

### State Level Environment Impact Assessment Authority, Jharkhand

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Letter No.-EC/SEIAA/2022-23/2737/2023

Ranchi, Date:

To: Shri Sanjay Kumar Gupta (Director),

> M/s Sheonarain Jaiswal Private Limited, Shop No. 1, 02<sup>nd</sup> Floor, Akash Complex,

Near JMJ School, North Office Para, Doranda

District - Ranchi, Jharkhand - 834002.

Sub: Prescribing of ToR to "Grain Based Distillery with Cogeneration Plant of M/s

Sheonarain Jaiswal Pvt. Ltd. at Village :Balsiring, Tehsil : Namkum, Distt. :

Ranchi, Jharkhand" (Proposal No.: SIA/JH/IND2/415276/2023) - regarding.

Ref: Your application no.- Nil, dated – 14.02.2023.

Sir.

It is in reference to the project "Grain Based Distillery with Cogeneration Plant of M/s Sheonarain Jaiswal Pvt. Ltd. at Village :Balsiring, Tehsil : Namkum, Distt. : Ranchi, Jharkhand" submitted by you for seeking Terms of Reference (ToR).

This is a violation project which has been taken for appraisal on 22.02.2023 in the light of OM no. F.No.22-21/2020-IA.III[E 138949] dated 28.01.2022 of MoEF&CC, Govt. of India, order passed by Hon'ble Apex Court in the matter of civil appeal no. 7576-7577 of 2021 in Electrosteel Steels Ltd. vs Union of India and SOS vide OM no. F.No. 22-21/2020-IA.III dated 07.07.2021 issued by MoEF&CC, Govt. of India.

The proposal was considered by the committee to determine the "Terms of Reference (ToR)" for undertaking detailed EIA study for the purpose of obtaining environmental clearance in accordance with the provisions of the EIA Notification, 2006 and amendments thereafter. For this purpose the Project Proponent has submitted the prescribed Form - I & PFR. The proposed project falls under item 5 (g) Distilleries as per EIA Notification, 2006.

SNJPL proposed to set up an Greenfield Grain based distillery of 60 KLD capacity alongwith 1.775 MW Power Plant with latest technology of Multi Pressure Distillation and MSDH for dehydration to achieve good quality of Fuel grade Ethanol.

Proposed production of 60 KLD distillery with 1.775 MW captive Power Generation plant will be based on grain such as Corn/Maize, Broken rice and the Spoiled Grain as basic raw materials. Other inputs will be water, antifoam agents, Urea, H2SO4 and enzymes. Rice husk/Biomass /Bagasse/Coal will be used as fuel in Boiler.

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The Distillery proposes to achieve Zero Liquid Discharge by Decantation, Multi Effect Evaporation (MEE) followed by dryer to form Distiller's Grain Solids with Solubles (DDGS), which will be used as cattle/fish Feed. The entire spent wash will be used to achieve Zero Liquid Discharge.

Grain Based Distillery of Sheonarain Jaiswal Pvt. Ltd. (SNJPL), is proposed at Plot No. 726 (P), Balsiring, Turka Toli, Tupudana, Near Ring Road, PS- Dhurva, P.O. Hatia, Block Namkum in District Ranchi, Jharkhand having Latitude 23°15'25.89"N & Longitude 85°16'24.30"E at 648 m. above MSL. The Project Site is connected to NH-75 via Ring Road. It is about 10 kms. from district head quarter at Ranchi and is well connected by NH – 75. SNJPL is about 7 Km. (SSE) from Hatia Railway Station on Netaji S.C.Bose Gomoh–Hatia Sec. of SER. Total cost of the proposed SNJPL distillery project is estimated to be Rs. 22 Crores.

3.64 Ha. (8.99 Acres) of land of Khata No. 123, Khesra No. 726 will be utilized for proposed grain based distillery project out of total available land of 10.82 ha. (26.74 Acres) in Khata No. 123, Khesra Nos. 726 & 576 of Balsiring, Namkum, Ranchi.

