

**Six-Monthly Environmental Compliance Report
Against Stipulated Conditions of Environmental Clearance
(October 2022 to March 2023)**

FOR

**GRAN BASED ETHANOL (BIO FUEL) PLANT (100 KLPO) ALONG
WITH COGENERATION POWER PLANT (4 MW)
AT VILLAGE-SAHARAWALI TEHSIL - CHHATA,
DISTRICT - BATHURA, U.P**

BY

WS ALLIANZ DISTILLERY LTD

EC Identification No. - 01/2020/0001/000019

File No. - 01/2020/0001/000019/001

Date of Issue - 01/11/2020

Submitted to:

UP State Level Environment Impact Assessment Authority

Submitted by:

WS Allianz Distillery Ltd

June, 2023

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CHAPTER 1

INTRODUCTION AND PROJECT DESCRIPTION

1.1 INTRODUCTION

M/s. Ethos Distillery Ltd. (EDL) has planned to set up a new state-of-the-art grain based 100 Mtpd distillery (Ethanol production) plant with 3.0 mw cogeneration (zero liquid discharge) along with 3.0 MW cogeneration power generation located at village Baharawal, Tehsil - Chhota, District Mathura, Uttar Pradesh. The main product, Ethanol, will be sold to fuel oil marketing companies under Ethanol Blended Petrol Program of the Government of India.

According to the MoEF&CC notification S. No. 120602 dated 10th June, 2015, "Grain based distilleries with Zero Liquid Discharge producing ethanol, solely to be used for Ethanol Blended Petrol Program of the Government of India shall be considered under 'B' Category" and as per the requirement of the notification, the project proponent has submitted a returned affidavit that ethanol produced from proposed project shall be used completely for EBP Program.

This project has been granted environmental clearance with EC Identification No. EC/2016/047/P/00001, dated 02nd November, 2016 (File no. M.1-2015/260/2012-20-101) by the Ministry of Environment, Forest and Climate Change. Copy of same is attached as annexure 1.

1.2 PROJECT DESCRIPTION

The proposed 100 Mtpd grain based distillery will utilize broken rice, wheat, maize etc. as the basic raw material to produce fuel grade Ethanol. The plant will be based on Batch fermentation technology considering overall availability of grains with 'Wash to Ethanol with Multiple Distillation' technology with 2.0 for production of anhydrous ethanol (Bio-fuel) for use of blending in automobile fuel, conforming to Indian standard IS 2949:2004 for supply to OMCs.

The by-products considered for manufacturing of fuel grade Ethanol are Distiller's Wet Grain with Solubles (DWGS) Distilleries Dry Grain with Solubles (DDGS), CO₂ and Fuel oil (By-product). The process will adopt 2.0 system (zero liquid discharge) and no process effluent will be discharged outside. The process will be based on Dry Milling Technology.

Table 1.1: Details of Products and Capacity of the Proposed Plant

| S. No. | Name of the unit | Name of the product/ By-product | Production capacity |
|--------|--------------------------|------------------------------------|------------------------|
| 1. | Distillery | Ethanol | 100 MTPD |
| 2. | Cogeneration Power plant | Power | 3 MW |
| 3. | DWGS dryer | DWGS - By-product | 60 TPD |
| 4. | Fermentation unit | Carbon dioxide - By-product | 50 TPD |

Total land area is 12.45 acres (5.28 Ha). Total fresh water requirement 575 million/litres. Power Requirement is 3.25 MW. The estimated capital cost for the project is INR 126.9 Crores. Total Employment will be 285 persons as direct & indirect.

1.3 PROJECT LOCATION

The Shikhar project is coming up at Shikhar on 677, 678, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690 at village- Baharwan, Tehsil - Chhota, District Mathura, Uttar Pradesh - 201 401.

1.4 PRESENT STATUS

Project is in initial stage of construction. Site Development work is started.

1.5 PURPOSE OF THE REPORT

This six-monthly report is being submitted as per the condition stipulated in the Environmental Clearance letter.

Further, the study will envisage the environmental impacts that have generated in the local environment due to the project.

The environmental assessment is being carried out to verify:-

- That the project does not have any adverse environmental impacts in the project area and its surrounding.
- Compliance with the conditions stipulated in the Environmental Clearance letter.
- The Project Management is implementing the environmental mitigation measures as suggested in the approved Form 1, EIA, Environmental Management Plan (EMP).
- The project proponent is implementing the environmental safeguards in true spirit.
- Any non-conformity in the project with respect to the environmental implication of the project.

CHAPTER 2

COMPLIANCE OF STIPULATED CONDITIONS OF ENVIRONMENTAL CLEARANCE

| | |
|-----------------------------|---|
| Name of Project | Crack based Ethanol (Bio Fuel) Plant (100 KLPD) along with cogeneration power plant (3 MW) by M/s. Ethos Distillery Ltd at Village Bahawal, Tehsil - Chhota, District Mathura, U.P. |
| EC Identification No. | EC/2020/MS/100016, dated 01 st November, 2020 |
| Period of compliance Report | October 2022 to March 2023 |

1. Statutory compliance

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| 1. | As per the Notification S.O. 200402, dated 10th June, 2015, project falls in category B2 and the proposed capacity of 100 KLPD shall only be used for fuel ethanol manufacturing as per self-certification in form of a returned affidavit by the Project Proponent, provided that subsequently if it is found that the ethanol, produced based on the EC granted as per this dispensation, is not being used completely for ODF Programme, or if ethanol is not being produced, or if the unit distillery is not fulfilling the requirements based on which the project has been approved as category B2 project, the EC shall stand cancelled. | The proposed project is for setting up a 100 KLPD Crack based Ethanol Plant unit. The product ethanol will be only used for fuel ethanol manufacturing as per the ODF Programme. The affidavit has been already submitted with the EC application. The condition will be complied with true spirit. |
| 2. | The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EC/ODF in respect of environmental management, and risk mitigation measures relating to the project shall be implemented. | All the environmental protection measures and safeguards as per the recommendations made in the EC/ODF in respect of environmental management, and risk mitigation measures relating to the project will be complied. |
| 3. | EC granted for a project on the basis of the submitted documents shall become invalid in case the actual land for the project site turns out to be different from the land considered at the time of approval of project. EC certificate shall be obtained before start of construction activities. | The proposed project is being set up on the land for which actual land documents has been submitted to the ministry at the time of EC application. EC certificate has been obtained, copy of the same is attached as Annexure 02 . |
| 4. | NOC from the Central Ground Water Authority (CGWA)/ Concerned local authority shall be obtained before start of the construction of plant and drawing of the ground water for the project activities. State Pollution Control Board/ Pollution Control Commission shall not issue the Consent to | Permission has been obtained for drawing of the ground water with Reg. no. 2022/1000000 valid from 26/06/2022 to 25/06/2027 from Ground water department U.P. Copy of the same is attached as Annexure 03 . |

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| | Operate (TTC) under Air (Prevention and Control of Pollution) Act and Water (Prevention and Control of Pollution) Act of the project proponent shall obtain such permission. | |
| 5. | Total fresh water requirement shall not exceed 4 KL/HR of effluent production which will be met from ground water. No ground water recharge shall be permitted within the premises. Industry shall construct a rain water storage pond of 100000 capacity and the accumulated water to be used as fresh water thereby reducing fresh water consumption. | It will be ensured that the water requirement for the project will not exceed the mentioned limit. Rain water storage tank of 100000 cum will be constructed for storing the rain water which will be reused within the project site. |
| 6. | Spent wash shall be dried to form 100% to be used as cattle feed. The condensate, spent lime and utilities effluent shall be treated in the STP comprising tertiary treatment (Condensate Polishing Unit). Treated effluent will be recycled/reused for making water of cooling towers/processes etc. and no waste or treated water shall be discharged outside the premises. STP shall be installed to treat the sewage generated from factory premises. | 100% obtained will be used as cattle feed. Industrial effluent will be treated and entirely recycled. The sewage generated will be treated in the onsite STP and treated sewage will be recycled in the green area. SLD system will be adopted and no effluent will be discharged outside. |
| 7. | STP of 1 bank with a stack height of 35 meters will be installed with 30 TPH biomass/coal fired boiler for controlling the particulate emissions within the statutory limit of 30 mg/Nm ³ . SO ₂ and NO _x emissions shall be less than 100 mg/Nm ³ at no time. The emission levels shall exceed the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are verified to achieve the desired efficiency. Performance assessment of pollution control devices/ systems will be conducted annually. | The STP with proper stack height of 35 m will be installed with the proposed 30 TPH Boiler for controlling the particulate emissions within the statutory limit. During the operation phase of the project, performance assessment of pollution control devices/systems will be conducted annually and submitted with the EC compliance report. |
| 8. | Boiler ash will be used for brick manufacturing and supplied to brick manufacturers in covered trucks. PF shall use biomass as fuel for the proposed boiler. PF shall meet 10% of the total power requirement from solar power by generating power inside plant premises/ adjacent nearby areas. | During operation phase, boiler ash generated will be supplied to brick manufacturing unit in covered trucks. Biomass will be used as fuel for the boiler except in case of availability of biomass, coal will be used. Provision for installation of solar panels will be made at appropriate stage of development. |
| 9. | CO ₂ generated will be bottled and supplied to authorized vendors. | CO ₂ generated will be scrubbed, liquefied and sold to end users. |

