



Plant:
Post Box No.-12, Durgachak,
Haldia, Dist. - Purba Medinipore
West Bengal, Pin-721602, India
Tel.: +91 (03224) 274007/384/400/876
WEBSITE : www.haldiapetrochemicals.com
CIN:U24100WB2015PLC205383

HPL/IMS/HSEF/R/4.3.2/08/ENV/E-06/MoEF&CC

May 31, 2025

Dr. Shahida Parvin Quazi
Scientist-E
Ministry of Environment, Forest and Climate Change
Regional Office, Bhubaneswar
Sub-Office, Kolkata
IB – 198, Sector-III, Salt Lake City,
Kolkata – 700 106

Sub: Half Yearly Report on the Status of Compliance against Conditions of Environmental Clearance for expansion in Propylene, Phenol & Acetone capacity (within 20%) along with Olefin Conversion Unit

Madam,

With reference to the above subject, please find enclosed herewith the following documents for your kind perusal.

- A. Compliance Status against conditions stipulated in "Environmental Clearance" for the period of October '24 to March '25

Reference letter no. J-11011/194/2016-IA II (I) dated 08.08.24 for expansion in Propylene, Phenol & Acetone capacity (within 20%) along with Olefin Conversion Unit.

- B. Half Yearly Environmental Data Generation Report (October '24 to March '25).

Trust the above will meet your requirements. In case you need to have further information pertaining to these reports, please do write to us.

Thanking you,

Yours very truly,

Praveen Jain
Sr. GM & Head HSEF

CC: The Regional Directorate
CPCB, Kolkata

CC: The Member Secretary
WBPCB, Kolkata

**HALF YEARLY COMPLIANCE
REPORT OF THE CONDITIONS OF
THE ENVIRONMENTAL CLEARANCE
FOR EXPANSION IN PROPYLENE,
PHENOL & ACETONE CAPACITY
(WITHIN 20%) ALONGWITH
OLEFIN CONVERSION UNIT (OCU)**

PERIOD: OCTOBER 2024 TO MARCH 2025

J-11011/194/2016-IA-II(I)



HALDIA PETROCHEMICALS LTD

P.B.NO. – 12

P.O – DURGACHAK, HALDIA

DIST – PURBA MEDINIPUR

PIN – 721602

WEST BENGAL

EC Identification No. EC24A2101WB5692081N dated 08.08.2024

File No. J-11011/194/2016-IA-II(I)

Subject: Expansion in Propylene, Phenol & Acetone capacity (within 20%) alongwith Olefin Conversion Unit (OCU) at the existing plant facility at Tehsil Sutahata-I, Haldia, Dist: East Medinipur, West Bengal by M/s. Haldia Petrochemicals Limited – Consideration of Environment Clearance reg.

Specific EC Conditions for petroleum Products And petrochemical based Processing such As production Of carbon Black And Electrode Grade Graphite (processes Other Than Cracking)

1. Petroleum Products and Petrochemical Based Processing Such As Production of Carbon Black And Electrode Grade Graphite (Processes Other Than Cracking)

S. No.	EC Conditions	Status as on 31.03.2025
1.1	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 (Annexure-IV).	Shall be complied.
1.2	Total freshwater requirement shall not exceed 45410 KLD which will be met by the Haldia Development Authority. Necessary permission in this regard shall be obtained from the concerned regulatory authority. The freshwater requirement shall be reduced after installation of rainwater harvesting system in the unit/project area.	Average Freshwater Consumption for October'24 to March'25 is 43824.7 KLD. HPL has necessary agreement with HDA for supply of freshwater. Existing rainwater harvesting system is being further augmented to reduce freshwater requirements. Around 266679 m3 of rainwater was utilized during October'24 to March'25.
1.3	Industry shall comply with undertaking submitted for reusing 10% of treated process effluent by mid-2025; to reuse and recycle 50% treated effluent by December 2026 and to adhere action plan submitted for achieving ZLD by 2030.	Actions have been initiated for recycling of treated process effluent from Wastewater Treatment Plant (WWTP) as cooling tower make-up. Design Basis Report has been finalized by Engineering Consultant (DCPL) and Tendering process for effluent recycling has been initiated. Based on Expression of Interests (EOIs) submitted, selection of potential bidders is under progress. 50% recycling scheme of treated effluent will be achieved by December 2026.
1.4	PP shall increase CoC to more than seven and switch from water-cooled system in the CPP to air-cooled system by 2026.	CoC was maintained more than seven when Chloride level was very low in the supplied raw water.

