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File No: IA-J-11011/190/2023-IA-II(I)  
Government of India  
Ministry of Environment, Forest and Climate Change  
IA Division  
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Date 03/01/2025



To,

Sh. N.B. Singh,  
M/s. BAJAJ HINDUSTHAN SUGAR LIMITED,  
Gola Gokarannath, Lakhimpur Kheri, Muradabad Urf Nakta, Gulada Macchwapur, PILIBHIT, UTTAR  
PRADESH, 262802  
nbsingh.gol@bajajhindusthan.com

**Subject:** Establishment of new Cane Juice Syrup / Grains / B or C-Heavy Molasses Based Distillery Having Capacity - 570 KLD along with 10.0 MW Co Gen Power at Village: Muradabad Urf Nakta, Gulada Macchwapur, Tehsil: Bisalpur, District: Pilibhit, Uttar Pradesh by M/s Bajaj Hindusthan Sugar Limited, Unit-Barkhera - Grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 regarding.

Sir/Madam,

This is in reference to your application submitted to MoEF&CC vide proposal number IA/UP/IND2/497557/2024 dated 05/11/2024 for grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 and as amended thereof.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC24A2501UP5563646N
(ii) File No.	IA-J-11011/190/2023-IA-II(I)
(iii) Clearance Type	Fresh EC
(iv) Category	A
(v) Project/Activity Included Schedule No.	5(g) Distilleries
(vi) Sector	Industrial Projects - 2 ESTABLISHMENT OF NEW CANE JUICE SYRUP / GRAINS / B or C-HEAVY MOLASSES BASED DISTILLERY HAVING CAPACITY – 570 KLD ALONG WITH 10.0 MW CO GEN POWER AT VILLAGE: MURADABAD URF NAKTA, GULADA MACCHWAPUR, TEHSIL : BISALPUR & DISTRICT: PILIBHIT, UTTAR PRADESH OF M/S BAJAJ HINDUSTHAN
(vii) Name of Project	

**(viii) Name of Company/Organization**  
**(ix) Location of Project (District, State)**  
**(x) Issuing Authority**  
**(xi) Applicability of General Conditions as per EIA Notification, 2006**

SUGAR LIMITED, UNIT: BARKHERA  
BAJAJ HINDUSTHAN SUGAR LIMITED  
PILIBHIT, UTTAR PRADESH  
MoEF&CC  
No

3. The Ministry of Environment, Forest and Climate Change has examined the proposal for proposed establishment of new Cane Juice Syrup/Grains/B or C-Heavy Molasses Based Distillery Having Capacity - 570 KLD along with 10.0 MW Co-Gen Power at Village: Muradabad Urf Nakta, Gulada Macchwapur, Tehsil: Bisalpur, District: Pilibhit (Uttar Pradesh) by M/s Bajaj Hindusthan Sugar Limited, Unit: Barkhera.

4. The proposal was considered in EAC (Ind-2) meetings held on 21st November, 2024 wherein the project proponent and their accredited Consultant M/s. ETRC Consultants Pvt. Ltd. (formerly known as Environmental and Technical Research Centre, Lucknow) (NABET certificate no. NABET/EIA/2225/RA 0273\_Rev.01 and validity 02nd November, 2025) made a detailed presentation on the salient features of the project. The minutes of the meeting and all the Applications and documents submitted [(viz. Form-1 Part A, Part B, Part C EIA, EMP)] are available on the PARIVESH portal which can be accessed by scanning the QR Code available above or through the following web link click here.

5. All Molasses based Distillery > 100 KLD are listed at S.N.- 5(g) of Schedule of Environment Impact Assessment (EIA) Notification under category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC). It is Cane Juice Syrup/Grain /B heavy Molasses or C heavy Molasses based Distillery Plant.

6. The details of products and capacity are enclosed in Annexure 2.

7 (i). Standard Terms of Reference have been obtained vide F. No. IA-J-11011/190/2023-IA-II(I), dated 28.04.2023. There is one pending litigation regarding the Bajaj Hindusthan Sugar Limited (BHSL) Barkhera sugar unit in the Hon'ble Supreme Court against demand of penalty imposed by the Central Pollution Control Board New Delhi. The BHSL Barkhera had filed a petition for Special Leave to Appeal (C) No.18356/2019 in the Hon'ble Supreme Court against the CPCB order dated 30.05.2019. The Hon'ble Supreme Court, in its order dated 09.08.2019, stated that "The demand of penalty imposed by the Central Pollution Control Board shall remain stayed".

