



सत्यमेव जयते

File No: EC/SEIAA/2024-25/3401/2024

Government of India

Ministry of Environment, Forest and Climate Change

(Issued by the State Environment Impact Assessment
Authority(SEIAA), JHARKHAND)



Date 12/09/2025



To,

Mr Nitin Mundhra
maheshwari carbons private limited
Mouza-Nawadih, P.s.- Sariakella, Thana No. 292, Halka No. -8, Khata No. -43, Plot No. 402, Saraikela,
Jharkhand, Saraikela, SARAIKELA KHARSAWAN, JHARKHAND, 833219
maheshwaricarbon@gmail.com

Subject: Grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 -regarding.

Sir/Madam,

This is in reference to your application submitted to SEIAA vide proposal number SIA/JH/IND2/540168/2025 dated 04/06/2025 for grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 and as amended thereof.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC25B0000JH5802350N
(ii) File No.	EC/SEIAA/2024-25/3401/2024
(iii) Clearance Type	Fresh EC
(iv) Category	B1
(v) Project/Activity Included Schedule No.	5(ga) Grain based distilleries Grain based Distillery to produce Ethanol with installed capacity 40 KLPD under 100% EBP program by M/s Maheshwari Carbons Private Limited at Mouza-Nawadih, P.S.- Sariakella, Thana No-292, Halka No - 8, Khata No-43, Plot No.-402 (P), Jharkhand – 833 219.
(vii) Name of Project	
(viii) Name of Company/Organization	maheshwari carbons private limited
(ix) Location of Project (District, State)	SARAIKELA KHARSAWAN, JHARKHAND
(x) Issuing Authority	SEIAA
(xi) Applicability of General Conditions as per EIA Notification, 2006	No

Plot/Survey Khasra Nos.:

3. In view of the particulars given in the Para 1 above, the project proposal interalia including Form-1(Part A, B and C)/ EIA & EMP Reports were submitted to the SEIAA for an appraisal by the SEIAA under the provision of EIA notification 2006 and its subsequent amendments.
4. The above-mentioned proposal has been considered by SEIAA in the meeting held on 30/12/2024. The minutes of the meeting and all the project documents are available on PARIVESH portal which can be accessed from the PARIVESH portal by scanning the QR Code above or through the following web link [click here](#).
5. The brief about configuration of products and byproducts as submitted by the Project Proponent in orm-1 (Part A, B and C)/ EIA & EMP Reports / presented during SEIAA are annexed to this EC as Annexure (1).
6. The SEIAA, in its meeting held on , based on information submitted viz: Form 1 (Part A, B and C), EIA/EMP report etc & clarifications provided by the project proponent and after detailed deliberations on all technical aspects and public hearing issues and compliance thereto furnished by the Project Proponent, recommended the proposal for grant of Environment Clearance under the provision of EIA Notification, 2006 and as amended thereof subject to compliance of Specific and Standard EC conditions as given in this letter.
7. The SEIAA has examined the proposal in accordance with the provisions contained in the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and based on the recommendations of the State Environment Impact Assessment Authority(SEIAA) Appraisal Committee hereby accords Environment Clearance to the instant proposal of M/s. Mr Nitin Mundhra under the provisions of EIA Notification, 2006 and as amended thereof subject to compliance of the Specific and Standard EC conditions as given in Annexure (1)
8. The Ministry reserves the right to stipulate additional conditions, if found necessary.
9. The Environmental Clearance to the aforementioned project is under provisions of EIA Notification, 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes, as applicable, to the project.
10. The Project Proponent is under obligation to implement commitments made in the Environment Management Plan, which forms part of this EC.
11. Validity of EC is upto 12/09/2025 to the start of production operations by the project or activity. Validity of EC becomes perpetual subject to the start of production operations by the project or activity on or before the [Project_Date] In case the project proponent fails to start the production operations within the EC validity date, application for EC validity extension shall be submitted to the regulatory authority as per the provision contained in the Para 9.0 of EIA notification, 2006 and its amendment.
12. General Instructions:
 - (a) The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEF&CC/SEIAA website where it is displayed.
 - (b) The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
 - (c) The project proponent shall have a well laid down environmental policy duly approved by the Board of Directors (in case of Company) or competent authority, duly prescribing standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions.
 - (d) Action plan for implementing EMP and environmental conditions along with responsibility matrix of the project proponent (during construction phase) and authorized entity mandated with compliance of conditions (during perational phase) shall be prepared. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Six monthly progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.
 - (e) Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
 - (f) The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.

