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File No: EC/SEIAA/2026-27/4094/2026

State Environment Impact Assessment Authority (SEIAA), Jharkhand

(Constituted as per the provision of EIA Notification, 2006, as amended by the Ministry of Environment, Forest and Climate Change, Government of India)

Dated: **11/07/2026**

To,

SANJAY KUMAR GUPTA
SHEONARAIN JAISWAL PRIVATE LIMITED
SHOP NO. 1 , 2ND FLOOR AKASH COMPLEX , NEAR JMJ SCHOOL DORANDA RANCHI - 834002, Village-Balsiring,Tehsil-Namkum, District-Ranchi, Jharkhand, RANCHI, JHARKHAND, 834002
snjpl1986@gmail.com

Subject: Grant of EC under the provision of the EIA Notification 2006-regarding.

Sir/Madam,

This is in reference to your application for Grant of EC under the provision of the EIA Notification 2006-regarding in respect of project Expansion of Grain Based Distelleray Plant by M/s Sheonarain Jaiswal Private Limited submitted to Ministry vide proposal number SIA/JH/IND2/578882/2026 dated 08/06/2026.

2. The particulars of the proposal are as below:

(i) EC Identification No.	EC26C0000JH5140460N
(ii) File No.	EC/SEIAA/2026-27/4094/2026
(iii) Clearance Type	EC
(iv) Category	B2
(v) Project/Activity Included Schedule No.	5(ga) Grain based distilleries
(vi) Name of Project	Expansion of Grain Based Distelleray Plant by M/s Sheonarain Jaiswal Private Limited
(vii) Name of Company/Organization	SHEONARAIN JAISWAL PRIVATE LIMITED
(viii) Location of Project (District, State)	RANCHI, JHARKHAND
(ix) Issuing Authority	SEIAA
(x) Applicability of General Conditions	no
(xi) Applicability of Specific Conditions	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 and B) were submitted to the Ministry for an appraisal by the State Environment Impact AssessmentAuthority(SEIAA) Appraisal Committee (SEIAA) in the Ministry under the provision of EIA notification 2006 and its subsequent amendments.

4. The above-mentioned proposal has been considered by State Environment Impact AssessmentAuthority(SEIAA) Appraisal Committee of SEIAA in the meeting held on 22/06/2026. The minutes of the meeting and all the Application and documents submitted [(viz. Form-1 Part A, Part B, Part C EIA, EMP)] are available on PARIVESH portal which can be accessed by scanning the QR Code above.

5. The brief about configuration of plant/equipment, products and byproducts and salient features of the project along with environment settings, as submitted by the Project proponent in Form-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 22/06/2026, based on information & clarifications provided by the project proponent and after detailed deliberations recommended the proposal for grant of EC under the provision of EIA Notification, 2006 and as amended thereof subject to stipulation of specific and general conditions as detailed in Annexure (2).

7. The SEIAA has examined the proposal in accordance with the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and after accepting the recommendations of the State Environment Impact AssessmentAuthority(SEIAA) Appraisal Committee hereby decided to grant EC for instant proposal of M/s. SANJAY KUMAR GUPTA under the provisions of EIA Notification, 2006 and as amended thereof.

8. The Ministry reserves the right to stipulate additional conditions, if found necessary.

9. The EC 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. This issues with the approval of the Competent Authority.

Copy To

1. The Member Secretary, CGWA, 18/11 Jamnagar House Man Singh Road, Central, Delhi, cgwa@nic.in
2. The Member Secretary, CPCB, Parivesh Bhawan Cbd-Cum-Office Complex East Arjun Nagar, East, Delhi, mscb.cpcb@nic.in
3. The Monitoring Cell MoEFCC, Compliance & Monitoring Division, Indira Paryavaran Bhawan Jor Bagh Road New Delhi, South, Delhi, moefcc-monitoring@gov.in

Annexure 1

Standard EC Conditions for (Grain based distilleries)

1. Executive Summary

S. No	EC Conditions
1.1	Executive Summary

Additional EC Conditions
N/A

Annexure 2

Details of Products & By-products

Name of the product /By-product	Product / By-product	Existing	Proposed	Total	Unit	Mode of Transport / Transmission
Co-generation Power Plant from 1.775 MW to 5.775 MW	Co-generation Power Plant from 1.775 MW to 5.775 MW	1.775	4	5.775	Mega Watt (MW)	Road
60 KLPD to 195 KLPD (New 135 KLPD Ethanol Plant) AND Co-generation Power Plant from 1.775 MW to 5.775 MW	60 KLPD to 195 KLPD (New 135 KLPD Ethanol Plant) AND Co-generation Power Plant from 1.775 MW to 5.775 MW	60	135	195	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: msseiaa.jhk@gmail.com / website: www.jseiaa.org

