

F. No. J-11011/371/2013- IA II (I)
Government of India
Ministry of Environment, Forest & Climate Change
(I.A. Division)

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Dated 16th October, 2015

To,

Shri Vivek Malhotra
Executive Director
M/s Engineers India Ltd., NFL and FCI
10th Floor, 1st Bhikaji Cama Place New Delhi - 110066

E-mail: malhotra.vivek@eil.co.n ; Fax No. : 011-26763894

Subject: Proposed Ammonia (2200 MTPD)/Urea (3850 MTPD) Fertilizer Complex at Ramagundam Unit, Mandal Ramagundam, District Karimanagar, Andhara Pradesh by Consortium of M/s Engineers India Ltd., NFL and FCI- Environmental Clearance reg.

Ref. : Your online proposal no. IA/AP/IND/20731/2013 dated 27th April, 2015.

Sir,

This has reference to your online proposal no. IA/AP/IND/20724/2013 dated 27th April, 2015 alongwith project documents including Form I, Terms of References, Pre-feasibility Report, EIA/EMP Report alongwith Public Hearing Report regarding above mentioned project and subsequent submission of additional information vide letter dated 18th September, 2015.

2.0 The Ministry of Environment, Forest and Climate Change has examined the application. It is noted that proposal is for setting up of new Ammonia/Urea Fertilizer Complex at Ramagundam Unit Tehsil Ramagundam Mandal, District Karimanagar, A.P. The proposal consists of new ammonia and urea plant along with associated offsite and utility facilities within the premises of existing Ramagundam Fertilizer complex. Single stream plant of Urea plant (prilled urea of 3850 MTPD) and Ammonia plant (2200 MTPD) will be installed. The plant will be designed to use NG/RLNG (2.26 MMSCMD) as feed and fuel. New CPP of 27.5 MW (GTG + HRSG) will be installed. Specific energy consumption will be 5.0 Gcal/MT of Urea. EC was obtained for existing project in 1999. However, due to shut down of plant, plant and machinery will be sold as scrap. Apart from buildings which will be refurbished, all plant machinery and equipment would be established a new. Cost of project is Rs. 5465 crores. Out of which Rs. 35 Crores and Rs. 8.77 Crore are earmarked towards capital cost and recurring cost per annum for implementation of environmental management plan. The total plot area of the project is 155.1 ha. Out of which, the existing greenbelt is 2.5 ha. along the boundary and proposed to achieve greenbelt of 46 ha in phase wise manners. It is reported that no national parks/wildlife sanctuary is located within 10 km distance. Godavari River is flowing at a distance of 4.5 km. The proposed project will be installed in the existing premises. Ammonia storage tanks (2 x 10,000 Ton) will be installed. However, total storage of ammonia will not exceed 10000 Ton at a time.

3.0 Adequate stack height will be provided to Ammonia plant reformer, steam generator, NG/RLNG fired gas turbine and Urea Prilling Tower. Low NOx burners will be provided to minimize NOx emissions. Flare stack will be provided to flare waste gases. Vacuum vent scrubber will be installed to control ammonia emission from prilling tower. Process dust of urea will be collected in cyclone separator followed by bagfilter and urea dust will be recycled in the process. Fresh water



requirement from Yellampalli Barrage will be 30500 m³/day. Urea plant process condensate will be treated in a deep hydrolyser followed by stripping. Ammonia plant process condensate (APC) will be stripped with steam followed by activated carbon and demineralization. Treated condensate will be recycled/reused in the process. Utilities wastewater will be treated in the effluent treatment plant (ETP) and treated effluent shall be recycled/ reused. Treated effluent shall also be monitored for the parameters namely ammonical nitrogen, Nitrate, Fluoride, pH etc. The treated effluent (250 m³/hr) will be discharged into the River Godavari after conforming to the standards prescribed for the effluent discharge and after obtaining permission from the APPCB. Sewage will be treated in the sewage treatment plant (STP). Treated sewage will be recycled/reused for gardening /horticulture purpose. Spent catalysts and used oil will be sold to authorized re-processors/recyclers.

4.0 Public consultation/hearing was conducted on 11th March, 2015.

5.0 All the Fertilizer Plant are listed at S.N. 5(a) under Category 'A' and appraised at the Central level.

6.0 The proposal was considered by the Expert Appraisal Committee (Industry) in its meetings held during 20th-21st February, 2014, 16th -17th June, 2015 and 20th -21st August, 2015 respectively. Project Proponent and the EIA Consultant namely M/s Engineers India Ltd., have presented EIA / EMP report as per the TOR. EAC has found the EIA / EMP Report and additional information to be satisfactory and in full consonance with the presented TORs. The Committee recommended the proposal for environmental clearance.

7.0 Based on the information submitted by the project proponent, 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:

- i) The gaseous emissions (SO₂, NO_x, NH₃, HC and Urea dust) and particulate matter from various process units shall conform to the norms prescribed by the CPCB/SPCB 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 continuously (24x7) as per CPCB guideline.
- ii) 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_x burners shall be provided to control NO_x emissions.
- iii) In Urea Plant, particulate emissions shall not exceed 50 mg/Nm³. Monitoring of Prilling Tower shall be carried out as per CPCB guidelines.
- iv) As proposed, fertilizer plant shall be designed for specific energy consumption of 5.0 Gcal/MT of urea.
- v) Ambient air quality data shall be collected as per NAAQES standards notified by the Ministry vide G.S.R. No. 826(E) dated 16th September, 2009. The levels of PM₁₀ (Urea dust), SO₂, NO_x, Ammonia, Ozone and HC shall be monitored in the ambient air and displayed at a convenient location 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 Andhra Pradesh Pollution Control Board (APPCB).