		Work Order was issued to a reputed engineering consultant (DCPL) on 21 st February 2025, for Feasibility study on switch from water cooled system to air cooled system in CPP.
1.5	Comprehensive water audit shall be conducted annually and a report submitted to the concerned Regional Office of MoEFCC. Outcome from the report to be implemented for conservation scheme.	A comprehensive water audit through an accredited agency (CII) was done in February'25 and the final report with recommendations is being prepared by CII which is expected to be submitted shortly.
1.6	Process effluent/ any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through the guard pond.	<p>In no way process effluent/wastewater is getting mixed with storm water.</p> <p>Our petrochemical complex has been designed in late 1990s and commissioned in the year 2000. As per prevailing best practices, storm water from potential contaminated areas has been routed to effluent pits of ISBL unit through 2-valve pits and are routed to WWTP for treatment and disposal. 2 nos. of guard ponds have been provided within WWTP.</p> <p>Storm water from non-contaminated areas flow through surface drain. Six sluice gates have been installed in the storm water channel at different locations in the Complex to handle any emergency situation, during which, it can be transferred to WWTP through underground sewerage system for treatment and disposal.</p> <p>Full Compliance</p>
1.7	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.	<p>All the hazardous chemicals are stored in properly designed tanks, drums, carboys etc.</p> <p>Necessary flame arrester, fire water spray system/hydrant/monitors/foam chambers have been provided in the tank farm as per standard practice.</p> <p>Solvent is transferred through pump only.</p> <p>Full Compliance</p>
1.8	Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF. The ash from the boiler shall be sold to brick manufacturers/cement industry.	<p>The ash from the boilers was sold to brick & cement manufacturers and also utilized for internal landfilling purpose.</p> <p>Sludge from WWTP was sent to Cement Kiln for Co-processing purpose.</p> <p>Full Compliance</p>
1.9	Regular VOC monitoring shall be done at vulnerable points.	<p>Fugitive emission/VOC is monitored periodically in every unit across the plant under the Leak Detection & Repair Program and reports are submitted to MoEF&CC along with the six-monthly compliance report.</p> <p>Full Compliance</p>

1.10	The oil sludge shall be subjected to melting pit for oil recovery and the residue shall be bioremediated. The sludge shall be stored in HDPE lined pit with proper leachate collection system.	Not Applicable. In case of any oil sludge generation, proposed guidelines would be followed.
1.11	Oil catchers/oil traps shall be provided at all possible locations in rain/storm water drainage system inside the factory premises.	Oil trap has been provided in the peripheral drain of Waste/Used Oil Storage Yard. As an additional safety measure, six sluice gates are installed in the storm water channel at different locations in the Complex to handle any emergency situation/spillage of hydrocarbon, if any. Full Compliance
1.12	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 vapor recovery system. f) Use of high-pressure hoses for equipment cleaning etc. to reduce wastewater generation.	HPL will adopt necessary measures for minimization of the wastes as applicable viz. (a) Resue of by-products like Ethylene, Propylene, C6 Raffinate, Py-Gas, C4-LPG as raw materials in different manufacturing processes of olefins/polymers. (b) Few chemicals manufactured by us are also used as raw materials in other industries. (c) Automated filling and loading system exists for continuous process reactors. (d) All process vents are connected with the flare stack of 120 m high. Benzene vapor is recovered in Benzene Recovery Unit during occasional tanker loading. (e) Hydro jetting techniques at a very high pressure (350-400 kg/cm ²) are adopted for cleaning of process equipment. Full Compliance
1.13	The greenbelt of 5-10 m width in total area of 117.39 i.e., 26% of the total plant area shall be developed and maintained the plant premises. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department. Saplings 4-6 feet high shall be planted. Selection of plant species shall be as per the CPCB guidelines and in consultation with the State Forest Department and native species shall be only planted. Industry shall comply with the MOU obtained vide letter No. 03/PCCF&HoFF/PA/2024 dated 12.06.2024 for 50 ha CSB plantation in Purba Medinipur district during the period 2024-25 to 2027-28. EAC	The plant is surrounded by a greenbelt (103 ha) of width 50-100 m which is around 23% of the project area. The additional greenbelt (~3%) will be developed in the earmarked area available within the project site along with densification job in the existing greenbelt by Green Project Wing, West Bengal Forest Development Corporation. Necessary soil testing and field survey was done by Green Project Wing. Around 1.175 Lacs of tress were present inside greenbelt surrounding HPL as on October'24.

