

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

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

June 01, 2021

Shri Subrat Mohapatra
Deputy Director General of Forests (C),
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'20 to March'21.

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

- B. Half Yearly Environmental Data Generation Report (October 2020 to March 2021)

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,

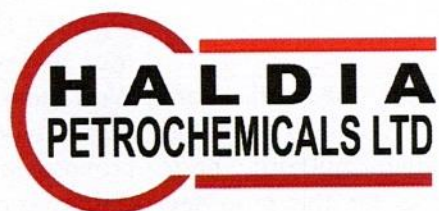
Yours very truly,

Ashok Kumar Ghosh
Head – Plant & Executive Vice President

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**



PERIOD: October 2020 to March 2021

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

Name of the Project: Expansion of Naphtha cracking facility and Petrochemical products Clearance Letter No.: F. No. J-11011/194/2016-IA-11(1) dated 20.03.2018 Period of Compliance Report: October'20 to March'21		
Specific Conditions:		
Sr. No.	Conditions	Compliance Status
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.	Consent to Establish (NOC) was obtained from WBPCB vide NOC NO153414 dated 29.11.18 & 10.07.18 and 29.06.18 (Ref. Annexure-1). Consent to Operate was obtained from WBPCB vide Memo NO: 215-403/WPB (HRO)-K/2001 (Pt-VI) dated 14.08.19 and 06.03.19 (Ref. Annexure-2).
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.	West Bengal State Coastal Zone Management Authority(WBSCZMA) recommended the proposal for laying of pipeline from HPL to Haldia Oil Jetties of Haldia Dock Complex on 03.11.2020 (Ref: Annexure-3) and subsequently applied on 15.12.2020 for clearance of MoEF&CC. Subsequently, three nos. of EAC-CRZ Appraisal Meetings were conducted respectively on 29.12.2020, 12.02.2021 & 19.03.2021. The proposal was considered by EAC-CRZ of MoEF&CC and recommended for the CRZ Clearance.
iii	The effluent of 8625 cum/day shall only be discharged into river/creek through green belt 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.	Total 4553 KL/day of the treated effluent discharged into green belt canal during October'20 to March'21 HPL is monitoring the quality of the effluent discharged outside premises and it is well within the prescribed standard.
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.	The Authorisation of Handling and Management of Hazardous Waste vide Memo No 59/2S(HW)-294/99-2000 (Pt-I) got expired on 31.12.2020 after five years. Application for Renewal of Authorization was applied online to WBPCB on 27.11.2021. The same is under process at WBPCB end at present. Long term contract with the WBWML exists for the final disposal of Hazardous Wastes (Annexure - 4)
v	Environmental Standards for Petroleum Oil Refinery dated	Since HPL complex does not have petroleum oil refinery,

	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.	Environmental Standards for Petroleum Oil Refinery dated 18 th March 2008 may not be applicable for us. However, Environmental Standards for Petrochemical (Basic & Intermediates) dated on 09 th November, 2012 will be adhered with full compliance.
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 filters 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 devices would be installed to meet the prescribed norms and/or NAAQS. Multi-cyclone followed by bag filter & ESP shall be provided to the CFBC boiler to be operated with appropriate proportion of imported and domestic coal only to control particulate emissions within permissible limit. The lime stone dosing system will also be in place 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 proposed to disperse the gaseous emissions as per CPCB/SPCB guidelines.
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 (9.5 MGD) water (Ref. Annexure-5). Total 7.4 MGD water was consumed during October'20 to March'21. HPL will ensure that total water consumption does not exceed 10 MGD.
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 condition of passing storm water drain through guard pond. 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 our Green Belt Canal (GBC). Hydrocarbon handling & storage areas in the Plant have been provided with dyke walls with two valve drain pits as per standard