सत्यमेव जयते

Letter No. : **EC/SEIAA/2026-27/4094/2026/** Ranchi, Date :

To: **M/s Sheonarain Jaiswal Private Limited,**
Shri Sanjay Kumar Gupta
(Director),
Shop No. 1, 02nd Floor, Akash Complex,
Near JMJ School, North Office Para, Doranda,
District : Ranchi : 834002 (Jharkhand).

Sub. : Environmental Clearance for the project **"Expansion of Grain Based Distillery Plant Project of M/s Sheonarain Jaiswal Pvt. Ltd., Village : Balsiring, Tehsil : Namkum, Distt. : Ranchi, Jharkhand (Proposal No : SIA/JH/IND2/ 578882/2026) – regarding.**

Ref. : Your application no. : Nil, dated : 26.05.2026.

It is in reference to the project **"Expansion of Grain Based Distillery Plant Project of M/s Sheonarain Jaiswal Pvt. Ltd., Village : Balsiring, Tehsil : Namkum, Distt. : Ranchi, Jharkhand"** submitted by you for seeking Environmental Clearances (EC).

This is an expansion project which has been taken for appraisal on 12.06.2026.

Project Sector: 5(g) Distilleries, Category: B2.

Application for Environment Clearance (EC) as per EIA notification, 2006.

The Certified Compliance Report (CCR) of existing EC has been issued by Regional Office, Ranchi, MoEF&CC, Govt. of India vide F. No. 111-26/ROR-2025/220, dated 21.04.2026. In response to the same the PAs have submitted Action Taken Report (ATR) to Regional Office, Ranchi, MoEF&CC, Govt. of India on 26.05.2026 with a copy to SEIAA, Jharkhand.

During the appraisal Action Taken Report was reviewed and certain clarification were sought from PAs which has been provided during the meeting and found to be satisfactory.

M/s Sheonarain Jaiswal Private Limited proposes Expansion of Grain Based Distillery Plant from 60 KLPD to 195 KLPD (New 135 KLPD Ethanol Plant) and Co-generation Power Plant from 1.775 MW to 5.775 MW with latest technology of Multi Pressure Distillation and MSDH for dehydration to achieve good quality Fuel Grade Ethanol.

Proposed production after expansion will be 195 KLPD Grain Based Distillery and 5.775 MW Captive Co-generation Power Plant based on grain such as Corn/Maize, Broken Rice, Sorghum and other starch-based grains as basic raw materials. Other inputs will be water, antifoam agents, nutrients, sulphuric acid, sodium hydroxide and enzymes. Rice Husk/Biomass/Coal will be used as fuel in the boilers.

The Distillery proposes to achieve Zero Liquid Discharge (ZLD) by Decantation, Multi Effect Evaporation (MEE) followed by DWGS/DDGS Dryer. Distiller's Dried Grain with Solubles (DDGS) generated will be used as cattle, poultry and fish feed. The entire spent wash generated shall be treated through Decanter, MEE and Dryer system to achieve Zero Liquid Discharge.

Grain Based Distillery of Sheonarain Jaiswal Pvt. Ltd. (SNJPL) is located at Plot No. 726 (P), Balsiring, TurkaToli, Tupudana, Near Ring Road, P.S. Dhurva, P.O. Hatia, Block Namkum, District Ranchi, Jharkhand having Latitude 23°15'25.89"N and Longitude 85°16'24.30"E at an elevation of about 648 m above MSL. The project site is connected through Ring Road and NH-39. Hatia Railway Station is approximately 7 km away and Birsa Munda Airport is about 8 km away. The total cost of the existing and expansion project is estimated to be Rs. 72.70 Crores (Existing: Rs. 22.00 Crores and Expansion: Rs. 50.70 Crores).

4.36 Ha. (10.77 Acres) of land comprising 3.64 Ha. existing area and 0.72 Ha. Additional area Additional area of Khata No. 123, Khesra No. 726 (P) out of total available land of 10.82 Ha at Village Balsiring, Namkum, Ranchi will be utilized for the expansion project.