	directed that after 2027-28, the Industry shall take the responsibility of maintaining the plantation and shall regularly update the maintenance status to the Regional Office, MoEF&CC along with six monthly compliance reports. PP shall submit undertaking for enhancement & densification of the existing Greenbelt with tree density of 2500 trees/Ha. Trees shall be planted in the Green Belt under the campaign and uploaded on the MeriLiFE portal (https://merilife.nic.in/).	An additional land area (50 Ha) is being undertaken for plantation on long term basis. . Necessary information regarding plantation of trees in the Greenbelt shall be uploaded in the MeriLiFE portal subsequently.
1.14	PP proposed to allocate Rs. 03.00 Crore towards CER (Annexure-V)	CER projects are being undertaken as per EC stipulations. The company is in discussion with the office of District Magistrate for implementation of identified projects.
1.15	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.	Separate Environmental Management Cell had been functional since inception. Two full-fledged laboratory facilities (Water & Air) were set up inside the complex through a 3 rd party (Scientific Research Laboratory), duly recognized by WBPCB, CPCB and accredited by NABL. Full Compliance
1.16	The unit shall make the arrangement for the protection of possible fire hazards during the manufacturing process in material handling. The fire fighting system shall be as per the norms.	All the required fire protection systems have been installed as per appropriate OISD-116 guidelines. Full compliance
1.17	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. PP shall ensure that the concentration of pollutants in the ambient air quality remain within the norms specified in NAAQS 2009. In case any exceedance of air quality parameters is observed, the unit shall take action to curtail its activities immediately, till such time the ambient air quality is restored within the norms and inform the status to RO, MoEF&CC.	Continuous online emission monitoring system are being installed in the proposed stacks of the heaters of the Phenol & OCU and online data will be sent to CPCB server after due installation and commissioning & validation of data of the SO _x , NO _x & PM analysers. HPL will ensure to maintain the ambient air quantity as per the standards specified in NAAQS 2009.
1.18	PP to set up Occupational Health Centre for surveillance of the workers 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.	An Occupational Health Centre (OHC) has been functional inside the complex wherein periodic medical examination (PME) are conducted for both contractor's employees as well as own employees as per the Factories Act. The records are maintained in the Occupational Health Center (OHC). All employees are provided with the necessary PPE. Full Compliance