7 (ii). Chronology of Pending Litigation: The Chronology of pending litigation of BHSL Barkhera sugar unit in the Hon'ble Supreme Court against demand of penalty imposed by the Central Pollution Control Board New Delhi is as under-

- The unit was inspected by CPCB officials on 26.03.2019 found lagoon sample was not meeting the discharge norms and found to be non-compliance with the CPCB norms as per GSR 35(E) dated 14th January 2016.
- The CPCB issued direction dated 30.5.2019 under section 5 of EP Act, 1986 to the unit, The CPCB imposed an Environmental Compensation (EC) of Rs. 1,36,50,000/ on the sugar unit through a direction dated 30.05.2019, with the direction to deposit the same within 15 days in CPCB account towards Environmental Compensation. The Environmental compensation was calculated by CPCB for past two cane crushing season 17-18 and 18-19 i.e Rs. 27,30,000/ & Rs 1,09,20,000/ respectively.
- Unit submitted representation vide letter dated 17.06.2019 requesting to re-assess the environmental compensation imposed on unit.
- The CPCB New Delhi was given 15 days' time to submit the said Environmental Compensation, The BHSL Barkhera had filed a petition for Special Leave to Appeal (C) No. 18356/2019 in the Hon'ble Supreme Court against CPCB order dated 30.05.2019. The Hon'ble Supreme Court, in its order dated 09.08.2019, stated that "The demand of penalty imposed by the Central Pollution Control Board shall remain stayed."
- The unit replies were examined by CPCB & as per the Central Pollution Control Board's office order dated 04.09.2019, the above amount of Environmental Compensation was recalculated by CPCB to Rs.6,90,000/- for the period from the date of inspection (26.03.2019) to the end of operations in the 2018-19 crushing season (17.04.2019). Though the EC penalty has been stayed but it will be subject to the final judgment of the Hon'ble Supreme Court in the matter of Bajaj Hindusthan Sugar Limited vs. Central Pollution Control Board in SLA (C) No. 18356/2019.

- This case is presently pending in the Hon'ble Supreme Court.

7 (iii) Public Hearing for the proposed project had been conducted by the Uttar Pradesh Pollution Control Board on 26.06.2024 at the Proposed Project Site chaired by District Magistrate, Pilibhit. The main issues raised during the public hearing and their action plan is enclosed in Annexure 5.

8. Total plant area will be 43.127 Ha. Out of the total plant area, 14.231 Hectares, i.e., 33% of the total plant area will be developed as greenbelt & plantation and the same will be maintained under greenbelt & plantation in and around plant premises. The estimated project cost is Rs. 70294.59 Lakhs. The capital cost of EMP would be Rs. 7560 Lakh or 75.60 Crores and the recurring cost for EMP would be Rs. 8.50 Crores per annum. Industry proposes to allocate Rs. 10.55 Crores towards extended EMP. Total Employment after expansion will be 200 persons directly & indirectly.

9. There are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves and Wildlife Corridors etc. within 10 km distance. No schedule – I Species found in the study area. Water bodies: Deoha River is at a distance of 1.94 Km in the North-West direction. NOC has been obtained from Flood Division, Puranpur, Peelibhit, Department vide letter no. 555/BA.KHA.PU.PI./F-J. dated 23rd March 2024 stating that in last 25 years no flood situation in the area due to nearby rivers and water bodies.

10. Ambient air quality monitoring was carried out at 8 locations during Post Monsoon (01st October 2023 to 31st December 2023) and the baseline data indicates the ranges of concentrations as: PM10 (68.7 to 89.9  $\mu\text{g}/\text{m}^3$ ), PM2.5 (35.0 to 51.25  $\mu\text{g}/\text{m}^3$ ), SO2 (8.10 to 15.42  $\mu\text{g}/\text{m}^3$ ) and NO2 (9.79 to 17.07  $\mu\text{g}/\text{m}^3$ ). AAQ modelling study for point source emissions indicates that the maximum incremental GLCs for the establishment of the proposed project would be 0.47  $\mu\text{g}/\text{m}^3$ , 0.16  $\mu\text{g}/\text{m}^3$ , 0.78  $\mu\text{g}/\text{m}^3$  and 1.03  $\mu\text{g}/\text{m}^3$  with respect to PM10, PM2.5, SO2 and NOX. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