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| 21. | <p>All shall allocate at least \$1,000 (with/annum for Occupational Health Safety Occupational Health Centre for surveillance of the worker's health shall be set up. The health data shall be used in depicting the status of the workers. All workers & employees shall be provided with required safety kit/truck for personal protection.</p> | <p>As the construction of project is in initial stage. At least \$1,000/ annum will be allocated for occupational health safety. All the preventive measures like training of workers regarding safety, compulsory use of PPEs, first aid arrangements, safety harnesses, work permit system, etc. for occupational health safety will be taken care off.</p> |
| 22. | <p>Training shall be imparted to all employees on safety and health aspects of chemicals handling safety and visual reality training shall be provided to employees.</p> | <p>Training of workers regarding safety and health aspects of chemicals handling will be provided. Mock drill will be conducted.</p> |
| 23. | <p>The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling, fire fighting system shall be as per the norms. FISO certificate shall be obtained.</p> | <p>Arrangements for protection against the possible fire hazards during manufacturing process in material handling will be made. Approval from FISO and fire department will be obtained before start of operation.</p> |
| 24. | <p>Process effluent recycles and spent carbon, if any, shall be sent to Cement and other suitable industries for its reclamation. CIP sludge, process sludge & suspension will shall be disposed of to the land. Filter press shall be installed for drying of sludge.</p> | <p>Filter press shall be installed as directed. CIP and CIP sludge will be used as manure in green areas within premises. No hazardous waste will be generated except limited quantity of used oil which will be sent to authorized recycler.</p> |
| 25. | <p>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 head system into batch reactors; (e) Venting equipment through vapor recovery system; (f) Use of high-pressure foam for equipment cleaning to reduce wastewater generation.</p> | <p>Proper strategies for waste minimization measures will be adopted during operation phase. By products like CIP will be sold as cattle feed and Carbon dioxide will be liquefied and sold.</p> |
| 26. | <p>The green belt of at least 5.00 m width shall be developed in 1.00 ha i.e., nearly 40% of the total project area with tree density @ 2000 trees per hectare, mainly along the plant periphery. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department and native species shall be developed. Records of tree canopy shall be monitored through remote sensing map.</p> | <p>Green belt will be developed as per the condition imposed. Two tier greenbelt as per CPCB guidelines with selection of native plant species will be developed at appropriate stage of development.</p> |

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| | Greenbelt development shall be completed before commissioning of the plant. | |
| 26. | MR proposed to allocate Rs. 1.2 Crores towards Extended CSR (ECR) which shall be spent as submitted in CSR plan for measurable activities like upgradation of schools with provision of facilities e.g. Class rooms, playground, laboratory, library, Computer class, toilets, Drinking Water facilities, solar light/solar power support for uninterrupted power supply etc. Further, all the proposed activities under CSR shall be completed before the commissioning of the plant in consultation with District Administration. | As per the proposal MR 1.2 crore will be allocated towards CSR cost under which activities like development of roads, providing training for generating skilled employment, distribution of IT gadgets, installation of solar panels, free health checkups, upgradation of drinking water facility etc. will be done in nearby villages. Necessary communication and finalisation regarding the CSR activities will be made with the district administration. |
| 27. | 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 or public places. As proposed, 4.0 % area is earmarked for parking with facilities like rest rooms etc. within the project site and dedicated additional 5 acres parking area will be provided separately outside the plant premises, which is located 1.2 KM away. | Adequate parking space as proposed in the EC application (2% of plot area) will be provided within the project premises. Additionally, parking will be provided on a separate land of area 5 acre owned by the company. |
| 28. | Storage of raw materials shall be either in silos or in covered areas to prevent dust pollution and other fugitive emissions. All stockpiles should be constructed over impervious soil and galled drains with catch pits to trap runoff material shall be provided. Biomass shall be stored in covered sheds and wind breaking walls/burtons shall be provided around biomass storage area to prevent its suspension during high wind speed. All internal roads shall be paved. Industrial vacuum cleaner shall be provided to sweep the internal roads. The Air Pollution Control System shall be interlocked with process plant/machinery for shutdown in case of operational failure of Air Pollution Control Equipment. | Storage area for the raw materials with all the appropriate arrangements to prevent the dust pollution and other fugitive emissions will be made. The internal roads will be paved. It will be ensured that the Air Pollution Control System kept interlocked with process plant/machinery for shutdown in case of operational failure of Air Pollution Control Equipment. |
| 29. | Continuous online (24x7) monitoring system for stack emissions/effluent shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCL server. For online continuous monitoring of effluent, the unit shall install web camera with night vision | Continuous online (24x7) monitoring system for stack emissions/effluent will be installed. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/flow |

| | | |
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| | capability and flow meters in the channel/duct carrying effluent within the premises. | carrying effluent within the premises. |
| 25. | A separate Environmental Management Cell (having qualified person with Environmental Science/Environmental Engineering/qualification in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions. EIC head shall report directly to Head of Organization/ Managing Director/CEO as per company hierarchy. | Separate Environmental Management Cell have been formed and is being headed by head of Environment. |
| 26. | The demolition waste shall be disposed in compliance with the provisions of EIA Waste Management Rules, 2016. Since, proposed site is located in the existing leather factory operational 8 years ago, TICF test shall be conducted of soil in plot site. | TICF test has been done as directed. No major demolition waste will be generated as existing industrial shall be modified and reused. Any rubble generated during the construction activity will be used in road making/ construction activities. TICF report is attached as Annexure III. |
| 27. | MP shall sensitize and create awareness among the people working within the project area as well as its surrounding area on the ban of Single Use Plastics in order to ensure the compliance of Notification published by MoEF&CC on 12 th August, 2019. A report along with photographs on the measures taken shall also be included in the six-monthly compliance report being submitted to concerned authority. | As the project is in initial stage of Construction, same will be completed at appropriate stage of site development. |
| 6. General Conditions | | |
| i) | No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2016 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/ MoEF, as applicable. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry/MoEF, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any. | The condition will be complied with true spirit. No deviation or alteration will be made with respect to the submitted proposal. |
| ii) | The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment. | Preferably LED lighting will be used in the project. |
| iii) | The overall noise levels in and around the plant | The condition will be complied. |

Table 3.8: Physical-Chemical Characteristics of Soil in the Study Area

| S. No. | Parameter | Test Method | Results | Unit |
|--------|--------------------------------|-----------------------|---------|-------------------|
| 1. | pH | IS 2720 Part 2 (1973) | 7.66 | |
| 2. | Conductivity | IS 2720 Part 2 (1973) | 271.9 | µmhos/cm |
| 3. | Moisture | IS 2720 Part 2 (1973) | 66.4 | % |
| 4. | Water Holding Capacity | IS 2720 Part 2 (1973) | 11.1 | % |
| 5. | Specific Gravity | IS 2720 Part 2 (1973) | 2.66 | |
| 6. | Soil Density | IS 2720 Part 2 (1973) | 1.38 | g/cm ³ |
| 7. | Clay | IS 2720 Part 2 (1973) | 22.4 | % |
| 8. | Silt | IS 2720 Part 2 (1973) | 22.4 | % |
| 9. | Sand | IS 2720 Part 2 (1973) | 22.4 | % |
| 10. | Proximate | IS 2720 Part 2 (1973) | 22.4 | % |
| 11. | Organic | IS 2720 Part 2 (1973) | 22.4 | % |
| 12. | Organic matter | IS 2720 Part 2 (1973) | 22.4 | % |
| 13. | Cation Exchange Capacity (CEC) | IS 2720 Part 2 (1973) | 11.4 | meq/100g |
| 14. | Available nitrogen | IS 2720 Part 2 (1973) | 22.4 | mg/kg |
| 15. | Available Phosphorus | IS 2720 Part 2 (1973) | 22.4 | mg/kg |
| 16. | Iron in Fe | IS 2720 Part 2 (1973) | 22.4 | mg/kg |
| 17. | Copper in Cu | IS 2720 Part 2 (1973) | 22.4 | mg/kg |
| 18. | Zinc in Zn | IS 2720 Part 2 (1973) | 22.4 | mg/kg |
| 19. | Lead | IS 2720 Part 2 (1973) | 22.4 | mg/kg |
| 20. | Cadmium | IS 2720 Part 2 (1973) | 22.4 | mg/kg |
| 21. | Chromium | IS 2720 Part 2 (1973) | 22.4 | mg/kg |
| 22. | Soil Heavy Metals (Total) | IS 2720 Part 2 (1973) | 22.4 | mg/kg |

3.8.8 Discussion on Soil Characteristics in the Study Area

The soil in study area is characterized by moderate organic content. The soil quality in the project area has not been affected by the project activities.

