

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

**Subject: Compliance report of Environmental Clearance for Plant 3**

**Reference: J-11011/603/2010-IA, II(I), dated 18.12.2012**

**Duration – June 2015 to November 2015**

| Sl. No. | Condition   | Present Status  |
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| A<br>i. | <u>SPECIFIC CONDITIONS:</u><br>All the conditions stipulated in environmental clearance J-11011/17/94-IA (II) dated 14 <sup>th</sup> September, 1994, J-11011/272/IA (II) dated 15 <sup>th</sup> February, 2008, J-11011/265/2008-IA (II) dated 22 <sup>nd</sup> August, 2008, accorded for existing projects shall be implemented.   | <i>Complied</i>   |
| ii.     | The gaseous emissions (SO <sub>2</sub> , NO <sub>x</sub> , NH <sub>3</sub> , Urea dust) and particulate matter from various process units shall conform to the norms prescribed by the concerned authorities from time to time. At no time, the emission levels shall go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Stack emissions shall be monitored regularly. | <i>This directive shall be complied with, once the plant is constructed and is operational.</i> |
| iii.    | Adequate stack height shall be provided to Ammonia plant reformer, Heat recovery steam generator (HRSG), NG/RLNG fired gas turbine and Prilling Tower. Low NO <sub>x</sub> burners shall be provided to control NO <sub>x</sub> emissions.  | <i>This directive shall be complied with, once the plant is constructed and is operational.</i> |
| 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 CPCB guidelines.   | <i>This directive shall be complied with, once the plant is constructed and is operational.</i> |
| v.      | Ambient air quality data shall be collected as per NAAQES standards notified by the Ministry vide G.S.R. No. 826(E) dated 16 <sup>th</sup> September, 2009. The levels of PM <sub>10</sub> (Urea Dust), SO <sub>2</sub> , NO <sub>x</sub> , Ammonia, Ozone and HC shall be monitored in the ambient air and displayed at a convenient location  | <i>This directive shall be complied with, once the plant is constructed and is operational.</i> |

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|       | near the main gate of the company and at important public places. The company shall upload the results of monitored data on its website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the A P Pollution Control Board (APPCB).   |   |
| vi.   | In plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fugitive emissions shall be controlled by providing closed storage, closed handling & conveyance of chemicals/materials, multi cyclone separator and water sprinkling. Fugitive emissions in the work zone environment, product, raw material storage area etc. shall be regularly monitored. The emissions should confirm to the limits stipulated by APPCB. | <i>This directive shall be complied with, once the plant is constructed and is operational.</i> |
| vii.  | The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosures shall be provided to the DG sets to mitigate the noise pollution.  | <i>This directive shall be complied with, once the plant is constructed and is operational.</i> |
| viii. | Additional water requirement from Godavari River for the expansion plant shall not exceed 21170 m <sup>3</sup> /day and prior permission shall be obtained from concerned Authority and a copy submitted to the Ministry's Regional Office at Bangalore. No ground water shall be used.  | <i>This directive shall be complied with, once the plant is constructed and is operational.</i> |
| ix.   | An action plan shall be submitted to the Ministry and its Regional Office at Bangalore regarding measures taken for water conservation and maximum recycling/reuse of treated wastewater in the existing unit and proposed for implementation during the expansion.  | <i>This directive shall be complied with, once the plant is constructed and is operational.</i> |
| x.    | As proposed industrial effluent should not exceed 2620 m <sup>3</sup> /day and treated in the ETP. As proposed, Urea plant process condensate shall be treated in  | <i>This directive shall be complied with, once the plant is constructed and is operational.</i> |

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|       | <p>a deep hydrolyser followed by stripping. Ammonia plant process condensate (APC) shall be stripped with steam followed by activated carbon and demineralization. Treated condensate shall be recycled/used in the process. Utilities wastewater shall be treated in the ETP and treated effluent shall be recycled/used. Treated effluent shall also be monitored for the parameters namely Ammonical nitrogen, Nitrate, Fluoride, pH etc. The treated effluent which can not be reutilized shall be disposed off through marine outfall (MOF) system. Sewage shall be treated in the STP and treated water shall be recycled/used within factory premises to achieve zero discharge except rainy season.</p> |  |
| xi.   | <p>All the effluents after treatment shall be routed to a properly lined guard pond for equalization and final control. In the guard pond, automatic monitoring system for flow, and relevant pollutants (i.e. pH Ammonical nitrogen, nitrate nitrogen, etc) shall be provided with high level alarm system.</p>  | <p><i>This directive shall be complied with, once the plant is constructed and is operational.</i></p> |
| xii.  | <p>Regular monitoring of ground water by installing piezometric wells around the guard pond and sludge disposal sites shall be periodically monitored and reports shall be submitted to the concerned Ministry's Regional Office, CPCB and SPCB.</p>  | <p><i>This directive shall be complied with, once the plant is constructed and is operational.</i></p> |
| xiii. | <p>The company shall construct the garland drain all around the project site to prevent runoff of any chemicals containing waste into the nearby water bodies. Effluent shall be properly treated and treated wastewater shall conform to CPCB standards.</p>   | <p><i>This directive shall be complied with, once the plant is constructed and is operational.</i></p> |
| xiv.  | <p>The company shall obtain Authorization for collection, storage and disposal of hazardous waste under the Hazardous Waste (Management, Handling, and Trans-Boundary Movement) Rules, 2008</p>   | <p><i>This directive shall be complied with, once the plant is constructed and is operational.</i></p> |