1.19	The National Emission Standards for Petrochemical (Basic & Intermediates) issued by the Ministry vide G.S.R. 820 (E) dated 9 th November 2012 as amended from time to time shall be followed.	We remain committed to follow proposed standards and guidelines. Full Compliance
1.20	Recommendations of mitigation measures for possible accidents shall be implemented based on Risk Assessment studies conducted for worst-case scenarios using the latest techniques.	Shall be complied
1.21	The unit shall make the arrangement for protection of possible fire hazards during the manufacturing process in material handling. The firefighting system shall be as per the norms. PESO certificate shall be obtained. Location of storage tanks of hazardous/flammable/toxic substances shall be placed in such a way that in the event of any fire, accident, explosion or any unforeseen conditions the impact of such an event should not go beyond the boundary of the plant i.e. the risk should be tolerable (acceptable) at the boundary.	HAZOP and Risk Analysis were done during process design stage. Necessary fire-fighting arrangements in the manufacturing as well as material handling area as per the applicable OISD-116 guidelines shall be ensured. Application was submitted to West Bengal Fire services on 12.01.2025 to obtain Fire Safety Recommendation and Application for PESO Certificate was also submitted on 22.02.2025. As per the Risk Assessment study, the cumulative risk of the proposed storage tanks was within the acceptable range.
1.22	Company shall maintain an Emergency Response Decision support system in such a way so that identification of the detector's network for the leak source and the probable leaked quantity in real-time, followed by modelling of the dispersion of the plume and consequences as forecast is done in advance and thus, no leak accident may go unattended. Accordingly, a Risk Mitigation plan shall be in place and tested using the 3D CFD modelling.	Purchase Order was issued to M/s Einblick Consulting Engineers on 20.02.2025 for F&G 3D mapping study and Air Dispersion Study. Air dispersion study was already completed on 6.03.2025.
1.23	Company shall determine the distance of fire hydrant while finalizing its location from storage tanks of flammable substance or any other hazardous storage substance shall be based on dispersion of Thermal Radiation so that during any unforeseen situation fire hydrant is always available to operate manually.	It shall be complied with as per applicable OISD-116 guidelines.
1.24	The project proponent shall develop R&D facilities to develop their own technologies for propylene and polypropylene processing.	Entire propylene is converted to Polypropylene in the complex. A state-of-the art Application Research and Development Center (ARDC) is functional for developing Polypropylene processing applications.

		Full Compliance
1.25	PP shall sensitize and create awareness among the people working within the project area as well as its surrounding area on the ban of single Use plastic in order to ensure the compliance of notification published by MOEFCC on 12 th August, 2021. A report along with photographs on the measures taken shall also be included in the six-monthly compliance report being submitted to concerned authority.	<p>On 21.03.2025 ,Knowledge sharing interactive session with HPL employees and contractor's employees was organized on the topic 'Restrictions on single use plastic'.</p> <p>In collaboration with Haldia Vigyan Parisad, an awareness session on Plastic Waste Management and ban on Single Use Plastic was organized in Acharya Prafulla Chandra Science Fair, Haldia on 22.03.2025.</p> <p>The report with photographs is enclosed. (Annexure-1).</p> <p>Full Compliance</p>

2. General Conditions

S. No.	EC Conditions	Status as on 31.03.2025
2.1	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.	<p>HPL remains committed to follow the proposed conditions.</p> <p>Full Compliance</p>
2.2	The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.	Presently all existing lighting fixtures in the Plant are being replaced with LED fixtures in a phased manner and > 80 % have already been replaced or being replaced. For all new projects and installations, we are using only LED lighting fixtures.
2.3	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	The overall ambient noise level shall be maintained as per the prescribed standards by adopting adequate noise control measures in the work zone area for the upcoming plants. Equipment specification w.r.t allowable noise standards has

	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).	been adhered strictly during the procurement stage. Full Compliance
2.4	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.	The company has been providing continuous support to the local community w.r.t upgradation of local infrastructure, healthcare and medical facilities, aid to local schools and skill development program. Full Compliance
2.5	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.	The budgeted funds for environmental activities shall be solely utilized for meeting and implementing the conditions stipulated by MoEF&CC/WBPCB. These funds will not be diverted to any other job or activities. Environmental Expenditure details from October'24 to March'25 is attached in Annexure 2 Full Compliance
2.6	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayet, Zilla Parishad/Municipal Corporation. Urban local Body and local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal.	The copy of the Environmental Clearance letter was already sent to Haldia Municipality as well as Haldia Development Authority. Full Compliance
2.7	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.	Six monthly compliance reports on the status of stipulated Environmental Clearance conditions including results of monitored data will be sent (both soft & hard copy) to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB and the same will be uploaded on the website of HPL. https://www.haldiapetrochemicals.com/
2.8	The environmental statement for each financial year ending 31 st 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 Office of MoEF&CC by e-mail.	The Environmental Statement in Form-V for FY 2023-24 has been submitted to WBPCB on 26.09.2024 Updated Environment Statement and Environmental Clearance Compliance Reports are uploaded on the company website subsequently as mentioned against 2.7