ANNEXURE I



Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

The Director
ALLIND (INDIA) LIMITED
20B, Sector-14, Gurgaon, Gurgaon-122002, Dist-Gurgaon-122002

Subject: Grant of Environmental Clearance (EC) to the proposed Project Activity under the provision of EIA Notification, 2006 regarding

Details:

This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the Ministry with proposal number EC/2022/0000000000000000 dated 17 Aug 2022. The particulars of the environmental clearance granted to the project are as follows:

| | |
|--|---|
| 1. EC Identification No. | EC/INDIA/2022/0000000000000000 |
| 2. File No. | 2022/0000000000000000 |
| 3. Project Type | INDIA |
| 4. Category | A |
| 5. Proprietaryity including Website No. | Government Project activities for Global Partnership |
| 6. Name of Project | INDIA Project Phase 2 (Full Power) 2022 with replacement power plant at 2022/0000000000000000 & 2022/0000000000000000, Sector-14, Gurgaon, Dist-Gurgaon, Haryana, India |
| 7. Name of Company/Organisation | ALLIND (INDIA) LIMITED |
| 8. Location of Project | INDIA |
| 9. TQM No. | INDIA |

The project details along with terms and conditions are appended herewith from page no. 2 onwards.

Date: 01/11/2022

(Signed)
S. K. Singh
Secretary
IA - Industrial Projects - 2 sector

Note: A valid environmental clearance shall be one that has EC identification number & E-Tag generated from PARIVESH. Please quote identification number in all future correspondence.

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This has reference to your online proposal no. DAP/IND/206236/2022, dated 17th August, 2022 for environmental clearance to the above mentioned project.

2. The Ministry of Environment, Forest and Climate Change has examined the the project proposal seeking environmental clearance for setting up of 100 KLPD Green based Ethanol Plant with 4 MW Co-generation power plant (Fuel - Biomass or coal in case of unavailability of biomass) located at village-Beharawan, Chhata Shergarh Road, Tahsil - Chhata, Dist. -Mathura, UP - 281 401 by M/s Allens Distillery Limited.

3. As per the MoEFCC Notification S.O. 23392, dated 16th June, 2021, a special provision in the EIA Notification, 2006 (Schedule 5 (ga), Category B2) is made, wherein for all applications made for Green based distilleries with Zero Liquid Discharge producing ethanol, solely to be used for Ethanol Blended Petrol Programme of the Government of India shall be considered under B2 Category and approved at Central Level by Expert Appraisal Committee (EAC) with condition that the project proponent shall file a notional affidavit that ethanol produced from proposed project shall be used completely for EBP Programme.

4. The details of products and capacity for proposed plant are as under:

| S. No. | Name of unit | Name of the product /by-product | Production capacity |
|--------|---------------------------|---------------------------------|---------------------|
| 1 | Distillery | Ethanol | 100 KLPD |
| 2 | Co-generation power plant | Power | 4 MW |
| 3 | DMSO dryer | DMSO | 40 TPD |
| 4 | Fermentation unit | Carbon D-oxide | 50 TPD |

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

6. Total land area identified is 12.45 Acre (5.09 ha). Greenbelt will be developed in total area of 4.5 acre i.e., 36% of total project area. The estimated project cost is INR 128.9 Crores. Capital cost of EHP would be Rs. 7.26 Crores and recurring cost for EHP would be Rs. 1.08 Crores per annum. Industry proposes to allocate Rs. 1.3 Crores towards Extended EHP (Corporate Environment Responsibility). Total Employment will be 100 persons as direct & indirect.

7. There are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/elephant Reserves, Wildlife Corridors etc. within 10 km distance. Reserve forests/protected forests: Sharnaga R.F at an aerial distance of 13.08 Km on North, Bathan R.F at an aerial distance of 14.6 Km on NW, Nandgaon R.F at an aerial distance of 14.8 Km on SW. The project site is located outside the TTE. Water bodies: (i)Shergarh Canal is at an aerial distance of 620 m on East, (i) Yamuna River

is situated at an aerial distance of 13.26 km on NE, ii) Kasi drain is at an aerial distance of 2.6 km on SW, iii) Agra canal is at an aerial distance of 8.7 km on SW, iv) Tal Gohari is at an aerial distance of 8.5 km on SW.

8. AQI modeling study for point source emissions (Fuel rice husk) indicates that the maximum incremental G/Cs after the proposed project would be 0.126 $\mu\text{g}/\text{m}^3$, 0.077 $\mu\text{g}/\text{m}^3$, 0.007 $\mu\text{g}/\text{m}^3$ and 1.56 $\mu\text{g}/\text{m}^3$ with respect to PM_{10} , $\text{PM}_{2.5}$, SO_2 and NO_2 . The baseline concentration and resultant concentrations of PM_{10} and $\text{PM}_{2.5}$ are slightly higher than the National Ambient Air Quality Standards (NAAQS). IP explained the reasons for higher PM_{10} level of 100 micro gram/ m^3 that ambient air quality monitoring was done during summer season in the month of May. Air borne (wind blown) dust contains high concentration of particulate matter (PM_{10} and $\text{PM}_{2.5}$). The wind direction was from west to east. Loose soil from non-irrigated agriculture land adds on to concentration of suspended particulate matter in air.

9. Total fresh water requirement will be 573 m³/day including domestic & green area usage (40 KL/D) which will be met through onsite ground water abstraction. IP has applied site application no. W/146/12/24/2019 dated 22/07/2022 for obtaining ground water abstraction approval. Effluent (Condensate/spent wash/blowdown etc.) of 803m³/day quantity will be partly recycled and perfluorinated through Condensate Polishing Unit capacity 1100 KL/D. Raw sludge 516 KL/D (quantity of raw spent wash from distillation) will be sent to dewaterer followed by PCD and dryer to produce DDGS. STP of capacity 2000 will be installed to treat sewage generated from factory premises. The plant will be based on Zero liquid discharge system and no effluent/treated water will be discharged outside factory premises.

10. Power requirement will be 3.15 MW and will be met from proposed 4.0MW cogeneration power plant, will be installed. APCE (ESP) with a stack height of 55 m will be installed with 30Tph boiler (fuel - biomass or coal in case of unavailability of biomass) for controlling the particulate emissions within the statutory limit of 50 mg/ Nm^3 . 2 nos. @ 250 kWh each DG set will be used as standby during power failure and stack height (15m) will be provided as per CPCB norms to the proposed DG sets.

11. Details of process emissions generation and its management:

- APCE (ESP) with a stack height of 55 m will be installed for controlling the particulate emissions from boiler.
- Online Continuous Emission Monitoring System will be installed with the stack and data will be transmitted to CPCB/SPCB servers.
- CO_2 (50 TPD) generated during the fermentation process will be collected by utilizing CO_2 scrubbers, liquified and shall be sold to authorized vendors.

12. Details of Solid waste/Hazardous waste generation and its management:

- DDGS (Dewatered Dried Grains Stillage) (48 TPD) will be sold as cattle feed / poultry feed.

- Fly ash from boiler (approx. 35-40 TPD from coal or 20-25 TPD from biomass) will be generated. The same will be used in infrastructure base fill material/brick manufacturing unit set up by the project proponent in collaboration with local brick manufacturing unit.
- Bottom ash (approx. 26 TPD from coal or 15 TPD from biomass) will be generated and disposed for landfilling/road making activities.
- Used oil (approx. 100/annum) will be sold to authorized recyclers.
- ETP sludge (50 Kg/day) and STP Sludge (1.5 Kg/day) will be used as manure.

13. As per Notification S.O 2339(E), dated 16th June, 2021, PP has submitted self-certification in the form of notarized affidavit declaring that the proposed capacity of 100 KLPD will be used for manufacturing fuel ethanol only.

14. Total land of 12.45 Acre (5.39 ha) is under possession of the company. Where nos. 686, 688, 689, 690 and application submitted vide letter dated 29.09.2022 for conversion of land to Industrial usage for the Khara nos. 677, 678, 680, 681, 682, 683, 687a.

15. During deliberations, EAC discussed the following issues:

- (i) No ground water shall be extracted without approval.
- (ii) Regarding PM₁₀ level of 160 micro gram/m³ PP informed that ambient air quality monitoring was done during summer season in the month of May. Air borne /wind blown dust contains high concentration of particulate matter (PM₁₀ and PM_{2.5}). The wind direction was from west to east. Loose soil from non-irrigated agriculture land adds on to concentration of suspended particulate matter in air. PP informed that all the air pollution control measures shall be taken to achieve prescribed air emission prescribed by the CPCB and SPCB. ESP of five fields to be installed to achieve the particulate emission levels of 30 mg/m³. Fugitive air emissions shall be controlled by adopting good housekeeping and planting of additional trees within the plant and along the road.
- (iii) Regarding revised GJC considering 0.5 % sulphur in fuel coal, the GJC calculation was done considering 0.50% sulphur in coal under worst case scenario. However, they have further conducted GJC calculation of 0.5 % sulphur.
- (iv) Details of revised CER has been submitted.
- (v) ESP of five fields to be installed.
- (vi) Ash shall be collected in site and transported through covered truck.
- (vii) PP informed that the existing leather factory was operated 8 years ago in the same land. Some of the infrastructure will be used for the proposed project.