#### **Land Details:**

Khata no.	Plot no.
123	726 (P)

### Manufacturing & Production Details:

Manufacturing Facilities	Product	Production Capacity
Distillery	Ethanol / ENA	60 KLPD
Power Co-generation	Power	1.775 MW
No. Of Days Operation / Annum		350 days
Distilleries Dry Grain with Solubles (DDGS), & CO <sub>2</sub> will be generated as by product.		
By-Product		Generation Capacity
DDGS	30 TPD	
CO <sub>2</sub>	20 TPD	
Fusel Oil	90 Ltrs. / day	

### Raw Material Requirement:

Item	Raw Material Requirement
Maize / Broken Rice	162 TPD / 156 TPD
No. Of Days Operation / Annum	350 days

### **Pollution Control Measures:**

The proposed Grain based distillery will be based on "Zero Liquid Discharge". Fresh water requirement of the project will be met by Ground Water. Efforts will be made to conserve as much water as possible by recycling and reuse. Spent wash generated during Grain operation,

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would be decanted by centrifuge decanter to obtain Distiller's Wet Grains with Soluble (DWGS), and the concentrate (Thin Slop) is concentrated (DGSS) in Multi-effect evaporator and then mixed with DWGS and dried in Rotary Dryer to form Dried Distiller's Grain with Soluble (DDGS) and used as Cattle feed/Poultry/Fish. Process condensate from MEE will be treated and recycled back in the process. Closed water recycle system and plant process is designed to minimize fresh water requirement by recycling various effluents after treatment.

### Waste Water 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 would then fed to DWGS drier to produce DDGS at 88-90% w/w solids which will be sold as Cattle feed. The boiler blow down, DM plant, softener regeneration water will be treated in a neutralization tank and after treatment it will be used as cooling water makeup water.

Process condensate from evaporation section will be partly recycled and balance will be treated in process condensate treatment plant, treated water will be used as dilution water in slurry preparation and as cooling water makeup water and steam condensate will be recycled back to the boiler.

#### **Air Pollution:**

To minimize air pollution load due to operation of proposed boilers of SNJPL Bag Filters with stack of adequate height will be installed with the boiler to control the particulate and gaseous emissions due to combustion of fuel. CO<sub>2</sub> produced during the fermentation process will be collected and utilized as an industrial gas or bottled and sold. Diesel Generator (DG) Sets with acoustic enclosures will also have adequate stack height as per Central Pollution Control Board (CPCB) Guidelines. All the internal roads will be asphalted. Development of Green Belt ( in 1.21 Ha. 33 % of total project area) around the periphery and within the premises of the plant will help in attenuating the pollutants emitted by the plant.

### **Solid Waste Management:**

Solid waste	Quantity	Disposal
ETP sludge	30 kg/day	Used as manure
Boiler ash	18 TPD	Rice Husk Ash will be sold to cement manufactures/ceramic industry.  Ash of Coal will be sold to fly ash bricks manufacturing unit.

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	Requirements
1.	Grain (MT/day)	Maize: 162 TPD Broken Rice: 156 TPD
2.	Fresh Water (KLPD)	340

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3.	Electricity	1.775 MW
4.	Fuel	
5.	Rice husk / Biomass / Coal	90 TPD / 72 TPD
6.	Enzymes -Alpha Amylase (1-4) -Amyloglucosidase(1-6)	45 Kg/day 60 Kg/day
7.	Chemicals Sulphuric Acid Sodium Hydroxide NH <sub>2</sub> -CO-NH <sub>2</sub> (Nutrients) Antifoam Agent Dry Yeast	39 Kg /day 51 Kg /day 45 Kg /day 75 Kg /day 1 Kg/KL of spirit production

## Water Requirement

TOTAL WATER INPUT (KL)	TOTAL WATER OUTPUT (KL)		
Process water in fermentation		Steam condensate	145
DM water for boiler feed		Water in Spent wash	315
Soft water for vaccum pump and others		Thin Slope	80
Soft water makeup for cooling tower		CT evaporation and drift	150
	15	losses	130
Water in Grain		Boiler (Deaerator, Blowdown, drain) Losses	30
Miscellaneous Washing (Provisional)		Vaccum pump sealing / purge	5
		Miscellaneous Washing	5
TOTAL	730	(Provisional)	
		TOTAL	730

RECYCLE and UTILIZATION STREAMS (KL)			
Steam Condensate recycle for boiler	125 KLD		
Thin slop recycle Slurry preparation and Liquefaction section	50 KLD		
Process condensate recycle to process and CT	35 KLD		
Vaccum pump water recirculation	30 KLD		
Treated WW	175 KLD		
Recycling/ re-utilization of water per day (Industrial Purposes)	400 KLD		
Recycling/ re-utilization of water per day (Green Belt)	15 KLD		
Total Recycling/ re-utilization of water per day 415			
Fresh Water requirement for <b>Distillery</b>	300 KLD		
Fresh Water for Cooling Tower Make-up Cogeneration Plant	20 KLD		
Total Industrial Fresh Water Requirement	320 KLD		
Domestic Use	10 KLD		
Overall Fresh Water Requirement	330 KLD		

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### Power Requirement and Source:

The Unit's own Power cogeneration will be 1.775 MW generation which will be used for captive power requirement. DG sets will be used in case of emergency.

