior permission for the drawl of water from the Godavari River shall be obtained from the concerned department.	<i>Permission for the drawl of water from the Godavari River has been obtained.</i> Annexure XV
vii.	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 APPCB.	<i>Groundwater quality in the surrounding areas is monitored on a monthly basis and reports are submitted to RO and ZO APPCB.</i> Annexure IX
viii.	The solid waste i.e. ETP sludge shall be used for green belt development. Waste oil shall be sold to the authorized recyclers / re-processors.	<i>ETP sludge is not generated in the complex.</i> <i>Waste oil is disposed to authorized recyclers/re-processors.</i> Annexure XII
ix.	As proposed, green belt shall be developed in 789 acres (70%) out of total 1,127 acres and existing plantation shall be properly maintained to mitigate the effects of fugitive emissions all around the plant as per the Central Pollution Control Board guidelines.	<i>Green Belt is maintained in 789 acres of land to mitigate the effects of fugitive emissions all around the plant as per the Central Pollution Control Board guidelines.</i>
x.	Permission from the National Board of Wildlife / Chief Wildlife Warden shall be obtained regarding impact of the proposed expansion on the Coringa Mangroves sanctuary located nearby and recommendations, if any shall be implemented in a time bound manner.	<i>As per the Environment Clearance letter accorded by MoEF, Application was submitted to the Chief Wildlife Warden, Hyderabad on 22.02.08 and 08.08.12</i> Annexure XVI

xi.	The company shall implement all the recommendations made in the Charter on Corporate Responsibility for Environmental Protection (CREP) for Fertilizer Industries.	<i>All the recommendations made in the Charter on Corporate Responsibility for Environmental Protection (CREP) for Fertilizer Industries have been implemented.</i>
B.	<u>GENERAL CONDITIONS:</u>	
i.	The project authorities shall strictly adhere to the stipulations made by the Andhra Pradesh Pollution Control Board (APPCB).	<i>The stipulations made by the Andhra Pradesh Pollution Control Board (APPCB) are adhered to strictly.</i>
ii.	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.	<i>No expansion or modification has been carried out in the plan without approval of the concerned authorities.</i>
iii.	The gaseous emissions (SO ₂ , NO _x , NH ₃ , Urea dust) and 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.	<i>All the emissions are maintained well below the prescribed limits as specified by the concerned authorities.</i>
iv.	Ambient air quality monitoring stations shall be set up in the downwind direction as well as where maximum ground level concentrations are anticipated in consultation with the APPCB and data submitted to the Ministry's Regional Office at Bangalore six monthly and APPCB quarterly along with statistical analysis.	<p><i>Five Ambient Air Monitoring stations have been installed for continuous monitoring of SO₂, NO_x, NH₃, CO and Dust.</i></p> <p><i>The locations of the ambient air monitoring stations were selected based on the mathematical modelling done by Professor B. Padmanabha Murthy of JNU- New Delhi.</i></p> <p>Annexure I</p>

		<p><i>Reports are submitted on a six monthly basis to the Ministry's Regional Office at Bangalore and on a monthly basis to APPCB.</i></p> <p>Annexure II Annexure XIII</p>
v.	<p>Fugitive emissions including NH₃, Urea dust concentrations in the work zone environment, product, raw material storage area shall be controlled and monitored. The emissions shall conform to the limits imposed by APPCB.</p>	<p><i>Fugitive emissions of NH₃, Urea dust and CO are monitored in the work zone environment, product and raw material storage area and these are well below the stipulated standards.</i></p> <p>Annexure IV</p>
vi	<p>The project authorities shall strictly comply with the rules and regulations under Manufacture, Storage and impact of Hazardous Chemicals Rules, 1989 as amended in October 1994 and January 2000. Authorization from the APPCB shall be obtained for collection, treatment, storage and disposal of hazardous wastes.</p>	<p><i>Hazardous Waste Handling authorization was obtained for collection, treatment, storage and disposal of hazardous wastes from the APPCB. As such, ammonia is a hazardous chemical and the consent authorizes M/s NFCL to store Anhydrous Ammonia.</i></p> <p>Annexure XVII</p>
vi.	<p>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 and Handling) Rules, 2003. Authorization from the A.P. Pollution Control Board must be obtained for collections / treatment / storage / disposal of hazardous wastes.</p>	<p><i>Being Complied.</i></p> <p><i>Hazardous Waste Handling authorization was obtained for collection, treatment, storage and disposal of hazardous wastes from the APPCB.</i></p> <p>Annexure XVII</p>
viii.	<p>The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) 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, Rules, 1989 viz. DBA (day time) and 70 dBA (night time)</p>	<p><i>Noise control measures like acoustic hoods, silencers, enclosures etc. have been provided on all sources of noise generation in the plant. Monitoring of noise levels in the plant is done on regular basis and the values are below the stipulated limits.</i></p> <p>Annexure XI</p>
ix.	<p>Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the</p>	<p><i>Medical examination is conducted at Occupational Health Center for all the personnel and records are maintained as</i></p>

	Factories Act.	<i>specified in the Factories Act.</i>
x.	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	<i>As a part of eco developmental measures, a green Belt has been developed in an area of 789 acres of land. Community welfare measures are undertaken for people in and around the plant area for the overall improvement of the environment as a part of CSR Activities.</i> Annexure XXI
xi.	The company shall adopt suitable surface as well as roof top rain water harvesting measures to harvest the run off water for recharge of ground water. Methods shall also be adopted for the conservation of water through and recycling and reusing the treated wastewater.	<i>Numerous methods have been devised and adopted for conservation and recycling of water and reuse of wastewater. The company has adopted surface rain water harvesting measures to harvest the run off water for recharge of ground water. Additional roof tops are being considered for harvesting rain water.</i> Annexure VII Annexure XXIV
xii.	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA report.	<i>All the environmental protection measures and safeguards recommended in the EIA report are being complied with.</i> Annexure XXII
xiii.	A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	<i>A separate Environment Management Dept with a full-fledged laboratory has been setup to carry out the Environmental Management and Monitoring functions.</i>
xiv.	Adequate funds shall be earmarked for environmental pollution control measures respectively shall be utilized to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government and an implementation schedule shall be submitted to Ministry's `Regional Office at Bangalore for implementing all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.	<i>Adequate funds are earmarked for environmental pollution control measures and it is ensured that these funds are not diverted for any other purposes.</i>
xv.	The implementation of the project vis-	<i>The compliance status is communicated</i>

	à-vis environmental action plans shall be monitored by Ministry's Regional Office at Bangalore / APPCB / CPCB. A six monthly compliance status report shall be submitted to monitoring agencies.	<i>to APPCB/CPCB through monthly, quarterly, six monthly and annual reports.</i> Annexure II Annexure III Annexure XIII Annexure XXIII
xvi.	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 APPCB 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 Ministry's Regional Office at Bhopal.	<i>The said information was shared by means of advertisements in two newspapers viz. Andhra Prabha and The Financial Express on 23.02.08. Xerox copies of the advertisements were sent to APPCB, EE, Kakinada vide letter dated 29.02.08.</i> Annexure XVIII
xvii.	The project authorities shall inform the Regional Office as well as the Ministry, the data of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	—