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CIN:U24100WB2015PLC205383

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

May 31, 2023

Ms. Soma Das, IFS (Addl. Charge)
Inspector General of Forests
Ministry of Environment, Forest and Climate Change
Integrated Regional Office,
Kolkata IB – 198, Sector-III, Salt Lake City,
Kolkata – 700106

Sub: Half Yearly Report on the Status of Compliance against Conditions of Environmental Clearance for Expansion of Naphtha Cracking Facility and Petrochemical Products

Dear Sir,

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'22 to March'23

Reference letter no. J-11011/194/2016-IA-11 (1) dated 20.03.2018.

B. Half Yearly Environmental Data Generation Report (October 2022 to March 2023)

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

Thanking you,

Yours very truly,

Manoj Kumar Srivastava
Executive Vice President & Head - Plant

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 OF NAPHTHA CRACKING
FACILITY AND PETROCHEMICAL PRODUCTS
AT TEHSIL SUTAHATA-I, HALDIA, DISTRICT
EAST MEDINIPUR (WEST BENGAL)**

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



PERIOD: October 2022 to March 2023

**HALDIA PETROCHEMICALS LTD
P.B.NO. - 12
P.O - DURGACHAK, HALDIA
DIST - PURBA MEDINIPUR
PIN - 721602
WEST BENGAL**

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1 INTRODUCTION

1.1 ABOUT THE PROJECT

Haldia Petrochemicals Limited (HPL), one of the largest petrochemical complexes in India and the only one of its kind in eastern region. The complex produces ethylene, propylene and associated liquid stream products for downstream processing into polymers and chemicals.

Haldia Petrochemicals Limited has an existing petrochemical complex at Tehsil Sutahata – I, Haldia, East Medinipur, West Bengal. HPL applied for expansion of Naphtha cracking facility and Petrochemical products at their existing premises at Haldia.

This project got environmental clearance from MoEF&CC, Delhi vide Letter No. J-11011/194/2016-IA-II (I), dated 20/03/2018.

1.2 PROJECT LOCATION

This project is located at Tehsil Sutahata – I, Haldia, District East Medinipur, West Bengal. The project site and surrounding features of the project site (within 500 meter) earmarked on Google image.

1.3 PROJECT DETAILS

The project is for expansion of Naphtha cracking facility and Petrochemical products as mentioned in Letter No. J-11011/194/2016-IA-II (I), dated 20/03/2018.

SALIENT FEATURES OF THE PROJECT

Particulars	Description
Location of the site	Tehsil Sutahata – I, Haldia, District East Medinipur, West Bengal
Land Area	Within the existing land area of 453 Ha
Proposed Installation	Captive Power Plant of 3X120 TPH and 1X35 MW Condensing Steam Turbine Generator
Water requirement	Water requirement after expansion will be 10MGD
Effluent quantity	Total effluent after expansion will be 8625 m ³ /day
Power Requirement	Additional steam and power requirement will be 172.25 TPH and 19 MW respectively

1.4 CURRENT STATUS OF THE PROJECT

The construction phase of the project is completed. The project is currently under operation stage.

2. COMPLIANCE OF STIPULATED ENVIRONMENTAL CONDITIONS IN THE ENVIRONMENTAL CLEARANCE LETTER NO. J-11011/194/2016-IA-II (I) DATED 20/03/2018

Specific Conditions:		
Sr. No.	Compliance Conditions	Compliance Status as on 31.03.2023
i	Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.	<p>Consent to Establish (NOC) was obtained from WBPCB vide NOC NO153414 dated 29.11.18 & 10.07.18 and 29.06.18. Ref: Annexure - I</p> <p>Consent to Operate was obtained from WBPCB vide Memo NO: 215-403/WPB (HRO)-K/2001 (Pt-VI) dated 06.03.19 and 14.08.19 for Butene-1, Pygas Desulfurisation Unit, Hydrocarbon Storage Tanks (Naphtha, Methanol, Methyl Tertiary Butyl Ether, Hydrogenated Py-Gas & Motor Spirit Blending Tank) in 1st Phase.</p> <p>Ref: Annexure – II A</p> <p>Consent to Operate was obtained from WBPCB vide Memo no. 199-403/WPB (HRO)-K/2001 (Part-IX) dated 22.09.2021 for CFBC Boiler project in 2nd Phase.</p> <p>Ref: Annexure – II B</p> <p>Complied</p>
ii	Necessary clearance under the CRZ Notification, 2011, as applicable, shall be obtained from the State Coastal Zone Management Authority, prior to commencement of works for the proposed expansion.	<p>CRZ Clearance was obtained for laying of pipeline from HPL to Haldia Oil Jetties of Haldia Dock Complex from MoEFCC vide F.No. 11-52/2020-IA III dated 19.05.2021.</p> <p>Ref: Annexure – III</p> <p>Subsequent Consent to Establish (NOC) was obtained from WBPCB vide Memo No. 200-403/WPB(HRO)-K/2001 (Pt-VIII) dated 22.09.2021.</p> <p>Ref: Annexure - IV</p> <p>Complied</p>
iii	The effluent of 8625 cum/day shall only be discharged into river/creek through greenbelt canal. The effluent discharge from the premises shall conform to the standards prescribed under the Environment (Protection) Rules, 1986. Prior permission in this regard shall be obtained from concerned regulatory authority/SPCB.	<p>Total 5033 KL/day of the treated effluent discharged into green belt canal during October’22 to March’23</p> <p>HPL was monitoring the quality of the effluent discharged outside premises and it is well within the prescribed standard.</p> <p>Ref: Annexure-V for Half Yearly Monitoring Report.</p> <p>Complied</p>

iv	Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016, Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.	Renewal of Hazardous Waste Authorisation was obtained vide Memo no. 173/2S (HW)-294/99-2000 (Pt-I) on 31.12.2021 with a validity till 31.12.2025. Ref: Annexure - VI Complied
v	Environmental Standards for Petroleum Oil Refinery dated 18 th March 2008 and Environmental Standards for Petrochemical (Basic and Intermediates) dated on 9 th November, 2012, and its amendments from time to time shall be followed.	Since HPL complex did not have petroleum oil refinery, Environmental Standards for Petroleum Oil Refinery dated 18 th March 2008 might not be applicable for us. However, Environmental Standards for Petrochemical (Basic & Intermediates) dated on 09 th November, 2012 was adhered with full compliance. Complied
vi	To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. Multi-cyclone followed by bag filter shall be provided to the DCU coke based CFBC boiler to control particulate emissions within permissible limit. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines	Suitable pollution control device was installed to meet the prescribed norms and/or NAAQS. Bag filters & ESP were provided to the CFBC boiler to control particulate emissions within permissible limit. The limestone dosing system was also introduced to control the SO _x emission. It will not be a DCU (Delayed Coker Unit) coke based boiler. A stack of height 140 m was constructed to disperse the gaseous emissions as per CPCB/SPCB guidelines. Ref: Annexure-V for Half Yearly Monitoring Report. Complied
vii	The total fresh water requirement shall not exceed 10 MGD after expansion from Geonkhali Water Supply System operated by Haldia Development Authority (HDA). Necessary permission in this regard shall be obtained from the concerned regulatory authority.	An agreement was made with Haldia Development Authority (HDA) for supply of 43594 KL/day (9.55 MGD) water. Total 8.7 MGD water was consumed during October'22 to March'23 from HDA. HPL will ensure that total water consumption does not exceed 10 MGD. Ref: Annexure-VII Complied
viii	Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.	Our Plant was commissioned in the year 2000 and started commercial production since 2001. It is to be noted that previous three ECs of the Plant for 420 KTA, 520 KTA & 700 KTA of Ethylene capacity, duly granted by MoEF&CC, did not have such

		<p>condition of passing storm water drain through guard pond.</p> <p>Process Effluent reaches our Waste Water Treatment Plant (WWTP) through underground / above ground network of channels / pipelines. After physical, chemical & biological treatment, the treated effluent (Clarifier outlet) is stored in two Guard Ponds (Capacity: 4,000 cu.m. each) and is subsequently discharged after being mixed with the Cooling Tower Blowdown (CTBD) & DM Plant Regeneration Effluent into the outside Green Belt Canal (GBC) through pipeline. Hydrocarbon handling & storage areas in the Plant have been provided with dyke walls with two valve drain pits as per standard engineering practices. Storm water accumulated from within the dyke walls can be sent to WWTP through the under ground Oily Water System (OWS).</p> <p>In non-hydrocarbon handling areas, the storm water drains are open channel and have a wide network depending on the available slopes in the entire Complex. The storm water drains on the eastern side of the Complex is connected to the natural ponds wherein rain water is harvested.</p> <p>As per the initial design / layout of the Plant, duly approved by the statutory authorities, there is no provision of rerouting the entire storm water drain network through the guard ponds of our WWTP.</p> <p>As an additional safety measure, six sluice gates were installed in the storm water channel at different locations in the Complex to handle any emergency situation.</p> <p>Regular monitoring of the quality of various effluents, treated effluent & storm water is carried out by a third party laboratory, duly accredited by MoEF&CC, WBPCB and NABL.</p> <p>Over the past 21 years of commercial operations of our Complex no major incident has occurred with regard to non conformance of quality of treated effluent or storm water with respect to the statutory limits.</p> <p>Ref: Annexure-VIII for site pic.</p> <p>Complied</p>
ix	<p>Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc.</p> <p>Flame arresters shall be provided on tank farm, and solvent transfer to be done through pumps.</p>	<p>All the hazardous chemicals were stored in properly designed tanks, drums, carboys etc.</p> <p>Necessary fire water spray system/hydrant/monitors/foam chambers were</p>

		<p>provided in the tank farm.</p> <p>Solvent was transferred through pump only.</p> <p>Ref: Annexure-VIII for site pic.</p> <p>Complied</p>
x	<p>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.</p>	<p>Biosludge from WWTP and the oil impregnated coke were sent to TSDF. The ash from the boilers were sold to third party for landfilling and used for internal landfilling purpose as per MoEF&CC. [Ref. MoEF&CC Notification No. S.O. 5481 (E) dated 31.12.2021 for utilization of ash from thermal power plant.]</p> <p>Ref: Annexure-IX for TSDF contract copy.</p> <p>Complied</p>
xi	<p>The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSI HC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.</p>	<p>HPL will comply with all the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time.</p> <p>Most of the hazardous chemicals (inbound/outbound) were directly unloaded from ship/tank or sphere through u/g pipelines. The road transportation of few hazardous chemicals/catalyst were in accordance with the Motor Vehicles Act (MVA), 1989.</p> <p>Complied</p>
xii	<p>Fly ash should be stored separately as per CPCB guidelines so that it should not adversely affect the air quality, becoming air borne by wind or water regime during rainy season by flowing along with the storm water. Direct exposure of workers to fly ash & dust should be avoided.</p>	<p>For storage, two silos for fly ash and one silo for bed ash of capacity 500 m3 each was constructed. As the ash was stored in silos there was no adverse effect on air and water. Water sprinkling arrangement was made for suppression of dust during loading of the dumper. The loading area has been covered up by tin shed to prevent the dispersion of fly ash during loading.</p> <p>Ref: Annexure-VIII for site pic.</p> <p>Complied</p>
xiii	<p>The company shall undertake waste minimization measures as below:-</p> <p>(a) Metering and control of quantities of active ingredients to minimize waste.</p> <p>(b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.</p> <p>(c) Use of automated filling to minimize spillage.</p>	<p>HPL will adopt necessary measures for minimization of the wastes as applicable viz.</p> <p>(a) Resue of by-products like Ethylene, Propylene, C6 Raffinate, Py-Gas, C4-LPG as raw materials in different manufacturing processes of olefins/polymers.</p> <p>(b) Few chemicals manufactured by us are also used as raw materials in other industries.</p>

	<p>(d) Use of close feed system into batch reactors.</p> <p>(e) Venting equipment through vapour recovery system.</p> <p>(f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.</p>	<p>(c) Automated filling and loading system exists for continuous process reactors.</p> <p>(d) All process vents are connected with the flare stack of 120 m high. Benzene vapour is recovered in Benzene Recovery Unit during occasional tanker loading.</p> <p>(e) Hydrojetting techniques at a very high pressure (350-400 kg/cm²) are adopted for cleaning of process equipment.</p> <p>Ref: Annexure-VIII for site pic.</p> <p>Complied</p>
<p>xiv</p>	<p>The green belt of at least 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</p>	<p>A vast greenbelt (103 ha) of width 50-100 m was developed surrounding the plant since its inception according to the very first EC issues on 17.09.1992. The proposed projects would come up in the land available within the plant boundary. Plantation was carried out as per the guidelines of the said EC and in consultation with DFO. Around 1.22 lacs of trees were present inside greenbelt surrounding HPL as on April'22.</p> <p>Ref: Annexure-VIII for site pic.</p> <p>Partially complied</p>
<p>xv</p>	<p>At least 2.5% of the total project cost shall be allocated for Enterprise Social Commitment based on public hearing issues. Item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.</p>	<p>In Public Hearing (PH) no specific issues were raised towards protection of the environment in local community except for giving priority to the development aspects of the local villages and possible creation of local employment. The CSR policy of the company had been a continuous support to the local community w.r.t upgradation of local infrastructure, medical facilities, aid to local schools and skill development programme as mentioned in the MoM of the PH. HPL incurred Rs. 78.55 Lacs towards improvement of local schools, colleges, hospital, medical center etc. during the last quarter of FY 2022-23.</p> <p>Ref. Annexure-X</p> <p>In addition, a land based Solar Power Project (1 MWp) was installed and commissioned in our residential colony (HREL) on 14.12.2021 (through Capex model). The total project cost was Rs. 5.5 Crore. Estimated energy savings was 584162 KWHr during October'22 to March'23.</p> <p>Ref: Annexure-VIII for site pic.</p> <p>Complied</p>

xvi	For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.	No additional DG sets were proposed. Complied
xvii	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.	All the required fire protection system has been installed as per appropriate OISD guidelines along with gas and smoke detectors during setting up of the new plants (Butene-1 & PGDS) to control the fire hazards during manufacturing process. Ref: Annexure-VIII for site pic. Complied
xviii	Continuous online (24x7) monitoring system for stack emissions (for measurement of flue gas discharge and the pollutants concentration) and effluent discharge shall be installed, and the data to be transmitted to the CPCB and SPCB server.	Continuous online emission monitoring system installed in the stack of CFBC boiler. The Performance Guarantee Test Run (PGTR) was completed for the boilers. The calibration and data validation of the online analysers were in process, online data would be sent to CPCB server shortly. Ref: Annexure-VIII for site pic. Being Complied Online Effluent Monitoring system was already installed in the existing WWTP wherein additional effluent from the proposed plant will be treated. Real time data from the online effluent analysers is sent to the servers of CPCB & WBPCB from 2016 onwards. Ref: Annexure-VIII for site pic. Complied
xix	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	The periodic medical examination (PME) was conducted for 549 nos. of Own Employees from October'22 to March'23 as per the Factories Act. The records were maintained in our Occupational Health Center (OHC). Complied

General Conditions:		
Sr. No.	Compliance Conditions	Compliance Status
i	The project authorities shall adhere to the stipulations made by the State Pollution Control Board, Central Pollution Control Board, State Government and any other statutory authority.	HPL is committed to adhere to all the stipulations made by the State Pollution Control Board, Central Pollution Control Board, State Government and any other statutory authority. Complied
ii	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate	We applied for bifurcation/amendment of EC for transferring of Butene-1 plant along with storage and associated pipelines from HPL to Advanced

	<p>Change. 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.</p>	<p>Performance Materials Limited (AdPerMa), wholly owned subsidiary of HPL to MoEF&CC.</p> <p>Two separate ECs, after due bifurcation and amendment, were issued by MOEF & CC in the name of AdPerMA & HPL vide letter No. J-11011/194/2016-IA-II (I) dated 27.08.2020 with same terms and conditions with special mention of the following.</p> <p><i>“As committed HPL shall be responsible for environmental safeguards and overall compliance of the conditions of the said EC”.</i></p> <p>Ref: Annexure-XI for the document of bifurcation of EC Complied</p>
iii	<p>The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one station each is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.</p>	<p>Ambient air quality monitoring stations were already placed in 05 locations inside the plant and in 06 nos. of locations outside the plant within the radius of 10 km considering the upwind & downwind direction and in consultation with WBPCB. In addition, one online ambient air quality monitoring station is also operational inside the plant.</p> <p>Ref: Annexure-VIII for site pic. Complied</p>
iv	<p>The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be followed.</p>	<p>HPL has been measuring all the parameters of ambient air as per the National Ambient Air Quality Standards.</p> <p>Ref: Annexure-V for Half Yearly Monitoring Report. Complied</p>
v	<p>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).</p>	<p>The overall ambient noise level was maintained as per the prescribed standards by adopting adequate noise control measures in the work zone area for the new plants.</p> <p>Ref: Annexure-V for Half Yearly Monitoring Report. Complied</p>
vi	<p>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.</p>	<p>Rooftop rainwater harvesting was done in Main Fire Station (MFS) Building.</p> <p>The rainwater run-off was channelized through the eastern side drains to the East Ponds wherefrom it was being transferred to the North Pond and subsequently utilized to meet up the process requirement after subsequent treatment. We have utilized 120317 KL rainwater during October’22 to March’23</p>