### **Steam Requirement:**

Steam requirement will be sourced from proposed 18 TPH Rice husk / Bagasse / Biomass / Coal fired boiler.

S.No.	Steam requirement	Kg/Lit Of Total Spirit
1.	Liquefaction, Distillation, MSDH (Wash to AA mode), Integrated Evaporation, DWGS Dryer	3.5 to 3.8 Kg/Lit of Total Spirit

#### **Boiler Details:**

Steam requirement is 15 TPH, which will be sourced from proposed 18 TPH Boiler.

Steam Consumption (Dry Saturated)	Proposed Scheme
1. Cooking and Liquefaction	0.6 Kg/lit of TS
2. Distillation	1.7 Kg/lit of TS
3. Ethanol	0.6 Kg/lit of TS
4. DWGS Dryer	1.6 Kg/lit of TS
5. Total Steam Requirement	4.5 Kg/lit of TS
	(With Multi Effect Evaporator and
	dryer)

### **Proposed Boiler Details:**

HP Boiler of 18 TPH capacity alongwith Bag Filter as Air Pollution Control Equipment followed by adequate Stack height will be installed as per CPCB & 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 18 TPH
3. Stack Height 33.7 m
4. Pollution Control Equipment Measures Bag Filters

### Waste Water 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 would then fed to DWGS drier to produce DDGS at 88-90% w/w solids which will be sold as Cattle feed.

The boiler blow down, DM plant, softener regeneration water will be treated in a neutralization tank and after treatment it will be used as cooling water makeup water. Process condensate from evaporation section will be partly recycled and balance will be treated in process condensate

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treatment plant, treated water will be used as dilution water in slurry preparation and as cooling water makeup water and steam condensate will be recycled back to the boiler.

### **STATUTORY CLEARANCES:**

1	LOI/Lease docs	:	Land for SNJPL project is registered in the name of SNJPL.
2	СО	•	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 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 Forest Distance	•	DFO, Ranchi vide letter no. 5286, dated 27.12.2022 certified that the distance of reserved / protected forest is more than 250 metre 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

### During the presentation the following documents were sought:

- i. Duly signed Land document to be provided.
- ii. Affidavit regarding initiation and closure of construction & installation activity to be submitted.
- iii. Declaration of baseline data generation period to be provided.
- iv. Work order related to EIA / EMP report to be provided.

## The Project Authorities have submitted the above mentioned documents.

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its 101<sup>st</sup> meetings held during 20<sup>th</sup>, 21<sup>st</sup>, 22<sup>nd</sup>, 23<sup>rd</sup> and 24<sup>th</sup> February, 2023, the Committee recommends for issuing of TOR for consideration of SEIAA for undertaking detailed EIA / EMP study and alongwith the following specific conditions as recommended by SEAC. SEIAA, Jharkhand has approved the ToRs in its 102<sup>nd</sup> meeting held on 17<sup>th</sup> & 18<sup>th</sup> March, 2023.

### The TORs prescribed for undertaking detailed EIA study are as follows:

- A. Standard Terms of Reference
- 1. Executive Summary
- 2. Introduction

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- i. Details of the EIA Consultant including NABET accreditation.
- ii. Information about the project proponent.
- iii. Importance and benefits of the project.

