

**GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE
(IA DIVISION-INDUSTRY-2 SECTOR)**

Dated: 16.01.2024

**Meeting ID: IA/IND2/13577/09/01/2024
MINUTES OF MEETING OF THE EXPERT APPRAISAL COMMITTEE
(INDUSTRY-2 SECTOR PROJECTS)
HELD ON 09th January, 2024**

Venue: Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi-110003 through Video Conferencing (VC)

(i) Opening Remarks by the Chairman: The Chairman made hearty welcome to the Committee members and appreciated the efforts of the Committee. After opening remarks, the Chairman opened the EAC meeting for further deliberations.

(ii) Confirmation of minutes: The EAC, having taken note that final minutes were issued after incorporating comments received from the EAC members on the minutes of its Meeting (ID: EC/AGENDA/EAC/252129/12/2023) held on 18th December, 2023 conducted through Video Conferencing (VC), confirmed the same.

(iii) Member Secretary informed the Members of the EAC that they may declare their conflict of interest before appraisal of any proposal and recuse from the meeting and the same shall be explicitly recorded in the Minutes of the meeting. Further, it was also informed that in case it is revealed later that in spite of the conflict of interest the Member had participated in the appraisal of the proposal, the responsibility for the same lies with the concerned Member and it may result in removal from the membership of EAC. After welcoming the Committee Members, discussion on each of the agenda items was taken up ad-seriatim.

(iii) Details of the proposals considered during the meeting conducted through Video Conferencing (VC), deliberations made and the recommendations of the Committee are explained in the respective agenda items as under: -

09th January, 2024 (Tuesday)

Agenda No. 01

Establishment of 100 KLPD Molasses based Distillery located at Deorao Patil Nagar Mangrul, Post Belora, Taluka Yavatmal, District Yavatmal, Maharashtra by M/s. Deccan Sugar Private Limited - Amendment in Environment Clearance.

[IA/MH/IND2/298588/2023, IA-J-11011/53/2019-IA II (I)]

The proposal is for amendment in the Environmental Clearance granted by the Ministry vide letter No. IA-J-11011/53/2019-IA II (I) dated 01.12.2020 for the project- Establishment of 100 KLPD Molasses based Distillery located at Deorao Patil Nagar Mangrul, Post Belora, Taluka Yavatmal, District Yavatmal, Maharashtra by M/s. Deccan Sugar Private Limited.

The project proponent has requested for amendment in the environmental clearance with the details are as under;

No.	Para of EC issued by MoEF &CC	Details as per the EC	To be revised as	Justification/ Reasons
1	Page No. 1, Subject	Establishment of 100 KLPD Molasses based Distillery at Deorao Patil Nagar, Post Belora, Taluka Yavatmal, District Yavatmal, Maharashtra by M/s Deccan Sugar Private Limited....	Establishment of 100 KLPD B/C Heavy Molasses/ Cane Juice/ Cane Syrup based Distillery at Deorao Patil Nagar, Post Belora, Taluka Yavatmal, District Yavatmal, Maharashtra by M/s Deccan Sugar Private Limited....	Looking at the availability of Sugarcane in command area, management decided to use B-heavy

