

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

Dated: 01.12.2023

**Meeting ID: IA/IND2/13567/21/11/2023
MINUTES OF MEETING OF THE EXPERT APPRAISAL COMMITTEE
(INDUSTRY-2 SECTOR PROJECTS)
HELD ON 21st November, 2023**

**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: IA/IND2/13562/01/11/2023) held on 01st November, 2023 conducted through Video Conferencing (VC), confirmed the same. 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: -

21st November, 2023 (Tuesday)

Agenda No. 01

Proposed 50 KLPD Grain Based Distillery for production of Fuel Ethanol along with 1.25 MW Captive Power Plant from Waste / Damaged Grains located at Sy. No. 453/AA, 453/1, 453/3, 453/4; Penpahad (V&M), Suryapet District, Telangana by M/s. Amtaar Chemicals Private Limited - Consideration of Environmental Clearance.

[IA/TG/IND2/436974/2023, IA-J-11011/275/2023-IA-II(I)]

The proposal was earlier considered by the EAC (Ind-2) in its meeting having meeting ID IA/IND2/13555/04/10/2023 held during 04th October, 2023 wherein EAC deferred the proposal and desired certain requisite information / inputs. Information desired by the EAC and responses submitted by the project proponent are as under:

Sl. No.	ADS by MoEF&CC	Reply of PP
(i)	PP informed that there is a total of 195 trees exist at the project site. The Committee suggested that PP shall protect all the trees. Accordingly, PP has to revise their plant layout.	All the existing trees present at the site shall be conserved. The orientation of the units have been revised so that there is no need of any tree felling. The revised layout of the plant along with greenbelt area was presented which was submitted on parivesh portal.
(ii)	Accordingly, PP has to submit revise EMP.	Revised EMP was presented which was submitted on parivesh portal.

Sl. No.	ADS by MoEF&CC	Reply of PP
(iii)	PP has to carry out Air quality modelling for proposed project and submit the GLC for major air pollutants as well as resultant value.	Air quality modelling for proposed project has been carried out and GLC for PM has been calculated. AAQ modelling study for point source emissions indicate that the maximum incremental GLC after the proposed project would be 0.51 µg/m ³ with respect to PM. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).
(iv)	List of Plant Species for Greenbelt Development has been submitted as per the recommendation of EAC Committee. Further, Committee suggested that 5 to 10 m thick greenbelt should be developed along the periphery of the project site.	5 to 10 m thick greenbelt shall be developed along the periphery of the project site. The revised layout of the plant along with greenbelt area was presented which was submitted on parivesh portal.
(v)	PP has to carry out risk assessment for ethanol storage and connected piping and submit risk mitigation plan.	Risk management plan was presented which was submitted on parivesh portal.
(vi)	PP shall provide target date for CER implementation.	The CER activities shall be initiated along with the initiation of construction work for the proposed project after receiving the relevant statutory clearances from the concerned authorities. CER activities shall be completed before commencement of operation phase of the project i.e. within 1 year (12 months). CER activity details along with the budget allocated were presented which was submitted on parivesh portal.

The Project Proponent and the accredited Consultant M/s. Envirotech East Pvt. Ltd. (NABET certificate no. NABET/EIA/2225/RA 0279 and validity upto 12th September, 2025) made a detailed presentation on the salient features of the project and informed that the proposal is for environmental clearance of 50 KLPD Grain Based Distillery for production of Fuel Ethanol along with 1.25 MW Captive Power Plant from Waste / Damaged Grains under Ethanol Blending Programme (EBP) located at Sy. No. 453/AA, 453/1, 453/3, 453/4, Penpahad (Village & Mandal), Suryapet (District), Telangana – 508213 by M/s. Amtaar Chemicals Private Limited.