		Ref: Annexure-VIII for site pic. Complied
vii	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.	Periodical training was imparted to the employees on various modules/aspects of fire, safety, health & environment. Specialised training on chemicals handling/MSDS/Lab safety was conducted periodically for the identified group of employees. Pre-employment & routine periodical medical examinations were carried out for all the employees. Complied
viii	The company shall also 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	HPL will 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 will be implemented in various stages of construction as well as operation. Complied
ix	The company shall undertake all relevant measures for improving the socio-- economic conditions of the surrounding area. ESC activities shall be undertaken by involving local villages and administration.	Ref. Annexure-X Complied.
x	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	Ref. Annexure-X Complied.
xi	A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	Separate Environmental Management Cell has been functional since inception. Two full-fledged laboratory facilities (Water & Air) were set up inside the complex through a 3 rd party, duly recognized by MoEF&CC and WBPCB. The said laboratory of Scientific Research Laboratory (SRL) was accredited by NABL as one of their site laboratories within the premises of HPL, Haldia. Ref: Annexure-VIII for site pic. Complied
xii	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	The budgeted funds for environmental activities was 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. Ref. Annexure-XII Complied

	conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.	
xiii	A copy of the clearance letter shall be sent by the project proponent to concern Panchayat, ZillaParishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.	The copy of the Environmental Clearance letter was sent to Haldia Municipality as well as Haldia Development Authority. Ref. Annexure-XIII Complied
xiv	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 compliance of the stipulated Environmental Clearance conditions including results of monitored data was sent by email to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB and the same was uploaded in the website of HPL (https://www.haldiapetrochemicals.com/). Ref: Annexure-VIII for site pic. Complied
xv	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.	The Environmental Statement in Form-V was submitted to WBPCB on 09.09.2022. Updated Environment Statement and Environmental Compliance Report was uploaded on the company website. Ref. Annexure-XIV for copy of submission letter of Form-V. Complied
xvi	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://moef.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 the copy of the same	Advertisement published in two local newspapers in English (The Telegraph) and in Bengali (Anandabazar Patrika) on 13.04.2018. A copy of the same was sent earlier as a proof of compliance. Ref: Annexure XV Complied

	shall be forwarded to the concerned regional office of the Ministry.	
xvii	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	The projects were being implemented phase-wise. HPL will continue to update Regional Office about the financial closure and approval of other projects. Complied


WEST BENGAL POLLUTION CONTROL BOARD

(Department of Environment, Govt. of West Bengal)

Paribesh Bhawan, 10A, Block - LA, Sector-III

Bidhannagar, Kolkata-700 098, India

Tel : 2335 - 9088 / 7428 / 8211 / 6731 / 0261 / 8861 / 5868 / 1625

Fax : 2335 - 5868 / 2813

City Code : 33, Country Code : 91

Website: www.wbpcb.gov.in

Memo No. 667-2N-58/2006(E)

Dated: 29.11.2018.

To

 M/s Haldia Petrochemicals Ltd.
 Post Box No. - 12, Durgachak
 Haldia, Dist - Purba Medinipur
 West Bengal, Pin - 721602, India

Sub : Amendment of the Consent to Establish (NOC) no. NO153414 issued vide memo no. 357-2N-58/2006(E) dated 29.06.2018.

Ref : 1. Your letter no. HPL/IMS/HSEF/R/4.3.2/08/ENV/E-04/WBPCB dated 11.10.2018.

2. Environmental Clearance issued by MoEF & CC vide memo no. J-11011/194/2016_IA II (I) dated 20.03.2018.

Sir,

With reference to the above this is to inform you that the Consent to Establish (NOC) no. NO153414 issued vide memo no. 357-2N-58/2006(E) dated 29.06.2018 is hereby amended as follows:-

In Annexure II of the above mentioned 'NOC', under section "A) Emission",

Sl. No	Emission sources	Air Pollution Control Device	Stack (Nos. & height from GL in m.)
1.	3X120 TPH Coal Fired Boilers	Electrostatic Precipitator	01 no., 140 m
2.	Heater (Fuel Gas (Mixture of hydrocarbon gases and hydrogen) Fired)	Nil	01 no., 40 m

should be read as

Sl. No	Emission sources	Air Pollution Control Device	Stack (Nos. & height from GL in m.)
1.	3X120 TPH Coal Fired Boilers	Electrostatic Precipitator	01 no., 140 m
2.	Heater (Fuel Gas (Mixture of hydrocarbon gases and hydrogen) Fired)	Nil	01 no., 40 m
3.	Heater (Fuel Gas (Mixture of hydrocarbon gases and hydrogen) Fired)	Nil	01 no., 30 m

This is to be treated as an annexure to the Consent to Establish (NOC) no. NO153414 issued vide memo no. 357-2N-58/2006(E) dated 29.06.2018. Please note that all other conditions as mentioned in the said NOC will remain unchanged.

Yours faithfully,

 Senior Environmental Engineer (EIM Cell)
 West Bengal Pollution Control Board



WEST BENGAL . POLLUTION CONTROL BOARD

(Department of Environment, Govt. of West Bengal)

Paribesh Bhawan, 10A, Block - LA, Sector-III

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Fax : 2335 - 5868 / 2813

City Code : 33, Country Code : 91

Website: www.wbpcb.gov.in

Memo No. **890** -2N-58/2006(E)

Dated: **10** .07.2018.

To
M/s Haldia Petrochemicals Ltd.
Post Box No. - 12, Durgachak
Haldia, Dist - Purba Medinipur
West Bengal, Pin - 721602, India

Sub : Amendment of the Consent to Establish (NOC) no. NO153414 issued vide memo no. 357-2N-58/2006(E) dated 29.06.2018.

Ref : Your letter no. HPL/IMS/HSEF/R/4.3.2/08/ENV/E-04/WBPCB dated 05.07.2018.

Sir,

With reference to the above this is to inform you that the Consent to Establish (NOC) no. NO153414 issued vide memo no. 357-2N-58/2006(E) dated 29.06.2018 is hereby amended as follows:-

In Annexure I of the above mentioned 'NOC', under section "A. List of Products to be manufactured (With Production Capacity)", Sl. No. 9 should be read as follows:

Sl. No.	Product	Existing Production Capacity (KTA)	Proposed Production Capacity (KTA) (For Expansion Project)	Total Expansion Capacity (KTA) (After Expansion)
9.	Methyl Tertiary Butyl Ether (MTBE)	0	98.6	98.6

This is to be treated as an annexure to the Consent to Establish (NOC) no. NO153414 issued vide memo no. 357-2N-58/2006(E) dated 29.06.2018. Please note that all other conditions as mentioned in the said NOC will remain unchanged.

Yours faithfully,


Senior Environmental Engineer (EIM Cell)
West Bengal Pollution Control Board

NOC NO153414

WEST BENGAL POLLUTION CONTROL BOARD

Paribesh Bhawan
10A, Block-LA, Sector-III
Bidhannagar, Kolkata-700 098

Memo No. 357-2N-58/2006(E)

Dated 29.06.2018



From:
Member Secretary,
West Bengal Pollution Control Board

To: **M/s. Haldia Petrochemicals Limited,**
post Box No.12, Durgachak, Haldia, Dist-Purba Medinipur,
West Bengal, PIN-721602, India.

Sub: Consent to Establish (NOC) from Environmental Point of View

Ref: Your letter No. HPL/IMS/HSEF/R/4-3-2/08/ENV/2004/WBPCB dated 07.05.2018.

Dear Sirs,

In response to the application for Consent to Establish (NOC) for proposed Unit of M/s **Haldia Petrochemicals Limited** expansion for manufacturing/storage/installation expansion of the existing Naptha Cracking facility and Petrochemical manufacturing unit (for details see Annexure-I) in the existing unit premises at Tehsil-Sutahata-I, Haldia, Dist-Purba Medinipur, West Bengal, this is to inform you that this Board hereby grants the Consent to Establish (NOC) from the environmental point of the above subject to the following conditions and special conditions annexed.

1. The quality of sewage and trade effluent to be discharged from your factory shall satisfy the permissible limits as prescribed in IS : 2490 (Pt. I) of 1974, and/or its subsequent amendment and Environment (Protection) Rules 1986.
2. Suitable measures to treat your effluent shall be adopted by you in order to reduce the pollutional load so that the quality of the effluent satisfies the standards mentioned above.
3. You shall have to apply to this Board for its consent to operate and discharge of sewage and trade effluent according to the provisions of the water (Prevention & Control of Pollution) Act, 1974. No sewage or trade effluent shall be discharged by you without prior consent of this Board.
4. All emission from your factory shall conform to the standards as laid down by this Board.
5. No emission shall be permitted without prior approval of this Board and you shall apply to this Board for its consent to operate and atmospheric emission as per provision of the Air (Prevention & Control Pollution) act, 1981.
6. No industrial plant, furnace, flues, chimneys, control devices

7. You shall comply with
- (i) Water (Prevention and Control of Pollution) Cess Act, 1977, if applicable.
 - (ii) Water (Prevention and Control of Pollution) Cess Act, 1978, if applicable.
 - (iii) Environment (Protection) Act, 1986
 - (iv) Environment (Protection) Rules, 1986
 - (v) Hazardous Wastes (Management and Handling) Rules, 1989 and Amended Rules, 2000
 - (vi) Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 and Amended Rules, 2000
 - (vii) Manufacture, Use, Import and Storage and Hazardous Micro-Organisms, Genetically Engineered Organisms or Cell Rules, 1989
 - (viii) The Public Liability Insurance Act, 1991 and Amended Act, 1992
 - (ix) The Public Liability Insurance Rules, 1991 and Amended Rules 1993
 - (x) Biomedical Wastes (Management & Handling) Rules, 1998 and Amended Rules 2000 if applicable.
 - (xi) Recycled Plastics Manufacture and Usage Rules 1999, if applicable and
 - (xii) Ozone Depleting Substances (Regulation & Control) Rules, 2000, if applicable
8. You will have to abide by any other stipulations as may be prescribed by any authority/local bodies/Government Departments etc.

SPECIAL CONDITION :

See Annexure-II.

Gross Capital Investment-Rs.4310000000/-.

Any violation of the aforesaid conditions shall entail cancellation of this Consent to Establish (NOC)

Yours faithfully,

(Signature)
 Sr. Env. Engineer (EIM Cell)
 Member Secretary,
 West Bengal Pollution Control Board

857-2N-58/2006(E) dtd. 28.05.2018

Dated.....

Memo No.
 Copy forwarded for information to :

1. Chief Inspector of Factories, Government of West Bengal, N. S. Building, Kolkata-700 001
2. Director of Industries/Director of Cottage & Small Scale Industries, Government of West Bengal, N. S. Building, Kolkata-700 001
3. Guard file, West Bengal Pollution Control Board.
4. Environmental Engineer, I/II/Alipur R.O./Howrah R.O./Hooghly R.O./B.R.O./D.R.O./Haldia R.O./S.R.O./Asansol/ Sub-R.O./WBPC Board

Himalaya Bhawan Delhi Road, Dankuni Dist. Hooghly	Vill, Panpur Kalyani Expressway P.O. Narayanpur Dist. 24 Pgs. (N)	Sahid Khudiram Sarani City Centre, Durgapur-16 Dist. Burdwan	10, Camac Street 2nd Floor Kolkata-700 017
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Paribesh Bhawan 10A, LA-Block, Sector-III Salt Lake City, Kolkata - 700 098	Block-05 at 40 Flats Complex Adjacent to Priyambada Housing Estate P.O. :Khanjanchak, P.S. Durgachak Haldia-721602 Dist. : Purba Medinipur	Paribahan Nagar Matigara, Siliguri Dist.-Darjeeling
--	---	---

Satya Chowdhury Indoor Stadium	Asansol Sub-Regional Office ADDA Commercial Market (2nd Floor)	Sr. Env. Engineer (EIM Cell)
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Annexure I to NOC Sl. No. NO153414

issued to M/s. Haldia Petrochemicals Limited for its Naphtha Cracking Facility and Petrochemical Manufacturing Unit at Tehsil – Sutahata - I, Haldia, Dist – Purba Medinipur, West Bengal (Expansion Project)

A. List of Products to be manufactured (With Production Capacity)

Sl. No.	Product	Existing Production Capacity (KTA)	Proposed Production Capacity (KTA) (For Expansion Project)	Total Expansion Capacity (KTA) (After Expansion)
1.	Ethylene	700	70	770
2.	Propylene	350	35	385
3.	Polypropylene	341	0	341
4.	High Density Poly Ethylene (HDPE)	334	160	494
5.	Linear Low Density Poly Ethylene (LLDPE)	386	0	386
6.	Butadiene	101	10	111
7.	Benzene	132	43	175
8.	Butene-1	0	30.2	30.2
9.	Methyl Tertiary Butyl Ether (MTBE)	0	60	60
10.	Vinyl Acetate Ethylene (VAE)	0	60	60
11.	Mixed Butane	113	13	126
12.	Cyclo Pentane	5.2	3.	8.2
13.	Pyrolysis Gasoline	130.5	69.5	200
14.	Motor Spirit (MS) Euro IV	250.6	49.4	300
15.	Phenol	0	200	200
16.	Acetone	0	123	123
17.	Carbon Black Feed Stock (CBFS)	89	11	100
18.	Poly Butylene Terephthalate (PBT)	0	70	70
19.	Tetrahydrofuran (THF)	0	16	16
20.	C6 Raffinate	36.6	27.4	64

B. Additional Captive Power Plant (CPP) comprising of 3X120 TPH Steam Generation Capacity Coal Fired Boilers and 1X 35 MW Capacity Condensing Steam Turbine Generator (CSTG) to be installed.

Signature / 25.06.2018

Annexure II to NOC Sl. No. **NO153414**

Special Conditions issued to M/s. **Haldia Petrochemicals Limited** for its **Naphtha Cracking Facility and Petrochemical Manufacturing Unit at Tehsil – Satahata - I, Haldia, Dist – Purba Medinipur, West Bengal (Expansion Project)**

A) **Emission:-**

Sl. No	Emission sources	Air Pollution Control Device	Stack (Nos. & height from GL in m.)
1.	3X120 TPH Coal Fired Boilers	Electrostatic Precipitator	01 no., 140 m
2.	Heater (Fuel Gas (Mixture of hydrocarbon gases and hydrogen) Fired)	Nil	01 no., 40 m

Stacks to have sampling port, platform and ladder as per the emission regulation part-III of CPCB. Volatile organic compounds generated from different processes must be routed to the existing flare stack for combustion.

B) **Effluent:-**

- 1) Process – To be treated in integrated waste water treatment plant. Treated effluent to be discharged to river through Green Belt Canal.
- 2) Domestic – To be treated in integrated waste water treatment plant. Treated effluent to be discharged to river through Green Belt Canal.

C) **Solid Waste :-**

1. Hazardous waste including ETP sludge to be disposed off as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
2. Municipal solid wastes to be disposed off as per the Solid Waste Management Rules, 2016.

D) **General:-**

- 1) Noise Control – Ambient noise & D.G. Set noise level not to exceed the permissible limit.
- 2) The standards / guidelines for control of noise from stationary Diesel generator sets prescribed under notification of Ministry of Environment & Forest, Govt. of India, G.S.R.371(E), [17/5/2002] and its amendments should be followed.
- 3) Action to be taken to control fugitive emission.
- 4) Fire License to be obtained from competent authority.
- 5) The unit should obtain authorization from this Board under the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
- 6) Good housekeeping to be maintained.