(g) Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

13. This issues with the approval of the Competent Authority

Copy To

N/A

Annexure 1

Specific EC Conditions for (Grain Based Distilleries)

1. Grain Based Distilleries

S. No	EC Conditions
1.1	<ul style="list-style-type: none">· The boiler capacity to be maintained at 50 TPH, and particulate matter emissions shall be maintained below 30 mg/Nm³. SO₂ and NO_x emissions shall be maintained below 100 mg/Nm³· The budget allotted for activities under Extended EMP shall be Rs. 5.0 Crores.· PP shall adhere to OISD standards specifically OISD-STD-108 & 129.
1.2	

2. Annexure

S. No	EC Conditions
2.1	As per given in Minutes

3. As Per Annexure

S. No	EC Conditions
3.1	<ul style="list-style-type: none">· All the terms and condition as mentioned in the environment clearance issued by MoEF&CC, New Delhi EC Identification No. EC22A060MP110018, F.No. IA-J-11011/338/2022-IA-II(I) dated 27.09.2022 for setting up Greenfield Project of 150 KLD Grain Based Ethanol Plant along with 4.0 MW Co-generation Power Plant located at Village-Basi, Teh- Waraseoni, District- Balaghat, M.P. shall remain unchanged and validity of EC shall be as per the EIA notification 2006 and as per amendment in future in any.· The recommendation for the transfer of EC does not certify that PP has not violated any provision of the EC at any point of time in the past. If at any point of time it is found that PP has violated the provision of EC, PP shall be liable for the same.· The compliance of the conditions of environment clearance along with the Photographs of plantation and CER activities progress shall be submitted to the Parivesh Portal, Regional Office of MOEF&CC and M.P. SEIAA on six monthly basis by the New Project Proponenet as per provision of EIA notification 2006 and office memorandum 14.06.2022 of MoEF&CC Govt of India.

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S. No	EC Conditions
4.1	all other conditions to remain unchanged.

5. Condition

S. No	EC Conditions
5.1	Amendment to Environmental Clearance with a condition that the project proponent shall cover the trucks/ vehicles used for ash transportation with tarpaulin to avoid spillages and to minimize dust emissions.

6. Non Forest Land

S. No	EC Conditions
6.1	<p>I. Maximum quantity of Rain Water Harvested shall be used within the plant premises and only surplus RWH water shall be recharged to ground.</p> <p>II. No effluent to be discharged out side the plant premises.</p> <p>III. In compliance of OM no. F. No. IA3-22/3/2024-IA.III (E-241594) dated 24.07.2024 of MoEF&CC, Govt. of India plantation of saplings shall be carried out in the earmarked green belt area as the part of tree plantation campaign “<i>Ek Ped Ma Ke Naam</i>” and the details of the same shall be uploaded in the MeriLiFE Portal (https://merilife.nic.in). 10% of the total green belt proposed shall be allocated under this clause.</p> <p>IV. Ground water to be drawn for use in the project only after obtaining permission from the Competent Authority.</p> <p>V. Environment management system including organization structure to be drawn to ensure compliance of EC conditions stipulated based on principles of Continual Improvement and periodical management review.</p> <p>VI. All raw material to be stored only under covered shed.</p> <p>VII. Trees should be developed & maintained not less than 33% of project area.</p>

Additional EC Conditions

N/A

Annexure 2

Details of the Project

S. No.	Particulars	Details
a.	Details of the Project	Grain based Distillery to produce Ethanol with installed capacity 40 KLPD under 100% EBP program by M/s Maheshwari Carbons Private Limited at Mouza–Nawadih, P.S.- SariaKella, Thana No-292, Halka No - 8, Khata No-43, Plot No.-402 (P), Jharkhand – 833 219.