Land Details :

Khata no.	Plot no.
123	726 (P)

Manufacturing & Production Details:

Manufacturing Facilities	Product (Existing Capacity)	Expansion Capacity	Production Capacity (Total)
Distillery	Ethanol / ENA 60 KLPD	Ethanol only – 135 KLPD	195 KLPD (60 KLPD ENA/Ethanol & 135 KLPD Ethanol Only)
Power Co-generation	1.775 MW	4.0 MW	5.775 MW
No. Of Days Operation / Annum	350 days		
Distilleries Dry Grain with Solubles (DDGS), & CO_2 will be generated as by-product.			

By-Product	Existing Capacity	Expansion Capacity	Total Generation Capacity
DDGS	30 TPD	68 TPD	98 TPD
CO_2	20 TPD	45 TPD	65 TPD
Fusel Oil	90 Litres/day	200 Litres/day	290Litres/day

Raw Material Requirement:

Item	Existing Quantity	Expansion Quantity	Total Quantity
Maize	162 TPD	346 TPD	508 TPD
Broken Rice	156 TPD	281 TPD	437 TPD
No. Of Days Operation / Annum	350 Days	350 Days	350 Days

Pollution Control Measures:

The proposed expanded Grain Based Distillery Plant will be based on "Zero Liquid Discharge (ZLD)" technology. Fresh water requirement of the project will be met through ground water supplemented by rainwater harvesting. Maximum efforts will be made to conserve water through recycling and reuse of treated streams.
During grain-based operation, Grain Slops (Spent Wash) generated from the distillation section will be passed through centrifuge decanters for separation of suspended solids as Distillers Wet Grains (DWG). The thin slops obtained from the decanter will be partly recycled back to the process and the remaining portion will be concentrated in a Multi Effect Evaporation (MEE) System to produce syrup. The syrup will be mixed with wet cake (DWGS) and dried in a DWGS Dryer to produce Distillers Dried Grains with Solubles (DDGS), which will be utilized as cattle, poultry and fish feed.

Process condensate generated from the evaporation section will be treated in a Condensate Treatment/Condensate Polishing Unit (CPU) and recycled back for process use and cooling tower makeup. Domestic wastewater will be treated in a Sewage Treatment Plant (STP). The plant has been designed with an efficient water recycling system to minimize fresh water consumption through recovery, reuse and recirculation of treated wastewater streams, thereby ensuring compliance with Zero Liquid Discharge requirements.

Waste Water Generation &Treatment:

During grain-based operation, spent wash (grain slops) generated from the distillation section will be subjected to decantation through centrifuge decanters for separation of suspended solids in the form of Wet Cake (DWG). The thin slops obtained from the decanter will be partly

recycled back to the process and the balance will be fed to the Thin Slop Evaporation Plant (Multi Effect Evaporator) for concentration of dissolved solids to form syrup. The syrup will be mixed with the wet cake (DWGS) and subsequently dried in the DWGS Dryer to produce DDGS containing about 90% solids, which will be utilized as cattle, poultry and fish feed.

The process condensate generated from the evaporation section will be treated in the Condensate Treatment/Condensate Polishing Unit (CPU) and recycled back for process use and cooling tower makeup. Boiler blowdown, cooling tower blowdown, DM plant reject, and other utility wastewater streams will be collected and treated in the CPU for recovery and reuse. Treated water will be utilized for process requirements, cooling tower makeup, ash quenching and other plant utilities. Steam condensate generated from the process and boiler system will be recovered and recycled back to the boiler feed system.

The proposed distillery shall operate on a Zero Liquid Discharge (ZLD) basis through decanter, MEE, CPU and DDGS dryer systems, ensuring complete utilization and recycling of wastewater generated within the plant premises.

Air Pollution:

To minimize air pollution load due to the operation of the proposed boilers, an **Electrostatic Precipitator (ESP)** along with adequate stack height as per CPCB norms will be installed to control particulate matter emissions. Fuel storage and handling areas will be properly managed to minimize fugitive dust emissions. An online stack monitoring system will also be installed for continuous monitoring of emissions.

CO_2 generated during the fermentation process will be collected, scrubbed, compressed and sold to beverage and packaging industries. Existing and proposed DG sets will be provided with acoustic enclosures and stacks of adequate height as per CPCB guidelines. Low sulphur diesel shall be used in DG sets.