### 3. Project Description

- i. Cost of project and time of completion.
- ii. Products with capacities for the proposed project.
- iii. If expansion project, details of existing products with capacities and whether adequate land is available for expansion, reference of earlier EC if any.
- iv. List of raw materials required and their source along with mode of transportation.
- v. Other chemicals and materials required with quantities and storage capacities
- vi. Details of Emission, effluents, hazardous waste generation and their management.
- vii. Requirement of water, power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contract)
- viii. Process description along with major equipments and machineries, process flow sheet (quantative) from raw material to products to be provided.
- ix. Hazard identification and details of proposed safety systems.
- x. Expansion/modernization proposals:
  - a. Copy of all the Environmental Clearance(s) including Amendments thereto obtained for the project from MOEF/SEIAA shall be attached as an Annexure. A certified copy of the latest Monitoring Report of the Regional Office of the Ministry of Environment and Forests as per circular dated 30th May, 2012 on the status of compliance of conditions stipulated in all the existing environmental clearances including Amendments shall be provided. In addition, status of compliance of Consent to Operate for the ongoing / existing operation of the project from SPCB shall be attached with the EIA-EMP report.
  - b. In case the existing project has not obtained environmental clearance, reasons for not taking EC under the provisions of the EIA Notification 1994 and/or EIA Notification, 2006 shall be provided. Copies of Consent to Establish/No Objection Certificate and Consent to Operate (in case of units operating prior to EIA Notification 2006, CTE and CTO of FY 2005-2006) obtained from the SPCB shall be submitted. Further, compliance report to the conditions of consents from the SPCB shall be submitted.

### 4. Site Details

- i. Location of the project site covering village, Taluka/Tehsil, District and State. Justification for selecting the site, whether other sites were considered.
- ii. A toposheet of the study area of radius of 10km and site location on 1:50,000/1:25,000 scale on an A3/A2 sheet. (including all eco-sensitive areas and environmentally sensitive places).
- iii. Details w.r.t. option analysis for selection of site
- iv. Co-ordinates (lat-long) of all four corners of the site. .
- v. Google map-Earth downloaded of the project site.

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- vi. Layout maps indicating existing unit as well as proposed unit indicating storage area, plant area, greenbelt area, utilities etc. If located within an Industrial area/Estate/Complex, layout of Industrial Area indicating location of unit within the Industrial area/Estate.
- vii. Photographs of the proposed and existing (if applicable) plant site. If existing, show photographs of plantation/greenbelt, in particular.
- viii. Landuse break-up of total land of the project site (identified and acquired), government/ private agricultural, forest, wasteland, water bodies, settlements, etc shall be included. (not required for industrial area)
- ix. A list of major industries with name and type within study area (10km radius) shall be incorporated. Land use details of the study area
- x. Geological features and Geo-hydrological status of the study area shall be included.
- xi. Details of Drainage of the project upto 5km radius of study area. If the site is within I km radius of any major river, peak and lean season river discharge as well as flood occurrence frequency based on peak rainfall data of the past 30 years. Details of Flood Level of the project site and maximum Flood Level of the river shall also be provided. (mega green field projects)
- xii. Status of acquisition of land. If acquisition is not complete, stage of the acquisition process and expected time of complete possession of the land.
- xiii. R&R details in respect of land in line with state Government policy.

## 5. Forest and Wildlife related issues (if applicable):

- i. Permission and approval for the use of forest land (forestry clearance), if any, and recommendations of the State Forest Department. (if applicable).
- ii. Landuse map based on High resolution satellite imagery (GPS) of the proposed site delineating the forestland (in case of projects involving forest land more than 40 ha)
- iii. Status of Application submitted for obtaining the stage I forestry clearance along with latest status shall be submitted.
- iv. The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of Wild Animals, the project proponent shall submit the map duly authenticated by Chief Wildlife Warden showing these features vis-à-vis the project location and the recommendations or comments of the Chief Wildlife Warden-thereon
- v. Wildlife Conservation Plan duly authenticated by the Chief Wildlife Warden of the State Government for conservation of Schedule I fauna, if any exists in the study area
- vi. Copy of application submitted for clearance under the Wildlife (Protection) Act, 1972, to the Standing Committee of the National Board for Wildlife.

### 6. Environmental Status:

- i. Determination of atmospheric inversion level at the project site and site-specific micro- meteorological data using temperature, relative humidity, hourly wind speed and direction and rainfall.
- ii. AAQ data (except monsoon) at 8 locations for PM10, PM2.5, SO2, NOX, CO and other parameters relevant to the project shall be collected. The monitoring stations

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- shall be based CPCB guidelines and take into account the pre-dominant wind direction, population zone and sensitive receptors including reserved forests.
- iii. Raw data of all AAQ measurement for 12 weeks of all stations as per frequency given in the NAQQM Notification of Nov. 2009 along with min., max., average and 98% values for each of the AAQ parameters from data of all AAQ stations should be provided as an annexure to the EIA Report.
- iv. Surface water quality of nearby River (100m upstream and downstream of discharge point) and other surface drains at eight locations as per CPCB/MoEF & CC guidelines.
- v. Whether the site falls near to polluted stretch of river identified by the CPCB/MoEF & CC, if yes give details.
- vi. Ground water monitoring at minimum at 8 locations shall be included.
- vii. Noise levels monitoring at 8 locations within the study area.
- viii. Soil Characteristic as per CPCB guidelines.
  - ix. Traffic study of the area, type of vehicles, frequency of vehicles for transportation of materials, additional traffic due to proposed project, parking arrangement etc.
  - x. Detailed description of flora and fauna (terrestrial and aquatic) existing in the study area shall be given with special reference to rare, endemic and endangered species. If Schedule- I fauna are found within the study area, a Wildlife Conservation Plan shall be prepared and furnished.
- xi. Socio-economic status of the study area.