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|        | and amended as on date for management of Hazardous wastes. Measures shall be taken for fight fighting facilities in case of emergency.  |   |
| xv.    | Spent catalyst and used oil shall be sold to authorized recyclers/re-processors only.   | <i>This directive shall be complied with, once the plant is constructed and is operational.</i> |
| xvi.   | The company shall strictly comply with the rules and guidelines under Manufacture, Storage and import of Hazardous Chemicals Rules (MSIHC), 1989 as amended time to time. All transportation of Hazardous chemicals shall be as per the Motor Vehicle Act (MVA) 1989. | <i>This directive shall be complied with, once the plant is constructed and is operational.</i> |
| xvii.  | All the commitments made during the Public Hearing/Public Consultation meeting held on 17 <sup>th</sup> August 2011 shall be satisfactorily implemented and adequate budget provision shall be made accordingly.  | <i>This directive shall be complied with, once the plant is constructed and is operational.</i> |
| xviii. | Remote operated valve placed on NH <sub>3</sub> line to avoid leakage/equipment check shall be performed to ensure that remote operated valve (ROV) is all time functional.   | <i>This directive shall be complied with, once the plant is constructed and is operational.</i> |
| xix.   | The company shall implement all the recommendations made in the Charter on Corporate Responsibility for Environmental Protection (CREP) for Fertilizer Industries.  | <i>This directive shall be complied with, once the plant is constructed and is operational.</i> |
| xx.    | The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the OISD 117 norms.   | <i>This directive shall be complied with, once the plant is constructed and is operational.</i> |
| xxi.   | Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.   | <i>This directive shall be complied with, once the plant is constructed and is operational.</i> |
| xxii.  | Green belt shall be developed in 33 % of the plant area. Selection of the species shall be as per the CPCB guidelines.  | <i>This directive shall be complied with, once the plant is constructed and is operational.</i> |
| xxiii. | Provision shall be made for the housing for the construction labour within the site with all necessary  | <i>This directive shall be complied with, once the plant is constructed and is operational.</i> |

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|      | infrastructure and facilities such as fuel for cooking, mobile sewage, mobile sewage treatment plants, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after the completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment.   |   |
| 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>This directive shall be complied with, once the plant is constructed and is operational.</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>This directive shall be complied with, once the plant is constructed and is operational.</i> |
| iii. | The locations of Ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that atleast one station is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.  | <i>This directive shall be complied with, once the plant is constructed and is operational.</i> |
| iv.  | 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, Rules, 1989 viz. DBA (day time) and 70 dBA (night time)   | <i>This directive shall be complied with, once the plant is constructed and is operational.</i> |
| v.   | The company shall harvest rainwater from the roof tops of the buildings   | <i>This directive shall be complied with, once the plant is constructed and is</i>              |

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|       | and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.  | <i>operational.</i>   |
| vi.   | Training shall be imparted to all employees on safety and health aspects of chemical handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.  | <i>This directive shall be complied with, once the plant is constructed and is operational.</i> |
| vii.  | Usage of Personal Protection Equipments (PPEs) by all employees / workers shall be ensured.  | <i>This directive shall be complied with, once the plant is constructed and is operational.</i> |
| viii. | The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigating measures and public hearing relating to the project shall be implemented. | <i>This directive shall be complied with, once the plant is constructed and is operational.</i> |
| ix.   | The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration.  | <i>This directive shall be complied with, once the plant is constructed and is operational.</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>This directive shall be complied with, once the plant is constructed and is operational.</i> |
| xi.   | 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>This directive shall be complied with, once the plant is constructed and is operational.</i> |
| xii.  | As proposed, company shall earmark sufficient funds towards capital cost and recurring cost respectively to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the  | <i>This directive shall be complied with, once the plant is constructed and is operational.</i> |

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|       | implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management / pollution control measures shall not be diverted for any other purpose.   |   |
| xiii. | A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from who suggestions/representations, if any, were received while proposing the proposal.  | <i>This directive shall be complied with, once the plant is constructed and is operational.</i> |
| xiv.  | The project proponent shall also submit six monthly compliance reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by email) to the respective Regional office of MoEF, the respective Zonal Office of CPCB and the AP Pollution Control Board. A copy of the Environmental Clearance and six monthly compliance report shall be posted on the website of the company. | <i>This directive shall be complied with, once the plant is constructed and is operational.</i> |
| xv.   | The environmental statement for each financial year ending 31 <sup>st</sup> March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company alongwith the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.       | <i>This directive shall be complied with, once the plant is constructed and is operational.</i> |
| 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 SPCB/committee 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  | <i>Complied.</i>  |

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|       | 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. |   |
| 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.  | <i>This directive shall be complied with, once the plant is constructed and is operational.</i> |