		<p>engineering practices. Storm water accumulated from within the dyke walls can be sent to WWTP through the underground 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 19 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>
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 will be stored in properly designed tanks, drums, carboys etc.</p> <p>Necessary fire water spray system/hydrant/monitors/foam chambers has been provided in the tank farm.</p> <p>Solvent will be transferred through pump only.</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 TSD. The ash from boiler shall be sold to brick manufacturers/cement industry.</p>	<p>Presently, biosludge from WWTP are incinerated in our captive incinerator and the oil impregnated coke & incinerator ash is sent to TSD. The ash from the proposed boilers would be sold to cement industry/ brick manufacturers.</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</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</p>

	as per the Motor Vehicle Act (MVA), 1989.	(inbound/outbound) will be directly unloaded from ship/tank or sphere through u/g pipelines. The road transportation of few hazardous chemicals/catalyst will be in accordance with the Motor Vehicles Act (MVA), 1989.
xii	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.	The construction of the project of coal based captive power was started. Proper storage and disposal facility would be provided as per CPCB guideline for fly ash generated from the proposed coal based power plant. Adequate precaution would be adopted to minimize the exposure of fly ash/dust with the workers.
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>(d) Use of close feed system into batch reactors.</p> <p>(e) Venting equipment through vapour recovery system.</p> <p>Use of high pressure hoses for equipment clearing to reduce wastewater generation.</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>(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>
xiv	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	The plant is surrounded by a vast greenbelt (103 ha) of width 50-100 m. The proposed projects would come up in the land which is available within the plant boundary. Additional green belt will be developed in phases based on the actual completion of the projects along the plant periphery with the desired species as per the existing guidelines of MoEF&CC/CPCB/ State Forest Department. Plantation of 10,132 nos. of saplings was completed at the east side of greenbelt as on 31.03.2021. Presently almost 1.20 lacs of tress are present inside greenbelt surrounding HPL.

xv	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.	<ul style="list-style-type: none"> • A Solar Power Project (1 MWp) is being implemented in our residential colony (HREL) through Capex model. • For Capex Model – capital expenditure has been estimated to the tune of Rs.5 Crore with payback period of 5.5 years and Project IRR of around 18%. • Necessary Statutory Approvals from WBSEDCL & WBREDA were obtained. <p>Implementation Status as on March, 2021:</p> <ol style="list-style-type: none"> 1. LSTK Contract to M/s LNB Renewables Pvt. Ltd. Hyderabad was awarded in Dec 2020. 2. Site grading works was completed in Jan 2021. 3. Detailed Engineering commenced in Jan 2021 and continued till March 2021 and is expected to complete by End May 2021.
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.	Existing unit has one emergency DG set of 1500 KVA capacity and no additional DG sets are proposed.
xvii	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.	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.
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 would be installed in the proposed stack of the coal based boilers in the Captive Power Plant. 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.
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 787 nos. of contractual employees from October'20 to March'21 as per the Factories Act. The records are maintained in our Occupational Health Center (OHC).

General Conditions:

Sr. No.	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
ii	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate 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>We applied for bifurcation/amendment of EC for transferring of Butene-1 plant along with storage and associated pipelines from HPL to Advanced 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 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>Annexure-6A and 6B</p>
iii	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.	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.
iv	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.	HPL has been measuring all the parameters of ambient air as per the National Ambient Air Quality Standards.
v	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).	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.

vi	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.	Roof top rain water harvesting in 7 nos. of office buildings, control room and sub-stations were already implemented, the accumulated rainwater is stored in North Pond/Fire Pond. 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 82668 KL rainwater during October'20 to March'21
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.
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.
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. Response against Condition 11 (XV)
x	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	Ref. Response against Condition 11 (XV)
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.
xii	The company shall earmark sufficient funds	Total Rs. 148.93 lacs incurred in Oct'20 to March'21 towards implementation of Solar