All internal roads within the plant premises will be paved to minimize dust generation. A green belt covering **1.44 Ha. (33% of the total project area of 4.36 Ha.)** will be developed around the plant boundary and within the premises to attenuate air pollutants, reduce noise levels and improve the overall environmental quality. Regular ambient air quality monitoring will be carried out to ensure compliance with prescribed standards.

Solid Waste Management:

Type of Waste	Existing Quantity	Proposed Quantity	Total Quantity	Storage	Utilization/ Disposal
DDGS – (by product) (Dried distillers' grains with soluble)	30 TPD	68 TPD	98 TPD	Covered shed	Sold as Cattle Feed, Poultry & Fisheries

Ash from boiler	18 TPD	62 TPD	80 TPD	Silo	Sold to authorized Brick Manufacturers
Fusel Oil	90 liters/day	200 Liters/day	290 Liters/ day	HDPE drums in covered shed	Given to authorized TSDFre-cycler
MSW	14 kg/day	5_kg/day	19 kg/day	Wet & Dry dustbins	Will be collected, segregated using twin bin collection system and handed to MSW disposal site.
STP Sludge (5 KLD	2 kg/day	0kg/day	2kg/day	Stored in closed container in a dedicated Place	Will be used as manure for landscaping within premises
ETP Sludge	30 kg/day	68 kg/day	98 kg/day	Stored in the dedicated Place	Will be used as manure for landscaping within premises and excess quantity of manure will be given to local farmers.

Raw Material required along with estimated Quantity, likely source, marketing area of final products, mode of Transport of raw material & finished product.

S. No.	Particular	Existing Quantity	Proposed Quantity	Total Quantity	Storage	Mode of Transportation
1	Grain (Broken Rice/Corn / Maize)	Maize: 162 TPD orBroken Rice: 156 TPD	Maize: 346 TPD orBroken Rice: 281 TPD	Maize: 508 TPD orBroken Rice: 437 TPD	Silo &Godown	Through Grain suppliers by road in covered trucks
Process Chemicals						
1.	Sulphuric Acid	39 Kg/Day	71 Kg/Day	110 Kg/Day	Close containers	From local market by

2.	Sodium Hydroxide	51 Kg/Day	92 Kg/Day	143 Kg/Day	Close bags	roads
3.	Alpha Amylase	45 Kg/Day	101 Kg/Day	146 Kg/Day	Covered containers	
4.	Gluco Amylase	60 Kg/Day	135 Kg/Day	195 Kg/Day	Cold storage	
5.	Micronutrient	45 Kg/Day	101 Kg/Day	146 Kg/Day	Cold storage	
6.	Defoamer / TRO / Silicone	75 Kg/Day	135 Kg/Day	210 Kg/Day	Covered containers	
7.	Active Dry Yeast	60 Kg/Day	135 Kg/Day	195 Kg/Day	Covered containers	
Fuel						
1.	Coal **OR** Rice Husk/Biomass/	72 TPD /OR 90 TPD	178 TPD/ OR 210 TPD	250 TPD/OR310 TPD	Covered trucks	Covered shed
2.	HSD	~50 Litres/Hour/ DG Set	~50 Litres/Hour/ DG Set	~100Litres/Hour/DG Set	Closed tank	Closed tank in covered shed

Water Requirement

Description	Total	Unit
TOTAL WATER INPUTS - FIRST RUN	**2544**	KL/Day
TOTAL WATER OUTPUTS - FIRST RUN	**724**	KL/Day
TOTAL WATER RECYCLE & RE-CIRCULATED	**1086**	KL/Day
FRESH WATER / DAY – DISTILLERY	**508**	KL/Day
FRESH WATER / DAY – POWER PLANT	**226**	KL/Day
DOMESTIC& Green Belt USE	**42**	KL/Day
TOTAL DAILY FRESH WATER	**776**	KL/Day

Table 3.7 Water Balance Sheonarainjaiswal Pvt. Ltd; , Ranchi)

Water Inputs	m3/day		Water recycle	m3/day
Liquefaction	728.0		Flash Condensate	59.0
Fermentation	199.0		Spent lees	133.0

Thin slop for slurry	142.0		Process Condensate	658.0
Cooling Tower	612.0		Thin slop for slurry	142.0
Boiler	799.0		Cooling tower blowdown	40.0
Ash quenching	34.0		Steam Condensate return	573.0
Washings	20.0		Washings	20.0
			Dryer vapour condensate	144.0
			Boiler Blow down	32.00
One time for circulation				
Pump Sealing water	10.0		Pump Sealing water	9.0
Total	**2544.0**		**Total**	**1810.0**
			Fresh water required = (2544-1810)	**734.0**
			Domestic	12.0
			Harvesting	30.0
			Total	**776.0**

Power Requirement and Source:

Total power requirement will be4.5 MW which will be met from in house co-generation power plant of 5.775MW using rice husk/biomass/coal as fuel. For emergency, DG set of 500kVAis existing &1 x500kVA has been proposed. Additional power will be supplied to state grid.

