



**File No. J-11011/390/2006-IA-II(I)**  
Government of India  
Ministry of Environment, Forest & Climate Change  
Impact Assessment Division

\*\*\*

Indira Paryavaran Bhawan,  
Jal Wing, 3<sup>rd</sup> Floor, Aliganj,  
Jor Bagh Road, New Delhi-110 003

Dated: 30<sup>th</sup> June, 2021

To,

**M/s Brahmaputra Cracker and Polymer Limited,**  
Lepetkata, Dibrugarh West,  
Dibrugarh, Assam.

**Sub: Expansion of Petrochemical Complex by setting up Hydrogenated Pyrolysis Gasoline - 2nd stage & Butene-1 units by M/s Brahmaputra Cracker and Polymer Limited located at Lepetkata, Dibrugarh West, Dibrugarh, Assam- Consideration of Environment Clearance reg.**

Sir,

This has reference to your online proposal no. IA/AS/IND2/204512/2019, dated 06<sup>th</sup> May, 2021 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 expansion of Petrochemical Complex by setting up Hydrogenated Pyrolysis Gasoline - 2nd stage & Butene-1 units by M/s Brahmaputra Cracker and Polymer Limited located at Lepetkata, Dibrugarh West, Dibrugarh, Assam.
3. 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 appraised at Central Level by Expert Appraisal Committee (EAC).
4. Standard ToR has been issued by Ministry vide letter no. J-11011/390/2006-IA-II(I) dated 22nd November, 2019 for the proposed project. Public Hearing for the proposed project has been conducted by the Pollution Control Board, Assam on 28.12.2020 Sukapha Bhawan, Barbaruah Village, and P.O. Lepetkata, District - Dibrugarh near to the petrochemical complex. The hearing was presided over by the Additional Deputy Commissioner, Dibrugarh. The main issues raised during the public hearing were related to employment generation, socio economic development, noise pollution, surface water pollution, greenbelt development, compensation amount against land acquisition. As informed, no Litigation is pending against the proposal.
5. MoEFCC has issued the following Environmental Clearances in favor of M/s Brahmaputra Cracker and Polymer Limited. The details of all ECs are given below.

*[Handwritten signature]*

S. No.	Project Name	MoEFCC File No.	EC issued Date
1	Petroleum Complex at Lepetkata, District Dibrugarh in Assam by M/s Reliance Assam Petrochemicals Limited (RAPL)	J-11011/61/2001-IA (II)-I	May 14, 2003
2	Petroleum Complex at Lepetkata, District Dibrugarh in Assam by M/s Reliance Assam Petrochemicals Limited (RAPL) - Transfer of Environmental Clearance (EC) to GAIL	J-11011/61/2001-IA (II)-I	June 13, 2005
3	Transfer of EC from GAIL (INDIA) Limited to M/s Brahamputra Cracker and Polymer Limited (BCPL), Lepetkata, Assam	J-11011/390/2006-IA II-(I)	September 23, 2011
4	Corrigendum to EC for GAIL LPG Recovery Lakwa Unit Modification, Compressor station & Gas Dehydration Unit (GDU) at Duliajan, newly located railway siding facility for Naptha unloading along with naphtha pipeline and C2+ liquid pipeline from lakwa to Lepetkata of M/s BCPL Petrochemical Project at Lepetkata.	J-11011/390/2006-IA II-(I)	September 23, 2011

**6. The details of products and capacity are as under: -**

S.No.	Product Details	Existing Quantity (TPA)	Proposed Quantity (TPA)	Total Quantity (TPA)
1.	LLDPE/HDPE	220000	-	220000
2.	Pyro Gasoline	43054	-	43054
3.	Polypropylene	60000	-	60000
4.	HPG (Hydrogenation of Pyrolysis Gasoline)	0	52000	52000
5.	Butene-1	0	10000	10000
6.	Fuel Oil	9728	-	9728
7.	Wash Oil	0	9500	9500

**7. PP informed that the total land area requirement of the proposed project is**

*37.2*

1 Ha which is within existing petrochemical complex premises of 399.39 Ha. BCPL has already developed a greenbelt area of 95.23 Ha in the existing petrochemical complex. Proponent will develop additional greenbelt in an area of 37.04 Ha. The total greenbelt area will be 132.27 Ha which is 33.1% of the total petrochemical complex. The estimated project cost is Rs. 386.75 crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 2.15 crores and the recurring cost (operation and maintenance) will be about Rs.0.8 crores per annum. Direct employment will be 20 persons & indirect employment will be 50 persons after expansion. BCPL proposes to allocate Rs. 2.90crores towards Corporate Environment Responsibility (CER).

**8.** There are no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km distance from the project site. River Sessa, river BurhiDihing and river Brahmaputra are flowing at a distance of 0.6 Km in West direction, 4.9 Km in West direction and 9 km in NW direction respectively.

**9.** Ambient air quality monitoring was carried out at 8 locations during January to March 2020 and the baseline data indicates the ranges of concentrations as PM10 (65-75 µg/m<sup>3</sup>), PM2.5 (42-50 µg/m<sup>3</sup>), SO<sub>2</sub> (10-14µg/m<sup>3</sup>) and NO<sub>2</sub> (18-24.9 µg/m<sup>3</sup>) respectively. Air quality modeling was not required as there is no stack envisaged for the proposed project. The ambient air quality concentrations are within the National Ambient Air Quality Standards (NAAQS).

**10.** Fresh water requirement for proposed expansion project will be 70 m<sup>3</sup>/hr including the intermittent use of borewell water. The water requirement of existing complex is 586 m<sup>3</sup>/hr. Total water requirement after proposed expansion of the complex will be 656 m<sup>3</sup>/hr. Water demand will be met from Burhi Dihing river and borewell (intermittent). Effluent will be treated in existing Effluent Treatment Plant inside the petrochemical complex. The treated effluent of 152 m<sup>3</sup>/hr will be discharged to Brahmaputra river through a pipeline.