As per the MoEF&CC Notification S.O. 2339(E), dated 16th June, 2021, a special provision in the EIA Notification, 2006-(Schedule 5 (ga), Category B2) is made, wherein for all applications made for Grain based distilleries with Zero Liquid Discharge producing ethanol; solely to be used for Ethanol Blended Petrol Programme of the Government of India shall be considered under B2 Category and appraised at Central Level by Expert Appraisal Committee (EAC) with condition that the project proponent shall file a notarized affidavit that ethanol produced from proposed project shall be used completely for EBP Programme.

The details of products and capacity as under:

S.No.	Name of unit	Name of Product / by-product	Production Capacity
1	Distillery (Grain Based)	Ethanol	50 KLPD
2	Co-generation power plant	Power	1.25 MW
3	DWGS dryer	DDGS	22 TPD
4	Fermentation unit	CO ₂	22 TPD

Standard ToR and Public Hearing is not applicable as the project falls under category B2 as per OM dated 16th June, 2021. It was informed that there is no litigation pending against the project.

Total land area required is 4.07 hectares. Greenbelt will be developed in total area of 1.74 hectares i.e., 42.7% of total project area. The estimated project cost is Rs. 66.2 Crores. Capital cost of EMP would be Rs. 21.17 Crores and recurring cost for EMP would be Rs. 1.265 Crores per annum. Industry proposes to allocate Rs. 0.63 Crores towards Extended EMP

(Corporate Environment Responsibility). Total Employment will be 25 persons as direct & indirect.

There are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger / Elephant Reserves, Wildlife Corridors etc. within 10 km distance. There are no Reserve forests / protected forests within 10 km distance. Musi River is at a distance of 8.7 km towards West from the project site.

Total fresh water requirement will be 225 KLD which will be met from Irrigation canal. Application has been submitted to Telangana State Industrial Project Approval & Self Certification System (TS-iPASS), Government of Telangana on 28th April, 2023. Effluent (Condensate / spent lees / blowdown etc.) of 210 KLD quantity will be treated through Condensate Polishing Unit / Effluent Treatment Plant of capacity 230 KLD. Raw stillage (340 KLPD: quantity of raw spent wash from distillation) will be sent to decanter followed by MEE and dryer to produce DDGS. STP of capacity 10 KLPD will be installed to treat sewage generated from factory premises. The plant will be based on Zero Liquid discharge system and no effluent / treated water will be discharged outside factory premises.

Power requirement will be 1000 KW and will be met from proposed 1.25 MW co-generation power plant and the balance shall be sourced from State grid. 'Technical feasibility' for power requirement from Southern Power Distribution Company of Telangana Limited has been obtained vide letter no. 2154 dated 20/07/2023. 15 TPH rice husk and coal fired boiler will be installed. ESP with a stack height of 30 m will be installed for controlling the particulate emissions within the statutory limit of 50 mg/Nm³ for the proposed boiler. 500 kVA DG set will be used as standby during power failure and stack height (14 m) will be provided as per CPCB norms to the proposed DG sets.

Details of Process emissions generation and its management:

- ESP with a stack height of 30 meters will be installed for controlling the particulate matter emissions.
- Online Continuous Emission Monitoring System will be installed with the stack and data will be transmitted to CPCB / SPCB servers.

- CO₂ (22 TPD) generated during the fermentation process will be collected by utilizing CO₂ scrubbers and it shall be sold to authorized vendors / collected in proposed bottling plant.

Details of solid waste/Hazardous waste generation and its management:

- DDGS (Distilled Dried Grains Stillage) (7260 TPA) will be sold as cattle feed.
- Boiler ash (4060 TPA) shall be sold to brick manufactures and used in land filling.
- ETP sludge - 300 TPA generated shall be used as manure.
- Municipal Solid Waste - 3.7 TPA shall be disposed off through the local Civic body.

As per Notification S.O 2339(E), dated 16th June, 2021, PP has submitted self- certification in the form of notarized affidavit declaring that the proposed capacity of 50 KLPD will be used for manufacturing fuel ethanol only.