11. During the Sugar Season, 100 % treated water from the sugar unit will be utilised in the Distillery plant. Zero Liquid Discharge will be ensured for the sugar unit. Surplus treated water if any after recycling and reuse in sugar and distillery will be utilised in Irrigation as per GSR 35(E) dated 14th January 2016. The distillery will be based on Zero Liquid Discharge. Application has been submitted to Uttar Pradesh Ground Water Department by application number: PLBH1124NIN0032. Freshwater requirement which shall be met from groundwater on different feedstock (Cane Juice Syrup/Grain/C or B Heavy Molasses) are as follows:

- a. During Cane Juice Syrup based operation at 570 KLD: for initial startup water requirement will be 6367 KLD and after recycling of 5501 KLD (out of total water recycled water 4201 KLD from Distillery and 1300 KLD treated water from Sugar Unit) and, daily fresh water requirement will be 866 KLD (1.51 KL/ KL of Product). Effluent in the form of spent wash generated will partly be recycled into the process and rest shall be concentrated in Multi-effect evaporation and the concentrate from MEE incinerated in the 25 TPH & 100 TPH Incineration fired boiler along with bagasse/other biomass
- b. During Grain-based operation at 570 KLD: for initial startup water requirement will be 6659 KLD and after recycling of 4379 KLD water, daily freshwater requirement will be 2280 KLD (4.0 KL/KL of Product). Spent wash generated will be first fed into the decanter for solid separation then supernatant from the decanter will be concentrated in MEE. Concentrate from MEE will be mixed with wet cake of decanter. Mixture will be fed into the dryer for moisture removal. After drying DDGS will be sold as cattle feed.
- c. During B Heavy or C Heavy operation at 570 KLD: for initial startup water requirement will be 6805 KLD and after recycling of 4525 KLD water, daily freshwater requirement will be 2280 KLD (4.0 KL/KL of Product) considering Sugar non-crushing season. Effluent in the form of spent wash generated will be concentrated in Multi-effect evaporation and the concentrate from MEE will be incinerated in the 25 TPH & 100 TPH Incineration fired boiler of capacity 25 TPH as a fuel along with bagasse/other biomass.
- d. Other effluent generation will be treated in CPU and recycled in the process after treatment. The distillery plant will be based on Zero Liquid Discharge System. Domestic wastewater will be treated in STP (Capacity - 50 KLD)

*# 100 % Treated condensate water from the sugar unit will be utilised in the Distillery plant during the Sugar season, ETP Treated water recycling will be dependent on cane crushing of plant (upto 1500 KLD Treated Condensate of Sugar unit).*

12. The maximum power requirement for the proposed project will be 5470 KWH in Cane Juice Syrup / 5800 KWH in B

Heavy Molasses or C Heavy Molasses based operation and 7730 KWH during Grains based operation, which will be sourced from inhouse Co-generation power plant of 10 MW and for emergency backup 02 nos. of 1500 KVA DG set will be installed. 02 number of incineration boilers (01 no. 25 TPH Slop fired and 01 no. 100 TPH incineration boiler) will be installed. APCE ESP with a stack of height of 85 m will be installed in the proposed Distillery Unit for controlling the particulate emissions within the statutory limit of 50 mg/Nm<sup>3</sup> for the proposed boilers. The industry will install 1500 KVA (02 No) DG set which will be used as standby during power failure and stack height (7.8 m) will be provided as per CPCB norms to the proposed DG sets.

#### 13. Details of Process emissions generation and its management:

- APCE ESP with a stack of height of 85 m will be installed in Distillery Unit for controlling the particulate matter emissions within the statutory limit of 50 mg/Nm<sup>3</sup> for the proposed boilers.
- CO<sub>2</sub> : 399 TPD (maximum), will be bottled and provided to Beverage Industry.
- Online Continuous Emission Monitoring System will be installed with the stack and data will be transmitted to CPCB/SPCB servers.
- Excavation activity strictly restricted to in windy days,
- Site will be covered from all four sides by Green Nets curtains to avoid emission within construction sites.
- PUC holder trucks will be allowed at site during construction phase.
- Frequently water sprinkling will be carried out in dust emission area.
- Use of Tarpaulin on the trucks to suppress the dust emission during transportation of raw material.
- Internal tarred roads will be available; hence, there will be no major dust emission.
- To avoid health hazards during construction phase, personal protective equipment's will be provided to workers as and when required.