S. No.	Particulars	Details	
b.	Latitude and Longitude of the project site	22.6963231405505,85.95562588059846 22.69770177494485,85.9576500884851	
c.	Land Requirement (in Ha) of the project or activity	Nature of Land involved	Area in Ha
		Non-Forest Land (A)	1.2145
		Forest Land (B)	0
		Total Land (A+B)	1.2145
d.	Date of Public Consultation	Public consultation for the project was held on	
e.	Rehabilitation and Resettlement (R&R) involvement	NO	
f.	Project Cost (in lacs)	4400	
g.	EMP Cost (in lacs)	290	
h.	Employment Details		

Details of Products & By-products

Name of the product /By-product	Product / By-product	Quantity	Unit	Mode of Transport / Transmission	Remarks (eg. CAS number)
Ethanol	Product	40	Kilo Litre per Day (KLD)	Road	



State Level Environment Impact Assessment Authority, Jharkhand

Nursery Complex, Near Dhurwa Bus Stand, Dhurwa, Ranchi. Jharkhand-834 004

E-mail: mseiaa.jhk@gmail.com / website: www.jseiaa.org

Letter No. : EC/SEIAA/2025-26/3401/2025/

Ranchi, Date :

**To: Shri Nitin Mundhra,
Director,
M/s Maheshwari Carbons Private Limited,
Mouza : Nawadih, P.S. : Saraikella, Thana No. : 292, Halka No. : 8,
Khata No. : 43, Plot No. : 402(P), Jharkhand : 833219.**

Sub. : Environmental Clearance for the project "Grain based Distillery to produce Ethanol with installed capacity 40 KLPD under 100% EBP program by M/s Maheshwari Carbons Private Limited at Village : Nawadih, Thana : Saraikela, Thana no. : 292, District : Saraikela-Kharsawan (Proposal No. : SIA/JH/IND2/540168/2025).

Ref. : Your application no. MCPL/2024-2025, dated - 03.06.2023.

It is in reference to the project "Grain based Distillery to produce Ethanol with installed capacity 40 KLPD under 100% EBP program by M/s Maheshwari Carbons Private Limited at Village : Nawadih, Thana : Saraikela, Thana no. : 292, District : Saraikela-Kharsawan, Jharkhand" submitted by you for seeking Environmental Clearances (EC).

This is a new project which has been taken for appraisal on 25.07.2025.

Project Sector: 5(ga) Grain Based Distilleries, Category: B1.

Application for Environmental Clearance (EC) after ToR as per EIA Notification, 2006.

The State Expert Appraisal Committee, Jharkhand deliberated the project during its 119th meeting held on 17.12.2024 - 22.12.2024 and SEIAA, Jharkhand has approved the ToRs in 119th meeting held on 30th&31st December, 2024. TOR for the project was issued by SEIAA, Jharkhand vide letter no. EC/SEIAA/2024-25/3401/2024/521, dated 13.01.2025. The final EIA / EMP submitted by PP to SEAC on 04.06.2025.

M/s Maheshwari Carbons Private Limited has proposed a grain-based distillery [Ethanol -40 KLPD] with ZLD system along with 870 KW cogeneration power. The proposed site is located at Mouza-Nawadih, P.S. Sariakella, Thana No -292, Halka No. – 8, Khata No-43, Plot No.-402 (P), Jharkhand.

The proposed project activity is covered under the ambit of EIA Notification, 2006 & its subsequent amendment dated 16.06.2021 and categorized as 'B1', project activity 5(ga) [Grain based distilleries producing ethanol with ZLD.

M/s Maheshwari Carbons Private Limited had submitted application for approval of ToR on 22/10/2024 and Terms of Reference has been granted by the SEIAA, Jharkhand vide TOR letter [Identification No. TO24B0000JH5558913N [File No.EC/SEIAA/2024-25/3401/2024]] dated 22/01/2025. Public hearing for the project has been conducted on 28-04-2025 at the project site.

The proposed ethanol plant will be based on grains such as maize, broken rice, surplus FCI rice and damaged grain as basic raw materials. Other inputs will be water, enzymes, antifoam agents, Active Dry Yeast, Urea/DAP, Antibiotics, Sterilant etc. Biomass [rice husk, bagasse etc.] or coal will be used as fuel in boiler.