2.9	<p>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.</p>	<p>Advertisements were published in two local newspapers in English (The Telegraph) and in Bengali (Anandabazar Patrika) on 13.08.2024.</p> <p>Full Compliance</p>
2.10	<p>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.</p>	<p>Consent to Establish (CTE) against the EC was issued by WBPCB on 10.09.2024. A copy is enclosed for reference (Annexure-3).</p> <p>AdPlus Chemicals and Polymers Private Limited (AdPlus) would intimate the date of financial closure to the Regional Office and the Ministry immediately after achieving financial closure. Post transfer of Environmental Clearance in Mar'25, the project proponent has started tie-up of funds for the projects and have already received bulk of sanctions from PSU banks. Tie-up of remaining funds and consortium formation is likely to be concluded soon. Currently, the project implementation has begun with owners equity, as needed in such financing arrangements.</p>
2.11	<p>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.</p>	<p>Noted.</p>

Awareness Session on Plastic Waste Management Rules & Restrictions on Single use plastic

Background of Statutory Stipulation : MoEFCCC has mentioned the undermentioned condition in the Expansion EC for Phenol,

“SL. No. 1.25 - PP shall sensitize and create awareness among the people working within the project area as well as its surrounding area on the ban of Single Use Plastic in order to ensure the compliance of Notification published by MOEFCC on 12th August 2021.

Awareness Program in Haldia Petrochemicals Limited :

On 21.03.2025, Mr. Debabrata De, Head Business Development C Polymer had delivered a knowledge sharing interactive session with HPL employees and contractor's employees on Restrictions on single use plastic.





Awareness Program in Surrounding area of Haldia Petrochemicals Limited

In collaboration with Haldia Vigyan Parisad, an awareness session on Plastic Waste Management and ban on single use plastic was organized in Acharya Prafulla Chandra Science Fair on 22.03.2025.

Mr. Pritam Ghoshal, DGM -Associated Units has delivered a good interacting session among nearly 200 School Children in that program.





Environmental Expenditure details from October' 24 to March'25

Sl.No	Item	Expenditure in lakh
1	Environmental Monitoring Cost	
	Rate Contract for Environmental & Process Monitoring Job at HPL Complex	25.72
2	Greening Drive Activities	
	Green Belt Development & Upkeepment Cost Beautification (Horticultural) Work (inside plant)	31.21
3	Statutory Fees & Insurance Expenses	
	Analysis charges, PLI Policy	0.41
4	Environmental Awareness Program	
	Celebration of World Environment Day, Workshop Seminar	0.40
5	Hazardous Waste Disposal	
	Disposal cost for TSDF and Co processing in cement plant	35.71
6	Biomedical Waste Disposal Expenses	0.96
7	Municipal Waste Disposal Expenses	0.90
8	Operational, Maintenance & Installation Cost of Environment protection system	
8.1	Operational cost of WWTP	346
8.2	Operational cost of Flare Stack Emission System	838.89
8.3	Operation cost of Benzene Recovery Unit	0.70
8.4	CMC for the Hydrocarbon Analyzer, AAQMS	8.14
8.5	CMC for Online Effluent Monitoring system	1.60
8.6	CMC for Online Flue Gas Monitoring system	11.70
8.7	O& M Cost of Electrostatic Precipitator, Bag filters	10.60
8.8	Operational Expenditure of Limestone Dosing in Boiler	87.30
Total Cost		1400.08



Government of West Bengal

This document having UDIN **24-G-GA000004-C-1725961805082** has been created by **WEST BENGAL POLLUTION CONTROL BOARD** with authorised person's Aadhaar no XXXXXXXX7589 on **03:20PM, September 10, 2024.**

This document is available at UDIN platform till 03:20PM, September 10, 2029.