No.	Para of EC issued by MoEF &CC	Details as per the EC	To be revised as	Justification/Reasons																												
				Molasses/Cane Juice/Cane Syrup as raw material along with C-Heavy Molasses for RS/ENA/Ethanol manufacturing in setup of proposed 100 KLPD Molasses based distillery (as per EC dated 01.12.2020).																												
2	Page No. 1 Point No. 2establishment of 100 KLPD Molasses based distillery by M/s Deccan Sugar Private Limited (DSPL) in an area of 9,13,000 sqm located at Gat No. 52/1, 53-55, 58, 61, 70-80, 87-95, 120/1, 121/1, 126-131, 141, 147, Deorao Patil Nagar, Post Belora, Taluka Yavatmal, District Yavatmal, Maharashtra.establishment of 100 KLPD B/C Heavy Molasses/ Cane Juice/ Cane Syrup based distillery by M/s Deccan Sugar Private Limited (DSPL) in an area of 9,13,000 sqm located at Gat No. 52/1, 53-55, 58, 61, 70-80, 87-95, 120/1, 121/1, 126-131, 141, 147, Deorao Patil Nagar, Post-Belora, Taluka-Yavatmal, District-Yavatmal, Maharashtra.	Addition of B-heavy Molasses/Cane Juice/Cane Syrup as a raw material.																												
3	Page No. 1, Point No. 3	<p>The details of products and capacity are as under:</p> <table border="1" data-bbox="397 1423 792 1816"> <thead> <tr> <th>Unit</th> <th>Product</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Distillery (100 KLPD)</td> <td>Rectified Spirit/Ethanol/ENA</td> <td>3,000 KL/M</td> </tr> <tr> <td>Electricity</td> <td>4 MWH</td> </tr> <tr> <td>By-product</td> <td></td> <td></td> </tr> <tr> <td></td> <td>CO₂ Gas</td> <td>2265 MT/M</td> </tr> </tbody> </table>	Unit	Product	Quantity	Distillery (100 KLPD)	Rectified Spirit/Ethanol/ENA	3,000 KL/M	Electricity	4 MWH	By-product				CO ₂ Gas	2265 MT/M	<p>The details of products and capacity are as under:</p> <table border="1" data-bbox="824 1423 1214 1816"> <thead> <tr> <th>Unit</th> <th>Product</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Distillery (100 KLPD)</td> <td>Rectified Spirit/Ethanol/ENA</td> <td>3,000 KL/M</td> </tr> <tr> <td>Electricity</td> <td>4 MWH</td> </tr> <tr> <td>By-product</td> <td></td> <td></td> </tr> <tr> <td></td> <td>CO₂ Gas</td> <td>2265 MT/M</td> </tr> </tbody> </table>	Unit	Product	Quantity	Distillery (100 KLPD)	Rectified Spirit/Ethanol/ENA	3,000 KL/M	Electricity	4 MWH	By-product				CO ₂ Gas	2265 MT/M	Spentwash treatment proposed as Biomethanation, Concentration in MEE followed by dryer. Hence Sp. Wash Powder will be generated & to be sold for Potash
Unit	Product	Quantity																														
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		<table border="1" data-bbox="396 289 795 359"> <tr> <td data-bbox="396 289 526 359"></td> <td data-bbox="526 289 672 359">Fusel Oil (0.2%)</td> <td data-bbox="672 289 795 359">10 KL/M</td> </tr> </table>		Fusel Oil (0.2%)	10 KL/M	<table border="1" data-bbox="821 289 1218 453"> <tr> <td data-bbox="821 289 951 359"></td> <td data-bbox="951 289 1097 359">Fusel Oil (0.2%)</td> <td data-bbox="1097 289 1218 359">10 KL/M</td> </tr> <tr> <td data-bbox="821 359 951 453"></td> <td data-bbox="951 359 1097 453">Sp. Wash Powder</td> <td data-bbox="1097 359 1218 453">58 MT/D</td> </tr> </table>		Fusel Oil (0.2%)	10 KL/M		Sp. Wash Powder	58 MT/D	Recovery/ used as manure.
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4	Page No. 1, Point No. 4	The estimated project cost is Rs. 152 crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 40.50 Crores and the recurring cost (operation & Maintenance) will be about Rs. 4.13 Crores per annum. Industry proposes to allocate Rs. 3.80 Crores towards Corporate Environmental Responsibility (CER).	The estimated project cost is Rs. 162 crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 22.55 Crores and the recurring cost (operation & Maintenance) will be about Rs. 2.65 Crores per annum. Industry proposes to allocate Rs. 4.00 Crores towards Corporate Environmental Responsibility (CER)	Additional cost will be required for Bio-methanation Plant & Dryer.									
5	Page No. 2, Point No. 6	Total Water requirement for distillery project is estimated to be 1415 cum/day , which includes fresh water requirement of 618 cum/day proposed to be met from Goki dam left canal on river Aran, while 794 cum/day will be recycled treated from CPU and 3 cum/day from STP.	Total water requirement for distillery project is estimated to be 1415 cum/day , which includes fresh water requirement of 583 cum/day proposed to be met from Goki dam left canal on river Aran, while 794 cum/day will be recycled treated from CPU and 3 cum/day from proposed STP.	The total water consumption will be 1415 CMD and fresh water as 583 CMD as against 618 CMD. Hence, there will be reduction in fresh water quantity.									
6	Page No. 2, Point No. 6	The effluent/ raw spentwash of 800 cum/day shall be concentrated in Multiple (Five) Effect Evaporator (MEE). Concentrated spentwash of 160 cum/day (1.6 KL/KL of alcohol against norm of 8 KL/KL of alcohol)	The effluent/ raw spentwash of 800 cum/day shall be biomethanated & concentrated in Multiple (Five) Effect Evaporator (MEE). Concentrated spentwash of 160 cum/day (1.6 KL/KL of alcohol against	The spentwash powder fetches good revenue and offers value addition alongwith									

