

REGISTERED

WEST BENGAL POLLUTION CONTROL BOARD

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

CO109277

Consent Letter Number :

Memo Number : 7727-W-20-2/16/5054

Date : 18/4/19

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, Dist-Purba
Medinipur, Pin- 721 602.

.....(Detailed address of the manufacturing unit)

for a period from UP to 31.03.2024

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

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

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

West Bengal Pollution Control Board
Haldia Regional Office
Super Market Building, Haldia
Dist. Purba Medinipur

Seal

For and on behalf of the State Board

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

Environmental Engineer

West Bengal Pollution Control Board
Regional Office

ANNEXURE

Consent to M/s. Haldia Petrochemicals Ltd.
 for its unit at P.O. + P.S. - Durgachak, Dist- Purba Medinipur, Pin - 721 602.

Conditions :

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

Sl. No.	Name of major products and by-products	Quantity manufactured per month
01		
02	Refere Annexure- 'A'	
03		
04		
05		
06		
07		
08		
09		
10		
11		
12		

02. The *Applicant* shall remain responsible for quantity and quality of liquid effluent and air emissions.
03. Daily discharge of industrial liquid effluent shall not exceed NIL KL.
04. Daily discharge of domestic liquid effluent shall not exceed NIL KL.
05. Daily discharge of mixed (industrial & domestic) liquid effluent shall not exceed 7625 KL.
06. The *Applicant* shall discharge liquid effluent to Ganga (place of discharge) through One (01) 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.)

M. S. Ghosh
17/04/19
Environmental Engineer
West Bengal Pollution Control Board
Regional Office

sent to M/s. Haldia Petrochemicals Ltd
 or its unit at P.O. + P.S. - Durgachak, Dist- Purba Medinipur, Pin 721 602.

Table-I

Outlet No.	Nature of effluent	Parameters	Standard	Frequency of effluent sampling
01	Mixed	pH	Between: 6.5 to 8.5	Quarterly
		Total Suspended Solids	Not to exceed: 100mg/l.	"
		Biochemical Oxygen Demand (3day at 27°C)	Not to exceed: 30mg/l.	"
		Chemical Oxygen Demand	Not to exceed: 250mg/l.	"
		Oil & Grease	Not to exceed: 10mg/l.	"
		Phenol	" 1.0 "	"
		Fluoride	" 5.0 "	"
		Total Cr	" 2.0 "	"
		CN _x	" 0.2 "	"
		Cr +6	" 0.1 "	"
		sulphide	" 2.0 "	"
		Cu	" 1.0 "	"
		Fe	" 1.0 "	"
		Zn	" 1.0 "	"
		Phosphate	" 1.0 "	"
		Free available chlorine	" 5.0 "	"
			" 0.5 "	"

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

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

- Industrial cooling, spraying in mine pits and boiler feed water → 36751 KL
(Water used for gardening should be included in this category of use)
- Domestic purpose → 1510 KL
- Processing whereby water gets polluted and the pollutants are easily biodegradable → 2000 KL
- Processing whereby water gets polluted and the pollutants are not easily biodegradable → NIL 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.)

Environmental Engineer
 West Bengal Pollution Control Board
 Regional Office

(4)

M/s. Haldia Petrochemicals Ltd.

Consent to

P.O. + P.S.- Durgachak, Dist-Purba Medinipur, Pin - 721 602.

for its unit at

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)				
S-1	30	Incinerator -	-	-	As Per Annexure - E					Quarterly
S-2	54.3	Aux. Boiler - of CPP (1 & 2)	-	-	50	1	100 ppm	-	-	-do-
S-3	45	HRSG of CPP - (1 & 2)	-	-	50	-	100 ppm	-	-	-do-
S-4	26.2	DG set (1500 KVA)	-	-	150	1	-	-	-	Quarterly
S-5	33	PGHU			As Per Annexure - D					
S-6										
S-7										
S-8										
S-9										
S-10										

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

Environmental Engineer
West Bengal Pollution Control Board
Regional Office

M. S. Haldia
17/04/19

Consent to **M/s. Haldia Petrochemicals Ltd.**
 for its unit at **P.O. + P.S.- Durgachak, Dist.- Purba Medinipur, Pin- 721 602.**

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	RFG	27123 MT	Incinerator, PGHU, NCH
02	Naptha + RFG	484 MT	HRSO of CPP
03	Naptha + RFG+CBFS	5650 MT	Aux. Boiler of CPP
04	HSD	8010 MT	DG set
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
	Refer Annexure 'B'		

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.)	75
Night Time (10 p.m. to 06 a.m.)	70

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

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

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

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

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

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

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

Environmental Engineer
 West Bengal Pollution Control Board
 Regional Office

Consent to M/s. Haldia Petrochemicals Ltd.
 for its unit at P.O. + P.S.- Durgachak, Dist- Purba Medinipur, Pin-721 602.

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

Please see Annexure 'A'

A B C D E
 (Member Secretary/Chief Engr./ Sr. Env. Engr./ Environmental Engineer)
 West Bengal Pollution Control Board
 Regional Office

Mardi
 12/04/19

ANNEXURE - 'A'

Consent Letter Sl. No.: C0109277

WEST BENGAL POLLUTION CONTROL BOARD
Paribesh Bhawan; Bldg. No.-10A, Block - L.A., Sector - III
Salt Lake City, Kolkata - 700 106

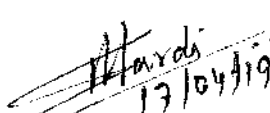
Name of the Unit: **M/s Haldia Petrochemicals Ltd.**

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

This Consent is valid for the manufacture of:-

Sl. No.	Name of major products and by-products	Quantity manufactured per year
Main Products		
1.	Benzene	132000 MT
2.	Butadiene	101000 MT
3.	Ethylene	700000 MT
4.	High Density Polyethylene (HDPE)	334000 MT
5.	Linear Low Density Polyethylene (LLDPE)	386000 MT
6.	Mixed C4	214000 MT
7.	Polypropylene (PP)	341000 MT
8.	Propylene	350000 MT
9.	RPG	481000 MT
By-products		
10.	C6 Raffinate	36600 MT
11.	CBFS	89300 MT
12.	Cyclopentane	5200 MT
13.	LPG	113000 MT
14.	Motor Spirit (MS)	250600 MT
15.	Power Output (CPP)	116 MW
16.	Py Gas	130500 MT
17.	Steam	377712 MT

For and on behalf of the Board


Environmental Engineer
Haldia Regional Office, WBPCB