Gibansu Mukherjee

Authorised Signatory
(E-signed)
Department of IT&E



WEST BENGAL POLLUTION CONTROL BOARD

Paribesh Bhawan, 10A, Block LA, Sector III
Salt Lake City, Bidhan Nagar, Kolkata – 700 106, INDIA

Website : www.wbpcb.gov.in, e-mail : wbpcbnet@wbpcb.gov.in

Validity Period :10/09/2024 To 31/08/2031

Category: RED

Application Type: CTE

CTE No.: WBPCB/5654443/2024

Date: 10/09/2024

Sub : Consent to Establish (CTE) under Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974 as amended and Section 21 of the Air (Prevention and Control of Pollution) Act, 1981 as amended.

Ref.: Application No. 5654443

To,

M/s Haldia Petrochemicals Limited

Bengal Eco Intelligent Park, Tower-1, Block-EM, Plot No. 3, Salt Lake City, Sector-V

The West Bengal Pollution Control Board (hereinafter referred to as the State Board) hereby grants Consent to Establish (CTE) from environmental point under Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974, as amended and Section 21 of the Air (Prevention and Control of Pollution) Act, 1981 as amended and rules and orders made thereunder for proposed expan unit of **Haldia Petrochemicals Limited** at **HPL Link Road, P.O.&P.S. Durgachak, Dist. Purba Medinipur, Pin-721602** for the following activities :

Sl.No.	Name of Activity,Product and/or By-Product	Production Capacity
1	BPSTG (01 No.)	25 Megawatt
2	Phenol	40000 Metric Tonnes/Year
3	Propylene (Intermediate Product) from OCU of capacity 117 KTA	75000 Metric Tonnes/Year
4	Acetone	24000 Metric Tonnes/Year

Total cost of the Project (in Lakhs)

60000.0

(A) General Conditions :

- (1) The quality of sewage and industrial effluent to be discharged from the factory shall satisfy the permissible limits as per norms and Environment (Protection) Rules 1986.
- (2) The unit shall apply to the State Board for Consent to operate according to the provisions of the Water (Prevention & Control of Pollution) Act, 1974 as amended and the Air (Prevention & Control Pollution) Act, 1981 as amended prior to commencement of activities of the unit.
- (3) The unit shall comply with the following Environmental Acts and Rules and its amendment as applicable
 - (i) The Water (Prevention and Control of Pollution) Act, 1974 .
 - (ii) The Air (Prevention and Control of Pollution) Act, 1981
 - (iii) The Environment (Protection) Act, 1986
 - (iv) The Public Liability Insurance Act, 1991
 - (v) The Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989
 - (vi) The Ozone Depleting Substances (Regulation and Control) Rules, 2000
 - (vii) The Batteries (Management and Handling) Rules, 2022
 - (viii) The Noise Pollution (Regulation and Control) Rules, 2000
 - (ix) The Bio-medical Wastes Management Rules, 2016

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- (x) The Hazardous Wastes (Management and Transboundary Movement) Rules, 2016
- (xi) The Plastic Waste Management Rules, 2016
- (xii) The Solid Waste Management Rules, 2016
- (xiii) The E-Waste (Management Rules), 2022
- (xiv) The Construction and Demolition Waste Management Rules, 2016

(4) The State Board reserves the right to review, amend, suspend, revoke etc. this consent for establishment and the same shall be binding on the unit.

(5) The unit shall obtain permission/clearance from the other competent authorities, as applicable and such permissions may be required at the time of submitting application for Consent to operate.

(6) The unit shall abide by the stipulations as may be prescribed by any authority / local body / government departments etc.

(7) Suitable measures to treat the effluent and emission shall be adopted in order to reduce the pollution load so that the quality of the effluent and emission from the unit always conforms to the relevant permissible standards.

(8) No equipment/machinery, emission and effluent generation/discharge source etc. shall be installed/modified without prior approval of the State Board.

(B) Special Conditions:

Please refer to annexure attached herewith.

Any Violation of the aforesaid Conditions shall entail cancellation of this Consent to Establish

For and on behalf of West Bengal Pollution Control Board



10/09/2024

**Chief Engineer
Environment Impact Management Cell**

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WBPCB/5654443/2024

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Annexure to NOC SI no. WBPCB/5654443/2024

Special Conditions issued to **M/s. Haldia Petrochemicals Limited** at HPL Link Road, P.O+P.S – Durgachak, Dist – Purba Medinipur, Pin-721602, West Bengal.