	<p>towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.</p>	<p>Power Project (1 MWp) in our residential colony (HREL). The budgeted funds for environmental activities will be solely utilized for meeting and implementing the conditions stipulated by MoEF&CC/WBPCB. These funds will not be diverted to any other job or activities.</p>
xiii	<p>A copy of the clearance letter shall be sent by the project proponent to concerned 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.</p>	<p>The copy of the Environmental Clearance letter was sent to Haldia Municipality as well as Haldia Development Authority. (Ref. Annexure-7).</p>
xiv	<p>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.</p>	<p>Six monthly compliance reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data will be sent by email to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB and the same will also be uploaded in the website of HPL.</p>
xv	<p>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.</p>	<p>The Environmental Statement in Form-V was submitted to WBPCB on 16.09.2020. Updated Environment Statement and Environmental Compliance Report was uploaded on the company website.</p>
xvi	<p>The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen</p>	<p>Advertisement published in two local newspapers in English (The Telegraph) and in Bengali (AnandabazarPatrika) on 13.04.2018. A copy of the said advertisement is attached herewith for your perusal (Ref. Annexure-8).</p>

	<p>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 shall be forwarded to the concerned regional office of the Ministry.</p>	
xvii	<p>The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project</p>	<p>The projects are being implemented phase-wise. 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. HPL will continue to update Regional Office about the financial closure and approval of other projects.</p>


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

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. **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/Board/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 equipment

NOC NO153414

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-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

Memo No. 857-2N-58/2006(E) dtd. 29.05.2018

Dated.....

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

VIII, 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

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)

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 / 25.10.2018

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

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 : wbpcbnet@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:-

SI No. 02- Mixed Butane - 13.0 KTA /Month in place of Mixed Butene -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 :CO113738.....

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

(2)

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	90.6 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	
		Phexide	" 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.....

(4)

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					Frequency of emission sampling
					SPM (mg/Nm ³)	CO (%v/v)	SO ₂ (Mg/Nm ³)	NO _x (mg/Nm ³)	at 3% O ₂ Correction	
S-1	40.0 m	RFG 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 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	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 10 p.m.)	65
Night Time (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 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 -- 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

Handwritten signature and date: 08/09/19

Annexure - i

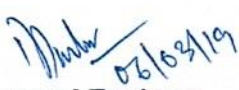
Consent No.CO113738

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

WEST BENGAL STATE COASTAL ZONE MANAGEMENT AUTHORITY

Pranisampad Bhaban, 5th Floor, LB 2

Sector - III, Salt Lake, Kolkata - 700 106

Phone No : 033 2335 5246

Fax No. 033 2335 0271

E mail - environmentwb@gmail.com

Website : www.environmentwb.gov.in

No. 1436/EN/T-II-4/01/2019

Date : 03.11.2020

To The Secretary
Ministry of Environment, Forests and Climate Change
Government of India
Indira Paryavaran Bhawan
Jorbagh Road, New Delhi - 110 003

SUB. : Recommendation from CRZ angle in connection with "Laying of pipelines at the Haldia Dock Complex by Haldia Petrochemicals Ltd"

Sir,

This is to inform you that the Haldia Petrochemicals Limited (HPL) has submitted an application to the West Bengal State Coastal Zone Management Authority (WBSCZMA) seeking CRZ clearance for **Laying of Pipelines** at Haldia Dock Complex (HDC) between HPL and HDC (Haldia Oil Jetty (HOJ)-1, 2 & 3 and the under-construction Outer Terminal (OT)-2) as per the current/ existing Coastal Regulatory Zone Notification.

The salient features of the project, for which CRZ clearance has been considered, are as follows:

1.	Location	HPL facility is located on the western bank of Hooghly River at Haldia, Purba Medinipur district, West Bengal
2.	Survey of India Toposheet No	FK45K4, F45J16 and F45P13
3.	Geo-coordinates	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 (OT-2)
4.	Accessibility	Approx. 125 km south-west of Kolkata, it can be accessed through NH-6 upto Kolaghat and then through NH-41, which runs approximately 4.22 km north-west from the project site; Silpaprabesh station (part of South-Eastern Railway Division) is within 1 km of the facility; On the waterfront, through Haldia Dock Complex on the Hooghly River.

Cont.....