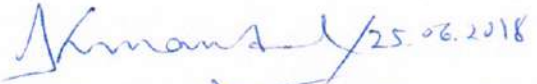
Signature / 25.06.2018

Regional Engineer
Air Pollution Control Board
West Bengal

Annexure II to NOC Sl. No. **NO153414**

Special Conditions issued to M/s. **Haldia Petrochemicals Limited** for its **Naphtha Cracking Facility and Petrochemical Manufacturing Unit at Tehsil – Satahata - I, Haldia, Dist – Purba Medinipur, West Bengal (Expansion Project)**

- 7) No expansion / modification to be carried out without permission from this Board.
- 8) The unit should obtain Consent-to-Operate for the proposed expansion project from the Board before starting manufacturing activities.
- 9) Statutory clearance/license from competent authorities, as applicable to be obtained.
- 10) All conditions of the Environmental Clearance issued by MoEF & CC vide memo no. J-11011/194/2016-IA II (I) dated 20.03.2018 to be complied with.
- 11) This 'Consent to Establish' is valid up to **30.06.2025** for setting up the expansion unit.

/25.06.2018

**Member Secretary/ Sr. Environmental Engineer, EIM Cell
West Bengal Pollution Control Board**


WEST BENGAL POLLUTION CONTROL BOARD

(Department of Environment, Govt of West Bengal)

WEST BENGAL POLLUTION CONTROL BOARD

(Department of Environment, Govt. of West Bengal)

Paribesh Bhawan

Bldg. No. 10 A, Block-LA, Sector-III, Bidhannagar

Kolkata – 700 106

Tel : 0091 (033) 2335-9088 / 8861 / 8211 / 8073 / 6731

Fax : 0091 (033) 2335 6730 / 2813

 Website : www.wbpcb.gov.in, e-mail : [wbpcnet@wbpcb.gov.in](mailto:wbpccnet@wbpcb.gov.in)
Memo No: 01 – -hl-co-r/16/0054

Date: 14 / 08 / 2019

To
M/s. Haldia Petrochemicals Ltd.

P.O & P.S- Durgachak,

Dist-Purba Medinipur

PIN-721602

Sub.: Amendment of Consent to Operate for your unit located at P.O& P.S.-Durgachak, Haldia, Dist-Purba Medinipur, Pin-721602.

Ref. (i) *Consent to Operate* certificate CO113738 issued vide memo no. 215-403/WPB(HRO)-K/2001(Pt-VI) dated 06/03/2019.

(ii) Your letter Ref no. HPL/IMS/HSEF/R/4.3.2/08/ENV/E-04/WBPCB dated 25/03/2019

Sir,

In reference to the above, this is to inform you that the following amendments are made in the abovementioned Consent to Operate certificate issued by this office:-

Conditions:-

01. The consent is valid for manufacture of:-

Sl No. 02- Mixed Butane – 13.0 KTA /Month in place of Mixed Butane -15.0 KTA/Month.

08. The industrial effluent parameters of pH – Between 6.5 to 8.5 in place of 6.5 to 5.5

13. The applicant shall install comprehensive control system consisting of pollution control equipment as is warranted with reference to generation of air emissions and operate and maintain the same continuously so as to achieve the level of pollutants of the Standard as given in Tabel-II below:- amended as

Stack No.	Stack height from G.L (in mts.)	Stack attached to (sources and control system if any)	Voulume Nm ³ /hr	Concentration of parameters not to exceed at 3% O ₂ , correction				Frequency of emission sampling
				SPM (mg/Nm ³)	CO (% v/v)	SO ₂ (mg/Nm ³)	NO _x (mg/Nm ³)	
S-1	30	RFG fired Heater for Py-gas Desulphurisation Unit	-	05	NA	50	250	Quarterly

Contd.....p/2

দূষণ মুক্ত নির্মল গঙ্গা চাই



WEST BENGAL POLLUTION CONTROL BOARD

(Department of Environment, Govt of West Bengal)

WEST BENGAL POLLUTION CONTROL BOARD

(Department of Environment, Govt. of West Bengal)

Paribesh Bhawan

Bldg. No. 10 A, Block-LA, Sector-III, Bidhannagar

Kolkata – 700 106

Tel : 0091 (033) 2335-9088 / 8861 / 8211 / 8073 / 6731

Fax : 0091 (033) 2335 6730 / 2813

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

-2-

17. Noise levels limit given below: amended as

Time	Limit in dB(A) L_{eq}
Day Time (06 a.m to 10 p.m)	75
Night Time (10 p.m to 06 a.m)	70

This letter may be treated as an annexure to the *Consent to Operate* certificate no. CO113738 dated 06.03.2019. All other terms & conditions of the above mentioned Consent to Operate will remain unchanged.

Thanking you,

Yours faithfully,


Chief Engineer
W.B Pollution Control Board

দূষণ মুক্ত নির্মল গঙ্গা চাই

WEST BENGAL POLLUTION CONTROL BOARD

'Paribesh Bhawan'
Bldg. No. - 10A, Block - LA, Sector-III
Salt Lake City, Kolkata-700 098
E X P A N S I O N



Consent Letter Number : CD113738

Memo Number : 215-403/WPB(HRO)-K/2001 (Pt-VI)

Date : 06/03/2019

Consent to Operate

under

Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974 and
Section 21 of the Air (Prevention and Control of Pollution) Act, 1981

The West Bengal Pollution Control Board (hereinafter referred to as State Board) under the provisions of 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, hereby grants its consent to :

M/s. HALDIA PETROCHEMICALS LTD

(Address of Regd. office/Head/Office/City Office)

(hereinafter referred to as Applicant) for its unit located at P.O. & P.S: Durgachak, Haldia, Dist: Purba

Medinipur, PIN: 721602

(Detailed address of the manufacturing unit)

for a period from Date of issue to 30/11/2023

to operate the industrial unit and to discharge liquid effluent and to emit gaseous effluent from the premises/land of the industrial unit, in accordance with the conditions as mentioned in the Annexure to this consent letter provided on any day at any instance the quantity and quality of liquid discharge and gaseous emission shall not exceed the permissible limit as specified in the Table I & II of this consent letter and in the Environmental (Protection) Act, 1986.

Breach of the conditions and / or failure to comply with the directions as set out in the Annexure shall render the applicant liable for prosecution under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981.

The State Board reserve the right to revoke, withdraw or make any reasonable variation / change / alter the conditions of this consent letter giving one month's notice to the applicant.



For and on behalf of the State Board

(Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

Senior Environmental Engineer
W.B. Pollution Control Board

ANNEXURE

Consent to M/s. HALDIA PETROCHEMICALS LTD
 for its unit at P.O. & P.S: Durgachak, Haldia,
 Purba Medinipur, PIN: 721602

Conditions :

01. This Consent is valid for the manufacture of :-

Sl. No.	Name of major products and by-products	Quantity manufactured per month
01	Butene --- 1	30.20 KTA
02	Mixed Butene	15.00 KTA
03	Methyl Tertiary Butyl Ether	98.6 KTA
04	(MTBE)	
05		
06		
07		
08		
09		
10		
11		
12		

02. The *Applicant* shall remain responsible for quantity and quality of liquid effluent and air emissions.
03. **Daily** discharge of industrial liquid effluent shall not exceed 62.4 KL.
04. **Daily** discharge of domestic liquid effluent shall not exceed ----- KL.
05. **Daily** discharge of mixed (industrial & domestic) liquid effluent shall not exceed ----- KL.
06. The *Applicant* shall discharge liquid effluent to River Hooghly (place of discharge) through Green Belt Canal nos. outlets / outfalls.
07. To bring into any altered or new outlet/outfall or to change the place of discharge, the *Applicant* shall have to inform the Board and obtain prior permission of the Board in this effect.
08. The *Applicant* shall provide comprehensive facility for treatment of industrial liquid waste and domestic liquid waste (sewage, sullage and liquid effluent generated from canteen), and operate and maintain the same continuously so that the quality of final effluent conforms to the *Standard* as given in Table-I in page 03.

(Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

Senior Environmental Engineer
 W.B. Pollution Control Board

Continued.....

Consent to M/s. HALDIA PETROCHEMICALS LTD
 for its unit at P.O. & P.S: Durgachak, Haldia,
 Purba Medinipur, PIN: 721602

Table-I

Outlet No.	Nature of effluent	Parameters	Standard	Frequency of effluent sampling
01	Industrial	pH	Between : 6.5 to 5.5	Quarterly
		Total Suspended Solids	Not to exceed : 100 mg/l.	
		Biochemical Oxygen Demand (3day at 27°C)	Not to exceed : 30 mg/l.	
		Chemical Oxygen Demand	Not to exceed : 250 mg/l.	
		Oil & Grease	Not to exceed : 10 mg/l.	
		Phenol	" 1.0 Mg/l	
		Phenoxide	" 5.0 Mg/l	
		Total Cr	" 2.0 Mg/l	
		CN	" 0.2 Mg/l	
		Cr + 6	" 0.1 Mg/l	
		Sulphide	" 2.0 Mg/l	
		Cu	" 1.0 Mg/l	
		Fe	" 1.0 Mg/l	
		Zn	" 1.0 Mg/l	
		Phosphate	" 5.0 Mg/l	
		Free Available Chlorine	" 0.5 Mg/l	
			Not more than 10° C than intake	

09. The Applicant falls in the Category of the Water (Prevention and Control of Pollution) Cess Act, 1977 and Rules made thereunder and the Applicant shall comply with the provisions of the said Act and Rules made thereunder.

10. Daily water consumption for the following purposes should not exceed :-

- Industrial cooling, spraying in mine pits and boiler feed water → KL
 (Water used for gardening should be included in this category of use)
- Domestic purpose → KL
- Processing whereby water gets polluted and the pollutants are easily biodegradable → KL
- Processing whereby water gets polluted and the pollutants are not easily biodegradable → KL

The Applicant shall regularly submit to the Board the Returns of Water Consumption in the prescribed form and pay the Cess as specified under Section 3 of the said Act.


 (Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)
 Senior Environmental Engineer
 W.B. Pollution Control Board

Continued.....

Consent to M/s. HALDIA PETROCHEMICALS LTD
 for its unit at P.O. & P.S: Durgachak, Haldia,
 Purba Medinipur, PIN: 721602

11. The *Applicant* shall install suitable device for measuring the volume of water consumed for different purposes as mentioned above giving correct result to the satisfaction of the *State Board*.
12. All the stacks connected to various sources of emissions must be designated by numbers such as S-1, S-2, S-3, etc., and this must be painted/displayed to facilitate identification.
13. The *Applicant* shall install comprehensive control system consisting of pollution control equipment as is warranted with reference to generation of air emissions and operate and maintain the same continuously so as to achieve the level of pollutants of the *Standard* as given in Table-II below :

Table-II

Stack No.	Stack height from G.L., (in mts.)	Stack attached to (sources and control system, if any):	Volume Nm ³ /hr.	Velocity of gas emission m/sec	Concentrations of parameters not to exceed at 3% O ₂ Correction					Frequency of emission sampling
					SPM (mg/Nm ³)	CO (%v/v)	SO ₂ (Mg/Nm ³)	NO _x (mg/Nm ³)	---	
S-I	40.0 m	HFG fired Heater for Py-gas Desulphurisation Unit	---	---	05	100	50	250	---	Quarterly
S-2										
S-3										
S-4										
S-5										
S-6										
S-7										
S-8										
S-9										
S-10										

(Member-Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

Senior Environmental Engineer
 W.B. Pollution Control Board

Continued.....

Consent to M/s. HALDIA PETROCHEMICALS LTD
 for its unit at P.O. & P.S: Durgachak, Haldia,
 Purba Medinipore, PIN: 721602

14. The *Applicant* shall provide ports in the stack(s) and other necessary permanent facilities such as ladder, platform, etc. for monitoring/sampling the air emissions and the same shall be made available for inspection and use by the *State Board's* staff as well as *State Board's* authorised agencies.
15. The *Applicant* shall observe the following fuel consumption pattern :-

Sl. No	Type of fuel	Quantity consumed per day	Fuel burning operation where the fuel is used
01	Residual Fuel	Gas 1.44 KTA	Heater
02			
03			
04			
05			

16. The *Applicant* shall maintain the generation and treatment/disposal of non-hazardous solid waste as specified below :- *

Type of waste	Quantity	Treatment	Disposal
N I L	_____	_____	_____
	_____	_____	_____

17. The *Applicant* shall take adequate measures for control of noise levels from its own sources within the premises within the limit given below :-

Time	Limit in dB(A) L_{eq}
Day Time (06 a.m. to 09 10 p.m.)	65
Night Time (09 10 p.m. to 06 a.m.)	55

18. The *Applicant* shall at all times maintain good house-keeping, proper working order, and operate efficiently for control of pollution from all sources so as not to cause nuisance to surrounding areas/inhabitants and to achieve compliance with the terms and conditions of the consent.
19. The *Applicant* shall bring about at least 33% of the available open land under the green coverage / plantation.
20. The *Applicant* shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by the *Applicant* to maintain compliance with the terms and conditions of the consent. In absence of such an alternate electric power source, the *Applicant* shall stop, reduce or otherwise control production to abide by the terms and conditions of the Consent regarding pollution level.
21. The *Applicant* shall install a separate energy meter showing the consumption of energy for operation of pollution control devices.
22. The *Applicant* shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
23. The *Applicant* shall provide drainage system for conveying industrial and domestic liquid waste. Storm-water drain shall be kept separate from the drainage system meant for industrial and domestic liquid waste

The unit must obtain Authorization under Hazardous Wastes (M & H) Rules

(Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

Senior Environmental Engineer
 W.B. Pollution Control Board

Continued.....

Consent to M/s. HALDIA PETROCHEMICALS LTD

for its unit at P.O. & P.S: Durgachek, Haldia,

..... Purba Medinipore, PIN: 721602

24. The *Applicant* shall maintain a separate register showing consumption of chemicals used in pollution control systems.
25. The *Applicant* shall get the samples of hazardous wastes/leachates analysed at least once in from the laboratory recognised of the West Bengal Pollution Control Board and ensure that they conform to the limits stipulated. Test reports shall be sent to the Board.
26. The *Applicant* shall provide adequate and safe facility for collection of air, waste water and solid waste samples by the *State Board's* staff as well as *State Board's* authorised agencies.
27. The *Applicant* shall submit to the *State Board* by the 30th September of every year the Environmental Statement Report for the financial year ending 31st March of the current year in the prescribed form (Form -V) as required under the provisions of rule 14 of the Environment (Protection) [Second Amendment] rules, 1992.
28. The *Applicant* shall allow the Officers of the *State Board* to enter into the applicant's premises at any reasonable time to inspect the pollution control systems as well as monitoring and measuring devices in connection with prevention & control of pollution.
29. The *Applicant* shall maintain an Inspection Book in the factory premises which shall be made available to Officers & employees of the *State Board* for inspection, review and to write down any direction or observation as is deemed necessary during the inspection from time to time.
30. The *Application* shall furnish to the *State Board* all information in respect of quality, quantity, rate of discharge, place of discharge of liquid effluent and air emissions.
31. The *Applicant* shall maintain adequate number of qualified and trained personnel among his staff for proper maintenance and operation of the effluent treatment and / or emission control devices and for overall environment management of the industry.
32. The *Applicant* shall have to make registration for the use of groundwater if any, with Central Ground Water Authority.
33. The *Applicant* shall intimate to the *State Board* immediately of any occurrence or apprehension of occurrence of discharge of any poisonous, noxious or pollutants in excess of quality as well as quality as mentioned earlier to any receiving water body/receiving system or to atmosphere owing to accident or other unforeseen incident/event including natural disaster. The *Applicant* Shall (i) take all steps adequate to prevent such accident discharge/release of poisonous, noxious or pollutants and to limit their consequences to persons and the environment, (ii) provide to the persons working on the site with the information, training and equipment including antidotes necessary to ensure their safety and mitigate the accidental release of poisonous noxious or pollutants to the environment.
34. The *Applicant* shall make an application to the *State Board* in the prescribed form for renewal of the consent at least 60 (sixty) days before the date of expiry of this Consent.
35. The *Applicant* shall not make any alternation/modification/expansion in the existing manufacturing process and equipment as well as the pollution control system without prior approval of the Board.
36. The *Applicant* shall comply with the conditions as laid down in the Manufacture, Storage and Import of hazardous Chemicals Rules, 1989 and Hazardous Wastes (Management & Handling) Rules, 1989.

Additional Conditions

See annexure -- 1

Attached Annexure 1 for storage tanks.