The project proposes to implement Zero Liquid Discharge system by decantation, multi-effect evaporation [MEE] plant & ETP with Reverse Osmosis (RO) technology. The solids stream from decanter [Wet Cake] consisting of majority of suspended solids is directly conveyed to the Dryer to form Distiller's Dried Grain with Solubles [DDGS] which will be sold as cattle/animal feed.

Estimated cost of the proposed project is INR 44 Crore.Total plot area of the proposed site is 12,145.58 sqm [3 acre].

Land details are as follows –

Thana No.	Halka No.	Khata No.	Plot No.
292	8	43	402 (P)

Production Details –

Unit	Product	Production Capacity
Distillery	Ethanol	40 KLPD
Cogeneration power plant	Power [own consumption]	870 KW
Byproducts	DDGS	19 TPD
	CO ₂	29 TPD
	Fusel Oil	60 Lit/day

Raw materials consumption –

S N	Raw Material	Approximate Consumption
1.	Broken Rice [68% starch] or - Maize [60% starch]	90 MT/day 102 MT/day

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2.	Chemicals & Additives	
	a) Liquefying Enzyme	25 kg/day
	b) Saccharifying Enzyme	26 kg/day
	c) Anti Foam	10 kg/day
	d) Active Dry Yeast	20 kg/day
	e) Urea/DAP	140 kg/day
	f) Antibiotics	1.7 kg/day
	g) Sterilant	150 gm/day
3.	Biomass/Coal	48/ 43 TPD

As proposed, number of operating days of the plant will be 340 days/Annum.

Water Requirement

Total Water Consumption	Quantity	Unit
PROCESS WATER	172	KLD
DM WATER-BOILER	40	KLD
COOLING TOWER LOSSES	189.6	KLD
SOFT WATER-SEALING, SCRUBBER	13	KLD
CIP WATER	5	KLD
FO WASHING WATER	3	KLD
WTP BACKWASH	10	KLD
Total	432	KLD

Effluent Generation	Quantity	Unit
PROCESS CONDENSATE	23	KLD
DRYER CONDENSATE	44	KLD
SPENT LESS + FO WASHING	45	KLD
SEALING WATER	5	KLD
TO ETP (CT & BOILER BLOWDOWN, WTP BACKWASH, CPU REJECT, DM REJECT, CIP WATER)	61	KLD
TOTAL	178	KLD

Effluent Recycle	Quantity	Unit
PROCESS CONDENSATE	102	KLD
DRYER CONDENSATE		KLD
SPENT LESS + FO WASHING		KLD
FROM ETP	55	KLD
TOTAL	157	KLD

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- Total Fresh water demand – 194 KLD [Industrial – 184 KLD + domestic– 4 KLD + green area – 6 KLD].
- Recycled treated effluent from proposed onsite ETP + steam condensate + Spent lees + thin slop returns etc. - 248 KLD.
- **Source of Water:** Onsite Ground Water abstraction 184 KLD (CGWA Approved) + Water tanker supply [10 KLD] for domestic uses and green area.

Power Requirement and Source

Estimated power demand - 870KW

Source-Proposed cogeneration power plant of 870 kW.
Emergency backup - 1 DG set [250 KVA].

Steam Requirement

Steam requirement will be met from biomass/coal-based boiler of capacity 8 TPH. The boiler will be provided with dust collector and bag filters followed by stack of adequate height.

Boiler Details

Steam Requirement will be sourced from 8 TPH boiler

Steam Consumption (Dry and Saturated)	Proposed Scheme
1. Cooking and Liquefaction	1.5 kg/lit of TS
2. Distillation	2.4 kg/lit of TS
3. Ethanol	1.5 kg/lit of TS
4. DWGS Dryer	2.2 kg/lit of TS
Total Steam requirement	7.6 kg/lit of TS

Fuel Consumption -

100% Biomass [rice husk, bagasse etc.] – 48 TPD or 100% Coal – 43 TPD

Proposed Boiler details

Boiler of 8 TPH capacity provided with cyclone separator, bag house as air pollution control equipment followed by adequate stack height will be installed as per CPCB and JSPCB guidelines. Details regarding proposed boiler are mentioned in the table given below –

S. No	Details	
1	Type of Fuel	Rice Husk / Biomass/coal
2	Capacity of Boiler	8 TPH
3	Stack height	30 m

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Pollution Control Measures

The proposed grain-based distillery will implement Zero Liquid Discharge system with respect to industrial effluent.

