



By Speed Post/Online

F. No. J-11011/464/2017-IA-II(I)

Government of India
Ministry of Environment, Forest & Climate Change
Impact Assessment Division

Indira Paryavaran Bhawan,
Vayu Wing, 3rd Floor, Aliganj,
Jor Bagh Road; New Delhi-110 003

Dated:13th October, 2020

To,

M/s GAIL India Limited
GAIL JUBILEE TOWER, PLOT NO B-35-36,
SECTOR-1, Gautam Buddha Nagar,
NOIDA, UP -201301
Email: mvsmurthy@gail.co.in

Sub: Setting up of 500 KTA Propane Dehydrogenation unit integrated with Polypropylene Unit by M/s GAIL India Limited located at Usar Industrial Area, Village Usar, Tehsil Alibag, District Raigad, Maharashtra - Reconsideration of Environment Clearance regarding

Sir,

This has reference to your online proposal No. IA/MH/IND2/69404/2017 dated 23 Apr 2020 for environmental clearance to the above mentioned project.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the project for setting up of 500 KTA Propane Dehydrogenation unit integrated with Polypropylene Unit by M/s GAIL India Limited located at Usar Industrial Area, Village Usar, Tehsil Alibag, District Raigad, Maharashtra.

3. The details of products and capacity as under:

S.No.	Product Details	Existing Quantity (KTPA)	Proposed Quantity (KTPA)	Total Quantity (KTPA)
1.	Polypropylene	0	500	500
2.	C4 LPG	0	25	25
	Total	0	525	525

4. The total land area requirement of the project is 160 acres. The land is available within existing GAIL Usar plant complex (Total area available: 321 acres). Proponent will develop greenbelt in an area of 33 % i.e.106 acres out of 321 acres of the total complex area. The estimated project cost is Rs.6706.67

crores. Total capital cost earmarked towards environmental pollution control measures is Rs.10.25 crores and the recurring cost (operation and maintenance) will be about Rs.1.38 crores per annum. Direct employment will be 330 persons during operation & indirect employment for 2500 persons during construction phase (peak). GAIL proposes to allocate Rs.20.77 crores towards Corporate Environment Responsibility (CER).

5. Total fresh water requirement will be 11,520 m³ / day (480 m³/hr) which will be met from supply of Maharashtra Industrial Development Corporation (MIDC). There shall be 15 m³/hr of liquid effluent generation from proposed plant which will be treated in Effluent Treatment Plant. ETP treated waste water will be recycled through Zero Liquid Discharge (ZLD) plant. There will not be any liquid effluent discharge from plant.

6. Power requirement for the proposed project will be 125 MW and sourced from state electricity grid. There will be 1 no. new DG set of 3 MW capacity used during power failure. Stack height of 30 m will be provided as per CPCB norms to the proposed DG set. Existing GAIL Usar plant has 5 TPH FG/NG fired boiler. Additionally, (1 + 1) x 50 TPH FG/NG fired boiler (1 working, 1 standby) will be installed. Minimum Stack height of 35 m will be provided for the proposed boiler stack.

7. The project/activity is covered under category "A" of items 5(c) "Petrochemical complexes" of Schedule of Environmental Impact Assessment (EIA) Notification 2006 and requires appraisal at Central Level by Expert Appraisal Committee (EAC).

8. The Standard ToR has been issued by the Ministry vide letter no. IA-J-11011/464/2017-IA-II (I) dated 26th October, 2017 (ref. point no. 6 of Form-2). Public Hearing was conducted on 21.06.2019, which was presided over by the Additional District Magistrate, Raigad. The main issues raised during the public hearing were related to Employment to Project Affected Persons (PAP), Land Compensation to PAP, Employment to Locals, Employment after imparting training / Skill development program, CSR, Insurance to Nearby Villagers. There is no litigation pending against the proposal.

9. GAIL previously obtained Environmental Clearance (EC) for LPG Recovery Project in 1992 vide file no. J-11011/22/91-1A-II(I) dated 29/04/1992 and 11/11/1992. LPG recovery Plant at Usar was commissioned in 1998. Presently, LPG Usar plant is under shutdown due to non-availability of rich gas. GAIL submitted compliance to EC to Regional Office-MoEFCC vide letter no. GAIL/USR/LPG/TS/755/03-04 dated 06/03/2004.

10. The proposal was considered by the EAC in its 22nd meeting held on 20th August, 2020 in the Ministry, wherein the project proponent and their consultant M/s. Engineers India Limited presented the EIA/EMP report as per the

ToR. The Committee found the EIA/EMP report complying with the ToR and recommended the project for grant of environmental clearance.