Steam Requirement:

Steam requirement for the expanded 195 KLPD Grain Based Distillery and 5.775 MW Co-generation Power Plant will be sourced from the **existing 18 TPH boiler and proposed 35 TPH boiler (Total Boiler Capacity: 53TPH {18TPH Existing & 35TPH Proposed})** fired with Rice Husk/Biomass/Coal.

S.No.	Steam requirement	Kg/Lit Of Total Spirit
1.	Liquefaction, Distillation, MSDH (Wash to AA mode), Integrated Evaporation, DWGS Dryer	3.93 Kg/Lit of Total Spirit

Boiler Details:

The total steam requirement of the project will be met through the **existing 18 TPH Boiler and proposed 35 TPH Boiler**, resulting in a total installed boiler capacity of **53 TPH**.

Steam Consumption (Dry Saturated)	Proposed Scheme
1. Cooking and Liquefaction	0.55 Kg/lit of TS
2. Distillation	1.52Kg/lit of TS
3. Ethanol	0.52 Kg/lit of TS
4. DWGS Dryer	1.35 Kg/lit of TS
5. Total Steam Requirement	3.93 Kg/lit of TS (With Multi Effect Evaporator and dryer)

Proposed Boiler Details:

The steam requirement for the expanded 195 KLPD Grain Based Distillery and 5.775 MW Co-generation Power Plant will be met through the **existing 18 TPH boiler and proposed 35 TPH boiler**, resulting in a total installed boiler capacity of **53 TPH**. The boilers will be fired using Rice Husk/Biomass/Coal. **Electrostatic Precipitators (ESP)** along with adequate stack heights as per CPCB & JSPCB guidelines will be provided to control particulate emissions.

Details regarding proposed boiler are mentioned in the table given below:

Proposed Boiler Details

S. No.		Existing	Proposed	Total
1.	Type of Fuel	Rice Husk/Biomass/Coal	Rice Husk/Biomass/Coal	Rice Husk/Biomass/Coal
2.	Capacity of Boiler	**18 TPH**	**35 TPH**	53 TPH
3.	Stack Height	**33.7 m**	**45 m**	**Existing Stack: 33.7 m and ProposedStack : 45 m**
4.	Pollution Control Equipment Measures	Bag Filters	ESP	Bag Filters for Existing and ESP for Proposed

Waste Water Generation &Treatment:

During grain-based operation, Grain Slops (Spent Wash) generated from the distillation section will be passed through centrifuge decanters for separation of suspended solids as Wet Cake (Distillers Wet Grains - DWG). Thin Slops obtained from the decanter will be partly recycled back to the process (20–35%) and the balance will be fed to the Thin Slop Evaporation Plant (Multi Effect Evaporator) for concentration of solids to produce syrup. The syrup will be mixed with Wet Cake (DWGS) and dried in the DWGS Dryer to produce Distillers Dried Grains with Solubles (DDGS), which will be utilized as cattle, poultry and fish feed.

Process condensate generated from the evaporation section will be treated in the Condensate Polishing Unit (CPU) and recycled back for process use and cooling tower makeup. Boiler blowdown, cooling tower blowdown, DM plant reject and other utility wastewater streams will also be collected and treated in the CPU for recovery and reuse. Treated water will be utilized for process requirements, cooling tower makeup, ash quenching and other utility purposes. Steam condensate generated from the process shall be recovered and recycled back to the boiler feed system.

The proposed distillery shall operate on a **Zero Liquid Discharge (ZLD)** basis through Decanter, Multi Effect Evaporator (MEE), Condensate Polishing Unit (CPU) and DDGS Dryer systems, ensuring complete utilization and recycling of wastewater generated within the plant premises.