The committee was satisfied with the response provided by PP on above information.

16. The proposal was considered by the EAC Ind-2 in Meeting EAC/IND2/13327/01/09/2022 held during 01st - 02nd September, 2022 in the Ministry, wherein the project proponent and their environmental consultant namely M/s. Sd Engineering Services Pvt Ltd., presented the case under S2 category. The Committee **recommended** the project for grant of environmental clearance.

17. The EAC, constituted under the provision of the EIA Notification, 2006 and comprising of Experts Members/domain experts in various fields, have examined the proposal submitted by the Project Proponent in desired form along with the EMP report prepared and submitted by the Consultant accredited by the (CI) NABET on behalf of the Project Proponent. The EAC noted that the Project Proponent has given undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the report. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

18. The Committee noted that the EMP report is in compliance of the RFR. The Committee deliberated on the CSR plan and found to be addressing the issues in the study area. The EAC has deliberated the proposal and has made due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC have found the proposal in order and have **recommended** for grant of environmental clearance.

19. The environmental clearance granted to the project/activity is strictly under the provisions of the EIA Notification 2006 and its amendments. It does not tantamount/constitute to approvals/consent/ permissions etc. required to be obtained or standards/conditions to be followed under any other Act/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1986, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

20. Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-2), Ministry of Environment, Forest and Climate Change hereby accords environmental clearance to the project **proposed 200 KLPD Grain based Ethanol Plant with 4000 Co-generation power plant (Fuel - Biomass or coal in case of unavailability of biomass) located at Village- Baharawan, Chhata Shergarh Road, Tehsil - Chhata, Dist. -Muzaffar, UP - 201 401 by M/s Alliance Distillery Limited**, under the provisions of the EIA Notification, 2006, and the amendments thereon, subject to compliance of the terms and conditions as under:-

A. Specific Conditions

(i) As per the Notification S.O. 2339(E), dated 10th June, 2021, project falls in category S2 and the proposed capacity of 200 KLPD shall only be used for fuel ethanol manufacturing as per self-certification in form of a notarized affidavit by

the Project Proponent. Provided that subsequently if it is found that the ethanol, produced based on the EC granted as per this dispensation, is not being used completely for CBP Programme, or if ethanol is not being produced, or if the unit/delivery is not fulfilling the requirements based on which the project has been approved as category B2 project, the EC shall stand cancelled.

(ii) The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.

(iii) EC granted for a project on the basis of the submitted documents shall become invalid in case the actual land for the project site turns out to be different from the land considered at the time of appraisal of project. Cui certificate shall be obtained before start of construction activities.

(iv) NOC from the Central Ground Water Authority (CGWA)/ Concerned Local authority shall be obtained before start of the construction of plant and drawing of the ground water for the project activities, State Pollution Control Board / Pollution Control Committees shall not issue the Consent to Operate (CTO) under Air (Prevention and Control of Pollution) Act and Water (Prevention and Control of Pollution) Act till the project proponent shall obtain such permission.

(v) Total Fresh water requirement shall not exceed 4 KL/KL of ethanol production which will be met from ground water. No ground water recharge shall be permitted within the premises. Industry shall construct a rain water storage pond of 1000m³ capacity and the accumulated water to be used as fresh water thereby reducing fresh water consumption.

(vi) Spent wash shall be dried to form DDGS to be used as cattle feed. The condensate, spentless and stillies effluent shall be treated in the ETP comprising tertiary treatment (Condensate Polishing Unit). Treated effluent will be recycled/reused for make up water of cooling towers/process etc. and no waste or treated water shall be discharged outside the premises. ETP shall be installed to treat the sewage generated from factory premises.

(vii) ESP of 5 fields with a stack height of 25 meters will be installed with 30 TPH biomass/coal fired boiler for controlling the particulate emissions within the statutory limit of 30 mg/Nm³. SO₂ and NO_x emissions shall be less than 100 mg/Nm³. At no time, the emission levels shall exceed the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Performance assessment of pollution control devices/ systems will be conducted annually.

(vi) Boiler ash will be used for brick manufacturing and supplied to brick manufacturers in covered trucks. PF shall use biomass as fuel for the proposed boiler. PF shall meet 10% of the total power requirement from solar power by generating power inside plant premises/adjacent/nearby areas.

(vii) CO₂ generated will be bottled and supplied to authorized vendors.

(viii) PF shall allocate at least Rs. 50 Lakh/annum for Occupational Health Safety. Occupational Health Centre for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.

(ix) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees.

(x) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms. MSD certificate shall be obtained.

(xi) Process organic residue and spent carbon, if any, shall be sent to Cement and other suitable industries for its incinerations. ETP sludge, process organic & evaporation salt shall be disposed of to the TSD. Filter press shall be installed for drying of sludge.

(xii) 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 cleaning to reduce wastewater generation.

(xiii) The green belt of at least 5-10 m width shall be developed in 2.04 Ha i.e., nearly 40% of the total project area with tree density @ 2500 trees per hectares, mainly along the plant periphery. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department and native species shall be developed. Records of tree canopy shall be monitored

(vii) The demolition waste shall be disposed in compliance with the provisions of C&D Waste Management Rules, 2016. Since, proposed site is located in the existing leather factory operational 8 years ago, TCLF test shall be conducted of soil in plant site.

(viii) OP shall sensitize and create awareness among the people working within the project area as well as its surrounding area on the ban of Single Use Plastics in order to ensure the compliance of Notification published by MoEFCC on 12th August, 2021. A report along with photographs on the measures taken shall also be included in the six-monthly compliance report being submitted to concerned authority.

8. General Conditions:

- (i) No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA, as applicable. In case of deviations or alterations in the project proposal from those submitted to the Ministry for clearance, a fresh reference shall be made to the Ministry/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- (ii) The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.
- (iii) The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoops, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- (iv) The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration and shall be implemented. The company shall undertake socio-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- (v) The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.
- (vi) A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Panchayat/Municipal Corporation, Urban local Body

ANNEXURE II

| | | |
|-------|---|---|
| | area shall be kept well within the standards by providing noise control measures including acoustic fence, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act, 1986 Rule, 1989 viz. 75 dB (day time) and 70 dB (night time). | Necessary enclosure will be provided wherever possible. DC sets will be provided with robust acoustic enclosure. |
| vi) | The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local village and administration and shall be implemented. The company shall undertake socio-developmental measures including community welfare measures in the project area for the overall improvement of the environment. | As committed during E.C application, CSR activities will be undertaken in nearby villages. Details of the same will be submitted in the subsequent compliance report as and when the activities will be taken up. |
| vii) | The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose. | As proposed, Capital cost of O&M would be approx. ₹ 7.26 Crore and recurring cost for O&M would be approx. ₹ 1.08 Crore per annum. |
| viii) | A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, (Bh. Panchayat/Municipal Corporation, Urban local Body and the local MLAs, if any, from whom suggestions/ representations, if any, were received while processing the proposal. | Copy of the E.C. letter has been already sent to the Bahawal Panchayat Office, (Bh. Panchayat). |
| ix) | The project proponent shall also submit its monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and its monthly compliance status report shall be posted on the website of the company. | Its monthly compliance report shall be submitted time to time. Its Monthly Compliance Report will be uploaded on the web site in due course of time. |
| x) | The environmental statement for each financial year ending 31st March in Form V as is mandated shall be submitted to the concerned State | Once the unit starts operation, Environmental Statement in Form V will be submitted every year. |

| | | |
|-----|--|---|
| | <p>Evaluation Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Office of MoEF&CC by email.</p> | |
| ac) | <p>The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the CPCB/Committee and may also be seen at Website of the Ministry and at http://parivah.mca.gov.in. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.</p> | <p>Advertisement of EC letter in two local newspaper has been done. Copy of the same is attached as Annexure 15.</p> |
| ad) | <p>The project authority 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 and the date of start of the project.</p> | <p>Noted same will be complied.</p> |
| ae) | <p>The Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NCT and any other Court of law, if any, as may be applicable to the project.</p> | <p>Noted.</p> |

CHAPTER 3

DETAILS OF ENVIRONMENTAL MONITORING

3.1 AMBIENT AIR QUALITY MONITORING

3.1.1 Ambient Air Quality Monitoring Stations

Ambient air quality monitoring has been carried out at one location, near main gate to access the ambient air quality of Project Site in the Month of March 2023. This will enable to have an analytical understanding about air quality and the changes in the air environment in the study area with respect to the condition prevailing. The location of the ambient air quality monitoring station is given in Table 3.1.