11. The EAC, constituted under the provision of the EIA Notification, 2006 and comprising of Experts Members/domain experts in various fields, have examined the proposal submitted by the Project Proponent in desired form along with EIA/EMP report prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent. The EAC noted that the Project Proponent has given undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP report. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

12. The Committee noted that the EIA/EMP report is in compliance of the ToR issued for the project, reflecting the present environmental concerns and the projected scenario for all the environmental components. The Committee has found the baseline data and incremental GLC due to the proposed project within NAAQ standards. The Committee has also deliberated on the public hearing issues, action plan and the CER plan and found to be addressing the issues in the study area. Certified report on compliance of existing EC conditions also found to be satisfactory. The Committee also found the additional studies and information submitted and presented by the project proponent to be satisfactory

13. The environmental clearance granted to the project/activity is strictly under the provisions of the EIA Notification 2006 and its amendments. It does not tantamount/construe to approvals/consent/ permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

14. Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-2), Ministry of Environment, Forest and Climate Change hereby accords environmental clearance to the project for **Setting up of 500 KTA Propane Dehydrogenation unit integrated with Polypropylene Unit by M/s GAIL India Limited located at Usar Industrial Area, Village Usar, Tehsil Alibag, District Raigad, Maharashtra**, under the provisions of the EIA Notification, 2006, and the amendments therein, subject to compliance of the terms and conditions as under:-

A. Specific Condition

- (i) The company shall 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

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management, and risk mitigation measures relating to the project shall be implemented.

- (ii) As already committed by the Project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises. All the waste water to be collected and to be reused after treatment.
- (iii) To control source and the fugitive emissions, suitable pollution control devices shall be installed with different stacks to meet the prescribed norms as notified by MOEFCC 2012 for new refineries.
- (iv) Total fresh water requirement shall not exceed 480 cum/hour to be met from MIDC water supply. Necessary permission in this regard shall be obtained from the concerned regulatory authority.
- (v) Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.
- (vi) Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm, and solvent transfer to be done through pumps.
- (vii) Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF. The ash from boiler shall be sold to brick manufacturers/cement industry.
- (viii) Regular VOC monitoring shall be done at vulnerable points.
- (ix) The oily sludge shall be subjected to melting pit for oil recovery and the residue shall be bio-remediated. The sludge shall be stored in HDPE lined pit with proper leachate collection system.
- (x) Comprehensive water audit to be conducted on annual basis and report to the concerned Regional Office of MEF&CC. Outcome from the report to be implemented for conservation scheme.
- (xi) Oil catchers/oil traps shall be provided at all possible locations in rain/ storm water drainage system inside the factory premises.
- (xii) The company shall undertake waste minimization measures as below: -
 - a) Metering and control of quantities of active ingredients to minimize waste.
 - b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
 - c) Use of automated filling to minimize spillage.
 - d) Use of Close Feed system into batch reactors.
 - e) Venting equipment through vapour recovery system.
 - f) Use of high pressure hoses for equipment cleaning etc. to reduce wastewater generation.
- (xiii) The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.
- (xiv) As committed Rs. 20.77 crores shall be allocated for Corporate Environment Responsibility (CER) shall be utilized for meeting the commitment of the issues of public hearing. The CER plan shall be completed before commissioning of the expansion of the project.

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- (xv) A separate Environmental Management Cell (having qualified person with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- (xvi) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms.
- (xvii) Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. In case of the treated effluent to be utilized for irrigation/gardening, real time monitoring system shall be installed at the ETP outlet.
- (xviii) PP to set up occupational health Centre for surveillance of the worker's health within and outside the plant on a regular basis. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.
- (xix) The National Emission Standards for Petrochemical (Basic & Intermediates) issued by the Ministry vide G.S.R. 820 (E) dated 9th November, 2012 as amended time to time shall be followed.
- (xx) Recommendations of mitigation measures from possible accident shall be implemented based on Risk Assessment studies conducted for worst case scenarios using latest techniques.

B. : General Condition:

- (i) No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA, as applicable. 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/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- (ii) The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.
- (iii) 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 the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- (iv) The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CER activities shall be undertaken by involving local villages and administration and shall be implemented. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.

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- (v) The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change 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.
- (vi) A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.
- (vii) 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&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.
- (viii) The environmental statement for each financial year ending 31st 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 along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.
- (ix) 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 and at <https://parivesh.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.
- (x) 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.
- (xi) This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.

15. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.

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16. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.

17. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

18. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 read with subsequent amendments therein.

19. This issues with the approval of the competent authority.

Ashok Kr Pateshwary
13.10.2020

(Ashok Kr Pateshwary)
Director, MoEF&CC

Copy to:-

1. The Principal Secretary, Environment Department, Government of Maharashtra, 15th Floor, New Administrative Building, Mantralaya, Mumbai, 400032
2. 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)
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi -32
4. The Member Secretary, Maharashtra Pollution Control Board, Kalpataru Point, 3rd & 4th Floor, Opp. Cine Market, Sion Circle, Mumbai-400022
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh road, New Delhi
6. District Magistrate, Raigad, Maharashtra
7. Guard File/Monitoring File/Parivesh Portal/Record File

Ashok Kr Pateshwary
13.10.2020

(Ashok Kr Pateshwary)
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