

F. No. J-11011/392/2014- IA II (I)  
Government of India  
Ministry of Environment, Forests and Climate Change  
(I.A. Division)

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Date: 10<sup>th</sup> February , 2016

To,

The Executive Director  
M/s Rashtriya Chemicals and Fertilizers,  
Thal Unit, Taluka Aligab, District Raigad,  
Maharashtra -402208

**Subject: Installation of Gas Turbine Generator and Heat Recovery Steam Generator under energy reduction scheme at Tehsil Alibagh ,District Raigarh, Maharashtra by M/s Rashtriya Chemical Fertilizer — Environmental Clearance reg.**

**Ref.: Your online proposal no. IA/MH/IND2/29375/2014 dated 21<sup>st</sup> July, 2015.**

Sir,

This has reference to your online proposal no. IA/MH/IND2/29375/2014 dated 21<sup>st</sup> July, 2015 alongwith project documents including Form 1, Prefeasibility Report, Draft Terms of References and EIA/EMP report on the above mentioned subject.

2.0 The Ministry of Environment, Forest and Climate Change has examined the application. It is noted that the proposal is for installation of Gas Turbine Generator and Heat Recovery Steam Generator under energy reduction scheme at Tehsil Alibagh, District Raigarh, Maharashtra by M/s Rashtriya Chemical Fertilizer. The RCF in the district of Raigad, Maharashtra, have two trains of Ammonia plant of 1750 MTPD capacity each i.e. combined capacity of 3500 MTPD and three trains (3 x 2020 MTPD) of Urea plant of combined capacity of 6060 MTPD along with all necessary utilities including steam and power generation, industrial chemicals and infrastructure facilities. The specific energy requirement for Ammonia and Urea is 8.15 and 5.8 Gcal/MT respectively on the basis of daily average. To reduce the energy consumption further, it is proposed to changeover the steam turbine driven equipment (Total 15 No) to motor driven equipment. Due to change over, the power requirement shall increase from the existing 28 MW to 48 MW. Therefore, to meet the requirement of increased power, it is proposed to install two nos. of Gas Turbine Generators of 32 MW capacity each and two nos. of Heat Recovery Steam Generator of 100 TPH capacity each. The existing two nos. of Steam Turbine Generators (capacity 15 MW each) shall be abandoned. This scheme shall save valuable Natural gas of



10,601 Sm<sup>3</sup>/Hr (0.25 MMSCMD) and water 6,643 m<sup>3</sup>/day. The specific daily energy of Urea shall be reduced further by 0.354 GCal/MT of Urea. The total cost of the proposed project of installation of Gas Turbine Generator with Heat recovery steam generator is approx. Rs.36282 lakhs. The proposal does not envisage any change in product mix or change in rate of production. It aims to the reduction of natural resources namely natural gas (NG) & precious natural water. It is reported that Khadatal River is flowing at a distance of 3 km. Project site is located at a distance of 1 km from Arabian sea. Notified Archaeological site is at a distance of 7 km.

3.0 Adequate stack height will be provided to Gas Turbine Generator with Heat recovery steam generator. Low NOx burners shall be provided to control NOx emissions. Specific energy consumption for the fertilizer plant shall be 5.446Gcal/MT of urea. Efforts will be made to bring down the water consumption upto 6 m<sup>3</sup> per MT of urea production. Treated effluent will 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. Used oil/spent oil will be sent to authorized recyclers/re-processors.

4.0 All Chemical Fertilizer are listed at S.N. 5(a) under category 'A' and appraised at Central level.

5.0 Public hearing was exempted as per section 7 (ii) of EIA, Notification, 2006.

6.0 The proposal was considered by the Expert Appraisal Committee (Industry) in its 30<sup>th</sup> meeting held during 22<sup>nd</sup> – 23<sup>rd</sup> December, 2014 and 2<sup>nd</sup> meeting held during 16<sup>th</sup> -17<sup>th</sup> December, 2015 respectively. Project Proponent and the EIA Consultant namely M/s PDIL, Sindri have presented EIA / EMP report as per the TOR. EAC has found the EIA / EMP Report and additional information to be adequate 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 14<sup>th</sup> September 2006, subject to the compliance of the following Specific and General Conditions:

**A. SPECIFIC CONDITIONS :**

- i. Adequate stack height shall be provided to Gas Turbine Generator with Heat recovery steam generator. Low NOx burners shall be provided to control NOx emissions.
- ii. As proposed, specific energy consumption for the fertilizer plant shall be 5.446Gcal/MT of urea.
- iii. Efforts shall be made to bring down the water consumption upto 6 m<sup>3</sup> per MT of urea production.

- iv. 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.
- v. All the recommendations mentioned in the rapid risk assessment report, disaster management plan and safety guidelines shall be implemented.

**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 modification in the project shall be carried out without prior approval of the Ministry of Environment & 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 project authorities must strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous Chemicals Rules, 2000 as amended subsequently. Prior approvals from Chief Inspectorate of Factories, Chief Controller of Explosives, Fire Safety Inspectorate etc. must be obtained, wherever applicable.
- 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 EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).
- v. A separate Environmental Management Cell equipped with full fledged laboratory facilities must be set up to carry out the environmental management and monitoring functions.
- vi. Adequate funds shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures and shall be used to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government alongwith the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purposes.
- vii. The Regional Office of this Ministry/Central Pollution Control Board/State Pollution Control Board will monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.
- viii. A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad / Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions / representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.

- ix. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, HC (Methane & Non-methane), VOCs (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
- x. The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry / CPCB / SPCB shall monitor the stipulated conditions.
- xi. The environmental statement for each financial year ending 31<sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent 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 conditions and shall also be sent to the respective Regional Offices of the MOEF by e-mail.
- xii. 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 and may also be seen at Website of the Ministry of Environment and Forests 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 Regional office.
- xiii. 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 commencing the land development work.

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, Environment Department, Government of Maharashtra, 15th Floor, New Administrative Building, Mantralaya, Mumbai - 400 032
2. The Chief Conservator of Forests (Central), Kendriya Paryavaran Bhavan, Link Road No.3, Bhopal-462016.
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. The Chairman, Maharashtra Pollution Control Board, Kalpataru Point, 3<sup>rd</sup> and 4<sup>th</sup> floor, Opp. Cine Planet, Sion Circle, Mumbai-400 022.
5. Monitoring Cell, Ministry of Environment and Forests, Indira Paryavaran Bhavan, Jorbagh Road, New Delhi.
6. Guard File/Monitoring File/Record File/Notice Board.

  
(Lalit Bokolia)  
Additional Director