A) Details of products and capacity are as under: -

Sl. No.	Product details	Unit	Production capacity
1.	Propylene	KTA	75.0
2.	Phenol	KTA	40.0
3.	Acetone	KTA	24.0
4.	Captive Power (BPSTG)	MW	25.0

B) Emission: -

1. RFG fired OCT reactor feed heater of OCU- to be provided with a stack of ht. 32m from GL.
2. RFG fired regeneration gas heater of OCU-to be provided with a stack of ht. 30m from GL.
3. RFG fired regenerative thermal oxidizer of CPU-to be provided with a stack of ht. 30m from GL.
4. Flare stack-to be provided with a stack of ht. 120m from GL.
5. DG set-1x2000 KVA to be provided with acoustic enclosure, silencer and stack of ht. 3m each above the building.

Stacks should have sampling port, platform, ladder as per the emission regulation part –III of CPCB. Emission standard for process stacks shall conform to the GSR no. 820(E) dated 9th November, 2012 issued by MoEF & CC.

C) Effluent: -

- i. The unit shall install pre-treatment plant (PTP) inside battery limits (ISBL) for phenol and acetone project. Treated waste water from pre-treatment plant will be sent to the existing waste water treatment plant for further treatment.
- ii. Total effluent generation after expansion (Process waste + Sanitary waste + Cooling Tower Blowdown + DM Neutralization Waste) will remain within existing discharge limits.

D) Solid / Hazardous Waste: -

- i. Solid waste to be disposed of Environment friendly manner.
- ii. Hazardous waste to be disposed off as per the provisions of Hazardous and Other Waste (Management & Transboundary Movement) Rules, 2016 as amended.

E) Specific Conditions: -

- i. The company shall comply with all the environmental protection measures and safeguards. 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. Occupational Health Centre for surveillance of the worker's health shall be set up. 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.
- iii. 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.
- iv. 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 clearing to reduce wastewater generation.
- v. There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products as per CPCB norms and no parking to be allowed outside on public places.



Annexure to NOC SI no. WBPCB/5654443/2024

Special Conditions issued to **M/s. Haldia Petrochemicals Limited** at HPL Link Road, P.O+P.S – Durgachak, Dist – Purba Medinipur, Pin-721602, West Bengal.

- 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. 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.
- viii. The greenbelt of 5-10 m width in total area of 117.39 i.e., 26% of the total plant area shall be developed and maintained the plant premises. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.
- ix. Industry shall comply with undertaking submitted for reusing 10 % of treated process effluent by mid-2025; to reuse and recycle 50% treated effluent by December 2026 and to adhere action plan submitted for achieving ZLD by 2030.
- x. Oil catchers/oil traps shall be provided at all possible locations in rain/ storm water drainage system inside the factory premises.

F) **General:** -

- 1. Noise Control – Ambient noise level and D.G. Set noise level should not exceed the permissible limits. Every care to be taken for noise control.
- 2. The unit should obtain 'Consent-to-Operate' from this Board before starting manufacturing process activities.
- 3. Adequate control measures shall be taken to control fugitive dust emission from all vulnerable sources within the plant premises.
- 4. The project proponent should take all possible measures to avoid any kind of nuisance during transportation of raw materials and products to and from the premises. All kinds of transportation should be carried out in covered vehicles and should not cause public discomfort.
- 5. No additional machineries / equipment can be installed without prior permission from this Board. No change in raw materials, products, production capacity and manufacturing process shall be made without prior permission from this Board.
- 6. Regular VOC monitoring shall be done at vulnerable points. 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.
- 7. All conditions as imposed by MoEF & CC, GoI through their Environmental Clearance issued vide EC Identification No. EC24A2101WB5692081N File no. J-11011/194/2016-IA-II(I) dated 08/08/2024 shall be strictly complied with.

Sd/-

Chief Engineer (EIM Cell)

West Bengal Pollution Control Board