Table 3.1 Details of Ambient Air Quality Monitoring Stations

| S. No. | Location Code | Location Name/ Description | Environmental Setting |
|--------|---------------|----------------------------|-----------------------|
| 1. | AMC1 | Project Site | Commercial |

3.1.2 Ambient Air Quality Monitoring Methodology

Monitoring was conducted in respect of the following parameters:

- Particulate Matter 2.5 (PM_{2.5})
- Particulate Matter 10 (PM₁₀)
- Sulphur Dioxide (SO₂)
- Nitrogen Dioxide (NO₂)
- Carbon Monoxide (CO)

The duration of sampling of PM_{2.5}, PM₁₀, SO₂, and NO₂ was 24 hourly continuous sampling per day and CO was sampled for 1 hour. The monitoring was conducted for one day at the location. This is to allow a comparison with the National Ambient Air Quality Standards.

The air sample was analysed as per standard methods specified by Central Pollution Control Board (CPCB) and IS: 1500. The techniques used for ambient air quality monitoring and minimum detectable levels are given in Table 3.2.

Five Particulate Sampler (PM) 100 instruments have been used for monitoring Particulate Matter 2.5 (PM_{2.5}) (i.e. <2.5 microns), and Respirable Dust Sampler (PM) 400 was used for sampling Respirable Fraction (100 microns), gaseous pollutants like SO₂, and NO₂. Sampler and Respirator bags were used for collection. Carbon monoxide samples, Gas Chromatography techniques have been used for the estimation of CO.

Table 3.2 Techniques used for Ambient Air Quality Monitoring

| Sr. | Parameter | Technique | Technical Protocol |
|-----|------------------------|--|---------------------|
| 1. | Particulate Matter 2.5 | Five Particulate sampler (PM) 100, Gravimetric Method | IS: 1500 (Part-III) |
| 2. | Particulate Matter 10 | Respirable dust sampler (PM) 400, with cyclone separator, Gravimetric Method | IS: 1500 (Part-III) |
| 3. | Sulphur Dioxide | Modified West gas method | IS: 1500 (Part-III) |
| 4. | Nitrogen Dioxide | Clark & Pasternak | IS: 1500 (Part-III) |
| 5. | Carbon Monoxide | Gas Chromatography | IS: 1500 (Part-III) |

5.2.2 Ambient Air Quality Monitoring Results

The detailed on-site monitoring results of PM₁₀, PM_{2.5}, SO₂, NO_x and CO are presented in Table 5.2.

Table 5.2 Ambient Air Quality Monitoring Results

| S. No. | Location Code | Location | PM ₁₀ (µg/m ³) | PM _{2.5} (µg/m ³) | SO ₂ (µg/m ³) | NO _x (µg/m ³) | CO (mg/m ³) |
|--------|---------------|--------------|--|---|---|---|----------------------------|
| | | Code | Limit | Limit | Limit | Limit | Limit |
| 1. | SR01 | Project site | 275 | 27 | 27.2 | 22.8 | 2.65 |

5.2.3 Discussion on Ambient Air Quality in the Study Area

The levels of PM₁₀ and PM_{2.5} near main gate of project site is above than permissible limit of 200 µg/m³ & 50 µg/m³ respectively for residential, rural and other areas as stipulated in the National Ambient Air Quality Standards. SO₂, NO_x, CO were observed within the corresponding stipulated limits (Limit for SO₂ and NO_x: 80 µg/m³ and 200 µg/m³) at monitoring location. Station wise variation of ambient air quality parameters has been pictorially shown in Figure 5.1.



Figure 5.1 Variation of Ambient Air Quality

5.2 Ambient noise assessment

5.2.1 Ambient Noise Monitoring Location

The main objective of noise monitoring in the study area is to assess the present ambient noise levels in project site due to various construction allied activities and increased vehicular movement. A preliminary reconnaissance survey has been undertaken to identify the major noise generating sources in the area. Ambient noise monitoring was conducted at 1 location at the near main gate of the project in the Month of March 2021, site as given in Table 5.3.

Table 5.3 Details of Ambient Noise Monitoring Stations

| S. No. | Location Code | Location Name/Description | Present Landuse |
|--------|---------------|---------------------------|-----------------|
| 1. | SR01 | Project site | Commercial |

5.2.2 Methodology of Noise Monitoring

Noise levels were measured using integrated sound level meter manufactured by Sonotek Instrument Pvt. Ltd. The integrating sound level meter is an integrating/ logging type with frequency range of 1/3 octave as per IS 26375 (Part 1): 2005. The instrument is capable of measuring the sound pressure level (SPL), L_{eq} and L₁₀ on digital display.

Noise level monitoring was carried out continuously for 24 hours with one hour interval starting at 02:00 hrs to 03:00 hrs next day. The noise levels were monitored on working days only. During each hour L_{eq} were directly computed by the instrument based on the sound pressure levels. L₁₀, L₅, L₁ and L_{0.1} values were computed using corresponding hourly L_{eq}. Monitoring was carried out at 1/3 octave and fast mode.

5.2.3 Ambient Noise Monitoring Results

The locations and ambient noise monitoring result are summarized in Table 5.5. The location and variation of noise levels are graphically presented in Figure 5.2.

Table 5.5: Ambient Noise Monitoring Results

| Sl. No. | Test location | Day Time (dB(A)) | | Night Time (dB(A)) | |
|---------|----------------|------------------|-----------------------------|--------------------|-----------------------------|
| | | Results | Limit as per CPCB guideline | Results | Limit as per CPCB guideline |
| 1 | near Main Gate | 52.2 | 55 | 42.8 | 55 |



Figure 5.2: Location wise Variation of Ambient Noise levels

5.2.4 Discussion on Ambient Noise levels in the Study Area

Day Time Noise Level (L_{eq})

The day time noise level near main gate was within the limit for industrial area i.e. 75 dB(A).

Night Time Noise Level (L_{eq})

The night time noise level at near main gate was within the limit for industrial area i.e. 75 dB(A).

5.3 GROUNDWATER QUALITY MONITORING

5.3.1 Groundwater Quality Monitoring Locations

Keeping in view the importance of groundwater as an important source of drinking water to the local population, sample of ground water was collected from the project site for the assessment of impacts of the project on the groundwater quality.

Water sample was collected from 1 location from nearby project area. The sample was analyzed for various parameters to compare with the standards for drinking water as per the (WHO) for ground water sources. The details of water sampling locations are given in Table 5.6.

Table 5.6 Details of Water Quality Monitoring Station

| S. No. | Locn. Code | Location Name/Description |
|--------|------------|---------------------------|
| 1. | GW 1 | Nearby project area |

5.2.2 Methodology of Groundwater Quality Monitoring

Sampling of ground water was carried out on March, 2023. Samples were collected in grab sample and sampling forms are filled in as per the sampling plan. The preservative sample were properly added to preserve as per standard operating procedures (SOP) and stored immediately in ice boxes, which were ensured for appropriate temperatures. Sample for chemical analysis was collected in polyethylene carboys. Sample collected for metal content were acidified to 2 pH with 1 ml HCl. A sample for bacteriological analysis was collected in sterilized glass bottles.

Soon after the completion of sampling, chain of custody sheets for the samples are filled in and then they were transported by road to WQIM Node for further analysis. Proper care was taken during packing and transportation of samples. All the samples reached the central laboratory within the loading time for different parameters. After ensuring the same the samples were forwarded immediately for analysis.

The samples were analyzed as per the standard procedures specified in 'Standard Methods for the Examination of Water and Wastewater' published by American Public Health Association (APHA) and EPA. The analytical techniques and the test methods adopted for testing of ground water are given in Table 5.7.

5.2.3 Groundwater Quality Monitoring Results

The detailed groundwater quality monitoring results are presented in Table 5.7

Table 5.7 Groundwater Quality Monitoring Results

| S. No. | Parameter | Test Protocol | Result | Unit | Requirement as per IS 10500:2012 | |
|--------|---|--------------------------------|--------|------|----------------------------------|--------------------------|
| | | | | | Acceptable Limits (Max) | Permissible Limits (Max) |
| 1. | pH | IS 10500:2012-10.1 | 7.40 | - | 6.5-8.5 | No Restriction |
| 2. | Turbidity | IS 10500:2012-10.2 | 0.2 | NTU | 1 | 1 |
| 3. | Total Hardness | IS 10500:2012-10.3 | 200.0 | mg/l | 500 | 500 |
| 4. | Total Dissolved Solids (TDS) | IS 10500:2012-10.4 | 200.0 | mg/l | 500 | 500 |
| 5. | Calcium as Ca | IS 10500:2012-10.5 | 75.0 | mg/l | 100 | 100 |
| 6. | Magnesium as Mg | IS 10500:2012-10.6 | 5.0 | mg/l | 50 | 50 |
| 7. | Total Chloride as Cl ⁻ (Cl) | IS 10500:2012-10.7 | 200.0 | mg/l | 250 | 250 |
| 8. | Sulphate as SO ₄ ²⁻ | IS 10500:2012-10.8 | 200.0 | mg/l | 250 | 250 |
| 9. | Iron as Fe | IS 10500:2012-10.9 | 0.20 | mg/l | 0.3 | No Restriction |
| 10. | Copper as Cu | IS 10500:2012-10.10 | 0.1 | mg/l | 0.1 | No Restriction |
| 11. | Nitrate as NO ₃ ⁻ | IS 10500:2012-10.11 | 0.0 | mg/l | 50 | 50 |
| 12. | Fluoride as F ⁻ | IS 10500:2012-10.12 | 0.0 | mg/l | 1.5 | No Restriction |
| 13. | Chloride as Cl | APHA, 19 th Edition | 0.00 | mg/l | 1 | 1 |