Wastewater Generation & Treatment

The spent wash from proposed grain-based distillery will be subjected to decantation to separate out wet cake and 6-7% w/w solid thin slop will be fed to evaporator. The thick syrup @ 35-40% solids after the evaporation will be sent to DWGS drier to produce DDGS at 88-90% w/w solids which will be sold as Cattle feed.

Process condensate from evaporation section will be partly recycled in the process and balance will be treated in Condensate Polishing Unit [CPU]. Treated water will be used in process and cooling water make up. Rejects from the CPU along with other effluents like cooling tower & boiler blowdown, WTP backwash, DM plant reject etc. will be treated in proposed onsite ETP and entirely recycled for cooling water make up.

Air Pollution Source and Control Measures

- To minimize the stack emission load and to comply with the prescribed stack emission standard due to the operation of proposed cogeneration boiler [8 TPH], dust collector and bag filters followed by stack of adequate height will be provided.
- CO₂ produced during fermentation process will be collected, scrubbed, liquefied and sold to end users.
- Diesel generator set [250 KVA] to be used as emergency backup will be provided with stack of adequate height as per CPCB standard.
- All the internal roads will be paved.
- 0.99 acre [33% of the plot area] would be developed as dedicated green area. Approx. 1000 trees will be planted [@2500 trees per ha of green area] and 10 % (100 nos trees) of the same will be earmarked for tree plantation campaign "Ek Ped Ma Ke Naam".

Solid Waste Management

Solid waste	Approx. Quantity	Disposal
ETP sludge	300 kg/day	ETP sludge will be used in green belt development
Boiler ash	17 TPD from coal or 7.5 TPD from biomass	Boiler ash will be sent to local brick manufacturer or cement plant

Baseline Data

Ambient Air Quality Data of the Study Area

- PM₁₀ concentration in the study area varied from 36.6 to 67.2 µg/m³
- PM_{2.5} concentrations in the study area varied from 14.7 to 27.6 µg/m³
- SO₂ concentration in the study area varied from 3.9 to 8.4 µg/m³
- NO₂ concentration in the study area varied from 12.6 to 21.7 µg/m³

Surface Water Quality of the Study area

- pH varies from 7.02 to 7.23
- Dissolved Oxygen varies from 4.5 to 6.3 mg/l.
- BOD varies from 2.5 to 15 mg/l
- COD varies from 16 To 88 mg/l
- Total Dissolved Solids varies from 188 to 436 mg/l.

The above parameters indicate that the surface water of the study area falls under class-E (Irrigation, IndustrialCooling, Controlled Waste disposal) as per CPCB water Quality criteria.

Ground Water Quality of the Study area

- pH varies from 7.40 to 7.76
- Total Hardness varies from 295.2 to 342 mg/l
- Total Dissolved Solids varies from 540 to 690 mg/l
- Calcium varies from 62.80 to 74.5 mg/l
- Magnesium varies from 34.06 to 44.0 mg/l
- Total Alkalinity as CaCO₃ varies from 280 to 350 mg/l
- Chloride varies from 88.6 to 96.4 mg/l
- Sulphate varies from 48.0 to 73.2 mg/l
- Nitrates varies from 6.12 to 10.04 mg/l
- Fluoride varies from 0.24 to 0.32 mg/l
- Toxic Metals: <0.01 mg/l

Groundwater of the study area is well within the permissible limit as per IS 10500: 2012. However, some of the parameters are exceeding the acceptable limits like Total Hardness, Total Alkalinity, Mg, Total Dissolved solids and Chlorides.

