

F. No. J-11011/17/2013-IA II (I)
Government of India
Ministry of Environment, Forests and Climate Change
(I.A. Division)

Indira Paryavaran Bhawan
 Aliganj, Jorbagh Road,
 New Delhi -110003

E-mail : lk.bokolia@nic.in
 Telefax : 011: 2436 0108
 Dated 9th October, 2014

To,

Dr. G.C. Kamdar
 Dy General Manager (EC) & MR
 M/s Gujarat State Fertilizer & Chemicals Ltd.
 Sikka Unit, Post-Motikhavdi,
 District-Jamnagar, Gujarat-361140.

E-mail: gck_su@gsfcld.com; Fax: 0288 2344034

Subject: Capacity Augmentation of existing DAP/NPK Plant of M/s Gujarat State Fertilizers & Chemicals Ltd, Sikka Unit, Post Motikhavdi, Jamnagar, Gujarat – Environmental Clearance reg.

Ref.: Your letter no. nil dated 31st January, 2014

Sir,

This has reference to your letter dated 31st January, 2014 alongwith project documents including Form I, Terms of References, Pre-feasibility Report, EIA/EMP Report and subsequent submission of additional information vide letters dated 13th February, 2014, 21st March, 2014 and 20th May, 2014 regarding above mentioned project. MoEF & CC vide letter no. 11-90/2012-IA.III dated 16th September, 2014 has granted CRZ clearance for dredging in front of existing captive jetty near turning circle, laying of additional pipeline and addition of Ammonia and Phosphoric Acid tanks in the existing Sikka Shore Terminal of Guld of Kutchch, Gujarat.

2.0 The Ministry of Environment and Forests has examined the application. It is noted that proposal is for capacity augmentation of existing DAP/NPK Plant of M/s Gujarat State Fertilizers & Chemicals Ltd, Sikka Unit, Post Motikhavdi, Jamnagar, Gujarat. Total plot area 104000 m². The marine national park is located at a distance of 7 km from the project site. Total plot area is 235.2 ha of which greenbelt will be developed in 33.86 ha. Project cost is Rs. 900 crores. The environmental clearance for the DAP/NPK plant A,B trains and DAP/NPK plant C trains was obtained from MOEF on 31.7.1990 and 11.12.2001 respectively. Marine National Park (Gulf of Kutch) is located at a distance of 7 Km. A copy of letter no. WLP/32/B/1041-42 of 2014-15 dated 6th May, 2014 issued by Principal Chief Conservator of Forests, Wildlife, Gujarat State, Gandhinagar has been submitted, wherein it is mentioned that the required area is not a part of Marine Sanctuary and Marine National park and is also outside of Eco-sensitive Zone of MNP and Marine Sanctuary. Following are the details of the existing and proposed products details.

S.N.	Product details	Existing Capacity MTPA	Proposed Capacity MTPA	Total MTPA
1.	DAP/NPK	9.846 Lakhs	5.4 Lakhs	15.246 Lakhs

Associated facilities (Isolated storages details)

- i. Installation of three phosphoric acid and two ammonia tanks of 10000 MT capacity at Sikka Shore Terminal

for

- ii. Installation of one ammonia tank and one phosphoric acid tank of 10000 MT capacity within the plant premises
- iii. Laying of ammonia and phosphoric acid pipeline (10 Km) on the existing over head structure from Sikka shore terminal to plant site.

There are 2 storage tanks of 3000MT in the plant and decided that there would be 2 storage tanks of 10,000 MT capacity and storage at any time will not exceed 16,000 MT of a total capacity of 26,000MT. Transportation of liquid raw material (ammonia & Phosphoric acid) by overhead pipeline from Jetty to Sikka Shore Terminal and Sikka Shore Terminal to plant site. Ammonia will be transported by tail tankers. Transportation of sulphuric acid and furnace oil will be by road tanker. Finish product will be transported by truck and rail wagon.

3.0 Bagfilter with extraction system will be provided at raw material handling area. Scrubber system will be installed at product bagging area. Venturi scrubber and cyclone will be provided in the process plant. Fresh water requirement from ground water source will be increased from 1500 m3/day to 2160 m3/day after expansion. Effluent generated will be treated in the Effluent Treatment Plant and treated effluent will be recycled/reused in the process. No effluent will be discharged outside the plant premises and 'Zero' effluent discharge concept will be followed. ETP sludge will be sent to Treatment Storage Disposal Facility (TSDF) for hazardous waste. Spent catalysts and used oil will be sold to authorized re-processors/recyclers.