#### 14. Details of solid waste/Hazardous waste generation and its management:

- The total ash generated during Cane Juice syrup-based operation will be 99.64 MT/Day, Grain based operation will be 21.6 MT/day and B or C heavy Molasses based operation will be 206 MT/day. Details of Solid waste generation from the proposed unit:
- Yeast Sludge generated for proposed project will be 50 MT/Day will be mixed with press mud of Sugar mill and sold to the farmer.
- Condensate polishing unit sludge generated will be 4.0 KLD which will be mixed with press mud of Sugar mill and sold to the farmer.
- During Grain based operation of Distillery unit, DDGS will be generated – 289 MT/Day and will be provided as Cattle Feed.
- Used Oil & Grease generation will be approx.: 1500 Liters /Annum. Hazardous authorization will be obtained from State Pollution Control Board. Hazardous waste will be provided to the Authorised Vendor of UPPCB for further disposal. Hazardous waste will be disposed as per the Hazardous Waste Management Rules 2016.
- Domestic Waste generation during the operation phase will be approx.; 55 kg /Day. Out of total waste, 40% waste will be organic in nature and rest 60% is in inorganic in nature. 40% organic waste will be disposed through Composting within premises. Inorganic waste will be disposed as per Solid Waste Management Rules 2016.

15. Total land of 43.127 Hectares is under possession of the company and land use conversion has been completed in 23.01.2006.

#### 16. During deliberations, EAC discussed the following issues:

- EAC noted that the proposed distillery is located adjacent to Barkhera sugar unit of 10000 TCD along with Co gen power - 21 MW. PP has informed that the sugar unit is operating prior to commencement of EIA notification, 2006 and EC is not applicable. PP has also submitted copy of CTE obtained vide letter dated 13.10.2005 for establishment of 10000 TCD sugar unit confirming the same. Further, PP has submitted CTO compliance report dated 28.06.2024 for the sugar unit. EAC found the compliance status satisfactory.
- PP shall increase the budget for extended EMP from 1 to 1.5% of total project cost.
- As desired by the committee, PP has submitted the revised water balance based on different modes of feed stock.
- PP has informed that ambient air quality monitoring will be conducted as per CPCB guidelines and National Ambient

Air Quality Standards (NAAQS), 2009. Monitoring will cover all parameters at three locations. Total 104 measurements per year will be carried out at each location, with samples collected twice a week for 24-hourly durations at regular intervals.

- PP has informed that one litigation is pending against the Sugar unit and the details of the same were submitted. Though the EC has stayed but it will be subject to the final judgment of the Hon'ble Supreme Court in the matter of Bajaj Hindusthan Sugar Limited vs. Central Pollution Control Board in SLA (C) No. 18356/2019. EAC suggested that, PP shall adhere to outcome of the court case.
- EAC suggested that emissions from the existing sugar unit stack shall be reduced to within 50 mg/Nm<sup>3</sup> within 36 months by upgrading air pollution control system.
- PP has informed that Ethanol storage capacity will be reduced from 26 days to 20 days. Further, PP has submitted Cumulative consequence analysis for pipeline leakage scenarios for 10 cm, 15 cm and 25 cm. EAC noted that the threat zone is confined within the premises of Industry.

The committee was satisfied with the response provided by PP on above information. Further, Committee desired to submit the above information in writing. Accordingly, PP has submitted the desired information and EAC found the information/commitments satisfactory.

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 QCI/ 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 EIA/EMP report is in compliance of the ToR issued for the project, reflecting the present environmental concerns and the projected scenario for all the environmental components. The Committee has found the baseline data is within NAAQ standards. The Committee has deliberated the action plan proposed by the project proponent to arrest the incremental GLC due to the project. The Committee has also deliberated on the CER 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/construe to approvals/consent/ permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ 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, 1981, 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 establishment of new Cane Juice Syrup / Grains / B or C-Heavy Molasses Based Distillery Having Capacity - 570 KLD along with 10.0 MW Co-Gen Power at Village: Muradabad Urf Nakta, Gulada Macchwapur, Tehsil: Bisalpur, District: Pilibhit (Uttar Pradesh) by M/s Bajaj Hindusthan Sugar Limited, Unit: Barkhera**, under the provisions of the EIA Notification, 2006, and the amendments therein, subject to compliance of the terms and conditions enclosed at Annexure-1.

21. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time-bound manner. The Ministry may revoke or suspend the Environmental Clearance, if the implementation of any of the above conditions is not found satisfactory.

22. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment

(Protection) Act, 1986.

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

24. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 read with subsequent amendments therein.

25. This issues with the approval of the Competent Authority.

#### **Copy To**

1. The Secretary, Department of Environment, Government of Uttar Pradesh, 601, Babu Bhawan, Secretariat, Vidhan Sabha Marg, Lucknow (UP) – 1.
2. The Regional Officer, Ministry of Env., Forest and Climate Change, Regional Office, Kendriya Bhawan, 5th Floor, Sector “H”, Aliganj, Lucknow – 226020.
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi – 32.
4. The Member Secretary, Uttar Pradesh Pollution Control Board, Building No. TC-12V, Vibhuti Khand, Gomti Nagar, Lucknow – 10
5. The Member Secretary, Central Ground Water Authority, 18/11, Jamnagar House, Mansingh Road, New Delhi – 11.
6. Compliance & Monitoring Division, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi.
7. The District Collector, District Pilibhit, Uttar Pradesh.
8. Guard File/Monitoring File/Parivesh portal/Record File.

#### **Annexure 1**

#### **Specific EC Conditions for (Distilleries)**

#### **1. Distilleries**

<b>S. No</b>	<b>EC Conditions</b>
<b>1.1</b>	The project proponent shall abide by all orders and judicial pronouncements made from time to time in the case filed in High Court Allahabad /NGT/ Supreme Court any other Judicial pronouncement.
<b>1.2</b>	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 (Annexure - 3 & 4).
<b>1.3</b>	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. Conversion of land use (CLU) certificate shall be obtained before start of construction activities.
<b>1.4</b>	NOC from the Concerned Local authority shall be obtained before start of the construction of plant and drawing water from ground water. State Pollution Control Board shall not issue the Consent to Operate (CTO) under Air (Prevention and Control of Pollution) Act and Water (Prevention and

S. No	EC Conditions
	Control of Pollution) Act till the project proponent shall obtain such permission.
1.5	Total Fresh water requirement for distillery during Cane Juice Syrup based operation shall not exceed 866 KLD, during Grain based operation and during B Heavy operation shall not exceed 2280 KLD shall be met from ground water. During the Sugar Season, treated water from sugar unit will be utilised in Distillery plant. Proposed distillery shall be operated either on Cane Juice Syrup or on B heavy Molasses as feedstock. Surplus treated water, if any shall be utilized for Irrigation as per GSR 35(E) dated 14th January 2016. Industry shall install double stage RO system for utilizing treated water of Sugar unit in proposed distillery unit. Treated effluent from the sugar unit shall be used in distillery to reduce freshwater requirement. No ground water recharge shall be permitted within the premises. Industry shall construct a rainwater storage pond of adequate capacity and the accumulated water to be used as fresh water thereby reducing freshwater consumption.
1.6	Spent Wash/stillage shall be sent to the decanter followed by the Multiple Effect Evaporator and dryer to form DDGS. DDGS to be used as cattle feed. The MEE & Drier condensate, spent lees, WTP Rejects, Boiler & Cooling tower blowdowns, washings etc. shall be treated in the 'Condensate Polishing Unit' (CPU). STP shall be installed to treat domestic wastewater. The plant will be based on 'Zero Liquid Discharge' system and no effluent/treated water will be discharged outside factory premises.
1.7	The spent wash form molasses-based distillery shall be concentrated in MEE and concentrated spent wash shall be incinerated in the incineration boiler. Other lean effluents Spent lees, MEE Condensates and utility effluents shall be treated in the condensate polishing unit (CPU) comprising of three stage RO. No wastewater or treated water from integrated unit of sugar mill and distillery shall be discharged outside the premises and Zero Liquid Discharge shall be maintained for all the units namely sugar, Distillery and Cogen Power Plant. STP shall be installed to treat sewage generated from factory premises.
1.8	Adequate numbers of ground water quality monitoring stations by providing piezometers around the project area shall be set up considering the ground water hydrogeology. Sampling and trend analysis monitoring must be conducted on monthly basis and report submitted to SPCB and RO- MOEFCC. The ground water quality monitoring for pH, BOD, COD, Chloride, Sulphate and Total Dissolve Solids shall be monitored and report submitted to the Ministry's Regional Office.
1.9	Five-field ESP as APCE with efficiency of at least 99.8% shall be installed with the proposed 25 TPH Slop fired and 100 TPH incineration boiler with 85 m high stack for controlling the particulate matter emissions within the statutory limit of 50 g/m <sup>3</sup> . Coal shall not be used as fuel. 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.
1.10	The APCE's installed with the existing boilers in the sugar unit stack shall be upgraded within 36 months to meet the particulate matter emission norms of $\leq 50 \text{ mg/Nm}^3$ .
1.11	Yeast Sludge generated (50 MT) Day shall be mixed with press mud of Sugar mill and sold to the farmer. Condensate polishing unit sludge generated (4.0 KLD) shall be mixed with press mud of Sugar mill and sold to the farmer. DDGS generated (289 MT/Day) shall be provided as Cattle Feed. PP shall install equivalent of 15% of the total power requirement in the form of solar power inside plant premises/adjacent/nearby areas.