Public Hearing Details

The public hearing organized for the proposed project of M/s Maheshwari Carbon Pvt. Ltd., Mauja-Nawadih, Seraikela, District-Seraikela-Kharsawan was chaired by Shri Satendra Mahato, District Supply Officer, Seraikela-Kharsawan as delegated by the DM. Shri Ram Pravesh Kumar, Regional Officer, Jharkhand State Pollution Control Board, Jamshedpur has conducted the public consultation process along with Shri Kundan Kumar Das, JRF (CE), Jharkhand State Pollution Control Board, Headquarters Ranchi. Following points were raised by the participants during public consultation -







Queried Raised during Public Consultation

S. No	Name of the Person	Issues raised	Reply By Project Proponent / Consultant
1.	Shri Gopal Chandra Mahato, Chandrapur	<p>He asked that whether Ethanol would be produced in the project.</p> <p>He further stated that an existing 3 feet drain has been leveled next to the boundary wall of the site which should be made again. That drain has to be functional again. People of three villages should be given employment.</p>	<p>The management said that ethanol would be produced here. People of the three villages will be given priority in employment. Also, the adjacent drain will be rebuilt.</p>
2.	Shri Krishna Das Mahato Timanaya.	<p>He said that now a company is opening in NawadihMauja. Attention to be given to people of Tinmaya, Chandrapur and Nawadih regarding employment, education and health. Also, roads need to be made properly.</p>	<p>The management said that after the company starts operation, work will be done for development of lifestyle, health and education of the village. Such work will be done through the Gram Samity, village committee. People of the three villages will be given priority in employment.</p>
3.	Shri Bhagirath Mahato, Nawadih	<p>He first welcomed the people and then said there should not be pollution from the company. The unemployed should get employment. Women should also get employment.</p>	<p>The management said that pollution control equipment of high technology will be installed for pollution control. People of three villages will be given priority in employment as per qualification.</p>
4.	Shri Dal Gobind Mahato Nawadih	<p>Mr. Mahato said that we were upset after seeing the name of the company. There should not be any damage to the local people & public goods. Local youth should get employment.</p>	<p>The management of the company said that the people of three villages will be given priority in employment. The unit will be operated only after installation of pollution control arrangements. .</p>
5.	Mrs. Dasmi Soren Nawadih.	<p>Since the company is opening here therefore, uneducated people should also get employment. People from all three nearby villages should get employment. Chemical factory</p>	<p>The management said that the people of the three villages will be given priority in employment.</p>

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S. No	Name of the Person	Issues raised	Reply By Project Proponent / Consultant
		should not be set up here.	
6.	Mr. Jhantu Mahato Timanaya.	He said that people of three villages should get employment. He further said that initially it is said that the local will be kept, then removed after a month. Educated, less educated people should also get employment.	The management said that the people of the three villages will be given priority in employment as per qualification. Also, people who are interested will be given training like I.T.I.
7.	Mrs. Rita DevgamNawadih.	She had asked about the source of water.	The management replied that groundwater will be used for which permission will be taken from the CGWA.
8.	Mr. Kamlesh Mahato Tinmaya.	Mr. Mahato said that company should promise in writing that 84 people would be given employment.	The management said that 84 people will be employed in this company. Local people will be given priority as per skill.

No such issues have been raised during public hearing except employment to local people, education and health in nearby villages. As committed by the PP, local people will be given preference in employment based on the skill. Skill development training and provision of medical camps have already included as part of the ESC commitment.

Proposed Enterprise Social Commitment

S. No	Description	Year-wise breakup of the need-based activities in Lakhs				
		1st Year	2nd Year	3rd Year	4th Year	5th Year
1)	ITI training to meritorious Students from Nearby Village	7.2	7.2	7.2	7.2	7.2
2)	Drinking water facility in Nearby village schools	5.8	5.8	5.8	5.8	5.8
3)	Medical Camp in Nearby Villages	9	9	9	9	9
	Total	110 lakhs				

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Enterprise Social Commitment [ESC] of 2.5 % of the project cost (110 Lakhs) has been finalized based on the need-based assessment. The items covered in the ESC also matches the issues raised during the public consultation.

Additionally, CSR activities will be undertaken by the project proponent every year @ 0.5 % of the Yearly profits as per the balance sheet and in compliance with the Companies Act, as applicable.

