

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

**Subject: Compliance report of Environmental Clearance for CFG Plant**

**Reference: J-11011/265/2008-IA, II(I), dated 22.08.2008**

<b>Sl. No.</b>	<b>Condition</b>	<b>Present Status</b>
A	<u>SPECIFIC CONDITIONS:</u>	
i.	The project authorities shall treat the waste water generated from scrubber and use for gardening after complying the norms prescribed by the APPCB. No waste water shall be discharged outside the plant premises and Zero Discharge condition shall be maintained.	<i>Final treated effluent discharged to green belt is utilized for irrigation of green belt and its sustenance and it conforms to the prescribed regulatory standards</i> <b>Annexure VIII</b> <b>Annexure XIX</b> <i>NFCL is a Zero Effluent discharge plant as no effluent is discharged outside the boundary limits of the complex.</i>
ii.	The Project authority shall obtain permission for drawl of additional 35 KLD water from the Godavari river from the concerned authority. A copy of the permission letter shall be submitted to the Ministry's regional office, Bangalore.	<i>The necessary permission has been taken from the authorities.</i> <b>Annexure XIV</b> <b>Annexure XV</b>
iii.	The manufacturing of the Customized Fertilizer shall be by mixing of various ingredients only. There shall not be any process gaseous emissions and chemical reaction during manufacturing.	<i>Being Complied</i> <b>Annexure XXV</b>
iv.	De-dusting system and scrubbing system shall be installed to control particulate matter emission during mixing and granulation of the customized fertilizer. The project authority shall install the dust collection system in the Fertilizer Bagging plant.	<i>Dedicated dust control system consisting of cyclones and wet scrubbers are provided to prevent dust emissions in to the atmosphere.</i> <b>Annexure XX</b> <b>Annexure XXV</b>
v.	The company shall maintain the existing 70% green belt to mitigate the effect of fugitive emissions and noise.	<i>70% of the total area of the plant has been developed into a vast 789 acre green belt. This mitigates the fugitive emissions and noise from the plant.</i>
vi.	The company shall implement all the recommendations made in the Charter on Corporate Responsibility for	<i>All the recommendations made in the Charter on Corporate Responsibility for Environmental Protection</i>

	Environmental Protection (CREP) for Fertilizer Industry.	<i>(CREP) for Fertilizer Industries have been implemented.</i>
vii.	Occupational Health surveillance of the workers shall be carried out on a regular basis and records shall be maintain as per the Factories Act.	<i>Medical examination is conducted at Occupational Health Center for all the personnel and records are maintained as specified in the Factories Act in OHC.</i>
viii.	Risk assessment shall be carried out and report shall be submitted to the SPCB and CPCB and to the Ministry's Regional office as Bangalore.	<i>Risk assessment was carried out by M/s Rams Safety Consultants, Chennai for CFG Plant. Annexure XVI</i>
ix.	The company shall make the arrangement for the protection of possible fire hazards during manufacturing process in material handling.	<i>Being Complied. Annexure XVI</i>
B	<u>GENERAL CONDITIONS:</u>	
i.	The project authorities shall strictly adhere to the stipulations of the SPCB / State Government or and statutory body.	<i>The stipulations made by the Andhra Pradesh Pollution Control Board (APPCB) are adhered to strictly.</i>
ii.	The gaseous emissions (SO <sub>2</sub> , SO <sub>3</sub> , NO <sub>x</sub> , NH <sub>3</sub> , and 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 Minister's Regional office / CPCB and SPCB.	<i>All the emissions are maintained well below the prescribed limits as specified by the concerned authorities. Currently, the plant is under shutdown condition. Reports are being forwarded to RO APPCB. Annexure II</i>
iii.	All the waste waters generated from the various processes shall be recycled/reused 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.	<i>The waste water from the process is recycled in the plant. The treated liquid effluent is utilized for irrigation of green belt and its sustenance. NFCL is a Zero Effluent discharge plant as no effluent is discharged outside the boundary limits of the complex. Annexure VIII Annexure XIX Annexure XXV</i>
iv.	No further expansion or modification in the plant shall be carried out with out prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project	<i>No expansion or modification has been carried out in the plan without approval of the concerned authorities.</i>

