



सत्यमेव जयते

By Speed Post/Online

F.No.J-11011/221/2017- IA II(I)
Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

Indira Paryavaran Bhawan
Jorbagh Road, New Delhi - 110003

Dated: 23rd September, 2020

To

M/s Hindustan Petroleum Corporation Limited

6th Floor, Core – II, North Tower, Scope Minar
Lakshmi Nagar, Delhi-110092

Email: sanjoykr@hpcl.in

Sub: Setting up 2G Ethanol Bio-refinery Plant of capacity 100 KLPD at Village Nasibpura, Tehsil Talwandi Sabo, Bathinda, Punjab by M/s Hindustan Petroleum Corporation Limited- Amendment in the Environmental Clearance-reg.

Sir,

This has reference to your proposal No. IA/PB/IND2/154665/2020 dated 28th May 2020, for amendment in the environmental clearance (EC) granted for the above project.

2. The Ministry has granted environmental clearance vide letter dated 14th August, 2018 to the project for Setting up 2G Ethanol Bio-refinery Plant of capacity 100 KLPD at Village Nasibpura, Tehsil Talwandi Sabo, Bathinda, Punjab in favour of M/s Hindustan Petroleum Corporation Limited.

3. The project proponent has now requested for amendment in the EC with the details are as under;

S. No.	Para of EC issued by Ministry	Details as per the EC	To be revised/ read as																				
1.	Para No.2	2G Ethanol Bio-refinery plant of capacity 100 KLPD in total area of 15.1 Ha.	The area of Bio-refinery is changed from 15.1 Ha to 20.9 Ha																				
2.	Para No.3	Details of by-products: <table border="1"> <tr><td>CO₂ (raw)</td><td>80 TPD</td></tr> <tr><td>Methanol</td><td>0.03 KLPD</td></tr> <tr><td>Technical Alcohol</td><td>N/A</td></tr> <tr><td>FO</td><td>0.3 KLPD</td></tr> <tr><td>Ash</td><td>60 TPD</td></tr> </table>	CO ₂ (raw)	80 TPD	Methanol	0.03 KLPD	Technical Alcohol	N/A	FO	0.3 KLPD	Ash	60 TPD	Details of By-Product <table border="1"> <tr><td>CO₂ (raw)</td><td>75-76 TPD</td></tr> <tr><td>Methanol</td><td>N/A</td></tr> <tr><td>Technical Alcohol</td><td>2 KLPD</td></tr> <tr><td>FO</td><td>0.3 KLPD</td></tr> <tr><td>Ash</td><td>115-125 TPD</td></tr> </table>	CO ₂ (raw)	75-76 TPD	Methanol	N/A	Technical Alcohol	2 KLPD	FO	0.3 KLPD	Ash	115-125 TPD
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3.	Para No.4	Greenbelt will be developed in 4.98 ha. Total Estimated cost is 850 Crores. Environmental pollution control measures will be Rs. 13.5 Crores. The recurring cost (O&M) will be about Rs. 123 Crores per annum.	Greenbelt will be developed in 6.88 ha. Total Estimated cost is Rs. 1096.25 Crores. Environmental pollution control measures will be Rs. 38 Crores. The recurring cost (O&M) will be about Rs. 240.09 Crores per annum.																																
4.	Para No.6	<ul style="list-style-type: none"> • Fresh water requirement 1800 Cum/day. • Power requirement 10.5 MW • 2 X 500 KVA DG sets • Two rice straw/Cotton stalk fired boiler of 35 TPH 	<ul style="list-style-type: none"> • Fresh water requirement 2280 Cum/day. • Power requirement 11.5 MW • 2 X 2000 KVA DG sets • Two rice straw/Cotton stalk fired boiler of 42 TPH 																																
5.	Para No.7	<table border="1"> <tr> <td colspan="2">Hazardous waste</td> </tr> <tr> <td>Used Lubricants</td> <td>0.5 MTM</td> </tr> <tr> <td>Used Containers (Metal & Plastic)</td> <td>1200 (Nos.)</td> </tr> <tr> <td>HDPE/LDTE/Gunny bags</td> <td>800 (Nos.)</td> </tr> <tr> <td colspan="2">Non Hazardous waste</td> </tr> <tr> <td>Mud</td> <td>8 TPD</td> </tr> <tr> <td>Ash</td> <td>79.2 TPD</td> </tr> <tr> <td>Dewatered sludge</td> <td>N/A</td> </tr> </table> <p>Solid and Harzardous waste generated as:Used Lubricants 0.5 MTM , Used Container(Metal and Plastic) 1200, HDPE/LDTE/Gunny Bags 800 Non-Hazardous Waste Generated as: Mud 8 TPD, Ash 79.2 TPD</p>	Hazardous waste		Used Lubricants	0.5 MTM	Used Containers (Metal & Plastic)	1200 (Nos.)	HDPE/LDTE/Gunny bags	800 (Nos.)	Non Hazardous waste		Mud	8 TPD	Ash	79.2 TPD	Dewatered sludge	N/A	<table border="1"> <tr> <td colspan="2">Hazardous waste</td> </tr> <tr> <td>Used Lubricants</td> <td>0.5-0.7 MTM</td> </tr> <tr> <td>Used Containers (Metal & Plastic)</td> <td>1300 (Nos.)</td> </tr> <tr> <td>HDPE/LDTE/Gunny bags</td> <td>1700 (Nos.)</td> </tr> <tr> <td colspan="2">Non Hazardous waste</td> </tr> <tr> <td>Mud</td> <td>8-10 TPD</td> </tr> <tr> <td>Ash</td> <td>115-125 TPD</td> </tr> <tr> <td>Dewatered sludge</td> <td>8-9 TPD</td> </tr> </table> <p>Solid and Harzardous waste generated as:Used Lubricants 0.5-0.7 MTM , Used Container(Metal and Plastic) 1300, HDPE/LDTE/Gunny Bags 1700 Non-Hazardous Waste Generated as: Mud 8-10 TPD, Ash 115-125 TPD and De-watered sludge 8-9 TPD</p>	Hazardous waste		Used Lubricants	0.5-0.7 MTM	Used Containers (Metal & Plastic)	1300 (Nos.)	HDPE/LDTE/Gunny bags	1700 (Nos.)	Non Hazardous waste		Mud	8-10 TPD	Ash	115-125 TPD	Dewatered sludge	8-9 TPD
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6.	Para No.11 (f)	Total fresh water requirement shall not exceed 1800 Cum/day.	Total fresh water requirement shall not exceed 2280 Cum/day.																																