Environmental Management Plan

EMP Budget during Construction Phase

Component	Recurring Cost (INR/Annum)
Barricading of site	20,00,000
Ambient air management	4,00,000
Wastewater and Solid waste management	30,000
Environment Monitoring and six-monthly compliance	2,00,000
Total	26,30,000

EMP Budget during Operation Phase

S. No	Particulars	Capital in Crores	Recurring Cost (Crore/Annum)
1	Air/Water Pollution Control	1.25	0.15
2	Occupational Health and Safety	0.20	0.05
3	Green Belt Development	0.05	0.03
4	Solid Waste Disposal	0.25	0.05
5	Compliances of PESO, EC and CREP guidelines	0.15	0.05
	Total	1.9	0.33

STATUTORY CLEARANCES:

1	LOI/Lease docs	:	Land for Maheshwari Carbons Private Limited.
2	CO	:	The CO, Saraikela vide letter no. 1226A, dated 09.10.2024 has mentioned the plot no. of the project is not recorded as "Jungle

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		Jhari" in R.S. Khatiyān.
3	DFO Wild Life	: DFO, Dalma Elephant Project vide letter no. 4944, dated 02.12.2024 certified that the proposed project site is outside Eco Sensitive Zone of Dalma Wildlife Sanctuary.
4	DFO Territorial	: DFO, Saraikela Forest Division, Saraikela vide letter no. 1704, dated 21.10.2024 certified that the distance of reserved / protected forest is more than 250 metre from project site.
5	Public Hearing	: JSPCB, Regional Office, Adityapur, Jamshepur vide letter no. 663, dated 16.05.2025 informed that Public Hearing conducted on 28.04.2025.
6	Baseline Monitoring Period	: October, 2024 to December, 2024.

State Level Environment Level Impact Assessment Authority (SEIAA), Jharkhand in its 125th meeting held on 19th & 20th August, 2025 discussed the project proposal along with recommendations made by SEAC in its 125th meeting held on 23rd, 24th, 25th, 26th, 27th and 28th July, 2025 and decided to grant EC to the project.

On the basis of recommendation of SEAC and decision of SEIAA to grant of EC, Environmental Clearance is hereby issued to the "Grain based Distillery to produce Ethanol with installed capacity 40 KLPD under 100% EBP program by M/s Maheshwari Carbons Private Limited at Village : Nawadih, Thana : Saraikela, Thana no. : 292, District : Saraikela-Kharsawan, Jharkhand" alongwith the following specific conditions as recommended by SEAC.

I. Specific Conditions:

- i. This Environmental Clearance is valid subject to the following condition below –
That this project has-
 - a. Obtained all legal rights to operate at concerned place.
 - b. Complied with all existing concerned laws of the land and
 - c. Complied with the decisions of SEIAA on the issue of Environmental Clearance till date.
- ii. **Maximum quantity of Rain Water Harvested shall be used within the plant permises and only surplus RWH water shall be recharged to ground.**
- iii. **No effluent to be discharged out side the plant premises.**
- iv. **In compliance of OM no. F. No. IA3-22/3/2024-IA.III (E-241594) dated 24.07.2024 of MoEF&CC, Govt. of India plantation of saplings shall be carried out in the earmarked green belt area as the part of tree plantation campaign "Ek Ped Ma Ke**

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Naam” and the details of the same shall be uploaded in the MeriLiFE Portal (<https://merilife.nic.in>). 10% of the total green belt proposed shall be allocated under this clause.

- v. Ground water to be drawn for use in the project only after obtaining permission from the Competent Authority.
- vi. Environment management system including organization structure to be drawn to ensure compliance of EC conditions stipulated based on principles of Continual Improvement and periodical management review.
- vii. All raw material to be stored only under covered shed.
- viii. Trees should be developed & maintained not less than 33% of project area.

II. Statutory Compliance:

- i. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1980, in case of the diversion of forest land for non-forest purpose involved in the project.
- ii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- iii. The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (in case of the presence of schedule-I species in the study area).
- iv. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board/ Committee.
- v. The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.
- vi. The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.

III. Air quality monitoring and preservation:

- i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall install system carryout to Ambient Air Quality monitoring for common / criterion parameters relevant to the main pollutants released (e.g. PM₁₀ and PM_{2.5} in reference to PM emission, and SO₂ and NO_x in reference to SO₂ and



- NOx emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120o each), covering upwind and downwind directions. (case to case basis small plants: Manual; Large plants: Continuous).
- iii. The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality /fugitive emissions to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
 - iv. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.
 - v. The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be complied with.
 - vi. Sulphur content should not exceed 0.5% in the coal for use in coal fired boilers to control particulate emissions within permissible limits (as applicable). The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.
 - vii. The DG sets shall be equipped with suitable pollution control devices and the adequate stack height so that the emissions are in conformity with the extant regulations and the guidelines in this regard.
 - viii. Storage of raw materials, coal etc shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.