STATUTORY CLEARANCES :

1	Land docs	:	Land for SNJPL project is registered in the name of SNJPL.
2	CO	:	The CO, Namkum (Ranchi) vide letter no. 320 (ii), dated 10.02.2023 has mentioned the plot no. of the project is not recorded as "Jungle Jhari" in R.S. Khatiyan& Register II.
3	DFO Wild Life	:	DFO, Wildlife Division, Ranchi vide letter no. 1081, dated 06.12.2021 certified that the proposed project site is outside Eco Sensitive Zone of Palkot Wildlife Sanctuary.
4	DFO Territorial	:	DFO, Ranchi vide letter no. 5286, dated 27.12.2022 certified that the distance of reserved / protected forest is more than 250 meters from project site.
5	CGWA	:	No Objection Certificate for Ground Water Abstraction issued by CGWA vide NOC no. CGWA/NOC/IND/ORIG/2022/15295, dated 21.04.2022 valid up to 20.04.2025. The renewal application for the said NOC has already been submitted to CGWA.
6	Public Hearing	:	Public Hearing conducted by JSPCB on 26.08.2023.
7	Previous Environmental Clearance (EC)	:	Previous EC granted by SEIAA, Jharkhand vide letter no. EC/ SEIAA /2022-23/2737/2023/289, dated 06.10.2023 under violation category.
8	Certified Compliance Report (CCR)	:	Compliance Report of previous EC certified by Regional Office, Ranchi, MoEF&CC, Govt. of india vide F.No. 111-26/ROR-2025/220, dated 21.06.2026.
9	Fire Department	:	Fire Advisory has been issued by Fire Department, Jharkhand, Ranchi, vide memo no. 7392/Tech./2023, dated 31.12.2023.
10	Consent to Establish (CTE)	:	CTE issued by JSPCB vide Ref. No. JSPCB/HO/RNC/CTE-17368088/2023/728, dated 30.12.2023.
11	Consent to Operate (CTO)	:	CTO issued by JSPCB vide Ref. No. JSPCB/HO/RNC/CTO-20514533/2025/567, dated 23.03.2025 valid up to 31.12.2026.

State Level Environment Level Impact Assessment Authority (SEIAA), Jharkhand in its **132nd** meeting held on **22nd, 23rd & 24th June, 2026** discussed the project proposal along with recommendations made by SEAC in its **132nd** meeting held on **09th, 10th, 11th, 12th, 13th, 14th and 15th June, 2026** 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 **"Expansion of Grain Based Distillery Plant Project of M/s Sheonarain Jaiswal Pvt. Ltd., Village : Balsiring, Tehsil : Namkum, Distt. : Ranchi, 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. **The directions proscribed and prescribed in the Office Memorandum No. FC-11/119/2020-FC, Dated : 17th May, 2022 of MoEF&CC shall be strictly adhered to.**

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 "*Ek Ped Ma Ke 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.**

iv. **In compliance of S.O. No. 2339(E), dated 16.06.2021 issued by MoEF&CC, Govt. of India the Ethanol produced based on this EC will completely be used only for Ethanol blending petrol.**

v. **In compliance of OM File No. Q-15012/2/2022-CPW-Part(1)/e-240741, dated 14.01.2025 and File No. Q-15012/2/2022-CPW9Part-I)/e-231973, dated 08.10.2025, the PAs will mandatorily obtain the Environmental Safeguard to be implemented or Expansion CTE from Jharkhand State Pollution Control Board, if applicable.**

vi. **PAs is directed to comply all the commitment made in Action Taken Report (ATR) and time bound manner and proof of the same shall be submitted with details and evidence in next Half Yearly Compliance Report of issued EC.**

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. PM_{10} and $PM_{2.5}$ in reference to PM emission, and S02 and NOx in reference to S02 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.

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.

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 approve 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 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, S02, NOx (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/2026-27/4094/2026/** 97 Ranchi, Date: 06.07.2026

Copy to:

1. Secretary, Department of Forests, Environment & Climate Change, Govt. of Jharkhand.
2. Deputy Commissioner, District – Ranchi, Jharkhand.
3. Divisional Forest Officer, Ranchi Forest Division, Ranchi, Jharkhand.
4. Divisional Forest Officer, Wildlife Division, Ranchi, Jharkhand.
5. Director IA Division, Monitoring Cell, MoEF and Climate Change, Indira Paryavaran Bhavan, Jorbag Road, Aliganj, New Delhi – 110003.
6. Regional Office, Ranchi, Ministry of Environment, Forest and Climate Change, 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.

3/7/26
Member Secretary
State Level Environment Impact
Assessment Authority, Jharkhand

Signature Not Verified

Digitally Signed by : Smt Smitha Pankaj
Member Secretary, SEIAA

Date: 11/07/2026