5. Background	<p>Haldia Dock Complex (HDC), an integral part of Kolkata Port Trust (KPT), is one of the twelve major ports in the country;</p> <p>HDC comprises three riverine jetties (HOJ-1, 2 & 3), 14 berths and 2 riverine barge jetties;</p> <p>Construction of another jetty, OT-2, is underway by KPT;</p> <p>Major user agencies of HDC are Indian Oil Corporation Ltd., Hindustan Petroleum Corporation Ltd., Bharat Petroleum Corporation Ltd., Indian Oil, Indian Oil Petronas Private Limited, Haldia Petrochemicals Ltd., MCPPI Private Ltd., Indorama India Pvt. Ltd., Reliance Industries Ltd., Aegis Logistics, Indian Molasses Company</p>
6. HPL's existing pipelines	<ul style="list-style-type: none"> ▪ Naptha (1X 24" NB): from HPL facility to HOJ-3; ▪ Butene-1 (1 X 8" NB): from HPL facility to HOJ-1; ▪ Hydrogenated Pyrolysis Gasoline (HPG) / Motor Spirit (MS) (2X 16" NB); from HPL facility to HOJ-1 & 2; ▪ Butadiene (2 X 6" NB): from HPL Facility to HOJ-1;
7. HPL's Objective	<ul style="list-style-type: none"> • To lay pipelines for transporting Benzene, MTBE & Nitrogen between HDC and the HPL's facility as follows: <ul style="list-style-type: none"> ▪ Benzene (1 X 12" NB): from HPL facility to HOJ-1; ▪ Methyl Tert Butyl Ether (MTBE) (1 X 18 " NB); from HPL facility to HOJ-3 ▪ Nitrogen (3 X 4" NB): from HPL facility to HOJ-1, 2 & 3 • To convert the existing Benzene pipeline for transporting Methanol - Benzene (1 X 8" NB): from HPL Facility to HOJ-1
8. Land required	<ul style="list-style-type: none"> • The proposed pipelines connecting to HOJ-1, HOJ-2 and OT-2 will be laid alongside the existing pipeline route and hence additional land will not be required. • The proposed pipeline route to HOJ-3, passes through the land of Kolkata Port Trust (KPT), with no inhabitant throughout the Corridor granted by KPT's Right of Work (RoW)
9. Project Budget	<ul style="list-style-type: none"> • The estimated cost of this pipeline project is approx. INR 21 Crore (Twenty one crore)

WBSCZMA conducted its meeting on 9th July, 2020 to examine the proposal for '*Laying of pipelines between HPL and HDC (Haldia Oil Jetty-1,2,3 and approved Outer Terminal-2) by Haldia Petrochemicals Ltd*', as summarized above, for considering the grant of CRZ clearance. In this meeting, the project proponent was asked by WBSCZMA to undertake certain studies and submit the corresponding inspection reports including *inter alia* the after-effects of Amphan super cyclone, the withstanding capacity of the proposed pipelines, matching the activities under Environment Management Plan with the mitigation measures proposed by Environment Impact Assessment Report, the height of pipelines relative to highest recorded level of submergence, Fire Safety measures etc.

HPL undertook the studies asked for and submitted all the desired Inspection Reports. The Kolkata Port Trust, in their comments on the HPL's proposed project, informed vide their Memo No. I&CF/IZ&R/SDM/WBSCZMA/HPL/1083 dated 26.08.2020, that the Right of Work (RoW) had been already issued to HPL and KPT had conveyed their 'NO OBJECTION' on proposed route of pipelines as proposed by HPL.

The WBSCZMA held another meeting on 21st September, 2020, to consider the grant of CRZ clearance to the proposed pipeline project of HPL. The officials and the Expert Members of the WBSCZMA discussed threadbare, HPL's response to WBSCZMA's observations made in the meeting held on 09.07.2020. All the members of WBSCZMA expressed their satisfaction on compliance reports submitted by HPL and opined that HPL's proposal may be recommended to the National Coastal Zone Management Authority for their consideration and approval.