| Sl. No. | Parameter | Unit | Value | Limit | Compliance | Remarks |
|---------|----------------|------|-------|-------|------------|---------------|
| 16 | Iron (Fe) | mg/L | 1.12 | 1.0 | Yes | In Compliance |
| 17 | Manganese (Mn) | mg/L | 0.25 | 0.1 | Yes | In Compliance |
| 18 | Copper (Cu) | mg/L | 0.02 | 0.01 | Yes | In Compliance |
| 19 | Zinc (Zn) | mg/L | 0.05 | 0.05 | Yes | In Compliance |
| 20 | Lead (Pb) | mg/L | 0.01 | 0.01 | Yes | In Compliance |
| 21 | Chromium (Cr) | mg/L | 0.01 | 0.01 | Yes | In Compliance |
| 22 | Nickel (Ni) | mg/L | 0.01 | 0.01 | Yes | In Compliance |
| 23 | Mercury (Hg) | mg/L | 0.001 | 0.001 | Yes | In Compliance |
| 24 | Vanadium (V) | mg/L | 0.01 | 0.01 | Yes | In Compliance |
| 25 | Selenium (Se) | mg/L | 0.01 | 0.01 | Yes | In Compliance |
| 26 | Cadmium (Cd) | mg/L | 0.01 | 0.01 | Yes | In Compliance |
| 27 | Cobalt (Co) | mg/L | 0.01 | 0.01 | Yes | In Compliance |

5.3.4 Discussion on Groundwater Quality in the Study Area

From the above tables, it is observed that all physical and chemical parameters are found within the permissible limits. However, parameters like Total Hardness, Total Dissolved Solids, Total Alkalinity, Mg and Ca exceed the acceptable limit as per IS:3745 standards.

5.4 SOIL MONITORING

5.4.1 Soil Monitoring Location

The objective of the soil monitoring is to identify the impacts of ongoing project activities on soil quality and also predict impacts, which have arisen due to execution of various construction related activities. Accordingly, a study of assessment of the soil quality has been carried out.

To assess impacts of ongoing project activities on the soil in the area, the physico-chemical characteristics of soils were examined by obtaining soil samples from selected points and analysis of the same. One sample of soil was collected from the project site for studying soil characteristics, the location of which is listed in Table 5.8.

Table 5.8 Details of Soil Quality Monitoring Location

| S. No. | Location Code | Location Name/Description |
|--------|---------------|---------------------------|
| 1 | 01 | MS Office |

5.4.2 Methodology of Soil Monitoring

The sampling has been done in line with IS: 2710 & Methods of Soil Analysis, Part 1, 2nd edition, 1986 of American Society for Agronomy and Soil Science Society of America. The homogenized samples were analyzed for physical and chemical characteristics (physical, chemical and heavy metal concentrations). The soil samples were collected in the month of March, 2023.

The samples have been analyzed as per the established scientific methods for physico-chemical parameters. The heavy metals have been analyzed by using Atomic Absorption Spectrophotometer and Inductively Coupled Plasma Analyser.

5.4.3 Soil Monitoring Results

The physico-chemical characteristics of the soil, as obtained from the analysis of the soil sample, are presented in Table 5.9.

ANNEXURE III

**GROUNDWATER DEPARTMENT**

Division of Groundwater Management

Division of Groundwater

Department of the Public

Form GW-10

(Rev. 10/15/10)

AUTHORIZATION AND COLLECTION CERTIFICATE FOR DRINKING OF NEW EXISTING WELLS FOR INDUSTRIAL/COMMERCIAL, INFRASTRUCTURAL, OR BULK USES OF GROUNDWATER

State Order 10 of the State Public Ground Water Management and Regulation Act, 2010

AUTHORIZATION AND COLLECTION CERTIFICATE FOR UNDESIGNED**BULK WELLS SUBJECT TO PERMITS**

201010 of the State Public Ground Water Management and Regulation Act, 2010

Regulation No. 2010100000

| | | | |
|--|---------------------------------------|-----------------------|-------------------------|
| Year of the Issue | 2010 - 2010 | | |
| Issuing Office | Division of Groundwater | Issuing Office | Division of Groundwater |
| Address of the Applicant | 100 West 10th Street | Applicant's Phone No. | 214-742-1111 |
| City of Interest | Fort Worth | County Name | |
| Location Paragraph | | | |
| Well | W-100 | Well | W-100 |
| Well Category | Unconventional (Oil, Gas, Coal, etc.) | Well Category | Oil |
| Well Status | | Well Status | Active |
| Particulars of the Proposed Well and Pumping System | | | |
| Use of Groundwater Being Used | Oil | | |
| Use of Well | Oil Refining | Use of the Well | Oil |
| Depth of Well | 1000 | Depth of Well | 1000 |
| Water Production for the Well | | | |
| Use of Production | Oil Refining | Use of Production | Oil |
| Production Rate | 1000 gpm | Production Rate | 1000 gpm |
| Use of Production for Sale or Other Uses | | | |
| Production Rate for Sale or Other Uses | 0 | Production Rate | 0 |
| Production Rate for Sale or Other Uses | 0 | Production Rate | 0 |

ANNEXURE IV



IND RESEARCH & DEVELOPMENT HOUSE PVT. LTD.

Water Quality Management Laboratory
ISO 9001:2015 Certified under scope ISO 17025:2017
G-45, 2nd Floor, Sector-6, Noida-201301 (UP)

Tel: +91 926 4010448, E-mail: water@indghd.com



TEST REPORT

Page 01

(Water)

| | |
|--------------------------|--|
| Report No. | WR-2023-024-WQ-T1 |
| Date of Reporting | 26/10/2023 |
| Sample ID | WR-101 Test House Ground, G-45, Ground Floor, Sector-05, Noida, Delhi 120085 |
| Project Name | Test House Ground (2nd Test) Floor (2nd WQ) along with regeneration process start in 2022 by WR-101 Test House facility set up Village Beharwal, Tehsil - Ghaziabad, District - Meerut, UP |
| Source of Sample | Ground Water |
| Identification of Sample | Water collected from nearby Project site |
| Date of Sampling | 22/10/2023 |
| Method of Sampling | As per standard method |
| Date of testing | 22/10/2023 To 26/10/2023 |
| Sample by | INDIA Team |

WR-101-T1

| S.No. | Parameter | Test Protocol | Result | Unit | Requirements as per IS 10500-2012 | |
|-------|-----------------------------------|--------------------|--------|------|-----------------------------------|---------------------------|
| | | | | | Acceptable Limits/Max | Permissible Limits/Max |
| 1. | pH | IS 10500:2012:100 | 7.02 | - | 6.5-8.5 | No Restriction |
| 2. | Turbidity | IS 10500:2012:1000 | 0.3 | NPU | 5 | 5 |
| 3. | Total Hardness | IS 10500:2012:2000 | 240.0 | mg/l | 500 | 500 |
| 4. | Total Dissolved Solids (TDS) | IS 10500:2012:1000 | 80.0 | mg/l | 500 | 500 |
| 5. | Calcium as Ca | IS 10500:2012:1000 | 75.0 | mg/l | 75 | 200 |
| 6. | Magnesium as Mg | IS 10500:2012:1000 | 11.5 | mg/l | 30 | 100 |
| 7. | Total Chloride as Cl ⁻ | IS 10500:2012:1000 | 200.0 | mg/l | 250 | 500 |
| 8. | Chloride as Cl ⁻ | IS 10500:2012:1000 | 200.0 | mg/l | 250 | 500 |
| 9. | Sulfate as SO ₄ | IS 10500:2012:1000 | 40.0 | mg/l | 400 | No Restriction |
| 10. | Iron as Fe | IS 10500:2012:1000 | 0.3 | mg/l | 0.3 | No Restriction |
| 11. | Nitrate as NO ₃ | IS 10500:2012:1000 | 0.0 | mg/l | 50 | 50 |
| 12. | Nitrite as NO ₂ | IS 10500:2012:1000 | 0.0 | mg/l | 5 | No Restriction |





01.06.2022

IND RESEARCH & DEVELOPMENT HOUSE PVT. LTD.