IV. Water quality monitoring and preservation:

- i. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises (applicable in case of the projects achieving ZLD) and connected to SPCB and CPCB online servers.
- ii. Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises (applicable in case of the projects achieving the ZLD).
- iii. Process effluent/any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system.
- iv. The effluent discharge shall conform to the standards prescribed under the Environment (Protection) Rules, 1986, or as specified by the State Pollution Control Board while granting Consent under the Air/Water Act, whichever is more stringent.
- v. Total fresh water requirement shall not exceed the proposed quantity or as specified by the Committee. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard.
- vi. Industrial/trade effluent shall be segregated into High COD/TDS and Low COD/TDS effluent streams. High TDS/COD shall be passed through stripper followed by MEE and ATFD (agitated thin film drier). Low TDS effluent stream shall be treated in ETP and then passed through RO system.

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- vii. The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial operations within the plant.

V. Noise monitoring and prevention:

- i. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.
- ii. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation.
- iii. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.

VI. Energy Conservation measures:

- i. The energy sources for lighting purposes shall preferably be LED based.

VII. Waste Management:

- i. Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.
- ii. Process organic residue and spent carbon, if any, shall be sent to cement industries ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.
- iii. The company shall undertake waste minimization measures as below:
 - a. Metering and control of quantities of active ingredients to minimize waste.
 - b. Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
 - c. Use of automated filling to minimize spillage.
 - d. Use of Close Feed system into batch reactors.
 - e. Venting equipment through vapour recovery system.
 - f. Use of high pressure hoses for equipment clearing to reduce wastewater generation.

VIII. Green Belt:

- i. Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant.

IX. Safety Public hearing and Human health issues:

- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- ii. The PP shall provide Personal Protection Equipment (PPE) as per the norms of Factory Act.
- iii. Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.

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- iv. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- v. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- vi. There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places.

X. Corporate Environment Responsibility:

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May, 2018, as applicable, regarding Corporate Environment Responsibility.
- ii. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements / deviation/violation of the environmental / forest/wildlife norms/ conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental/forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- iv. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.
- v. Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

XII. Miscellaneous:

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the

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- relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
 - iv. The project proponent shall monitor the criteria pollutants level namely; PM10, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
 - v. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
 - vi. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
 - vii. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
 - viii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
 - ix. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
 - x. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
 - xi. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
 - xii. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
 - xiii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
 - xiv. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
 - xv. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other







orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.

- xvi. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
- xvii. The Prescribed EC is valid as per Notification no. S.O. 1807(E) dated 12.04.2022 of MoEF&CC, Govt. of India.

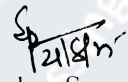
Sd/-
Member Secretary
State Level Environment Impact
Assessment Authority, Jharkhand.

Memo No. : EC/SEIAA/2025-26/3401/2025/ 401

Ranchi, Date: 21-08-2025

Copy to:

1. Secretary, Department of Forests, Environment & Climate Change, Govt. of Jharkhand.
2. Deputy Commissioner, District – Saraikela-Kharsawan, Jharkhand.
3. Divisional Forest Officer, Saraikela Forest Division, Saraikela, Jharkhand.
4. Deputy Conservator of Forest & Field Director Elephant Project, Jamshedpur, Jharkhand.
5. Director IA Division, Monitoring Cell, MoEF and Climate Change, Indira Paryavaran Bhavan, Jorbag Road, Aliganj, New Delhi – 110003.
6. Regional Office, Ministry of Environment, Forest and Climate Change, Govt. of India, 2nd Floor, Jharkhand State Housing Board (HQ), Harmu Chowk, Ranchi, Jharkhand – 834002.
7. Member Secretary, Jharkhand State Pollution Control Board, Ranchi.
8. Member Secretary, Jharkhand State Expert Appraisal Committee, Ranchi.
9. Website.
10. Guard file.


Member Secretary
State Level Environment Impact
Assessment Authority, Jharkhand