### 7. Impact and Environment Management Plan:

- i. Assessment of ground level concentration of pollutants from the stack emission based on site-specific meteorological features. In case the project is located on a hilly terrain, the AQIP Modelling shall be done using inputs of the specific terrain characteristics for determining the potential impacts of the project on the AAQ. Cumulative impact of all sources of emissions (including transportation) on the AAQ of the area shall be assessed. Details of the model used and the input data used for modelling shall also be provided. The air quality contours shall be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any.
- ii. Water Quality modelling in case of discharge in water body.
- iii. Impact of the transport of the raw materials and end products on the surrounding environment shall be assessed and provided. In this regard, options for transport of raw materials and finished products and wastes (large quantities) by rail or rail-cum road transport or conveyor- cum-rail transport shall be examined.
- iv. A note on treatment of wastewater from different plant operations, extent recycled and reused for different purposes shall be included. Complete scheme of effluent treatment. Characteristics of untreated and treated effluent to meet the prescribed standards of discharge under E(P) Rules.
- v. Details of stack emission and action plan for control of emissions to meet standards.

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- vi. Measures for fugitive emission control.
- vii. Details of hazardous waste generation and their storage, utilization and management. Copies of MOU regarding utilization of solid and hazardous waste in cement plant shall also be included. EMP shall include the concept of waste-minimization, recycle / reuse / recover techniques, Energy conservation, and natural resource conservation.
- viii. Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 2009. A detailed plan of action shall be provided.
- ix. Action plan for the green belt development plan in 33 % area i.e. land with not less than 1,500 trees per ha. Giving details of species, width of plantation, planning schedule etc. shall be included. The green belt shall be around the project boundary and a scheme for greening of the roads used for the project shall also be incorporated.
- x. Action plan for rainwater harvesting measures at plant site shall be submitted to harvest rainwater from the roof tops and storm water drains to recharge the ground water and also to use for the various activities at the project site to conserve fresh water and reduce the water requirement from other sources.
- xi. Total capital cost and recurring cost/annum for environmental pollution control measures shall be included.
- xii. Action plan for post-project environmental monitoring shall be submitted.
- xiii. Onsite and Offsite Disaster (natural and Man-made) Preparedness and Emergency Management Plan including Risk Assessment and damage control. Disaster management plan should be linked with District Disaster Management Plan.

### 8. Occupational health:

- i. Plan and fund allocation to ensure the occupational health & safety of all contract and casual workers.
- ii. Details of exposure specific health status evaluation of worker. If the workers' health is being evaluated by pre designed format, chest x rays, Audiometry, Spirometry, Vision testing (Far & Near vision, colour vision and any other ocular defect) ECG, during pre placement and periodical examinations give the details of the same. Details regarding last month analyzed data of above mentioned parameters as per age, sex, duration of exposure and department wise.
- iii. Details of existing Occupational & Safety Hazards. What are the exposure levels of hazards and whether they are within Permissible Exposure level (PEL). If these are not within PEL, what measures the company has adopted to keep them within PEL so that health of the workers can be preserved,
- iv. Annual report of heath status of workers with special reference to Occupational Health and Safety.

### 9. Corporate Environment Policy:

i. Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.







- ii. Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions? If so, it may be detailed in the EIA.
- iii. What is the hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the environmental clearance conditions? Details of this system may be given.
- iv. Does the company have system of reporting of non compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism shall be detailed in the EIA report.
- 10. Details regarding infrastructure facilities such as sanitation, fuel, restroom etc. to be provided to the labour force during construction as well as to the casual workers including truck drivers during operation phase.