S. No	EC Conditions
1.12	CO <sub>2</sub> (399TPD) generated during the fermentation process shall be collected by utilizing CO <sub>2</sub> bottling plant and it shall be sold to authorized vendors/collected in bottling plant.
1.13	PP shall allocate at least Rs. 0.86 Crores proposed as a capital cost and Rs. 0.30 Crores as recurring cost 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.
1.14	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.
1.15	The unit shall make arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms. PESO certificate shall be obtained. Location of ethanol storage tanks shall be placed in such a way that in the event of any fire, accident, explosion or any unforeseen conditions the impact of such event should not go beyond the boundary of the plant, i.e., the risk should be tolerable (acceptable) at the boundary.
1.16	Company shall maintain an Emergency Response Decision support system in such a way so that identification of the detector's network for the location of the leak source and the probable leaked quantity in real-time, followed by modelling of the dispersion of the plume and consequences as forecast is done in advance and thus, no leak accident may go unattended. Accordingly, Risk Mitigation plan shall be in place.
1.17	Company shall determine the distance of fire hydrant while finalizing its location from ethanol storage tanks or any other hazardous storage substance shall be based on dispersion of Thermal Radiation so that during any unforeseen situation fire hydrant is always available to operate manually.
1.18	Process organic residue and spent carbon, if any, shall be sent to Cement and other suitable industries for its incinerations. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF.
1.19	The company shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapour recovery system. (f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.
1.20	Greenbelt of atleast 5-10 m width has already been developed in 14.231 hectares i.e., 33 % of total project area with tree density @ 2500 trees per hectares, mainly along the plant periphery. Indigenous species shall only be developed as part of greenbelt and non-indigenous / alien species shall be replaced with native species. No invasive or alien or non-native tree species shall be selected for plantation. PP shall develop at least 20 variety of species as a part of greenbelt. Saplings 4-6 feet high shall be planted. 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. Trees shall be planted in the Green Belt under the campaign #Plant4Mother #एक पेड़ माँ के नाम and uploaded on the MeriLiFE portal ( <a href="https://merilife.nic.in/">https://merilife.nic.in/</a> ). No cutting of existing tree is permitted.



S. No	EC Conditions
1.21	PP proposed to allocate Rs. 10.55 Crores towards Extended EMP (Annexure - 5) which shall be spent as per plan submitted. Further, all the proposed activities under extended shall be completed before the commissioning of the plant in consultation with District Administration.
1.22	There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products and no parking to be allowed outside on public places. At least 15% of total project area shall be allotted solely for parking of distillery purposes with facilities like rest rooms etc. Industry shall ensure that, during non-crushing seasons, the cane yard of the sugar unit shall be utilized for parking purposes, primarily to accommodate vehicles involved in the transportation of materials to and from the distillery unit.
1.23	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 garland drains with catch pits to trap runoff material shall be provided. Biomass shall be stored in covered sheds and wind breaking walls/curtains 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.
1.24	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 SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.
1.25	Ambient air quality monitoring will be conducted at three locations as per CPCB guidelines and National Ambient Air Quality Standards (NAAQS), 2009. Monitoring will cover all parameters. Total 104 measurements per year will be carried out at each location, with samples collected twice a week for 24-hourly durations at regular intervals.
1.26	A separate Environmental Management Cell (having qualified person with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions. EMC head shall report directly to Head of Organization/ Director/CEO as per company hierarchy.
1.27	PP 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 Plastic in order to ensure the compliance of Notification published by MOEFCC on 12 <sup>th</sup> 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.