INDRESEARCH DEVELOPMENT HOUSE PVT. LTD.
G-10, 2nd Floor, Banner 6, Sector 29/30/31
Gurgaon, Haryana

Tel: +91 9810240000, E-mail: indresearch@indresearch.com



Report No: INDRESEARCH/2022/01

Page 01

| S No. | Parameter | Test Protocol | Results | Unit | Requirements as per IS 10000:2012 | |
|-------|----------------------------|---------------|---------|------|-----------------------------------|-----------------------|
| | | | | | Acceptable Range/Max | Permissible Range/Max |
| 01 | Fluoride as F | IS 10000:2012 | 0.01 | mg/l | 1 | 1.5 |
| 02 | Iron as Fe | IS 10000:2012 | 0.10 | mg/l | 1.0 | No Schedule |
| 03 | Manganese as Mn | IS 10000:2012 | 0.05 | mg/l | 0.5 | 0.5 |
| 04 | Nitrate Nitrogen | IS 10000:2012 | 0.05 | mg/l | 50 | 1 |
| 05 | Phosphate Compounds | IS 10000:2012 | 0.005 | mg/l | 0.05 | 0.05 |
| 06 | Sulphate as S | IS 10000:2012 | 0.1 | mg/l | 0.5 | 1.0 |
| 07 | Chloride as Cl | IS 10000:2012 | 0.05 | mg/l | 0.5 | No Schedule |
| 08 | Lead as Pb | IS 10000:2012 | 0.01 | mg/l | 0.05 | No Schedule |
| 09 | Copper as Cu | IS 10000:2012 | 0.01 | mg/l | 0.05 | 1.0 |
| 10 | Mercury as Hg | IS 10000:2012 | 0.001 | mg/l | 0.001 | No Schedule |
| 11 | Magnesium as Mg | IS 10000:2012 | 0.01 | mg/l | 0.1 | 0.5 |
| 12 | Zinc as Zn | IS 10000:2012 | 0.01 | mg/l | 1 | 10 |
| 13 | Ammonia as N | IS 10000:2012 | 0.01 | mg/l | 0.05 | No Schedule |
| 14 | Nitrite as NO ₂ | IS 10000:2012 | 0.01 | mg/l | 0.05 | No Schedule |
| 15 | Cadmium as Cd | IS 10000:2012 | 0.001 | mg/l | 0.001 | No Schedule |

End of Report

Dr. V.K. Murthy
Authorized Signatory

- 1. This Report is valid for 12 months only.
- 2. This Report is valid only for the purpose for which it was issued and is not valid for any other purpose.
- 3. Sample shall be maintained in suitable place for report validity.





IND RESEARCH & DEVELOPMENT HOUSE PVT. LTD.

Corporate Headquarters
Ind Res. & Dev. House Pvt. Ltd. 2nd Floor, Sector 22, Noida, India
201301



Tel: +91 120 4210000, E-mail: indres@indres.com

TEST REPORT

(Contd.)

| | |
|-----------------------|---|
| Report No.: | IND-2023-0296 & 297 |
| Date of Reporting | 26/10/2023 |
| Issued to | Ind Res. & Dev. House Pvt. Ltd., 2nd Floor, Sector 22, Noida, India-201301 |
| Project Name | Green based Urban Ind Res. & Dev. House Pvt. Ltd. along with regeneration project area in Noida by Ind Res. & Dev. House Pvt. Ltd. at Village-Bahawalpur, Sector 22, Noida, District: Mathura, UP |
| Name of Sample | Soil |
| Description of Sample | Soil sample collected from Project site |
| Date of Sampling | 22/10/2023 |
| Method of Sampling | As per standard method |
| Date of Testing | 22/10/2023 to 26/10/2023 |
| Sample ID | IND23-296 |

RESULTS

| S. No. | Parameter | Test Method | Results | Unit |
|--------|-----------------------------|-----------------------|---------|-------|
| 1 | pH | IS 1709 Part 2 (1975) | 7.90 | - |
| 2 | Calcium | IS 1709 Part 2 (1975) | 2760 | ug/gm |
| 3 | Magnesium | IS 1709 Part 2 (1975) | 86.4 | mg/kg |
| 4 | Water Soluble Sulfate | IS 1709 Part 2 (1975) | 11.2 | g |
| 5 | Specific Gravity | IS 1709 Part 2 (1975) | 1.90 | - |
| 6 | Moisture | IS 1709 Part 2 (1975) | 1.30 | g/g |
| 7 | Clay | IS 1709 Part 2 (1975) | 26.0 | % |
| 8 | Silt | IS 1709 Part 2 (1975) | 17.0 | % |
| 9 | Sand | IS 1709 Part 2 (1975) | 1.00 | % |
| 10 | Plasticity | IS 1709 Part 2 (1975) | 26.0 | % |
| 11 | Organic | IS 1709 Part 2 (1975) | 19.0 | % |
| 12 | Organic matter | IS 1709 Part 2 (1975) | 0.80 | mg/kg |
| 13 | Total Soluble Sulfate (TSS) | IS 1709 Part 2 (1975) | 11.0 | mg/kg |
| 14 | Available Nitrogen | IS 1709 Part 2 (1975) | 26.0 | % |
| 15 | Available Phosphorus | IS 1709 Part 2 (1975) | 1.00 | % |





15.11.2022

IND RESEARCH & DEVELOPMENT HOUSE PVT. LTD.

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Tel: +91 98102 42100, E-mail: indresearch@indresearch.com



Report No.: INDRESEARCH/2022/011

Page 03

| S. No. | Parameter | Test Method | Result | Unit |
|--------|---------------|-------------------|--------|----------------|
| 01. | Acidity (%) | INDRESEARCH/01.01 | 100.0 | mg/kg |
| 02. | Crude Fat (%) | INDRESEARCH/02.01 | 98.0 | mg/kg |
| 03. | Acidity (%) | INDRESEARCH/03.01 | 20.1 | mg/kg |
| 04. | Moisture | INDRESEARCH/04.01 | 99.0 | % |
| | Protein | | 20.0 | |
| | Carb | | 20.0 | |
| | Cell | | 20.0 | |
| 05. | Crude Fat (%) | INDRESEARCH/05.01 | 9.00 | % (calculated) |

Total of Report



[Signature]
 Mr. Vikas Mehta
 Authorized Signatory

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ISO 9001:2015 Certified Organization
ISO 14001:2015 Certified Organization
C-10, 2nd Floor, Sector-4, Noida-201301 (U.P.)

Tel: +91 11 27012444, E-mail: ind@indgroup.com



TEST REPORT

(Customer Copy)

| | |
|--------------------------|---|
| Report No. | IND-2023-1204-IND-710 |
| Date of Reporting | 22/11/2023 |
| Issued to | Ind Res Tech House Consult, G-8/8, Ground Floor, Sector-11, Noida, Delhi-201301 |
| Project Name | Test report of Ind Res Tech House (G-8/8) along with regeneration power plant at Ind Res Tech House (G-8/8) at Village Behrorwal, Distt. Ghaziabad, Uttar Pradesh, India. |
| Location | Project site |
| Date of Sampling | 22/11/2023 to 22/11/2023 |
| Type of Monitoring | Randomly Monitoring (Off-line) |
| Parameters to be sampled | PH _u , PH _l , SS, WS, TS |
| Weather condition | Clear sky |
| Method of sampling | As per standard Method |
| Sample drawn by | INDIA Team |

RESULTS

| S. No. | Parameter | Method | Results | Unit | Requirement (ISIRI B limits) |
|--------|-----------------------------------|----------------------|---------|------|------------------------------|
| 1. | Acidic Water as PH _u | ISIRI: ISIRI 15:2005 | 6.0 | upto | 6.0 |
| 2. | Acidic Water as PH _l | ISIRI: ISIRI 15:2005 | 11.0 | upto | 10.0 |
| 3. | Surface Water as WS | ISIRI: ISIRI 15:2005 | 6.0 | upto | 6.0 |
| 4. | Waste Water as WS | ISIRI: ISIRI 15:2005 | 11.0 | upto | 6.0 |
| 5. | Carbon Dioxide as CO ₂ | ISIRI: ISIRI 15:2005 | 1.0 | upto | 1.0 |

*These specifications published by ISIRI: ISIRI 15:2005 on 15 Nov. 2005

Test Report

Dr. Vikas Singh
Authorized Signatory

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100/1001, Sector-10, Gurgaon
Gurgaon, Haryana, India-122001

Tel: +91 122 4210000, E-mail: contact@indiaipr.com



TEST REPORT (Weather Test)

| | |
|------------------------|--|
| Report No. | IND-2023-0001-0001-110 |
| Date of Reporting | 20/10/2023 |
| Issued to | IND Tech House Consult, G-4/6, Ground Floor, Sector-10, Gurgaon, India-122001 |
| Project Name | Green House (Green Tech) Plant (100 sqm) along with regeneration power plant (1000 sqm) by IND Alpha Builders Ltd. at Village Bahawal, Tehsil, Okhla, District Mathura, UP |
| Location | Project site (IND) 1 |
| Date of Sampling | 11/10/2023 to 12/10/2023 |
| Type of Weathering | Ambient, Natural Weathering |
| Method of sampling | IND/UP 40/22 |
| Duration of Weathering | 24 hours |
| Sample drawn by | INDIA Team |