(Member Secretary/Chief-Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

Senior Environmental Engineer
W.B. Pollution Control Board

Annexure - i


Consent No.CO113738

Additional conditions issued to : M/S. HALDIA PETROCHEMICALS LIMITED
DURGACHAK, HALDIA,
DIST. – PURBA MEDINIPUR,
PIN – 721 602

1. Present hazardous waste storage facilities :

Sl. No.	Chemical	Storage Facility	No. of Tanks proposed	Working Volume, (m ³)	Storage Quantity, (MT)
1.	Naphtha	Tank	1	42,735	28,632
2.	Hydrogenated Py-Gas	Tank	1	4000	3,560
3.	MS Blending Tank	Tank	1	1210	932
4.	Methanol	Tank	2	4500	7,128
5.	MTBE	Tank	2	5000	7,400
6.	MTBE	Tank	1	2800	2,072

2. The unit should above all the conditions as mentioned in the Environmental Clearance issued by MoEF & CC vide Memo No.J-11-11/194/2016-1A-11(1) dated 20-03-2018 and Consent to Establish (NOC) issued by WBPCB vide Memo No.357-2N-58/2006 (E) Dated 29-06-2018 and its amendment thereafter.
3. This Consent may be revoked at any time on violation of environmental norms.


Sr. Environmental Engineer
Camac Street Circle Office
West Bengal Pollution Control Board

Senior Environmental Engineer
W.B. Pollution Control Board



"Expansion"
WEST BENGAL POLLUTION CONTROL BOARD

'Paribesh Bhawan'
 Bldg. No. - 10A, Block - LA, Sector-III
 Salt Lake City, Kolkata-700 098



Consent Letter Number : C0131976

Memo Number : 199-403/WPB(HRO)-K/2001 (Part - IX)

Date : 22/09/2021.

Consent to Operate

under

Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974 and
 Section 21 of the Air (Prevention and Control of Pollution) Act, 1981

The West Bengal Pollution Control Board (hereinafter referred to as State Board) under the provisions of 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, hereby grants its consent to :

M/s. Haldia Petrochemicals Limited

(Address of Regd. office/Head/Office/City Office)

(hereinafter referred to as Applicant) for its unit located at P.O. L.P.S - Durgachak,

Dist- Purba Medinipur, Pin-721602

(Detailed address of the manufacturing unit)

for a period from date of issue to 31/03/2024

to operate the industrial unit and to discharge liquid effluent and to emit gaseous effluent from the premises/land of the industrial unit, in accordance with the conditions as mentioned in the Annexure to this consent letter provided on any day at any instance the quantity and quality of liquid discharge and gaseous emission shall not exceed the permissible limit as specified in the Table I & II of this consent letter and in the Environmental (Protection) Act, 1986.

Breach of the conditions and / or failure to comply with the directions as set out in the Annexure shall render the applicant liable for prosecution under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981.

The State Board reserve the right to revoke, withdraw or make any reasonable variation / change / alter the conditions of this consent letter giving one month's notice to the applicant.

For and on behalf of the State Board

(Member Secretary/Chief Engr./ Sr. Env. Engr / Env. Engr. / Asst. Env. Engr.)

Hardi
22/09/21
 Environmental Engineer
 W. B. Pollution Control Board
 Operation & Execution Cell



ANNEXURE

Consent to M/s. Haldia Petrochemicals Limited
 for its unit at P.O. & P.S. - Dwargachak, Dist - Purba Medinipur,
Pin - 721602

Conditions :

01. This Consent is valid for the manufacture of :-

Sl. No.	Name of major products and by-products	Quantity manufactured per month
01	Captive Power	35 Megawatt
02		
03		
04		
05		
06		
07		
08		
09		
10		
11		
12		

02. The Applicant shall remain responsible for quantity and quality of liquid effluent and air emissions.

03. Daily discharge of industrial liquid effluent shall not exceed 9.32 KL.

04. Daily discharge of domestic liquid effluent shall not exceed — KL.

05. Daily discharge of mixed (industrial & domestic) liquid effluent shall not exceed — KL.

06. The Applicant shall discharge liquid effluent to Hooghly River Hooghly after WWTP (place of discharge)
 through 01 (one) Green Belt Canal nos. outlets/ outfalls.

07. To bring into any altered or new outlet/outfall or to change the place of discharge, the Applicant shall have to inform the Board and obtain prior permission of the Board in this effect.

08. The Applicant shall provide comprehensive facility for treatment of industrial liquid waste and domestic liquid waste (sewage, sullage and liquid effluent generated from canteen), and operate and maintain the same continuously so that the quality of final effluent conforms to the Standard as given in Table-I in page 03.

(Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

Haldia
22/09/21
 Environmental Engineer
 W. B. Pollution Control Board
 Operation & Execution Cell

C0131976

(3)

Consent to M/s. Haldia Petrochemicals Limited
 for its unit at P.O. EPS - Durgachak, Dist- Purba Medinipur,
Pin-721602

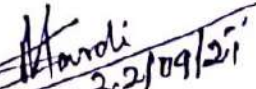
Table-I

Outlet No.	Nature of effluent	Parameters	Standard	Frequency of effluent sampling
01	Mixed	pH	Between: 6.5 to 8.5	Quarterly
		Total Suspended Solids	Not to exceed: 150mg/l.	
		Biochemical Oxygen Demand (3day at 27°C)	Not to exceed: 30 mg/l.	
		Chemical Oxygen Demand	Not to exceed: 250 mg/l.	
		Oil & Grease	Not to exceed: 10 mg/l.	
		Phenol	" 1.0 "	
		Fluoride	" 5.0 "	
		Total Cr	" 2.0 "	
		CN	" 0.2 "	
		Cr ₆₊	" 0.1 "	
		Sulphide	" 2.0 "	
		Cu	" 1.0 "	
		Fe	" 1.0 "	
		Zn	" 1.0 "	
		Phosphate	" 5.0 "	
		Free available Chlorine	" 0.5 "	

09. The Applicant falls in the Red Category of the Water (Prevention and Control of Pollution) Cess Act, 1977 and Rules made thereunder and the Applicant shall comply with the provisions of the said Act and Rules made thereunder.

10. Daily water consumption for the following purposes should not exceed :-
- Industrial cooling, spraying in mine pits and boiler feed water → 12452 KL
 (Water used for gardening should be included in this category of use)
 - Domestic purpose → — KL
 - Processing whereby water gets polluted and the pollutants are easily biodegradable → — KL
 - Processing whereby water gets polluted and the pollutants are not easily biodegradable → — KL

The Applicant shall regularly submit to the Board the Returns of Water Consumption in the prescribed form and pay the Cess as specified under Section 3 of the said Act.


 2.2/09/21
 Environmental Engineer
 W. B. Pollution Control Board
 Operation & Execution Cell

(Member Secretary/Chief Engr./Sr. Env. Engr./ Env. Engr./ Asst. Env. Engr.)

Consent to M/S. Haldia Petrochemicals Ltd.
 for its unit at P.O. & P.S. - Durgachak, Dist - Purba Medinipur, Pin - 721602

11. The Applicant shall install suitable device for measuring the volume of water consumed for different purposes as mentioned above giving correct result to the satisfaction of the State Board.
12. All the stacks connected to various sources of emissions must be designated by numbers such as S-1, S-2, S-3, etc., and this must be painted/displayed to facilitate identification.
13. The Applicant shall install comprehensive control system consisting of pollution control equipment as is warranted with reference to generation of air emissions and operate and maintain the same continuously so as to achieve the level of pollutants of the Standard as given in Table-II below :

Table-II

Stack No.	Stack height from G.I., (in mts.)	Stack attached to (sources and control system, if any):	Volume Nm ³ /hr.	Velocity of gas emission m/sec	Concentrations of parameters not to exceed			Frequency of emission sampling
					SPM (mg/Nm ³)	CO (%v/v)		
S-1	140m (Common)	Boiler (3x120 TPH each)			30	1		Quarterly
S-2		Separate BSP with 4-bird						
S-3								
S-4								
S-5								
S-6								
S-7								
S-8								
S-9								
S-10								

(Member Secretary/Chief Engr./Sr. Env. Engr./Env. Engr./Asst. Env. Engr.)

H. Das
 22/09/21
 Environmental Engineer
 W. B. Pollution Control Board
 Operation & Execution Cell

Consent to M/s. Haldia Petrochemicals Ltd.
 for its unit at P.O. & P.S. - Durgachak, Dist- Purba Medinipur,
Pin - 721602

24. The *Applicant* shall maintain a separate register showing consumption of chemicals used in pollution control systems.
25. The *Applicant* shall get the samples of hazardous wastes/leachates analysed at least once in from the laboratory recognised of the West Bengal Pollution Control Board and ensure that they conform to the limits stipulated. Test reports shall be sent to the Board.
26. The *Applicant* shall provide adequate and safe facility for collection of air, waste water and solid waste samples by the *State Board's* staff as well as *State Board's* authorised agencies.
27. The *Applicant* shall submit to the *State Board* by the 30th September of every year the Environmental Statement Report for the financial year ending 31st March of the current year in the prescribed form (Form -V) as required under the provisions of rule 14 of the Environment (Protection) [Second Amendment] rules, 1992.
28. The *Applicant* shall allow the Officers of the *State Board* to enter into the applicant's premises at any reasonable time to inspect the pollution control systems as well as monitoring and measuring devices in connection with prevention & control of pollution.
29. The *Applicant* shall maintain an Inspection Book in the factory premises which shall be made available to Officers & employees of the *State Board* for inspection, review and to write down any direction or observation as is deemed necessary during the inspection from time to time.
30. The *Application* shall furnish to the *State Board* all information in respect of quality, quantity, rate of discharge, place of discharge of liquid effluent and air emissions.
31. The *Applicant* shall maintain adequate number of qualified and trained personnel among his staff for proper maintenance and operation of the effluent treatment and / or emission control devices and for overall environment management of the industry.
32. The *Applicant* shall have to make registration for the use of groundwater if any, with Central Ground Water Authority.
33. The *Applicant* shall intimate to the *State Board* immediately of any occurrence or apprehension of occurrence of discharge of any poisonous, noxious or pollutants in excess of quality as well as quality as mentioned earlier to any receiving water body/receiving system or to atmosphere owing to accident or other unforeseen incident/event including natural disaster. The *Applicant* Shall (i) take all steps adequate to prevent such accident discharge/release of poisonous, noxious or pollutants and to limit their consequences to persons and the environment, (ii) provide to the persons working on the site with the information, training and equipment including antidotes necessary to ensure their safety and mitigate the accidental release of poisonous noxious or pollutants to the environment.
34. The *Applicant* shall make an application to the *State Board* in the prescribed form for renewal of the consent at least 60 (sixty) days before the date of expiry of this Consent.
35. The *Applicant* shall not make any alternation/modification/expansion in the existing manufacturing process and equipment as well as the pollution control system without prior approval of the Board.
36. The *Applicant* shall comply with the conditions as laid down in the Manufacture, Storage and Import of hazardous Chemicals Rules, 1989 and Hazardous Wastes (Management & Handling) Rules, 1989.

Additional Conditions See Annexure.

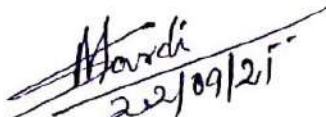
(Member Secretary/Chief Engr./Sr. Env. Engr./Env. Engr./Asst. Env. Engr.)

Haldia
 22/09/21
 Environmental Engineer
 W. B. Pollution Control Board
 Operation & Execution Cell

Annexure to Consent Letter Number – CO131976

Additional Conditions issued to M/s. Haldia Petrochemicals Limited at existing factory premises P.O & P.S-Durgachak, Dist- Purba Medinipur, PIN-721602.

1. The unit shall abide by all other condition as mentioned in Environmental Clearance (EC) issued vide no. F.No.J-11011/194/2016-1A-II(I) dated 20.03.2018 and NOC issued vide memo no.357-2N-58/2006(E) dated 29.06.2018 in favour of the expansion project.
2. The unit should obtain all the statutory licenses as applicable from other concerned Govt. Department.
3. This consent may be revoked at any time on violation of environmental norms.
4. The consent is valid for operation of 3 nos. coal fired boiler of capacity 120 TPH each and 1x35 MW Condensing Steam Turbine Generator (CSTG).


22/09/25
Environmental Engineer
West Bengal Pollution Control Board
Environmental Engineer
W. B. Pollution Control Board
Operation & Execution Cell

C0131976

(5)

Consent to M/s. Haldia Petrochemicals Limited

for its unit at P.O. & P.S. - Durgachak, Dist- Purba Medinipur,

Pin - 721602

14. The Applicant shall provide ports in the stack(s) and other necessary permanent facilities such as ladder, platform, etc. for monitoring/sampling the air emissions and the same shall be made available for inspection and use by the State Board's staff as well as State Board's authorised agencies.

15. The Applicant shall observe the following fuel consumption pattern :-

Sl. No	Type of fuel	Quantity consumed per day	Fuel burning operation where the fuel is used
01	Coal	0.743 million	Boilers (3x120 TPH) each
02		tonnes/year	
03			
04			
05			

16. The Applicant shall maintain the generation and treatment/disposal of non-hazardous solid waste as specified below :-

Type of waste	Quantity	Treatment	Disposal
Fly Ash	178144 MT/Year	-	Sale
Beel Ash	118763 MT/Year	-	Sale

17. The Applicant shall take adequate measures for control of noise levels from its own sources within the premises within the limit given below :-

Time	Limit in dB(A) L_{eq}
Day Time (06 a.m. to 09 p.m.)	75
Night Time (09 p.m. to 06 a.m.)	70

18. The Applicant shall at all times maintain good house-keeping, proper working order, and operate efficiently for control of pollution from all sources so as not to cause nuisance to surrounding areas/inhabitants and to achieve compliance with the terms and conditions of the consent.

19. The Applicant shall bring about at least 33% of the available open land under the green coverage / plantation.

20. The Applicant shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by the Applicant to maintain compliance with the terms and conditions of the consent. In absence of such an alternate electric power source, the Applicant shall stop, reduce or otherwise control production to abide by the terms and conditions of the Consent regarding pollution level.

21. The Applicant shall install a separate energy meter showing the consumption of energy for operation of pollution control devices.

22. The Applicant shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.

23. The Applicant shall provide drainage system for conveying industrial and domestic liquid waste. Storm-water drain shall be kept separate from the drainage system meant for industrial and domestic liquid waste

(Member Secretary/Chief Engr./Sr. Env. Engr./ Env. Engr./ Asst. Env. Engr.)

Hardi
22/09/21
Environmental Engineer
W. B. Pollution Control Board
Operation & Execution Cell

F. No. 11-52/2020- IA III
Government of India
Ministry of Environment, Forest and Climate Change
IA-III Division (CRZ)

Indira Paryavaran Bhawan
 Jor Bagh Road,
 New Delhi -110003
 Dated: 19th May, 2021

To,

The General Manager
M/s Haldia Petrochemicals Ltd,
P.O. Durgachak, City-Haldia,
District- East Medinipur-721602,
West Bengal

Subject: CRZ clearance for laying of pipelines at the Haldia Dock Complex, West Bengal- regarding.

Sir,

This has reference to your online proposal No. IA/WB/CRZ/183471/2020 received in this Ministry on the above mentioned project proposal for CRZ Clearance, in accordance with the provisions of the Coastal Regulation Zone (CRZ) Notification, 2011 issued under the Environment (Protection) Act, 1986.

2. The proposal was considered by the Expert Appraisal Committee (EAC) for Infrastructure Development, Coastal Regulation Zone, Building / Construction and Miscellaneous projects, in its 252nd EAC, 255th and 259th held on 29/12/2020, 12/02/2021 and 19/03/2021 respectively. The details of the project as per the documents submitted and presented during the aforesaid meeting are as under

- (i) M/s Haldia Petrochemicals Ltd. applied CRZ clearance for laying of pipelines from HPL facilities to the Oil Jetties of Haldia Dock Complex.
- (ii) Haldia Petrochemicals Limited (HPL), has a Naphtha based petrochemical manufacturing industry in Haldia, Purba Medinipur District. The facility is under expansion mode and has obtained the requisite Environmental Clearance on 20 March, 2018 from Ministry of Environment, Forest and Climate Change.
- (iii) The proposed Project site of Haldia Petrochemicals Ltd Geo-coordinates are as follows.
 - 22° 3'33.70"N and 88° 6'13.08"E (Boundary of HPL);
 - 22° 1'49.61"N and 88° 5'56.15"E (HOJ-1);
 - 22° 1'40.98"N and 88° 5'45.74"E (HOJ-2);
 - 22° 0'56.18"N and 88° 4'10.62"E (HOJ-3); and
 - 22°1'33.019"N and 88°5'30.735"E (Outer Terminal -2).
- (iv) The project facility is located approx. 125 km south-west of Kolkata. The project facility is accessible through NH-6 up to Kolaghat and then through NH-41, which runs approximately 4.22 km north-west from the project facility. Silpaprabesh station (part of south-eastern Railway Division) is within 1 km of the facility. On the



waterfront, the project facility is accessible through Haldia Dock Complex on Hooghly River.