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- 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 system. Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored. The emissions should conform to the limits stipulated by the APPCB.
- vii) The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.
- viii) Fresh water requirement from Yellampali Barrage should not exceed 30500 m³/day and prior permission shall be obtained from Competent Authority and a copy submitted to the Ministry's Regional Office at Bangalore. Efforts shall be made to bring down the water consumption upto 6 m³/ MT urea production or as per CPCB guideline.
- ix) Industrial wastewater shall be treated in the ETP. As proposed, Urea plant process condensate shall be treated in 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/reused in the process. Utilities wastewater shall be treated in the ETP and treated effluent shall be recycled/reused. Treated effluent shall also be monitored for the parameters namely ammonical nitrogen, Nitrate, Fluoride, pH etc. No process effluent shall be discharged in and around the project site. Sewage shall be treated in STP.
- x) The treated effluent (not more than 250 m³/hr) shall be discharged into the River Godavari after conforming to the standards prescribed for the effluent discharge and after obtaining permission from the State Pollution Control Board/CPCB. Treated effluent shall be passed through guard pond/holding pond before discharging outside the plant premises and Automatic /online monitoring system (24 x 7 monitoring devices) for flow, and relevant pollutants (i.e. pH, ammonical nitrogen, nitrate nitrogen etc) shall be provided with high level alarm system. The data to be made available to the respective SPCB and in the Company's website.
- xi) Regular monitoring of ground water by installing peizometric 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.
- xii) 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.
- xiii) 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 and amended as on date for management of Hazardous wastes. Measures shall be taken for fire fighting facilities in case of emergency.
- xiv) Spent catalysts and used oil shall be sold to authorized recyclers/re-processors only.
- xv) The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All Transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.
- xvi) Remote operated valve placed on NH₃ line to avoid leakage/equipment check shall be performed to ensure that remote operated valve (ROV) is all time is functional.
- xvii) The company shall strictly follow all the recommendations mentioned in the Charter on Corporate Responsibility for Environmental Protection (CREP).

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- xviii) All the commitments made during the Public Hearing/Public Consultation meeting held on 11th March, 2015 shall be satisfactorily implemented and adequate budget provision shall be made accordingly.
- xix) Sufficient funds shall be earmarked towards the Enterprise Social Commitment (ESC) based on local needs and action plan with financial and physical breakup/details shall be prepared and submitted to the Ministry's Regional Office at Bhopal. Implementation of such program shall be ensured accordingly in a time bound manner.
- xx) Occupational health surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.
- xxi) As proposed, green belt over 46 hectares area shall be developed within plant premises with at least 10 meter wide green belt on all sides along the periphery of the project area, in downward direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.
- xxii) Provision shall be made for the housing for the construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile sewage treatment plant, 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. GENERAL CONDITIONS:

- (i) The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board (SPCB), State Government and any other statutory authority.
- (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.
- (iii) The locations of ambient air quality monitoring stations shall be decided in consultation with the SPCB and it shall be ensured that at least one station is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.
- (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, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- (v) The Company shall harvest rainwater from the roof-tops of the buildings 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.
- (vi) During transfer of materials, spillages shall be avoided and garland drains be constructed to avoid mixing of accidental spillages with domestic wastewater and storm water drains.
- (vii) Usage of Personnel Protection Equipments by all employees/ workers shall be ensured.

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- (viii) Training shall be imparted to all employees on safety and health aspects of chemicals 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.
- (ix) The company shall also comply with all the environmental protection measures and safeguards proposed in the project report submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing relating to the project shall be implemented.
- (x) The company shall undertake CSR activities and all relevant measures for improving the socio-economic conditions of the surrounding area.
- (xi) The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- (xii) A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- (xiii) The company shall earmark sufficient funds for recurring cost per annum 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 earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.
- (xiv) A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, ZilaParisad/Municipal Corporation, Urban local Body and the local NGO, if any, from who suggestions/ representations, if any, were received while processing the proposal.
- (xv) The project proponent shall also submit six monthly 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 e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the State Pollution Control Board. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.
- (xvi) The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the WB 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 along with the status of compliance of environmental clearance conditions and shall also be sent to the Bhubaneshwar Regional Offices of MoEF by e-mail.
- (xvii) 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 <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 concerned Regional Office of the Ministry.
- (xviii) 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.



8.0 The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

9.0 The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.

10.0 The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Water Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.



(Lalit Bokolia)
Additional Director

Copy to:-

1. The Principal Secretary, Department of Environment, Forest, Science & Technology, Government of A P, Hyderabad, A.P.
2. The Chief Conservator of Forests, Regional Office (Southern Zone, Bangalore) Kendriya Sadan, 4th Floor, E&F Wing, II Block Koramangala, Bangalore-560034.
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. The Chairman, Telangana Pollution Control Board, Paryavaran Bhawan, A-III, Industrial Estate, Sanath Nagar, Hyderabad - A.P.
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhavan, Jorbagh Road, New Delhi.
6. Guard File/Monitoring File/Record File.



(Lalit Bokolia)
Additional Director