4. The proposal was considered by the Expert Appraisal Committee (Industry-2) in its meeting held on 14-16 July, 2020 in the Ministry. The project proponent has informed the Committee that the previous technology has failed to meet the performance guarantees for water, power, consumables and ethanol yield. The technology had many gaps in BEDP and proprietary equipment hence, HPCL has to adopt new technology which is well proven at demonstration scale plant. All the changes are attributable to change in technology. The additional land of 5.8 ha is under possession of HPCL since March, 2019 and was originally to be utilized for biomass storage. Green belt shall be increased to cover 33% of the project area. Capital cost and O&M cost has increased due to change in equipment and technology.

The EAC noted that the amendment in EC is necessitated due to changes in technology adopted by the project proponent for the bio-refinery project to produce ethanol from Biomass. The Committee took serious note on the techno-economic

viability of the project, and also huge requirement of fresh water and additional land. However, considering adverse impact of burning of paddy/rice straw (stubble burning) in the country and particularly in the NCR, significantly contributing to air pollution especially during winters, the Committee agreed to consider the proposal. The EAC after detailed deliberations, considering the importance of the project, improvement in technology and R&D in the area, has of the view that such projects require encouragement and has accordingly recommended for amendment in EC as proposed by the project proponent.

5. Based on recommendations of the EAC, Ministry hereby accords approval for amendment in the environmental clearance dated 14th August, 2018, with all other terms and conditions stipulated therein remain unchanged.

6. This issues with approval of the competent authority.

23/09/2020
(Dr. R. B. Lal)

Scientist 'E'/Additional Director

Copy to:-

1. The Deputy DGF (C), MoEF&CC Regional Office (NZ), Bays No. 24-25, Sector 31 A, Dakshin Marg, Chandigarh – 30
2. The Secretary, Department of Science, Technology and Environment, Government of Punjab, Civil Secretariat, Chandigarh
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex East Arjun Nagar, Delhi – 32
4. The Member Secretary, Punjab Pollution Control Board, Vatavaran Bhawan, Patiala (Punjab)
5. Guard File/Monitoring File/Website/Record File

23/09/2020
(Dr. R. B. Lal)

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