#### Standard EC Conditions for (Distilleries)

#### 1. General Conditions

S. No	EC Conditions
1.1	No further expansion or modifications in the plant, other than mentioned in the EIA Notification,

S. No	EC Conditions
	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 this 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.
1.2	The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.
1.3	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. 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).
1.4	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CER activities shall be undertaken by involving local villages and administration and shall be implemented. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
1.5	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.
1.6	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.
1.7	The project proponent shall also submit six 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 six monthly compliance status report shall be posted on the website of the company.
1.8	The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution 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 Offices of MoEF&CC by e-mail.
1.9	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 SPCB/Committee and may also be seen at Website of the Ministry and at <a href="https://parivesh.nic.in/">https://parivesh.nic.in/</a> . 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.

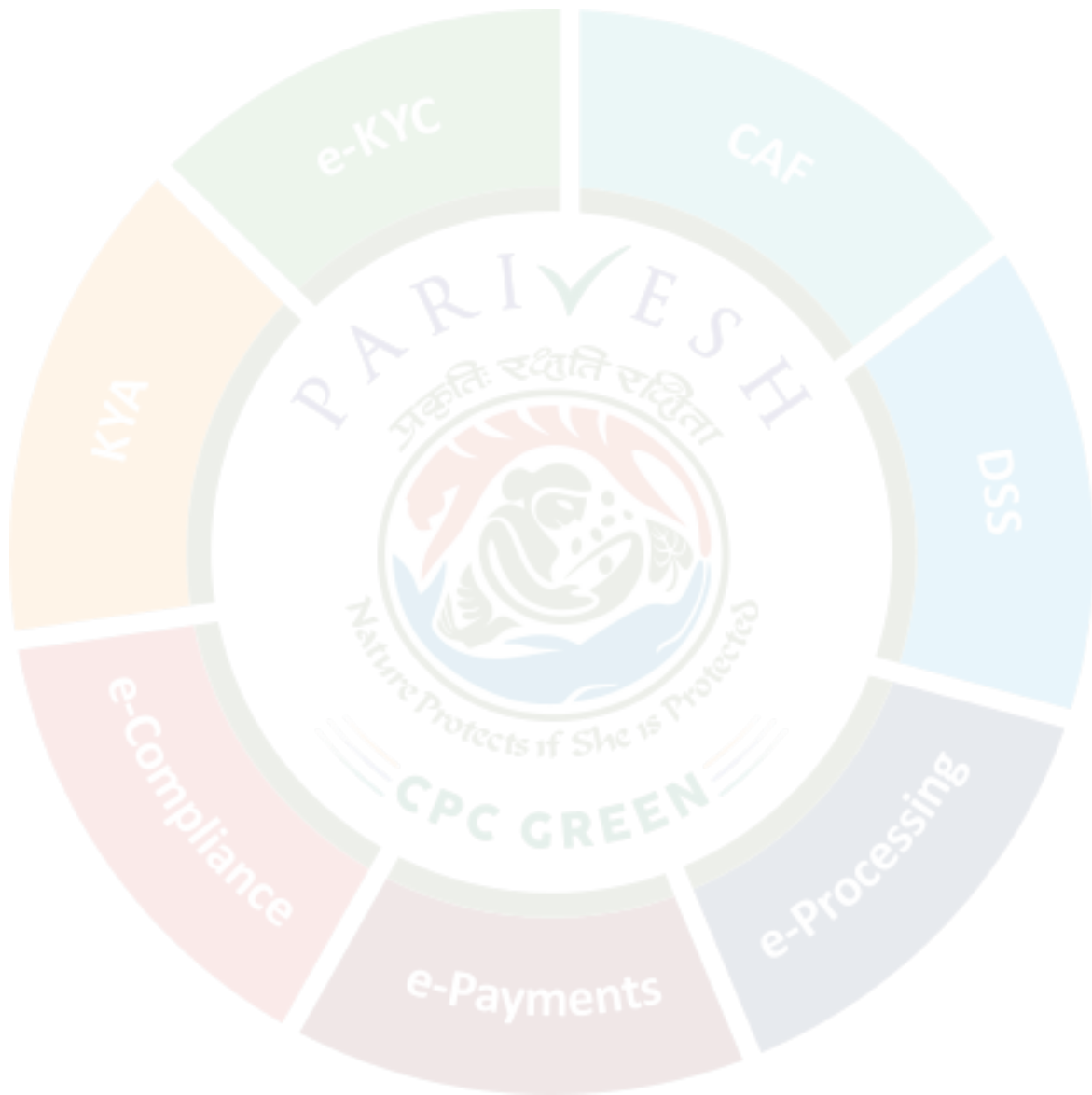
S. No	EC Conditions
1.10	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.
1.11	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.