## 11. Enterprise Social Commitment (ESC)

- i. Adequate funds (at least 2.5 % of the project cost) shall be earmarked towards the Enterprise Social Commitment based on Public Hearing issues and item-wise details along with time bound action plan shall be included. Socio-economic development activities need to be elaborated upon.
- 12. Any litigation pending against the project and/or any direction/order passed by any Court of Law against the project, if so, details thereof shall also be included. Has the unit received any notice under the Section 5 of Environment (Protection) Act, 1986 or relevant Sections of Air and Water Acts? If so, details thereof and compliance/ATR to the notice(s) and present status of the case.
- 13. A tabular chart with index for point wise compliance of above TOR.

# B. SPECIFIC TERMS OF REFERENCE FOR EIA STUDIES FOR DISTILLERIES:

- 1. List of existing distillery units in the study area along with their capacity and sourcing of raw material.
- 2. Number of working days of the distillery unit.
- 3. Details of raw materials such as molasses/grains, their source with availability.
- 4. Details of the use of steam from the boiler.
- 5. Surface and Ground water quality around proposed spent wash storage lagoon, and compost yard.
- 6. Plan to reduce spent wash generation within 6-8 KL/KL of alcohol produced.
- 7. Proposed effluent treatment system for molasses/grain based distillery (spent wash, spent lees, condensate and utilities) as well as domestic sewage and scheme for achieving zero effluent discharge (ZLD).
- 8. Proposed action to restrict fresh water consumption within 10 KL/KL of alcohol production.
- 9. Details about capacity of spent wash holding tank, material used, design consideration. No. of peizometers to be proposed around spent wash holding tank.





- 10. Action plan to control ground water pollution.
- 11. Details of solid waste management including management of boiler ash, yeast, etc. Details of incinerated spent wash ash generation and its disposal.
- 12. Details of bio-composting yard (if applicable).
- 13. Action plan to control odour pollution.
- 14. Arrangements for installation of continuous online monitoring system (24x7 monitoring device).

## C. Other Condition: (Specific Condition)

- 1. The State Govt. / SPCB to take action against the project proponent under the provisions of section 19 of the Environment (Protection) Act, 1986.
- 2. The project proponent shall be required to submit a bank guarantee equivalent to the amount of remediation plan and natural and community resource augmentation plan with the SPCB prior to the grant of EC. The quantum shall be recommended by the SEAC and finalized by the regulatory authority. The bank guarantee shall be released after successful implementation of the EMP, followed by recommendations of the SEAC and approval of the regulatory authority.
- 3. Assessment of ecological damage with respect to air, water, land and other environmental attributes. The collection and analysis of data shall be done by an environmental laboratory duly notified under the Environment (Protection) Act, 1986, or an environmental laboratory accredited by NABL, or a laboratory of a Council of Scientific and Industrial Research (CSIR) institution working in the field of environment.
- 4. Preparation of EMP comprising remediation plan and natural and community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation.
- 5. An assessment of the cumulative impact of all development and increased in habitation being carried out or proposed to be carried out by the project or other agencies in the core area, shall be made for traffic densities and parking capabilities in a 2 kms radius from the site. A detailed traffic management and a traffic decongestion plan drawn up throughan organization of repute and specializing in Transport Planning shall be summitted withthe EIA and the plan to be implemented to the satisfaction of all the concerned state departments and implementing agencies".
- 6. Management of solid waste and the Construction & Demolition waste for the project vis- a-vis the Solid Waste Management Rules, 2016 and the Construction & Demolition Rules, 2016.
- 7. Details of all construction input should be furnished for assessment of Ecological damage/Environmental damage.
- 8. The remediation plan and the natural and community resource augmentation plan to be prepared as an independent chapter in the EIA report by the accredited consultants.







- 9. Funds allocation for Corporate Environment Responsibility (CER) shall be made as per Ministry's O.M. No. 22-65/ 2017-IA.III dated May, 2018 for various activities therein. The details of fund allocation and activities for CER shall be incorporated in EIA/EMP report.
- 10. The Prescribed ToRs is valid as per O.M. F. No. IA3-22/10/2022-IA.III[E177258], dated 08.06.2022 of MoEF & CC. Govt. of India.

Sd/-

Member Secretary State Level Environment Impact Assessment Authority, Jharkhand.

Memo No.-EC/SEIAA/2022-23/2737/2023/ 470.

Dated: 24.03.2023.

### Copy to:

- 1. Member Secretary, Jharkhand State Pollution Control Board, Ranchi for information and necessary action.
- 2. Secretary, SEAC, Jharkhand, Ranchi for information and necessary action.

Member Secretary
State Level Environment Impact
Assessment Authority, Jharkhand

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