- (v) Haldia Petrochemicals Ltd is within 2 km (aerial distance) of Hooghly River.
- (vi) There are three riverine jetties (HOJ-1, 2 and 3) and one proposed Outer Terminal 2 (OT-2) for oil and chemical handling, operated by Syamaprasad Mookerjee Port Trust.
- (vii) HPL imports and exports chemicals through these HOJ's. In 2018, HPL received environmental clearance for enhanced capacity of Naphtha cracking and diversification to new products. This also requires transport of chemicals through new pipeline from existing and proposed jetties.
- (viii) The proposed project site falls in CRZ IB and CRZ II area as per CRZ Notification, 2011.
- (ix) The total length of all the proposed pipelines are 58,496 m, of which 2511 m is proposed through the CRZ area (I B and II).
- (x) The total length of the existing pipelines is 38,770 m of which 2228 m lies in the CRZ area (I B and II).
- (xi) The proposed pipelines are as follows:
 - Benzene (1 X 12" NB) – HPL facility to HOJ-1;
 - Methyl Tert Butyl Ether (MTBE) (1 X 18" NB) – HPL facility to HOJ-3;
 - Nitrogen (3 X 4" NB) - HPL facility to HOJ-1, 2 & 3;
- (xii) Proposed Pipelines (to be laid after completion of proposed Outer Terminal- 2 by Haldia Dock Complex)
 - Hydrogenated Pyrolysis Gasoline (HPG)/Motor Spirit (MS) - (1 x 16" NB) - Extension from HOJ 2
 - Nitrogen (1 x 4" NB) - Extension from HOJ 2
 - Benzene (1 x 12" NB) - Extension from Marine Office
 - Methanol (1 x 8" NB) - Extension from Marine Office
 - Butadiene 2 x 6" NB) - Extension from Marine Office
- (xiii) Water requirement of 6 KLD during construction stage of the project is only for civil activities. During hydro-testing of the pipelines, a maximum of 760 m³/day of water for four days will be required. Haldia Petrochemicals Limited has an agreement with Haldia Development Authority (HDA) for supplying water to its facility. The quantity of water used in the construction and operation stage will be met from this water supply.
- (xiv) There is a wastewater treatment plant (WWTP) at Haldia Petrochemicals Limited.
- (xv) Wastewater will not be generated during construction phase. Mobile toilets will be provided at the construction site for the labourer's.
- (xvi) During operation, water will be required for hydro-testing that is a onetime activity. A maximum of 760 m³ of wastewater will be generated from hydro-testing for four days. This wastewater will be treated in the existing WWTP of capacity 3600 m³ per day. The treated water will be disposed into the Green Belt Channel.
- (xvii) During operation phase, approximately 3200 kVA of energy will be consumed, that will be sourced from HPL's Captive Power Plant (CPP).
- (xviii) During construction phase, a maximum of 1 ton of solid waste will be generated and generation of waste in non-CRZ area.
- (xix) Solid Hazardous Waste: This will include oil and paint drums. Oil and grease contaminated cotton wastes, etc. Hazardous waste will be initially segregated and stored at a designated area onsite followed by its disposal through agencies duly authorized by State Pollution Control Board in accordance to Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016. HPL has an


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- agreement with West Bengal Waste Management Limited for disposal of hazardous wastes;
- (xx) Solid waste such as food waste and recyclables viz. metal scraps, packaging material, etc. will be managed in coordination with municipal authorities, scrap dealers and local waste recyclers respectively;
 - (xxi) Construction wastes would be managed in accordance to Construction and Demolition Waste Management Rules, 2016.
 - (xxii) During construction phase, approximately maximum of 170 (contractual and permanent) people will be engaged and during operation phase approximately 30 (contractual and permanent) will be engaged.
 - (xxiii) The CRZ map of 1:4000 has been prepared by Institute of Environmental Studies and Wetland Management, Govt. of West Bengal.
 - (xxiv) The total cost of the project is ₹21 Crores.
 - (xxv) West Bengal Coastal Zone Management Authority (WBCZMA) has recommended the project vide its letter No. 1436/EN/T-11-4/01/2019, dated 3rd November, 2020.

2. Based on the recommendation of the West Bengal Coastal Zone Management Authority (WBCZMA) issued vide its letter No. 1436/EN/T-11-4/01/2019, dated 3rd November, 2020 and information submitted as at para no. 2 above and information provided during the presentation before the Expert Appraisal Committee and others, the Ministry of Environment, Forest and Climate Change, in acceptance of the recommendation of the Expert Appraisal Committee (CRZ), hereby accords CRZ Clearance to the above project viz 'laying of pipelines except the existing Benzene pipeline (1 X 8" NB) at the Haldia Dock Complex, West Bengal', for CRZ clearance, under the provision of CRZ Notification, 2011 and amendments thereto and circulars issued thereon, and subject to compliance of the following specific and general conditions as under:

PART A – SPECIFIC CONDITIONS:

- (i) The existing pipeline project (Naphtha (1 X 24" NB) – HPL facility to HOJ- 3; Butene -1 (1 X 8" NB) – HPL facility to HOJ-1; Hydrogenated Pyrolysis Gasoline (HPG)/Motor Spirit (MS) - (2 x 16" NB)- HPL facility to HOJ-1, HOJ-2; Butadiene (2 X 6" NB)- HPL Facility to HOJ-1; and Benzene (1 X 8" NB) – HPL Facility to HOJ-1) at Haldia Dock Complex was constructed without obtaining prior clearance as per CRZ Notification 1991 and thus is in Violation of CRZ Notification. **The project proponent shall obtain the necessary clearance for the same in accordance with the Ministry's OM No. 19-75/2015-IA III, dated 19/02/2021 prescribing procedure for dealing violation cases arising due to not obtaining prior CRZ clearance for permissible activities as per CRZ Notification, before commissioning of proposed project.**
- (ii) No groundwater shall be extracted to meet with the water requirements during the construction phase of the project.
- (iii) No excavated material during the construction shall be dumped in water bodies or adjacent areas. The site shall be restored to its near original condition after completion of construction of work.
- (iv) Any physical infrastructure setup during construction period shall be removed simultaneously with completion of laying of each segment of the project.



- (v) All conditions/recommendations stipulated by the West Bengal Coastal Zone Management Authority (WBCZMA) has recommended the project *vide* its letter No. 1436/EN/T-11-4/01/2019, dated 3rd November, 2020, shall strictly be complied with.

PART B - GENERAL CONDITIONS:

- (i) No excavated material during the construction shall be dumped in water bodies or adjacent areas. The site shall be restored to its near original condition after completion of construction.
- (ii) Management of solid waste in accordance with the Solid Waste Management Rules, 2016 shall be strictly implemented.
- (iii) 'Consent to Establish' and / or 'Consent to Operate' shall be obtained from State Pollution Control Board under the provisions of Air (Prevention and Control of Pollution) Act, 1981 and / or the Water (Prevention and Control of Pollution) Act, 1974, as may be applicable.
- (iv) No permanent labour camp, machinery and material storage shall be allowed in CRZ area.
- (v) Disposal of muck during construction phase should not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
- (vi) All liquid waste arising from the proposed development will be disposed of as per the norms prescribed by Central/State Pollution Control Board. There shall not be any disposal of untreated effluent into the sea/coastal water bodies. It shall be ensured that the wastewater generated is treated in the STP as committed by the project proponent. The treated waste water shall be reused for landscaping, flushing and / or HVAC cooling purposes etc. within the development. The project proponent should also make alternate arrangement for situation arising due to malfunctioning of STP. There shall be regular monitoring of standard parameters of the effluent discharge from STP under intimation to the SPCB.
- (vii) Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
- (viii) A copy of the clearance letter shall be uploaded on the website of the concerned State Coastal Zone Management Authority/State Pollution Control Board. The Clearance letter shall also be displayed at the Regional Office, District Industries Centre and Collector's Office / Tehsildar's office for 30 days.
- (ix) A six-monthly monitoring report shall need to be submitted by the project proponent to the concerned regional Office of this Ministry regarding the implementation of the stipulated conditions.



- (x) The Ministry of Environment, Forest & Climate Change or any other competent authority may stipulate any additional conditions or modify the existing ones, if necessary in the interest of environment and the same shall be complied with.
- (xi) 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.
- (xii) The above stipulations would be enforced among others under the provisions of the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991, the EIA Notification, 2006 and the extant CRZ regulations.
- (xiii) Full co-operation shall be extended to the officials from the Regional Office of MoEF&CC, during monitoring of implementation of environmental safeguards stipulated. It shall be ensured that documents/data sought pertinent is made available to the monitoring team. A complete set of all the documents submitted to MoEF&CC shall be forwarded to the concerned Regional Office of MoEF&CC.
- (xiv) In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Ministry.
- (xv) The Ministry reserves the right to add additional safeguard measures subsequently, if considered necessary, and to take action to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner, including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986, for non-compliance.
- (xvi) All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponent from the respective competent authorities.
- (xvii) The project proponent should advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded CRZ Clearance and copies of clearance letters are available with the State Pollution Control Board (SPCB) and may also be seen on the website of the Ministry of Environment, Forest and Climate Change at <http://www.envfor.nic.in>. The advertisement should be made within Seven days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the concerned Regional Office of this Ministry.

4. This Clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs Union of India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project.

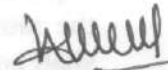
5. Any appeal against this clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.



6. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parisad / Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.

7. The proponent shall upload the status of compliance of the stipulated conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB.

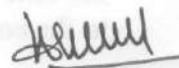
8. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of clearance conditions and shall also be sent to the respective Regional Office of the Ministry by e-mail.



(Dr. H. Kharkwal)
Additional Director /
Scientist 'E' (CRZ)

Copy to:

1. The Secretary, Department of Environment Forests, Science and Technology, Government of West Bengal State Council of Science & Technology Bikash Bhawan, North Block (4th Floor) Salt Lake, Sector III Kolkata – 700091, West Bengal.
2. The Chairman, West Bengal State Council of Science & Technology Bikash Bhawan, North Block (4th Floor) Salt Lake, Sector III Kolkata – 700091, West Bengal.
3. The Chairman, CPCB, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 110032
4. The Member Secretary, West Bengal Pollution Control Board, Parivesh Bhawan, 10A, Block-L.A., Sector III, Salt Lake City, Kolkata – 700098, West Bengal.
5. The Member Secretary, West Bengal Coastal Zone Management Authority, Department of Environment, Government of West Bengal, 5th Floor, Prani Sampad Bhawan, Block LB-II, Salt Lake, Sector 3, Vidhan Nagar, Kolkata 700106, West Bengal.
6. The APCCF (C), MOEF&CC Regional Office (EZ), A/3, Chandersekharpur, Bhubaneswar – 751023, Odisha.
7. Guard File / Record File / Notice Board.
8. Monitoring Cell.



(Dr. H. Kharkwal)
Additional Director /
Scientist 'E' (CRZ)

NOC/10168852

WEST BENGAL POLLUTION CONTROL BOARD

Paribesh Bhawan
10A, Block-LA, Sector-III
Bidhannagar, Kolkata-700 098

Memo No. 200-403/NPB(HRO)-K/2001 (Pt-VII)

Dated 22/09/2021

From :
Member Secretary,
West Bengal Pollution Control BoardTo :
M/s. Haldia Petrochemicals Ltd.
P.O. & P.S. - Durgachak
Dist - Purba Medinipur, Pin - 721602

WEST BENGAL

Sub : Consent to Establish (NOC) from Environmental Point of View

Ref : Your letter No. HPL/IMS/HSEFR/4.3.2/08/ENV/E-04/WBP&B

Dated 14/07/2021

Dear Sirs,

In response to the application for Consent to Establish (NOC) for proposed Unit of M/s Haldia Petrochemicals Ltd. for manufacturing/storage installation of pipeline (detail in annexure)

at P.O. & P.S. - Durgachak, Dist - Purba Medinipur, Pin - 721602

this is to inform you that this Board hereby grants the Consent to Establish (NOC) from the environmental point of the above subject to the following conditions and special conditions annexed.

1. The quality of sewage and trade effluent to be discharged from your factory shall satisfy the permissible limits as prescribed in IS : 2490 (Pt. I) of 1974, and/or its subsequent amendment and Environment (Protection) Rules 1986.
2. Suitable measures to treat your effluent shall be adopted by you in order to reduce the pollutional load so that the quality of the effluent satisfies the standards mentioned above.
3. You shall have to apply to this Board for its consent to operate and discharge of sewage and trade effluent according to the provisions of the water (Prevention & Control of Pollution) Act, 1974. No sewage or trade effluent shall be discharged by you without prior consent of this Board.
4. All emission from your factory shall conform to the standards as laid down by this Board.
5. No emission shall be permitted without prior approval of this Board and you shall apply to this Board for its consent to operate and atmospheric emission as per provision of the Air (Prevention & Control Pollution) act, 1981.
6. No industrial plant, furnace, flues, chimneys, control equipment, etc. shall be constructed/reconstructed/erected/re-erected without prior approval of this Board.

NOC NO 168852

7. You shall comply with
- Water (Prevention and Control of Pollution) Cess Act, 1977, if applicable.
 - Water (Prevention and Control of Pollution) Cess Act, 1978, if applicable.
 - Environment (Protection) Act, 1986
 - Environment (Protection) Rules, 1986
 - Hazardous Wastes (Management and Handling) Rules, 1989 and Amended Rules, 2000
 - Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 and Amended Rules, 2000
 - Manufacture, Use, Import and Storage and Hazardous Micro-Organisms, Genetically Engineered Organisms or Cell Rules, 1989
 - The Public Liability Insurance Act, 1991 and Amended Act, 1992
 - The Public Liability Insurance Rules, 1991 and Amended Rules 1993
 - Biomedical Wastes (Management & Handling) Rules, 1998 and Amended Rules 2000 if applicable.
 - Recycled Plastics Manufacture and Usage Rules 1999, if applicable and
 - Ozone Depleting Substances (Regulation & Control) Rules, 2000, if applicable
8. You will have to abide by any other stipulations as may be prescribed by any authority/local bodies/Government Departments etc.

SPECIAL CONDITION:

See Annexure I

Gross Capital Investment of Rs. 210000000/-

Any violation of the aforesaid conditions shall entail cancellation of this Consent to Establish (NOC)

Yours faithfully,

Haradi
22/09/21
Member Secretary,
West Bengal Pollution Control Board
Environmental Engineer
Dated.. W. B. Pollution Control Board
Operation & Execution Cell

Memo No.

Copy forwarded for information to :

- Chief Inspector of Factories, Government of West Bengal, N. S. Building, Kolkata-700 001
- Director of Industries/Director of Cottage & Small Scale Industries, Government of West Bengal, N. S. Building, Kolkata-700 001
- Guard file, West Bengal Pollution Control Board.
- Environmental Engineer, I/II/Alipur R.O./Howrah R.O./Hooghly R.O./B.R.O./D.R.O./Haldia R.O./S.R.O./Asansol/ Sub-R.O./WBPC Board

Himalaya Bhawan Delhi Road, Dankuni Dist. Hooghly	Vill, Panpur Kalyani Expressway P.O. Narayanpur Dist. 24 Pgs. (N)	Sahid Khudiram Sarani City Centre, Durgapur-16 Dist. Burdwan	10, Camac Street 2nd Floor Kolkata-700 017
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Paribesh Bhawan 10A, LA-Block, Sector-III Salt Lake City, Kolkata - 700 098	Block-05 at 40 Flats Complex Adjacent to Priyambada Housing Estate P.O. : Khanjanchak, P.S. Durgachak Haldia-721602 Dist. : Purba Medinipur	Paribahan Nagar Matigara, Siliguri Dist.-Darjeeling
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Satya Chowdhury
Indoor Stadium
Balurchar Bandh Road
Malda-732101

Asansol Sub-Regional Office
ADDA Commercial Market (2nd Floor)
Opposite Asansol Fire Station
G.T. Road, Asansol-713 301

Member Secretary,
West Bengal Pollution Control Board

Annexure – I

Annexure to NOC Sl. NO168852

NOC issued to **M/s Haldia Petrochemicals Ltd** located at P.O & P.S-Durgachak, Dist-Purba
Medinipur, Pin-721602

for installation of proposed pipeline are as follows:

- Benzene(1x12" NB) – HPL facility to HOJ-1 and Extension from Marine office to proposed OT-2 of HDC(1X12")
- Methyl Tertiary-Butyl Ether(MTBE) (1x18" NB) – HPL facility to HOJ-3
- Nitrogen (3x4" NB) – HPL facility to HOJ-1, 2 & 3 (3x4" NB) and Extension from HOJ-2 to proposed OT-2 of HDC(1X4" NB).
- HPG/MS – Extension from HOJ-2 to proposed OT-2 of HDC(1X16" NB)
- Methanol- Extension from Marine office to proposed OT-2 of HDC(1X8" NB)
- Butadiene – Extension from Marine office to proposed OT-2 (2X6" NB).