Total land of 4.07 Hectares is under possession of the company and land use conversion has been completed vide letter dated 02.03.2023. EAC found the information satisfactory.

Capital cost and recurring cost of EMP are given below:

S.No.	Particulars	Capital cost (Rs. in Lakhs)
Capital expenses		
1.	Standalone Multi Effect Evaporator (Civil + Machinery)	550.00
2.	CO2 plant (including civil)	405.50
3.	Dryer (Machinery + civil and structural)	285.00
4.	Treatment units for condensate and other effluent (Civil + Machinery)	220.00
5.	Spent wash storage tanks, condensate storage tank, Shed for spent wash powder	229.00
6.	Wet scrubber	35.00
7.	Electrostatic Precipitator	150.00
8.	Fuel and Ash handling system	50.00
9.	Fugitive dust control	05.00
10.	Firefighting equipment and other	70.00
11.	Environmental monitoring (Continuous monitoring system, etc), Carbon and water footprint monitoring	45.00

12.	Greenbelt development / Tree plantation	10.00
13.	Laboratory shed and its glassware, equipment, etc.	27.50
14.	DG set (As a backup -including pollution control devices)	15.00
15.	Rainwater harvesting scheme	15.00
	Miscellaneous (Piezometric well, etc.)	05.00
	TOTAL	2117.00

Recurring Expenses / Annum		
Sl. No.	Items	Cost (in Lakhs)
1	Air Pollution Control Systems	50.0
2	Water conservation & Pollution Control	25.0
3	Solid Waste Management System	15.5
4	Green belt	7.0
5	Noise Reduction Systems	3.0
6	Occupational Health Management	3.0
7	Risk Mitigation & Safety Plan	13.5
8	Environmental Management Department	9.5
	GRAND TOTAL	126.5

Details of CER with proposed activities and budgetary allocation:

CER activity head	Budgetary provision (Rs. in lakhs)
Improvement in social infrastructure:	
Provision of drinking water and sanitation facilities at nearby villages / schools	15
Education & Training	
Educational aid to schools / colleges or students	4.5
Training to local youths; Boosting sports activities	12
Training programmes on crop management for local Farmers	09
Plantation in the nearby villages	09
Health check-up or medical camp for locals	09
Provision of water for animals (domestic / wild)	4.5
All proposed activities in CER shall be completed before commencement of operation phase of the project (Approx. 1% of the capital budget of Rs.6830 Lakhs)	63

During deliberations, EAC discussed following issues:

- EAC noted that PP has submitted Air quality modelling for proposed project only with respect to PM. PP shall submit Air quality modelling study for point source emissions indicating maximum incremental GLCs after the proposed project with Respect to PM₁₀, PM_{2.5}, SO₂ and NO_x.
- PP has submitted risk assessment considering the storage capacity of ethanol only for one day. Therefore, PP shall submit risk assessment based on proposed storage capacity of ethanol tanks (i.e one week or two weeks) for the plant and determine potential threat.
- Risk of leakage from the connecting pipeline and valves need to be submitted.
- PP shall ensure that potential threat zone for Thermal Radiation Intensity for Greater 2 kW/m² is confined within the boundary.
- The green belt area has been reduced to 1.42 Ha from 1.74 Ha. as presented to the Committee on on 04/10/2023. PP informed that no tree cutting shall be done, but while presentation it was informed that trees will be cut for laying of road within the plant area. Accordingly, PP shall submit details of the trees to be cut w.r.t their number, species, girth or height were made available and also submit revised EMP.
- PP was suggested to revise the extended EMP, incorporating monitorable targets for the activities specified. The extended EMP submitted is same as that presented to the Committee on on 04/10/2023. PP shall revise the same.
- Land for the proposed site is on the name of an individual which shall be transferred in the name of M/s. Amtaar Chemicals Private Limited.

Accordingly, the proposal is deferred for want of additional information sought by EAC. PP shall submit the information desired by EAC on parivesh portal for further consideration.

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