No.	Para of EC issued by MoEF &CC	Details as per the EC	To be revised as	Justification/ Reasons
		shall be incinerated in incineration boiler....	norm of 8 KL/KL of alcohol) shall be dried in Dryer to form powder...	100% Bio-organics recycling. Thus, spentwash drying is a proven & successful technology giving good results.
7	Page No. 2, Point No. 6	Power requirement for proposed distillery will be 2 MW, procured from incineration boiler turbine . DG set of 625 KVA capacity will be installed as standby during power failure. Stack of height 5m ARL shall be provided as per CPCB norms to the DG sets. One 35 TPH spentwash and coal fired boiler will be installed, along with ESP with a stack of height of 63 m for controlling the particulate emissions within the statutory limit of 115 mg/Nm ³	Power requirement for proposed distillery will be 2 MW. DG set of 625 KVA capacity will be installed as standby during power failure. Stack of height 5m ARL shall be provided as per CPCB norms to the DG sets. One 35 TPH Bagasse fired boiler will be installed, along with ESP with a stack of height of 63 m for controlling the particulate emissions within the statutory limit of 30 mg/Nm ³	As spentwash treatment is changing from using incineration boiler to dryer, the fuel to boiler will be changed. After amendment, Bagasse will be used as fuel for the 35 TPH boiler.
8	Page No. 3, Point No. 12establishment of 100 KLPD Molasses based distillery by M/s Deccan Sugar Private Limited (DSPL) in an area of 9,13,000 sqm located at Gat No. 52/1, 53-55, 58, 61, 70-80, 87-95, 120/1, 121/1, 126-131, 141, 147, Deorao Patil Nagar, Post Belora, Taluka Yavatmal, District Yavatmal, Maharashtra.....establishment of 100 KLPD B/C Heavy Molasses/ Cane Juice/ Cane Syrup based Distillery by M/s Deccan Sugar Private Limited (DSPL) in an area of 9,13,000 sqm located at Gat No. 52/1, 53-55, 58, 61, 70-80, 87-95, 120/1, 121/1, 126-131, 141, 147, Deorao Patil Nagar, Post Belora, Taluka Yavatmal, District Yavatmal, Maharashtra.....	--
9	Page No. 3 Point No. 12	As proposed, total fresh water requirement shall be 618 cum/day , proposed to be met from water supply	As proposed, total fresh water requirement shall be 583 cum/day , proposed to be met from water supply	In this case, the fresh water quantity will

No.	Para of EC issued by MoEF &CC	Details as per the EC	To be revised as	Justification/Reasons
	Terms & Conditions No. (iii)	from Goki dam left canal in Aran river.....	from Goki dam left canal in Aran river....	be decreased compared to incineration boiler technology.
10	Page No. 3 Point No. 12 Terms & Conditions No. (iv)	Project Proponent want to install incineration boiler for treatment of spentwash to ensure ZLD. As committed by PP, the spent wash/ other concentrates shall be incinerated.	Project Proponent want to install Bio-methanation, concentration in MEE followed by drying for spentwash treatment to ensure ZLD. As committed by PP, the spent wash/ other concentrates shall be biomethanated & concentrated in MEE. Further, Conc. Spentwash shall be dried for powder formation. Distillery to be operated for 330 days.	The spentwash powder fetches good revenue and offers value addition alongwith 100% Bio-organics recycling. Thus, spentwash drying is a proven & successful technology giving good results.

After detailed deliberations, EAC **recommended** the proposal for amendment in EC as proposed by the Project Proponent with the following additional conditions:

- Industry shall not go for expansion in NIPL in future.
- Total production shall not exceed 100 KLPD.
- PP shall increase the budget allocated under CER to Rs. 4.00 Crores.
- Industry shall upgrade existing ESP with a stack of height of 63 m for controlling the particulate emissions within the statutory limit of 30 mg/Nm³.
- The industry shall use treated sugar condensate to reduce the fresh water requirement in distillery to Zero during the crushing season.

However, all other terms and conditions stipulated in existing EC shall remain unchanged.

Agenda No. 02

Capacity expansion of grain/molasses based distillery from (120 KLD to 200 KLD through modification and from 200 KLD to 500 KLD by installing a new 300 KLD plant) along with Cogeneration Power Plant of 06 MW) located at Village Sehatganj, Tehsil Sanchi, Dist. Raisen, Madhya Pradesh by M/s. Som Distilleries Private Limited - Consideration of Environmental Clearance.

[IA/MP/IND2/401428/2022, IA-J-11011/412/2018-IA-II(I)]

Neither PP nor consultant has circulated information pertaining to the proposal. Further, no intimation regarding the absence to meeting was communicated to EAC.

In view of the above, EAC suggested to return the proposal in present form and PP may apply for the EC through PARIVERH 2 portal.

Accordingly, the proposal was returned in present form.

**List of the Expert Appraisal Committee (Industry-2) members
participated during Video Conferencing (VC) meeting**

S. No.	Name and Address	Position
1.	Shri S. C. Mann	Chairman
2.	Dr. J. S. Sharma	Member
3.	Prof. Y. V. Rami Reddy	Member
4.	Dr. Onkar Nath Tiwari	Member
5.	Shri. J.S. Kamyotra	Member
6.	Dr. Rahul Ramesh Rao Mungikar	Member
7.	Dr. Sanjay V. Patil	Member
8.	Dr. Seshagiri Rao Ambati	Member
9.	Dr. Vimal Kumar Hatwal, Scientist 'E'	Member Secretary
MoEFCC		
10.	Dr. Mahendra Phulwaria	Scientist 'C'
11.	Mr. Kanaka Teja	Research Assistant