**11.** Power requirement for the proposed project will be 1.2 MW and sourced from state electricity grid and existing CPP. Existing petrochemical complex has 2 DG sets of 5120 KVA capacity, additionally 01 DG set of 1000 KVA will be used as standby during power failure. Adequate Stack height will be provided as per CPCB norms to the proposed DG set. Existing petrochemical complex has 160 TPH Fuel Gas fired boiler. No additional boiler is envisaged for the proposed project.

**12. Details of process emissions generation and its management:**

There will be no SO<sub>x</sub> emission from the proposed project as no fired heater is envisaged. For emission management, use of Fuel Gas in heater as fuel, adequate stack height, use of Low NO<sub>x</sub> burners in heater & boiler, continuous stack monitoring, developing green belt etc. shall be carried out.

**13. Details of Solid waste/Hazardous waste generation and its management:**

*3/11/20*

Hazardous solid waste like spent catalyst will be disposed off to CPCB approved recyclers. ETP sludge will be disposed off to existing bioremediation /CPCB approved recyclers.

**14.** Certified compliance report was issued by Integrated Regional Office, MoEFCC, Guwahati vide letter no. RO-NE/E/IA/AS/OR/7/355-359 dated 19/04/2021.

**15.** During deliberations, EAC desired that PP should reduce the effluent discharged to Brahmaputra River by 20% i.e. from 190 m<sup>3</sup>/hr to 152 m<sup>3</sup>/hr. PP agreed for the same. Also, directed PP to conduct 3D modeling for determining cumulative risk to the nearby environment and local people.

**16.** The proposal was considered by the EAC in its 35<sup>th</sup> meeting held on 2-3<sup>rd</sup> June, 2021 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.

**17.** 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.

**18.** 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 is within NAAQ standards. The Committee has deliberated the action plan proposed by the project proponent to arrest the incremental GLC due to the project. The Committee has also deliberated on the CER plan and found to be addressing the issues in the study area. The EAC has deliberated the proposal and has made due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC have found the proposal in order and have **recommended** for grant of environmental clearance.

**19.** The EAC has deliberated the proposal and has made due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC have found the proposal in order and have

*3/2/21*

**recommended** for grant of Environmental Clearance.

**20.** 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.

**21.** 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 **Expansion of Petrochemical Complex by setting up Hydrogenated Pyrolysis Gasoline - 2nd stage & Butene-1 units by M/s Brahmaputra Cracker and Polymer Limited located at Lepatkata, Dibrugarh West, Dibrugarh, Assam**, 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 management, and risk mitigation measures relating to the project shall be implemented.
- (ii). Total fresh water requirement shall not exceed 656 cum/hr, proposed to be met from BurhiDihing river and borewell (intermittent). Necessary permission in this regard shall be obtained from the concerned regulatory authority.
- (iii). 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.
- (iv). Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.
- (v). 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.
- (vi). 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.
- (vii). Regular VOC monitoring shall be done at vulnerable points.

Sub

- (viii). 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.
- (ix). Oil catchers/oil traps shall be provided at all possible locations in rain/ storm water drainage system inside the factory premises.
- (x). 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.
- (xi). The green belt of 5-10 m width shall be developed in 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.
- (xii). As per the Ministry's OM dated 30.09.2020 superseding the OM dated 01.05.2018 regarding the Corporate Environmental Responsibility, and as per the action plan proposed by the project proponent to address the socio-economic and environmental issues in the study area, the project proponent, as committed, shall provide education funds in technical training centers/ support in nearby village's schools, support in health care facilities, drinking water supply and funds for miscellaneous activities like solar street lights, battery, solar panel etc., in the nearby villages. The action plan shall to be completed within time as proposed.
- (xiii). The project proponent shall ensure 70% of the employment to the local people, as per the applicable law. The project proponent shall set up a skill development center/provide skill development training to village people.
- (xiv). 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.
- (xv). 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 norms.
- (xvi). 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.
- (xvii). 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

*3/2*

be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.

- (xviii). The National Emission Standards for Petrochemical (Basic & Intermediates) issued by the Ministry vide G.S.R. 820 (E) dated 9<sup>th</sup> November, 2012 as amended time to time shall be followed.
- (xix). Recommendations of mitigation measures from possible accident shall be implemented based on Risk Assessment studies conducted through 3D modeling 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.
- (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

3/2/2

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 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 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.

**22.** 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.

**23.** 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.

**24.** 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.

**25.** 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.

**26.** This issues with the approval of the competent authority.

*Ashok Kr. Pateshwary*  
30/06/2021

**(Ashok Kr. Pateshwary)**  
**Director**

**Copy to: -**

1. The Secretary, Environment & Forest, H-Block, 2<sup>nd</sup>Floor, Janata Bhawan, Disupr, **Guwahati** - 781006 (Assam)
2. Inspector General of Forests, Ministry of Env., Forest and Climate Change, Integrated Regional Office, Guwahati, 4th Floor, HOUSEFED Building, G.S. Road Rukminigaon, Guwahati - 781022
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi - 32
4. The Member Secretary, Pollution Control Board Assam, Bamunimaidam, Guwahati - 21 (Assam)
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, New Delhi
6. District Collector, Dibrugarh, Assam
7. Guard File/Monitoring File/ Parivesh Portal /Record File

*Ashok Kr. Pateshwary*  
30/06/2021

**(Ashok Kr. Pateshwary)**  
**Director**

**E-mail: ak.pateshwary@gov.in**  
**Tel. No. 24695290**