4.0 Public hearings/public consultation was held on 17th January, 2014.

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 6th, 18th and 20th meetings held during 5th-7th March, 2013, 28th-30th April, 2014 and 23rd-24th June, 2014 respectively. The Committee recommended the proposal for environmental clearance. Project Proponent and the EIA Consultant namely Bhagvati Ana Labs 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) All the conditions stipulated in environmental clearance letter dated 31st July, 1990, and letter no. J-11011/26/2001-IA (II) dated 11th December, 2001 accorded for the existing projects shall be implemented.
- ii) All the conditions stipulated in CRZ clearance letter no. 11-90/2012-IA.III dated 16th September, 2014 shall be implemented.
- iii) The gaseous emissions (SO₂, Nox, NH₃, HC, F) 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 regularly.
- iv) Ammonia bearing fumes from the reactor and granulator of the Complex Fertilizer shall be scrubbed. Scrubbing shall have interlocking system with main plant. Cyclone

for

followed by bag filter shall be provided to raw material handling area. Venturi scrubber and cyclone shall be provided in the process plant.

- 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, SO₂, NO_x, Ammonia, Ozone, Fluoride 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 Gujarat Pollution Control Board (GPCB).
- 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 GPCB.
- 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) Total fresh water requirement from Gujarat Water Infrastructure Ltd./ ground water source shall not exceed 2160 m³/day. Permission from Central Ground Water Authority/ State Ground Water Authority may be obtained and submitted to the Ministry's Regional Office at Bhopal. PP shall construct additional rain water recharge pond with capacity of 15,000 m³.
- ix) Efforts shall be made to make use of rain water harvested. If needed, capacity of the reservoir shall be enhanced to meet the maximum water requirement. Only balance water requirement shall be met from other sources. As proposed, Check dams with water storage capacity 3780 m³ and 4500 m³ respectively shall be created near plant premises.
- x) As proposed, industrial effluent shall be treated in effluent treatment plant (ETP) and recycled back in the process. Sewage shall be treated in STP and treated water shall be recycled/reused within factory premises.
- xi) 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, Fluoride etc) shall be provided with high level alarm system.
- xii) Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.
- xiii) Regular monitoring of ground water by installing peizometric wells around the guard pond shall be periodically monitored and report shall be submitted to the concerned Regional Office of the Ministry, CPCB and SPCB.
- xiv) 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.
- xv) 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.
- xvi) Spent catalysts and used oil shall be sold to authorized recyclers/re-processors only.

- xvii) The process of dredging should not cause any additional sediment load on coral and mangrove area in Gulf of Kutch water flow and mud. A Committee to be constituted as proposed by Wildlife Gujarat State and report to them after dredging.
- xviii) 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.
- xix) 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.
- xx) All the commitments made to the public during Public Hearing/public consultation meeting held on 17th January, 2014 shall be satisfactorily implemented and adequate budget provision shall be made accordingly.
- xxi) At least 5 % of the total cost of the project shall be earmarked towards the Enterprise Social Commitment (ESC) based on Public Hearing issues and item-wise details along with time bound action plan 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.
- xxii) The company shall strictly follow all the recommendations mentioned in the Charter on Corporate Responsibility for Environmental Protection (CREP).
- xxiii) 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.
- xxiv) Occupational health surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.
- xxv) A comprehensive Green belt development plan shall be developed in at least 33 % area in and around the plant as per the CPCB guidelines to mitigate the effects of air emissions in consultation with local DFO.
- xxvi) 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 Gujarat Pollution Control Board (GPCB), 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 Gujarat Pollution Control Board (GPCB) 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.
 - 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 Gujarat 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 Gujarat 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 Bhopal Regional Offices of MoEF by e-mail.

6

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 will 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 Inspector General, Wildlife, Ministry of Environment, Forests & Climate Change, Indira Paryavaran Bhavan, New Delhi.
2. The Principal Secretary, Forests & Environment Department, Government of Gujarat, Sachivalaya, 8th Floor, Gandhi Nagar - 382 010, Gujarat.
3. The Chief Conservator of Forests (Western Zone), Ministry of Environment & Forests, Regional Office, E-5, Arera Colony, Link Road -3, Bhopal -462 016, M.P.
4. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
5. The Chairman, Gujarat State Pollution Control Board, Paryavaran Bhawan, Sector 10 A, Gandhi Nagar-382 043, Gujarat.
6. Monitoring Cell, Ministry of Environment, Forests & Climate Change, Indira Paryavaran Bhavan, New Delhi.
7. Guard File/Monitoring File/Record File.



(Lalit Bokolia)
Additional Director