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**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 17<sup>th</sup> April, 2019 for amendment/bifurcation and proposal No. IA/WB/IND2/138269/2020 dated 13<sup>th</sup> March, 2020 for transfer (split) of the environmental clearance dated 20<sup>th</sup> 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 20<sup>th</sup> 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 <sup>Note-1</sup>		

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

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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 <sub>2</sub> SO <sub>4</sub> 98% (1)	478	H <sub>2</sub> SO <sub>4</sub> 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 <sup>3</sup> /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	

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(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 17<sup>th</sup> 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 20<sup>th</sup> 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 20<sup>th</sup> March, 2018. As

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*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 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 Haldia Petrochemicals Limited, Tehsil Sutahata –I, Haldia, District East Medinipur, West Bengal – 721602.
6. Guard File/Monitoring File/Website/Record File.