	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 measured required, if any.	
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.	<i>All the emissions are maintained well below the prescribed limits as specified by the concerned authorities.</i>
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 down wind direction as well as where maximum ground level concentrations are anticipated.	<i>Five Ambient Air Monitoring stations have been installed for continuous monitoring of SO<sub>2</sub>, NO<sub>x</sub>, NH<sub>3</sub>, CO and Dust.</i>  <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> <b>Annexure I</b>
vii.	Dedicated scrubber and stacks of appropriate heights 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.	<i>Being Complied</i> <b>Annexure XX</b> <b>Annexure XXV</b>
viii.	All the storage Tanks will be under negative pressure to avoid any leakages. Breather valves, N <sub>2</sub> blanketing and secondary condensers with brine chilling system shall be provided for all the storage tanks to minimize vapor losses. All liquid raw materials shall be stored in storage tanks and drums.	<i>Liquid raw materials as well as chilling using Brine are not used in CFG Plant and hence this condition is not applicable to NFCL.</i> <b>Annexure XXV</b>
ix.	The company shall under take following waste minimization measures. <ul style="list-style-type: none"> <li>• Metering and control of quantities of active ingredients to minimize waste.</li> <li>• Reuse of By- products from the process as Raw Materials or as</li> </ul>	<ul style="list-style-type: none"> <li>• <i>Weigh feeders are incorporated for Metering and control of quantities of active ingredients to minimize waste.</i></li> <li>• <i>Recycled</i></li> </ul>

	<p>Raw Material substituent's in other processes.</p> <ul style="list-style-type: none"> <li>• Use of automated filling to minimize spillages</li> <li>• Use of "Close Feed" system in to batch reactors.</li> <li>• Venting equipment through vapor recovery system.</li> <li>• Use of High pressure hoses for equipment cleaning to reduce waste water generation.</li> </ul>	<ul style="list-style-type: none"> <li>• <i>Automated bag filling and stitching machines are incorporated to minimize spillages</i></li> <li>• <i>Yes</i></li> <li>• <i>Yes</i></li> </ul> <p><i>Annexure XXV</i></p>
x.	<p>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 Board / Central Pollution Control Board.</p>	<p><i>Fugitive emissions of Dust are monitored in the work zone environment, product and raw material storage area and these are well below the stipulated standards.</i></p> <p><i>Annexure XX</i></p>
xi.	<p>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 form the SPCB shall be obtained for collection, treatment, storage and disposal of Hazardous Waste.</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><i>Annexure XVII</i></p>
xii.	<p>The overall Noise levels in and around the plant area shall be kept with in the standards by providing noise control measures including acoustic hoods, silencer, enclosures, etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act, 1986 rules, 1989 viz. 75 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><i>Annexure XI</i></p>
xiii.	<p>The company shall develop rain water harvesting structures to harvest the run off water for recharge of ground water.</p>	<p><i>Numerous methods have been devised and adopted for conservation and recycling of water and reuse of wastewater.</i></p> <p><i>The company has adopted surface rain water harvesting measures to</i></p>

		<p><i>harvest the run off water for recharge of ground water. Additional roof tops are being considered for harvesting rain water.</i></p> <p><b>Annexure VII</b> <b>Annexure XXIV</b></p>
xiv.	<p>The company shall under take eco developmental measures including community welfare measure in the project area for the overall improvement of the environment. The eco development plan should be submitted to the SPCB with in three months of receipt of this letter for approval.</p>	<p><i>As a part of eco developmental measures, a green Belt has been developed in an area of 789 acres of land.</i></p> <p><i>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></p> <p><b>Annexure XXI</b></p>
xv.	<p>The project proponent shall also comply with all the environmental protection measures and safe guards proposed in the EIA / EMP report.</p>	<p><i>All the environmental protection measures and safeguards recommended in the EIA report are being complied with.</i></p> <p><b>Annexure XXII</b></p>
xvi.	<p>A separate environmental management cell equipped with full fledged laboratory facilities shall be set up to carry out the environmental management and monitoring functions.</p>	<p><i>A separate Environment Management Dept with a full-fledged laboratory has been setup to carry out the Environmental Management and Monitoring functions for the entire NFCL Complex.</i></p>
xvii.	<p>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 implementations schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.</p>	<p><i>For the entire NFCL Complex, adequate funds are earmarked for environmental pollution control measures and it is ensured that these funds are not diverted for any other purposes.</i></p>
xviii.	<p>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 web site of the company.</p>	<p><i>The compliance status is communicated to APPCB/CPCB through monthly and annual reports.</i></p> <p><b>Annexure II</b> <b>Annexure XXIII</b></p>
xix.	<p>The project proponent shall inform the public that the project has been accorded</p>	<p><i>Complied</i></p>

	<p>environmental clearance by the ministry and copies of the clearance letter are available with the SPCB and may also be seen at web site of the ministry at <a href="http://envfor.nic.in">http://envfor.nic.in</a>. This shall be advertised with in seven days from the date of issue of the clearance letter, at least in two local news papers that are widely circulated in the region of which one shall be vernacular language of the locality and the copy of the same shall be forwarded to the concerned regional office of the ministry.</p>	<p>Annexure XXIX</p>
xx.	<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 authorizes and the date of start of the project.</p>	<p>—</p>