RESULTS

| Sr. No. | Location | No. Test Cubes (Average Sample) | Cracks (Average Sample) |
|---------|--------------|------------------------------------|----------------------------|
| IND-1 | Project site | 100 | 0/0 |

| IND Code | | | |
|----------|------------------|----------|------------|
| Sr. No. | Location | Day Test | Night Test |
| 1 | Industrial area | 0 | 0 |
| 2 | Commercial area | 0 | 0 |
| 3 | Residential area | 0 | 0 |
| 4 | Other Site | 0 | 0 |

Total Report

Dr. Sheela Singh
Authorized Signatory

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ANNEXURE V

निरी बंदरों के हमले में युवक घायल

मुंबई, 15 अक्टूबर (एन.पी.) - मुंबई के निरी बंदरों के हमले में घायल युवक की चोटों का इलाज अस्पताल में चल रहा है। घायल युवक का नाम राजेश कुमार है।

राजेश कुमार को मुंबई के निरी बंदरों के हमले में घायल किया गया था। घायल युवक को अस्पताल में भर्ती कराया गया है।

घायल युवक की चोटों का इलाज अस्पताल में चल रहा है। घायल युवक का नाम राजेश कुमार है।



घायल युवक को अस्पताल में भर्ती कराया गया है। घायल युवक का नाम राजेश कुमार है।

राजहठ

राजहठ का उपयोग करने से आपको निरी बंदरों के हमले से बचाव मिलेगा।

राजहठ का उपयोग करने से आपको निरी बंदरों के हमले से बचाव मिलेगा।

राजहठ का उपयोग करने से आपको निरी बंदरों के हमले से बचाव मिलेगा।

सर्वोत्तम पौधों की विशेषताएं

सर्वोत्तम पौधों की विशेषताएं हैं। ये पौधे आपको निरी बंदरों के हमले से बचाव देंगे।

सर्वोत्तम पौधों की विशेषताएं हैं। ये पौधे आपको निरी बंदरों के हमले से बचाव देंगे।

सर्वोत्तम पौधों की विशेषताएं हैं। ये पौधे आपको निरी बंदरों के हमले से बचाव देंगे।

सर्वोत्तम पौधों की विशेषताएं हैं। ये पौधे आपको निरी बंदरों के हमले से बचाव देंगे।

सर्वोत्तम पौधों की विशेषताएं हैं। ये पौधे आपको निरी बंदरों के हमले से बचाव देंगे।

सर्वोत्तम पौधों की विशेषताएं हैं। ये पौधे आपको निरी बंदरों के हमले से बचाव देंगे।

बोटीनप्लस

बोटीनप्लस का उपयोग करने से आपको निरी बंदरों के हमले से बचाव मिलेगा।

बोटीनप्लस का उपयोग करने से आपको निरी बंदरों के हमले से बचाव मिलेगा।

बोटीनप्लस का उपयोग करने से आपको निरी बंदरों के हमले से बचाव मिलेगा।

समय पर दिए हुए आपके आयकर से राष्ट्र है विकास की राह पर अग्रसर

समय पर दिए हुए आपके आयकर से राष्ट्र है विकास की राह पर अग्रसर

समय पर दिए हुए आपके आयकर से राष्ट्र है विकास की राह पर अग्रसर

संस्कृत भाषा में लिखित लेख का
अनुवाद और विश्लेषण के माध्यम से
संस्कृत भाषा को प्रचारित किया जा रहा है।



संस्कृत भाषा में लिखित लेख का
अनुवाद और विश्लेषण के माध्यम से



संस्कृत भाषा में लिखित लेख का
अनुवाद और विश्लेषण के माध्यम से



संस्कृत भाषा में लिखित लेख का
अनुवाद और विश्लेषण के माध्यम से



संस्कृत भाषा में लिखित लेख का
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अनुवाद और विश्लेषण के माध्यम से



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अनुवाद और विश्लेषण के माध्यम से



संस्कृत भाषा में लिखित लेख का
अनुवाद और विश्लेषण के माध्यम से



संस्कृत भाषा में लिखित लेख का
अनुवाद और विश्लेषण के माध्यम से



ANNEXURE VI



UTTAR PRADESH POLLUTION CONTROL BOARD
Building, No. 20, 21, Vidhaya Bhawan, Ganga Nagar, Lucknow-226001

Phone: 0522-278686, 278691, Fax: 0522-278796, Email: uppcb@uppcb.com, Website: www.uppcb.com

Correspondence No. _____

Date: 08/12/2022

URGENT PPN & Maharashtra/PPN/2022/TE/NE/2022/NA/002

To,

Shri SANJAY KUMAR

M/s. ALLIANCE DISTILLERY LIMITED

KHARWA, MOH-77-400, VILLAGE BUDHAWALL, CHHATA, MURGAON

MURGAON, MURGAON, MURGAON, DISTRICT

MURGAON

Sub: "Consent to Establish" under the provisions of Water (Prevention and Control of Pollution) Act, 1974 as amended and Air (Prevention and Control of Pollution) Act, 1986 as amended.

Re:

Kindly refer to the Consent to Establish application dated 22/11/2022 submitted for setting up of new methanol/water-methanol based distillery for the production of Rectified Spirit/Ethyl Alcohol Absolute/Methanol/Water. The said has been issued Environmental Clearance by Ministry of Environment, Forest & Climate Change, Government of India/State Level Environment Impact Assessment Authority, UP under the provisions of EIA Notification S.O. 1773(2) dated 14.06.2006 as amended.

That proposal to install Zero Liquid Discharge System as per the direction of Central Pollution Control Board.

The "Consent to Establish" under the provisions of Water (Prevention and Control of Pollution) Act, 1974 as amended and Air (Prevention and Control of Pollution) Act, 1986 as amended is hereby issued for setting up of new methanol/water-methanol based distillery for the production of Rectified Spirit/Ethyl Alcohol Absolute/Methanol/Water by notified production capacity, new material, manufacturing process, zero liquid discharge based effluent treatment system and effluent control system strictly as per the conditions of Environmental Clearance. The Consent to Establish shall be subject to following conditions:

1. That shall ensure compliance of the conditions imposed in Environmental Clearance issued by Ministry of Environment, Forest & Climate Change, Government of India/State Level Environment Impact Assessment Authority, UP.
2. The Distillery unit shall implement the project as per the proposal submitted and ensure strict compliance of zero liquid discharge system and no effluent shall be discharged outside the premises into any stream/river/surface water body.
3. That shall operate 300 days per year for Incineration Boiler/Control No-compost based zero liquid discharge system and for 270 days per year for incinerated No-compost based zero liquid discharge system.
4. The maximum permissible storage capacity for concentrated spent wash shall be 07 days equivalent to spent wash generation in case of Incineration Boiler based zero liquid discharge system and shall be 30 days equivalent to spent wash generation in case of No-composting based zero liquid discharge system.
5. Other process effluent streams shall be treated through Continuous Flowing effluent treatment unit and treated effluent shall be recycled and utilized in the process for irrigation as per the CWC guidelines dated 04.10.2019 for utilization of treated effluent as irrigation to achieve zero liquid discharge.
6. That shall install effective Air Pollution Control System and adequate stack height from ground level as per the provisions of Environment (Protection) Rules, 1986 in order to ensure that the stack emissions conform to the prescribed norms.

7. Unit shall abstract ground water only with valid permission of Uttar Pradesh Ground Water Department under the permission of Uttar Pradesh Ground Water (Management & Regulation) Act, 2019 as amended and ensure compliance of its conditions.

8. Installation and implementation of Online Continuous Monitoring System (OCMS) with a least 99% uptime, connected to the servers of the Central Pollution Control Board and State Pollution Control Board to report the real time quantity and quality of effluents and discharges.

9. In case of Bio-composting based Zero Liquid Discharge System, the operation of Bio-composting shall be strictly in accordance with the Standard Operating Procedure of Central Pollution Control Board.

10. Unit shall obtain Consent to Operate from CPCB under Water (Prevention & Control of Pollution) Act, 1974 and Air (Prevention & Control of Pollution) Act, 1986 prior to the commencement of production.

11. The validity of Consent to Establish shall be 07 (Seven) years from the date of issue.

12. The industry shall ensure to install the roof top Rain Water Harvesting (RWH) system and generate water within the premises.

13. The industry shall comply with the provisions of Environment (Protection) Amendment, Rules 2016 notified by MoEF & CC by notification no. 49/26-27/2016, Environment (Protection) Act 1986, Water (Prevention and Control of Pollution), 1974, Air (Prevention and Control of Pollution), 1986 as amended, Plastic Waste Management Rules, 2016 & Hazardous and Other Waste (Management and Transboundary Movement), Rules 2016 (Whichever is applicable).

14. The unit shall comply with the charter of OMS prepared by the authority units.

15. Unit shall deposit bank guarantee of Rs. 10 Lacs only for the compliance of above conditions within 15 days from issuance of this certificate.

Chief Environmental Officer

Cop

1. Director, Impact Assessment Division, Ministry of Environment, Forest & Climate Change, Government of India, New Delhi-110003.

2. Member Secretary, State Level Environment Impact Assessment Authority, UP

3. District Commissioner, Government of Uttar Pradesh, Lucknow

4. Regional Officer, CPCB Mathura

Chief Environmental Officer