M. S. Mondal
22/09/21

Environmental Engineer
West Bengal Pollution Control Board

Environmental Engineer
W. B. Pollution Control Board
Operation & Execution Cell

Special Conditions issued to: M/s. Haldia Petrochemicals Ltd. for laying of Pipeline from HPL Facility to the Oil Jetties of Haldia Dock Complex for transportation of different chemicals through new pipeline from existing and proposed jetties.

Emission:-

- I. Process: Nil
- II. DG sets at pump station to be equipped with stacks of appropriate height and to be provided with acoustic enclosures and residential silencer. Stacks to have sampling port, platform and ladder as per the Emission Regulation part -III of CPCB.

A) Effluent:-

- III. Process: Nil
- IV. Domestic (at pump station): to be discharged through septic tank to soak-pit within the unit premises.

B) Solid Waste:-


Process: Nil

At Pump Station:

- I. Municipal Solid Waste to be segregated, collected and disposed off through onsite compost plant regularly as per the Solid Wastes Management Rules, 2016 and Plastic Waste Management & Handling Rules 2016, as proposed.
- II. Hazardous Waste to be collected and disposed of as per the Hazardous Wastes (Handling and Trans-boundary Movement) Rules, 2016.

C) Special Condition:-

1. The surface facilities shall be installed as per the applicable codes and standards, international practices and applicable local regulations.
2. The project authorities shall install SCADA system with dedicated optical fiber based telecommunication link for safe operation of pipeline and Leak Detection System. Additional sectionalizing valves in the residential area and sensitive installations shall be provided to prevent the amount of gas going to the atmosphere in the event of pipeline failure. Intelligent pigging facility shall be provided for the entire pipeline system for internal corrosion monitoring. Coating and impressed current cathodic protection system shall be provided to prevent external corrosion.
3. The design, material of construction, assembly, inspection, testing and safety recommendations of operation and maintenance of pipeline and transporting the natural gas/oil shall be governed by and OISD standard 141. Pipeline wall thickness and minimum depth of burial at river crossing and casings at rails, major road crossings should be in conformity with ANSI/ASME requirements.
4. Annual safety audit should be carried out for the initial three years by an independent agency and report submitted to this State Board for ensuring the strict compliance of safety regulations on operations and maintenance.
5. The project authorities shall patrol and inspect the pipeline regularly for detection of faults as per OISD guidelines and continuous monitoring of pipeline operation by adopting non-destructive method (s) of testing as envisaged in the EMP. Pearson survey and continuous potential survey should be carried out at regular intervals to ensure the adequacy of cathodic protection system.
6. Emergency Response Plan shall be based on the guidelines prepared by OISO, DGMS and Govt. of India. Recommendations mentioned in the Risk Assessment & Consequence Analysis and Disaster Management Plan shall be strictly followed.
7. Project proponent shall comply with the environment protection measures and safeguards recommended in the /risk analysis report/disaster management plan.
8. Occupational health surveillance of the workers shall be carried out as per the prevailing Acts and Rules.
9. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, Safe drinking water, medical health care,


Environmental Engineer
W. B. Pollution Control Board
Operation & Execution Cell

Special Conditions issued to: M/s. Haldia Petrochemicals Ltd. for laying of Pipeline from HPL Facility to the Oil Jetties of Haldia Dock Complex for transportation of different chemicals through new pipeline from existing and proposed jetties.

creche etc. the housing may be in the form of temporary structures to be removed after the completion of the project.

10. Prior approvals from Chief Inspectorate of Factories, Chief Controller of Explosives, Fire Safety Inspectorate etc. must be obtained, wherever applicable.
11. The project authorities must strictly comply with the rules and regulation with regarding to handling and disposal of Hazardous and Other Wastes (Management, Handling and Transboundary Movement) Rules, 2016 wherever applicable. Authorization from the State Pollution Control Board must be obtained for collections / treatment / storage / disposal of hazardous wastes.

E) General Conditions:-

1. The project proponent/authorities must obtain all other approvals from concerned Central/State Govt. agencies including consent to operate from State Pollution Control Board under Air and Water Acts at the time of commissioning.
2. Noise control – Ambient noise level & D.G. set noise level not to exceed the permissible limit. The standards/guidelines for control of noise from stationary D.G. set prescribed under notification of Ministry of Environment & Forest, Govt. of India dated 22.12.1998 namely Environment (Protection) (Second amendment) Rules 1998 to be followed
3. Permission from local authority to be obtained.
4. No equipment or machinery to be installed without prior permission of the State Board.
5. Use of energy efficient construction materials should be ensured. Energy efficient systems should be installed.
6. Ground water should not be abstracted without prior permission of the Local body as well as the Competent Authority as per the West Bengal Ground Water Resources (Management, Control and Regulation) Act, 2005.
7. The proponent shall undertake awareness programs for the local residents to promote water and energy conservation and to ensure environmental protection.
8. The unit is directed to maintain the norms of the State Board with respect to emission and discharge.
9. All other statutory clearances as applicable to be obtained from the competent authority.
10. The unit shall abide by all other condition as mentioned in Coastal Regulation Zone (CRZ) issued vide no. F.No.J-11-52/2020-1A III dated 19.05.2021.
11. This NOC is valid up to 31.08.2028 for laying of Pipeline from HPL Facility to the Oil Jetties of Haldia Dock Complex for transportation of different chemicals through new pipeline from existing and proposed jetties.

Mardi
22/09/21
Environmental Engineer

West Bengal Pollution Control Board

Environmental Engineer
W. B. Pollution Control Board
Operation & Execution Cell



WEST BENGAL POLLUTION CONTROL BOARD

(Department of Environment, Govt. of West Bengal)

Paribesh Bhawan

Bldg. No. 10 A, Block-LA, Sector-III, Bidhan Nagar,

Kolkata – 700 098

Tel : 0091 (033) 2335-9088 / 8861 / 8211 / 8073 / 6731

2335-0261 / 8212 / 8213 / 7428 / 5975

Fax : 0091 (033) 2335 6730 / 2813

Website : www.wbpcb.gov.in, e-mail : [wbpcnet@wbpcb.gov.in](mailto:wbpccnet@wbpcb.gov.in)

Memo No. 173/2S (HW)-294/99-2000 (Pt-I)

Date: 31.12.2021

FORM 2

Grant of Authorization under the provisions of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.

Ref.: Application authorization dated 19.01.2021 for management & handling of Hazardous & Other Waste (Management & Transboundary) Rules, 2016 and its amendment thereafter.

M/s. Haldia Petrochemicals Ltd.

P.O. & P.S.: Durgahak, Dist: Purba Medinipur, Pin: 721602 is hereby granted an authorisation for generation, collection, reception, storage, transport, reuse, recycling, recovery, pre-processing, co-processing, utilisation, treatment, disposal, or any other use of hazardous or other wastes or both on the **P.O. & P.S.: Durgahak, Dist: Purba Medinipur, Pin: 721602.**

Details of Authorisation:

Sl. no.	Category of Hazardous Waste as per the Schedule I, II and III of these rules	Authorised mode of disposal or recycling or utilization or co-processing etc.	Quantity (Ton/year)
1.	1.1	Disposal to CHWTSDF*.	50.0
2.	35.3	Disposal to CHWTSDF/co-processing in cement klins*.	700.0
3.	35.3	Disposal to CHWTSDF*.	300.0
4.	36.2	Disposal to CHWTSDF*.	30.0
5.	37.1	Disposal to CHWTSDF*.	2.0
6.	5.2	Recycling through authorized recycler*.	1200.0
7.	5.1	Recycling through authorized recycler*.	200.0
8.	5.2	Disposal to CHWTSDF*.	250.0
9.	5.2	Disposal to CHWTSDF*.	2.0
10.	33.1	Disposal to CHWTSDF*	2.0
11.	33.2	Disposal to CHWTSDF*.	3.0
12.	35.2	Disposal to CHWTSDF*.	30.0

* For detail refer to Specific Conditions.

[Chief Engineer]

West Bengal Pollution Control Board

Subrata Ghosh

Chief Engineer

West Bengal Pollution Control Board

(Department of Environment, Government of West Bengal)

Details of Authorisation:

Sl. no.	Category of Hazardous Waste as per the Schedule I, II and III of these rules	Authorised mode of disposal or recycling or utilization or co-processing etc.	Quantity (Ton/year)
13.	1.6	Recycling through authorized recycler*/ Dispose to CHWTSDF.*	40.0
14.	1.6	Disposal to CHWTSDF*.	35.0
15.	3.3	Disposal to CHWTSDF*	104.0

* For detail refer to Specific Conditions

- (1) Authorization shall be valid for a period upto **31.12.2025** with effect from the date of issue
- (2) The authorization is subject to the following general and specific conditions.

A. General conditions of authorization:

1. The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
2. The authorisation or its renewal shall be produced for inspection at the request of an officer authorised by the State Pollution Control Board.
3. The person authorised shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorisation.
4. Any unauthorised change in personnel, equipment or working conditions as mentioned in the application by the person authorised shall constitute a breach of his authorisation.
5. The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time;
6. The person authorised shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty"
7. It is the duty of the authorised person to take prior permission of the State Pollution Control Board to close down the facility.
8. The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.
9. The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
10. The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilisation of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorisation.
11. The importer or exporter shall bear the cost of import or export and mitigation of damages if any.
12. An application for the renewal of an authorisation shall be three months before the expiry of such authorisation.
13. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.
14. Annual return shall be filed by June 30th every year for the period ending 31st March of that year.

B. Specific conditions:

1. The unit shall store the hazardous wastes (category wise separately) under shade in an environment friendly safe manner within the premises at designated places and the unit shall not store hazardous waste on site for more than 90 days.
2. Refractory bricks from furnaces/heater (1.1), molecular sieve (1.6), bottom sludge of hydrocarbon storage tank (3.3), waste quenched oil (5.2, quantity-250.0 MTA), polymeric material mixed with hydrocarbon oil (5.2, quantity- 2.0 MTA), contaminated barrels/containers (33.1), contaminated cotton/rags (33.2), spent ion exchange resin (35.2), ETP sludge (35.3), oil impregnated coke (36.2) and sludge from wet scrubber (37.1) shall be sent to CHWTSDF through manifest system.
3. Sludge from surge pond (35.3) shall be sent to cement kiln for co-processing through manifest system. Sending of hazardous wastes for co-processing in cement kilns authorized by respective State Pollution Control Board shall be done as per guidelines for pre-processing and co-processing of hazardous and other wastes in cement plants issued by CPCB from time to time. Otherwise shall be sent to CHWTSDF through manifest system.
4. Sending of hazardous wastes for co-processing in cement kilns authorized by respective State Pollution Control Board shall be done as per guidelines for pre-processing and co-processing of hazardous and other wastes in cement plants issued by CPCB from time to time.
5. Used oil (5.1), waste slop oil (5.2) and spent catalyst (1.6) shall be sold through manifest system (Form 10) to the authorized recyclers having valid authorization of the State Pollution Control Board. During each sale, original Pass-book issued by SPCB to the authorized recyclers shall be endorsed mentioning the quantity and copy of the same shall be kept as record. If not fit for recycling shall be sent to CHWTSDF facility with manifest system.
6. The unit shall submit copies of Form 10 to the State Board on a regular basis.
7. Transport of hazardous and other waste shall be in accordance with the Hazardous & Other Wastes (Management & Transboundary Movement) Rules, 2016, guidelines issued by the Central Pollution Control Board (CPCB) and rules made under the Motor Vehicles Act, 1988. The responsibility of safe transport shall be either of the sender or the receiver whosoever arranges the transport and this responsibility shall be clearly indicated in the Manifest.
8. Records of hazardous waste generation, storage and disposal shall be maintained properly and shall be available to the inspecting officials of the State Board during inspection.
9. The unit shall update regularly the environmental information in Display Boards as per the order of the Hon'ble Supreme Court dated. 14.10.2003 in W.P.(C) NO.657 of 1995.
10. Authorisation will be revoked in case of non-compliances with any of the above conditions.

M/s. Haldia Petrochemicals Ltd.
P.O. & P.S.: Durgahak, Dist: Purba Medinipur,
Pin: 721602


[Chief Engineer]
West Bengal Pollution Control Board
Subrata Ghosh
Chief Engineer
West Bengal Pollution Control Board
(Department of Environment, Government of West Bengal)



पश्चिम बंगाल पश्चिम बंगाल WEST BENGAL

27AB 664568

This Agreement made on the 22nd day of February two thousand Nineteen BETWEEN **Haldia Development Authority**, constituted under the West Bengal Town and Country (Planning and Development) Act, 1979 (hereinafter called the Authority) of the ONE PART and **Haldia Petrochemicals Limited**, a Company within the meaning of Companies Act 2013, having its registered office at Tower 1, Bengal Eco Intelligent Park (Techna), Block EM, Plot No 3, Sector V, Salt Lake, Kolkata 700091, West Bengal, India (herein called the Consumer) of the OTHER PART.

Whereas the Authority had decided to supply clear/filtered water to the consumer for the purpose of Industrial/ Commercial/ Domestic use at Plant, located at Durgachak, Haldia, Dist: Purba Midnapore, West Bengal, Pin: 721602.

AND WHEREAS the consumer had agreed to purchase water from the Authority on the terms and conditions hereinafter appearing;

NOW, THEREFORE, the parties hereto, hereby covenant with each other to observe and perform the following that is say :-

1

A. K. Ghosh
A. K. GHOSH
 Head Plant & Executive Vice President
 Haldia Petrochemicals Ltd.
 Haldia

54218

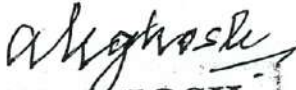
Haldia Petrochemicals Limited
Tower 1

TO..... Bengal Eco Intelligent Park (Techna)
SOLD TO..... Block EM, Plot No. 3
OF..... Sector V, Great Lake
PRO..... Bidhan Nagar
RS..... District: North 24 Parganas
Kolkata-700091
JAYDEEP BHATTARJEE
15, INDIA EXCHANGE PLACE, KOL-1
LICENSED STAMP VENDOR
NO. 351RS2016

29 AUG 2018



- 1) The Authority will supply filtered/cleared water to the consumer 43594 K.L. per day, at his Premises at Haldia Petrochemicals Limited, P.O. Box No : 12, Durgachak, Haldia, Dist : Purba Medinipur, West Bengal, PIN-721602 for Industrial use @ 17.48 (Rupees Seventeen & forty eight paise only) per K.L. and a monthly Meter rent of Rs. 10/- (Rupees ten only) will be charged by the Authority from the consumer.
- 2) Filtered / Clear water will be supplied to underground water reservoir to be constructed by the consumer within his premises. In no circumstances water will be drawn directly by pumping from the service connection;
- 3) Supply will be metered and meter rent @ 10/- (Rupees ten only) per month will be payable by the consumer.
- 4) A suitable water meter will be supplied and installed by the Haldia Development Authority and the same will be maintained by the Authority or its Agency.
- 5) Monthly bills will be raised against consumption of water at the rates mentioned in schedule hereunder for payment within the due date, and a penalty charges @ 1.50 (Rupees one point five zero) per 1000 litres per month or part thereof or at any other rate as may be revised by the Authority from time to time will be charged if the bill is not paid within the due date.
- 6) The Authority shall have the right to revise from time to time the rate of water charges and connection charges mentioned in the schedule as and when considered necessary. The penal rate may also be revised as and when considered necessary.
- 7) If the bill is not paid within 15 days from the due date, the water connection will be liable to be cut off with a prior notice and re-connection charges as given in the schedule will have to be borne by the consumer. The reconnection charges are also subject to revision from time to time.
- 8) If no water is consumed or water consumed is less than 50% of the sanctioned quantity, consumer will have to pay the minimum charge at the rate of 50% of the water charge for the quantity of water sanctioned to him at the rate fixed by the Authority from time to time.
- 9) Maximum 20% in excess of the sanctioned quantity may be drawn. But if the demand exceeds that limits, fresh application is to be given for sanction of additional quantity.
- 10) The Authority assumes no responsibility in case of failure of water supply due to power failures, major breakdown of supply system or any other reason which is beyond control of the Authority.
- 11) If the water meter is out of order or do not function due to any reason during any period, the bill for the said period will be prepared on the basis of average consumption for **three previous bills or other reasonable basis** as may be determined by the Authority and will be binding on consumer.
- 12) One month's advance water charges calculated on the basis of the sanctioned quantity of water at the rate fixed by the authority from time to time is to be paid as **Security Deposit**. In addition, for new connection,


A. K. GHOSH
Head Plant & Executive Vice President
Haldia Petrochemicals Ltd.
Haldia

separate connection charges as mentioned in the schedule fixed by the Authority from time to time is to be deposited before getting connection.