The WBSCZMA therefore forwards the HPL's proposal with the recommendation that the same may be considered by NCZMA for their approval subject to the following conditions, or any other condition deemed fit:

SPECIFIC CONDITIONS

- i. CRZ norms as laid down in CRZ Notification, 2011 should be strictly followed.
- ii. The built up area as proposed should be strictly adhered to.
- iii. Noise and vibration during construction should be minimized through scientific working practices and management of working hours.
- iv. Water bodies/ponds within the project area to be preserved.
- v. Extreme precaution shall be taken for prevention of oil spill under any circumstances and the oil spill disaster contingency plan to be updated and adhered to.
- vi. Extraction of sand, leveling or digging of sandy stretches except for structural formation should not be done under any circumstances.
- vii. Consent of West Bengal Pollution Control Board should be obtained prior to establishment and operation.
- viii. Approval of Petroleum and Explosives Safety Organization (PESO) should be obtained prior to establishment and operation.

GENERAL CONDITIONS

- i. Drawal of ground water within 200m of HTL is prohibited. In no case, the ground water would be extracted without permission of the Competent Authority under the West Bengal Ground Water Resources (Management, Control and Regulation) Act, 2005.
- ii. Any waste from the operational area will not be allowed to drain directly into the river.
- iii. The Proponent should abide by the Solid Waste Management Rules, 2016. The Proponent must develop the solid waste management and disposal scheme ensuring segregation of bio-degradable and non-biodegradable wastes and scientific disposal of the same.
- iv. The Proponent should strictly abide by The West Bengal Trees (Protection and Conservation in non-forest areas) Rules, 2007.
- v. The project proponent shall submit half yearly compliance report to WBSCZMA in respect of the stipulated terms and conditions in hard and soft copies on 1st July and 31st December of each calendar year.

- vi. Adequate provisions for the infrastructure facilities including water supply and sanitation shall be ensured for the labourers during the construction period in order to avoid any damage to the surrounding environment.
- vii. Construction materials and wastes including hazardous substances, if any, should not be allowed to pollute the surrounding land or aquatic environment as the case may be and should be disposed of as per prevalent rules.
- viii. The noise level and the suspended particulate matter should be kept within permissible levels at the time of construction/ establishment as well as operations.
- ix. There should not be any removal of vegetative cover both during the establishment and operations stage, without the prior sanction of appropriate authority.
- x. The WBSCZMA may monitor the implementation of the project at any stage. The authorized officials of the West Bengal State Coastal Zone Management Authority shall have the power to inspect the sites to enforce the attendant conditions imposed by the State authority. The Authority reserves the right to add additional safeguard measures subsequently, if found necessary.

Yours faithfully



(Vivek Kumar)
Principal Secretary,
Environment Department &
Chairman, WBSCZMA

- Encl. : 1. Copy of HPL's Detailed Project Report
2. MoMs for meetings of WBSCZMA held on 09.07.2020 & 21.07.2020
3. Response to MoM of meeting held on 09.07.2020, submitted by HPL.
4. Comments of Kolkata Port Trust

No. 1436/EN/EN/T-II-4/01/2019 /1 Date : 03.11.2020

Copy forwarded for kind information to :

The Executive Vice President and Head, Plant Haldia Petrochemicals Ltd.

(Niraj Singhal)
Chief Environment Officer,
Environment Department &
Member Secretary, WBSCZMA

No. 1436/EN/T-II-4/01/2019 /2 Date : 03.11.2020

1. District Magistrate, Purba Medinipur District.
2. Member Secretary, West Bengal Pollution Control Board
3. P.S. to Hon'ble MIC, Environment Department

(Niraj Singhal)
Chief Environment Officer,
Environment Department &
Member Secretary, WBSCZMA



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
GSTN No :19AAACW6033G1ZC

Contract

Contract Number/Date
4008575 / November 11,2020
Purchasing Group
Services&works con
PR No.:8014583

Officer-in-Charge for this job
Avik Haldar

Kind Attention
Gourav Saha ,7063594565
Your quotation/Dated
E-MAIL/22.10.2020

Contract Start Date: November 12,2020
Contract End Date : November 11,2021

Seller's Bank details:
Bank Name:AXIS BANK LIMITED
IFSC Code :UTIB0000261
Account No.:261010200003278

Contract value (Estimated) 8,434,755.00 INR

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

Reference:

- Our RFQ Number : 7022758 dated 24.08.2020,
- Your Technical / Price offer: E-Mail dated 03.10.2020,
- Commercial negotiation held on 20.10.2020 and Our E-Mail dated 21.10.2020,
- Your Confirmation : E-Mail dated 22.10.2020

Dear Sir,

With reference to above and subsequent discussion we had with you, we are pleased to place the Contract on you for carrying out above referred work subject to following terms and conditions.

CONTRACT VALUE:

The estimated contract value for entire work assigned to you, works out to Rs. 84,34,755.00 (Rupees Eighty Four Lakh Thirty Four Thousand Seven Hundred Fifty Five Only) based on your quoted and agreed rates. The exact value of contract shall, however, be determined based on actual



अन्तिमकृत 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

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.

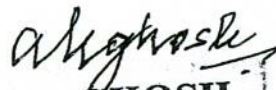
8) If no water is consumed or water consumed is less than 50% of the sanctioned quantity, consumer will have to pay the minimum charge at the rate of 50% of the water charge for the quantity of water sanctioned to him at the rate fixed by the Authority from time to time.

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

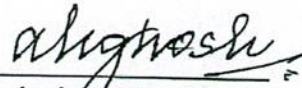
(Signed by for and on behalf of the Authority)

Address _____

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

Address: Haldia Development
Authority, City Centre.

2. Witness: Suxhendu Hazra
Haldia Development Authority
City Centre, Debrng.
Address: Haldia,
Purba Medinipur.


(Signed by for and on behalf of the Consumer)

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

1. Witness: Sobu (S.K. LAHRI)
VP TECHNOLOGY & Q.C.

Address: _____

2. Witness: R. Mandal (DGM-Infq)

Address: _____

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	AdPerMa	
Products as per EC 20/03/2018	Name of Product	KTA	Name of Product	KTA	Name of Product	KTA
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}		

Signature

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 of Product (No. of tanks)	Total Storage Quantity (MT)	Name of Product (No. of tanks)	Total Storage Quantity (MT)	Name of 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	

Symul

(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 Sutahtata –I, Haldia, District East Medinipur, West Bengal – 721602.
6. Guard File/Monitoring File/Website/Record File.

Annexure - 6B

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 Haldia Petrochemicals Limited
Tehsil Sutahata -I, Haldia
District East Medinipur
West Bengal - 721 602
E.Mail: Ashok.Ghosh@hpl.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:

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			HPL		AdPerMa	
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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

3/2/18

10.	C4 Raffinate	-	C4 Raffinate	126	Note-1		
11.	Vinyl Acetate Ethylene (VAE)	60	Vinyl Acetate Ethylene (VAE)	60			
12.	Mixed Butane	126	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. 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			

Spink

8.	Methanol (2)	7,128			Methanol (2)	7,128
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)	

3/2012

Catalysts MT/3-5 years (Hazardous waste)	150 (To be handled by HPL)	104.32 (To be handled by HPL)	45.68 (To be handled by AdPerMa and finally disposed by HPL)
Project Cost in Crores (INR)	4310	4064	246
<p><i>Note-1: 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.</i></p> <p><i>Note-2: Maximum production in case Butene-1 plant is non-operational. Normal production would be 33 kTA.</i></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 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.

8/2/20
27/08/2020

(Ashok Kr. Pateshwar)
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 Bhavan, 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 Bhavan, 10A, Block-L.A., Sector 3, Salt Lake City, Kolkata - 98 (WB)
5. M/s Advanced Performance Materials Private Limited, Tehsil Sutahata -I, Haldia, District East Medinipur, West Bengal - 721602
6. Guard File/Monitoring File/Website/Record File



(Formerly known as Bengal Cracker Complex Limited)

Annexure-7 → 8/c

Plant :
Post Box No.-12, Durgachak,
Haldia , Dist.-Purba Medinipore
West Bengal, Pin-721602, India
TEL. : + 91(03224) 274007/384/400/876,
WEBSITE:www.haldia Petrochemicals.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



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. 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 Naphtna 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