13) The Authority may, at its discretion, revise the terms and conditions regarding supply of water to its consumers, with prior intimation to them.

IN WITNESS WHEREOF the Chief Executive Officer of the Haldia Development Authority for and on behalf of the Authority duly authorised by the Authority to sign these presents on the day, month and the year first above written.

Chief Executive Officer
Haldia Development Authority

(Signed by for and on behalf of the Authority)

Address _____

1. Witness: T. Pradhan
Assistant Engineers (Mechanical)

Address: Haldia Development
Authority, City Centre.

2. Witness: Sukhendu Hazra
Haldia Development Authority
City Centre, Debrug.

Address: Haldia,
Purba Medinipur.

A. K. GHOSH

(Signed by for and on behalf of the Consumer)

Address A. K. GHOSH
Head Plant & Executive Vice President
Haldia Petrochemicals Ltd.
Haldia

1. Witness: S. K. LAHIRI
VP TECHNOLOGY & Q.C.

Address: _____

2. Witness: R. Mandal
R. Mandal (DGH-Unit)

Address: _____



Site Pictures:



Discharge of treated effluent outside plant through pipeline without mixing into storm water



Hazardous chemicals storage in spheres & tanks



Fly ash storage silo



120 m Flare Stack



Greenbelt



Biodiversity inside plant



Fire fighting facility



24x7 Emergency Management Control Room (EMCR)



Environment Laboratory



Analysis in Environment Laboratory

+



Online Effluent Analyser



Online Flue Gas Monitoring System at CFB Stack



Online AAQMS



Air Quality Monitoring



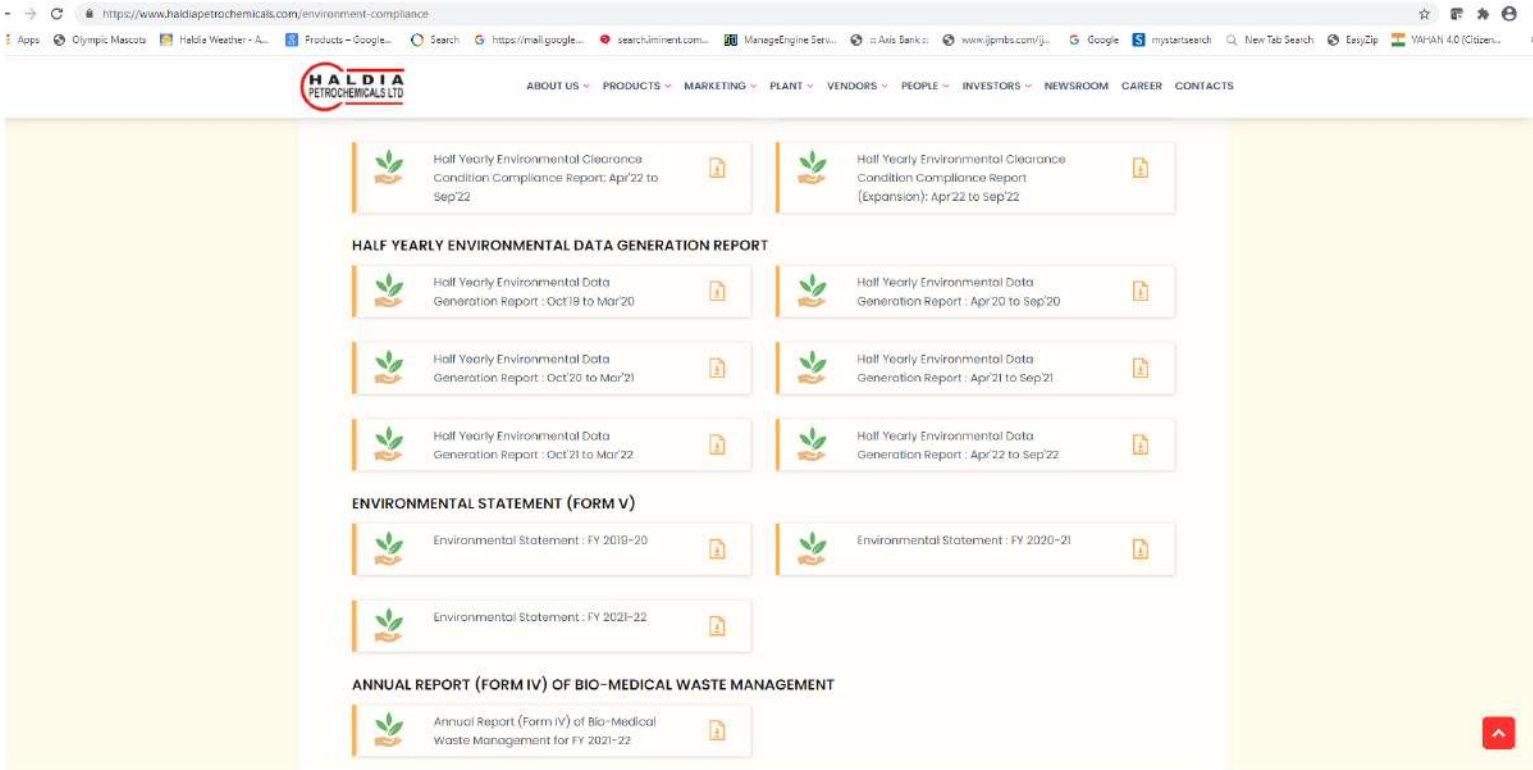
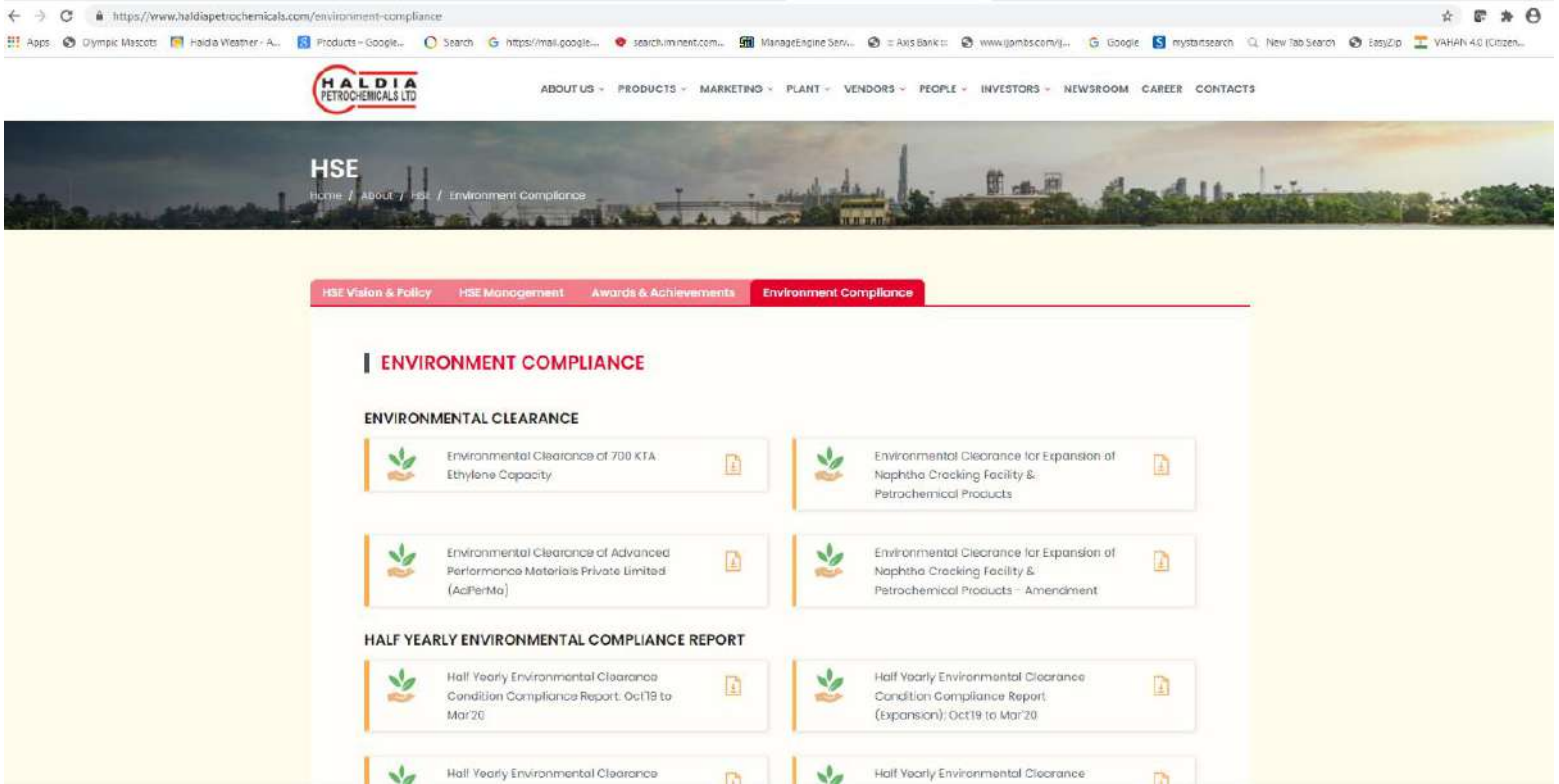
01 MWp Solar Power Plant at residential township



Rainwater Harvesting from East Pond



Rooftop Rainwater Harvesting at Main Fire Station



Uploaded Half Yearly Compliance report in Company Website



Regd. Office :
Tower 1, Bengal Eco Intelligent Park (Techna)
Block EM, Plot No. 3,
Sector V, Salt Lake,
P.O. : Bidhan Nagar, District : North 24 Parganas
Kolkata 700091
Tel. : 71122334/71122445
Website : www.haldia Petrochemicals.com
CIN : U24100WB2015PLC205383

Vendor Code
1116097
Company
West Bengal Waste Management Ltd
CHW.TSDF : JL No: 103,
Mouza SriKrishnapur,
P.O. : Sutahata,
Purba Medinipur
West Bengal
India
Pin : 721635
Phone: 033-3097-4850

Kind Attention
Gourav Saha
Your quotation/Dated
E-MAIL/22.10.2020

Change to Contract

Contract Number/Date
4008575 / November 11, 2020
Purchasing Group
Services&works con
Amendmentno/Date: 2/01.12.2022

Officer-in-Charge for this job
Avik Haldar

Contract Start Date: November 12, 2020
Contract End Date : November 11, 2023

Target value 25,303,510.00 INR

Subject: Amendment of Rate Contract for Disposal of Hazardous Waste Between Haldia Petrochemicals Ltd. and West Bengal Waste Management Limited

Reference :

- Our Extension Request Ref. : E-Mail dated 25.07.2022
- Several Communication made between M/s.WBVML and M/s. HPL
- Your Final Acceptance Ref. : E-Mail dated 18.08.2022

Dear Sir,

With reference to above and subsequent discussion we had with you, we are pleased to amend the above contract as mentioned below.

Contract validity period extended upto 11.11.2023

Contract value amended from Rs. 1,68,69,510.00 to Rs. 2,53,03,510.00

Save and except the amendment as stated aforesaid, all other terms and

Contract Number/Date

4008575 / November 11, 2020

conditions of the original Rate Contract remain unaltered.

Term/Renewal : Notwithstanding anything contained elsewhere in the contract, the present contract is made exclusively for the specified term/period as agreed and described in the contract document. Its renewal, if any, shall always be subject to mutual discussions and agreements between the parties and such renewal shall not be construed as continuation of the same contract, rather such renewal shall create a separate and independent contract for a specified period. The contractor has agreed that such renewal of contract does not confer any legal right upon the Contractor to get the contract renewed further in future. It shall be at the sole discretion of the HPL to enter into future contracts with any party that may be deemed fit as per its prevailing policies, in which case the Contractor shall not be in a position to claim any preferential rights.

Note : Arrangement of food stuffs, beverages and any other item to be served to the workers shall be provided under the arrangement of the bidder.

Kindly acknowledge receipt of this amendment and send us back one copy duly signed by you on each page with your official stamp as a token of your acceptance within 7 days of receipt of this contract amendment.

Please note that contract amendment acceptance shall be treated as pre-requisite for processing any payment against this contract.

Thanking you,

For HALDIA PETROCHEMICALS LIMITED

Animesh Chattopadhyay
Chief GM - Materials

CSR Projects Executed List

Sl. No.	Name of Scheme	Name of Organisation	Estimated Cost (Rs. in Lakhs)	CSR Year
1	Science Lab in School	Hatiberia High School	4.50	2022-23
2	Science Lab in School	Manoharpur High School	5.50	2022-23
3	Charitable Health Check Up Facility with Dispensary	Dwariberia Progressive Medical Practitioners Welfare Association	21.50	2022-23
4	Furniture and Equipment for School and Health Services	Deulpota Seva Samity	5.22	2022-23
5	School Furniture and Electrical Fittings	Debhog Purba Primary School	1.00	2022-23
6	Medical/ Surgical Equipment i) 25 Fowler Beds, 1 Hydraulic Operation Table & 2 Wheel chairs ii) 2 Drawer Drug Trolley – 1 no.	Haldia Sub Divisional Hospital, Durgachak , Haldia	6.05	2022-23
7	1st Floor Hall with Staircase for Extra Curricular Classes and Seminars	Haldia Punarbasan Vidyaniketan H S	7.00	2022-23
8	Completion of plastering, flooring and electrical work at ground and 1st floor for free residential accommodation to needy students studying Mahisadal College	Bipanna Bandhu, Mahishadal	6.50	2022-23
9	Renovation of the existing Pre-primary School building from lintel level upwards	Doro Sovarampur Maktab Primary School	12.00	2022-23
10	Contribution of Computers , Printers etc for a Computer Training Centre	Bhuniakhali Gram Bikash Kendra	3.28	2022-23
11	Medical equipment : i) Special type of refrigerator for storage of blood ii) Auto Analyzer for blood testing of Thalassaemia patients	Haldia Ramkrishna Seba Sadan for Thalassaemia Care, Chaitanyapur	6.00	2022-23
			78.55	

By Speed Post/Online

**F.No.J-11011/194/2016- IA II(I)
Government of India
Ministry of Environment, Forest and Climate
Change
(IA-II Section)**

Indira Paryavaran Bhawan
Jorbagh Road, New Delhi - 110003

Dated: 27th August, 2020

To

M/s Advanced Performance Materials Private Limited

(Wholly owned subsidiary of M/s Haldia Petrochemicals Ltd.)

Tehsil Sutahata -I, Haldia

District East Medinipur

West Bengal - 721 602

E.Mail: rabin.mukhopadhyay@adperma.co.in

Sub: Expansion of Naphtha cracking facility and Petrochemical products at Tehsil Sutahata -I, Haldia, District East Medinipur, West Bengal- Amendment/Bifurcation of Environmental Clearance between M/s Haldia Petrochemicals Limited & M/s Advanced Performance Materials Private Limited- reg.

Sir,

This has reference to the proposal No. IA/WB/IND2/67219/2016 dated 17th April, 2019 for amendment/bifurcation and proposal No. IA/WB/IND2/138269/2020 dated 13th March, 2020 for transfer (split) of the environmental clearance dated 20th March, 2018 between M/s Haldia Petrochemicals Limited (HPL) to M/s Advanced Performance Materials Private Limited (AdPerMa), wholly owned subsidiary of HPL, without change of ownership.

2. The Ministry vide letter dated 20th March 2018 has granted environmental clearance to the project for expansion of Naphtha cracking facility and



petrochemical products at Tehsil Sutahata -I, Haldia District, East Medinipur, West Bengal in favour of M/s Haldia Petrochemicals Limited (HPL).

3. Now, amendment/bifurcation/transfer of the said environmental clearance has been sought due to the business transfer agreement between M/s Haldia Petrochemicals Limited (HPL) and M/s Advanced Performance Materials Private Limited (AdPerMa). It was informed that M/s HPL has incorporated a wholly owned subsidiary in the name of M/s Advanced Performance Materials Private Limited (AdPerMa) in July 2017 to explore new opportunities downstream of HPL, which will help to de-risk HPL's cash flows by driving business in performance chemicals with flexibility to venture with technology partner and/or other value added partners. Butene -1 Project will be the initial project that will be transferred to AdPerMa and HPL has no objection in transferring applicable part of the EC to AdPerMa for Butene -1 plant along with associated infrastructure like storage and pipelines. The changes in EC would include the following:

Description	Existing Conditions		Bifurcation of products and infrastructure			
	Name of Product	KTA	Name of Product	KTA	Name of Product	KTA
Products as per EC 20/03/2018						
1.	Ethylene	770	Ethylene	770	-	-
2.	Propylene	385	Propylene	385	-	-
3.	Polypropylene	341	Polypropylene	341	-	-
4.	High Density Poly Ethylene (HDPE)	494	High Density Poly Ethylene (HDPE)	494	-	-
5.	Linear Low Density Poly Ethylene (LLDPE)	386	Linear Low Density Poly Ethylene (LLDPE)	386	-	-
6.	Butadiene	111	Butadiene	111	-	-
7.	Benzene	175	Benzene	175	-	-
8.	Butene-1	30.2			Butene-1*	30.2
9.	MTBE	98.6			MTBE*	98.6
10.	C4 Raffinate	-	C4 Raffinate	126 ^{Note-1}		

By →

11.	Vinyl Acetate Ethylene (VAE)	60	Vinyl Acetate Ethylene (VAE)	60	-	-
12.	Mixed Butane	126 ^{Note -2}	Mixed Butane	126 ^{Note -2}	-	-
13.	Cyclo Pentane	8.2	Cyclo Pentane	8.2	-	-
14.	Pyrolysis Gasoline	200	Pyrolysis Gasoline	200	-	-
15.	Motor Spirit (MS) Euro IV	300	Motor Spirit (MS) Euro IV	300	-	-
16.	Phenol	200	Phenol	200	-	-
17.	Acetone	123	Acetone	123	-	-
18.	Carbon Black Feedstock (CBFS)	100	Carbon Black Feedstock (CBFS)	100	-	-
19.	Poly Butylene Terephthalate (PBT)	70	Poly Butylene Terephthalate (PBT)	70	-	-
20.	Tetrahydrofuran (THF)	16	Tetrahydrofuran (THF)	16	-	-
21.	C6 Raffinate	64	C6 Raffinate	64	-	-
Additional Hazardous Chemical Storage Tank	Name Product (No. of tanks)	Total Storage Quantity (MT)	Name Product (No. of tanks)	Total Storage Quantity (MT)	Name Product (No. of tanks)	Total Storage Quantity (MT)
1.	Naphtha (1)	28,632	Naphtha (1)	28,632	-	-
2.	Motor Spirit (1)	3,080	Motor Spirit (1)	3,080	-	-
3.	Hydrogenated Py-Gas (1)	3,560	Hydrogenated Py-Gas (1)	3,560	-	-
4.	MS Blending Tank (1)	932	MS Blending Tank (1)	932	-	-
5.	Butadiene (1)	1,271	Butadiene (1)	1,271	-	-
6.	Fuel Grade Naphtha (1)	9,380	Fuel Grade Naphtha (1)	9,380	-	-
7.	LPG (1)	10,000	LPG (1)	10,000	-	-
8.	Methanol (2)	7,128			Methanol (2)	7,128

3/2016

9.	MTBE (2)	7,400			MTBE (2)	7,400
10.	MTBE (1)	2,072			MTBE (1)	2,072
11.	Phenol (3)	16,050	Phenol (3)	16,050	-	-
12.	Acetone (2)	7,910	Acetone (2)	7,910	-	-
13.	Butanediol (2)	6,324	Butanediol (2)	6,324	-	-
14.	THF (2)	3,556	THF (2)	3,556	-	-
15.	VAM (2)	10,274	VAM (2)	10,274	-	-
16.	VAE (2)	7,520	VAE (2)	7,520	-	-
17.	NaOH 50% (Caustic Soda) (2)	795	NaOH 50% (Caustic Soda) (2)	795	-	-
18.	H ₂ SO ₄ 98% (1)	478	H ₂ SO ₄ 98% (1)	478	-	-
Land (ha)	453.00		451.48		1.519	
Manpower (Permanent)	40-50		40-50		5 (additional shall be sourced)	
Manpower (Contractual)	100-150		100-150			
Power (MW)	19		18.24		0.76	
Steam (TPH)	172.25		148.55		23.7	
Power and Steam Source	Additional 1X35 MW CSTG and 3X120 TPH Coal Fired Boiler in existing Captive Power Plant		Additional 1X35 MW CSTG and 3X120 TPH Coal Fired Boiler in existing Captive Power Plant		Sourced from HPL	
Water (MGD)	10 (Sourced from Geonkhali Water Supply System)		9.842 (Sourced from Geonkhali Water Supply System)		0.158 (Sourced from HPL)	
Effluent (m ³ /day)	1000 (Effluent discharged will be treated in Integrated Wastewater Treatment Plant of HPL)		937.6 (Effluent discharged will be treated in Integrated Wastewater Treatment Plant of HPL)		62.4 (Effluent discharged will be treated in Integrated Wastewater Treatment Plant of HPL)	
Catalysts MT/3-5 years	150 (To be handled by HPL)		104.32 (To be handled by HPL)		45.68 (To be handled by	

Syml

(Hazardous waste)			AdPerMa and finally disposed by HPL)
Project Cost in Crores (INR)	4310	4064	246
<p><i>Note-1:</i> In EC approved by MoEFCC on 20th Mar 2018, C4 Raffinate from Naphtha Cracker Associated Unit was considered transferred as feedstock to Butene-1 plant to produce Butene-1 and MTBE. Accordingly, C4 Raffinate was not shown in the product slate of HPL. After proposed bifurcation of EC, HPL would produce and transfer C4 Raffinate to AdPerMa as feedstock to Butene-1 plant. Thus, HPL's product slate shall include C4 Raffinate as product.</p> <p><i>Note-2:</i> Maximum production in case Butene-1 plant is non-operational. Normal production would be 33 kTA.</p>			

4. The proposal for amendment/bifurcation was considered by the Expert Appraisal Committee (Industry-2) in its meetings held during 30-31 May, 2019, 28-29 August, 2019 and 20-22 November, 2019. Subsequent to submission of the proposal for transfer of environmental clearance by the project proponent, the proposal has been referred to the Committee. The proposal was considered by the EAC in its meeting held on 17th July, 2020.

M/s HPL has informed that M/s Advanced Performance Materials Private Limited (AdPerMa) is its wholly owned subsidiary and M/s HPL shall be responsible for all the environmental safeguards and compliance of the EC conditions. M/s AdPerMa shall be responsible for the production of Butene-1 & MTBE and subsequent process and marketing.

The Committee after detailed deliberations, is of the considered view that the Ministry may take a view on the applicability of the proposal in its present form, however, taking cognizance of submission of M/s HPL that they shall be responsible for all the environmental safeguards and compliance of the EC conditions, has recommended that M/s AdPerMa may be allowed to carry out production of Butene-1 and MTBE with all its associated facilities.

5. Based on recommendations of the EAC, the Ministry of Environment, Forest and Climate Change hereby accords approval to the amendment/bifurcation of the environmental clearance dated 20th March, 2018, to allow M/s AdPerMa to carry out production of Butene-1 and MTBE with all its associated facilities, with additional terms and conditions as under:-

- i. M/s AdPerMa and M/s HPL shall comply with all the terms and conditions stipulated in the environmental clearance dated 20th March, 2018. As

Signature

committed, M/s HPL shall be responsible for the environmental safeguards and overall compliance of the conditions in the said EC.

6. This issues with approval of the competent authority.

Ashok Kr. Pateshwary
27/08/2020

(Ashok Kr. Pateshwary)
Director
Tel.No. 24695290

Copy to:-

1. The Deputy DGF (C), MoEF&CC Regional Office (EZ), A/3, Chandrasekharpur, Bhubaneswar - 23 (Odisha).
2. The Secretary, Department of Environment, Government of West Bengal, Pura Bhawan, 4th Floor, FD-415/A, Sector-III, Bidhannagar, Kolkata - 106 (WB).
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi – 32.
4. The Member Secretary, West Bengal Pollution Control Board, Paribesh Bhawan, 10A, Block-L.A., Sector 3, Salt Lake City, Kolkata – 98 (WB).
5. M/s Haldia Petrochemicals Limited, Tehsil Sutahata –I, Haldia, District East Medinipur, West Bengal – 721602.
6. Guard File/Monitoring File/Website/Record File.

Environmental Expenditure details (actual) during Oct'22 to March'23 is given below:

1.Environmental Monitoring Cost [Rate Contract for Environmental & Process Monitoring Job at HPL Complex]	:	Rs. 36.5 lacs
2. Greening Drive Activities [Green Belt Development & Upkeepment Cost Beautification (Horticultural) Work (inside plant)]	:	Rs. 34.27 lacs
3. Statutory Fees & Insurance Expenses [Analysis charges of WBPCB]	:	Rs. 0.41 lacs
4. Hazardous Wastes Disposal Expenses	:	Rs. 33.46 lacs
5. Operational, Maintenance & Installation Cost of Environment protection system:		
5.1 Operational cost of WWTP	:	Rs. 247.56 lacs
5.2 Operational cost of Flare Stack Emission System	:	Rs. 1274.96 lacs
5.3 Operation cost of Benzene Recovery Unit	:	Rs. 0.50 lacs
5.4 CMC for the Hydrocarbon Analyser, AAQMS	:	Rs. 8.01 lacs
5.5 AMC for the Online Effluent & Stack Analysers	:	Rs. 9.55 lacs
6. Training/Workshop/Seminar/Subscription	:	Rs. 0.18 lcs
		<hr/>
		Total Rs. 1645.0 lacs

All above-mentioned measures are considered for the abatement of pollution at HPL Complex.



(Formerly known as Bengal Cracker Complex Limited)

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

May 29, 2018

The Chairman,
Haldia Municipality,
Dr. B. R. Ambedkar Bhawan,
Administrative Building, City Centre
P.O. Debhog, Haldia
Purba Medinipur
West Bengal



Sub: Environmental Clearance of Haldia Petrochemicals Limited for Expansion of Naphtha cracking facility and Petrochemical products

Dear Sir,

Enclosed please find herewith the photocopy of our Environmental Clearance (EC) towards 'Expansion of Naphtha cracking facility and Petrochemical products' received from Ministry of Environment, Forest & Climate Change, Govt. of India, New Delhi vide letter no. F.No. J-11011/194/2016-IA-II(I) dated 20.03.18 for your reference and perusal please.

The EC copy is being submitted to you in accordance with the other General Condition No. 11.1(xiii) of the said EC.

Trust you will find the above in order.

Thanking you,

Yours very truly,


Ashok Kumar Ghosh
Executive Vice President & Head-Plant

Encl: as above



(Formerly known as Bengal Cracker Complex Limited)

Plant : → o/c
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

May 29, 2018

Chief Executive Officer

Haldia Development Authority,
Haldia Unnayan Bhawan,
City Centre, P.O. Debhog, Haldia,
Dist: Purba Medinipur,
PIN - 721657
West Bengal

Sub: Environmental Clearance of Haldia Petrochemicals Limited for Expansion of Naphtha cracking facility and Petrochemical products

Dear Sir,

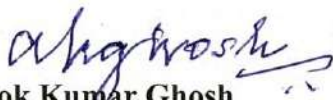
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The EC copy is being submitted to you in accordance with the other General Condition No. 11.1(xiii) of the said EC.

Trust you will find the above in order.

Thanking you,

Yours very truly,


Ashok Kumar Ghosh
Executive Vice President & Head-Plant

Encl: as above





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-04/WBPCB

September 09, 2022

The Chief Engineer- O&E Cell
 West Bengal Pollution Control Board,
 Paribesh Bhawan,
 10A, Block – LA, Sector-III,
 Kolkata – 700 098



Sub : Submission of Environmental Statement for the Financial Year 2021-22

Dear Sir,

We are pleased to submit the Environmental Statement of our plant for the financial year 2021-22 ending 31st March, 2022 in Form – V, duly filled up along with all necessary enclosures, as per the provision of Rule 14 of The Environment (Protection) Rules, 1986 and amendments for your kind perusal. The same has been submitted in the online portal <https://wbocmms.nic.in/> of WBPCB also.

One CD comprising of the above Environmental Statement is also enclosed for your reference.

Thanking you,

Yours very truly,

Abhijit Basu
Chief General Manager - HSEF & PSM

Encl.: As above

CC: Asst. Environment Engineer, & In – Charge,
 Haldia Regional Office,
 West Bengal Pollution Control Board
 Haldia



**HALDIA
PETROCHEMICALS LTD**

হলদিয়া পেট্রোকেমিক্যালস লিমিটেড

রেজিস্টার্ড অফিসঃ বেঙ্গল ইকো ইন্টেলিজেন্স পার্ক, টাওয়ার-১,
ব্লক-ইএম, প্লট-৩, সল্ট লেক সিটি, সেক্টর-ফাইভ, ৩য় এবং ১৫
তম তল, কলকাতা-৭০০ ০৯১

জনসূচনা

এতদ্বারা জনসাধারণকে অবগত করা হচ্ছে যে ভারত সরকারের পরিবেশ, বন এবং জলবায়ু মন্ত্রক হলদিয়া পেট্রোকেমিক্যালস লিমিটেডকে পত্র নং F. No. J-11011/194/2016-IA-II(I) তারিখ ২০শে মার্চ ২০১৮ দ্বারা সংস্থার ন্যাপথা ক্র্যাকিঙ ফেসিলিটি এবং পেট্রোকেমিক্যালস পণ্যের সম্প্রসারণ করার জন্যে পরিবেশগত ছাড়পত্র প্রদান করেছে।

উক্ত ছাড়পত্রটির প্রতিলিপি পশ্চিমবঙ্গ রাজ্য দূষণ নিয়ন্ত্রণ পর্ষদ / কমিটির নিকট উপলব্ধ করা আছে। এছাড়াও পরিবেশ, বন এবং জলবায়ু মন্ত্রকের ওয়েবসাইট <http://moef.nic.in>-এ এটি দৃশ্যমান থাকবে।

স্থানঃ কলকাতা
দিনাঙ্কঃ ১৬.০৪.১৮

হলদিয়া পেট্রোকেমিক্যালস লিমিটেডের পক্ষে,
অশোক কুমার ঘোষ
এক্সিকিউটিভ ভাইস প্রেসিডেন্ট এন্ড হেড প্লান্ট

HALDIA PETROCHEMICALS LTD	Haldia Petrochemicals Ltd. Registered Office: Bengal Eco Intelligence Park, Tower-1, Block-EM, Plot 3, Salt Lake City, Sector-V, 3rd & 15th Floor, Kolkata-700 091
PUBLIC NOTIFICATION	
It is hereby notified that the Ministry of Environment, Forest & Climate Change (MoEF&CC), Govt. of India, has accorded Environmental Clearance to Haldia Petrochemicals Limited for Expansion of Naphtha Cracking Facility and Petrochemical Products vide MoEF&CC's Letter No. F. No. J-11011/104/2016-IA-II(I) dated 20th March, 2018.	
The copies of the Clearance Letter are available with the State Pollution Control Board/Committee and may also be seen at Website of the Ministry at http://moef.nic.in .	
Place: Kolkata Date: 13.04.18	For Haldia Petrochemicals Limited, Ashok Kumar Ghosh Executive Vice President & Head-Plant

W.B.Govt. Tender
Abridged e-N.I.T No.:- WBIW/SE/MBC/NIT-01(e)/18-19
Rehabilitation and Improvement of Distressed Dauk Barrage in Block & P.S.-Chopra, Dist- Uttar Dinajpur (Reach-I: Rehabilitation of D/S Floor & Protection of Katchna (2 nd call)). Est.Cost- Rs. 38.32 Cr
Bid submission last date & time 07.05.2018 at 15.00 hrs. For further details of N.I.T. please visit e-tendering direct website http://wbtenders.gov.in and departmental website www.wbiwd.gov.in
Sd/- K. Bhoumik Superintending Engineer, Mahananda Barrage Circle Use for all official communication: se-mahabrgcir@wbiwd.gov.in