## Annexure 2

### Details of the Project

S. No.	Particulars	Details								
a.	Details of the Project	ESTABLISHMENT OF NEW CANE JUICE SYRUP / GRAINS / B or C-HEAVY MOLASSES BASED DISTILLERY HAVING CAPACITY – 570 KLD ALONG WITH 10.0 MW CO GEN POWER AT VILLAGE: MURADABAD URF NAKTA, GULADA MACCHWAPUR, TEHSIL : BISALPUR & DISTRICT: PILIBHIT, UTTAR PRADESH OF M/S BAJAJ HINDUSTHAN SUGAR LIMITED, UNIT: BARKHERA								
b.	Latitude and Longitude of the project site	28.46934821522688,79.80115441721279 28.47947023251669,79.80863192185731								
c.	Land Requirement (in Ha) of the project or activity	<table border="1"> <thead> <tr> <th>Nature of Land involved</th> <th>Area in Ha</th> </tr> </thead> <tbody> <tr> <td>Non-Forest Land (A)</td> <td>43.127</td> </tr> <tr> <td>Forest Land (B)</td> <td>0</td> </tr> <tr> <td>Total Land (A+B)</td> <td>43.127</td> </tr> </tbody> </table>	Nature of Land involved	Area in Ha	Non-Forest Land (A)	43.127	Forest Land (B)	0	Total Land (A+B)	43.127
		Nature of Land involved	Area in Ha							
		Non-Forest Land (A)	43.127							
		Forest Land (B)	0							
Total Land (A+B)	43.127									
d.	Date of Public Consultation	Public consultation for the project was held on 2024-06-26								
e.	Rehabilitation and Resettlement (R&R) involvement	NO								
f.	Project Cost (in lacs)	Rs. 70294.59 Lakhs								
g.	EMP Cost (in lacs)	Rs. 7560 Lakhs								

S. No.	Particulars	Details
h.	Employment Details	Total Employment after expansion will be 200 persons as direct & indirect



**The details of products and capacity as under:**

S. No	Unit	Product/ byproduct	Existing Quantity	Proposed Quantity	Total Quantity
1.	Ethanol/Extra Neutral Alcohol (ENA)/ Rectified Spirit (RS)	Product	-	570 KLD	570 KLD
2.	Power	Product	-	10.0 MW	10.0 MW
3.	Carbon Dioxide (CO <sub>2</sub> )	By product	-	399 TPD	399 TPD

That, proposed Distillery designed capacity will be 570 KLD for all feedstock (Cane Juice Syrup / Grain / B Heavy Molasses or C Heavy Molasses). Distillery will be run on one feedstock at a time. Details of raw material on different feedstock at 570 KLD are as follows:

Sr.No.	Particular	Quantity, MT/Day	Storage	Source of raw material & Mode of Transportation
<b>Cane Juice Syrup based</b>				
1.	Cane Juice Syrup	1628 MT/Day	24 Hour	Adjacent sugar mill. Through Pipelines.
<b>or</b>				
<b>Grain Based</b>				
2.	Grain	1268 MT/Day	30 Days	Nearby market and truck will be used for transportation
<b>or</b>				
<b>Molasses (B or C heavy) based</b>				
3.	Molasses (B or C heavy)	1900 MT/Day (B-Heavy) <b>Or</b> 2478 MT/Day (C-Heavy)	30 Days	Adjacent sugar mill and nearby sugar unit through roads.

**Annexure-3**

**Details of capital and recurring cost of EMP:**

Sr. No.	Description	Capital Cost (Lakhs)	Recurring Cost Lakhs / Annum
1.	Air Pollution Control Equipment (APC) in the form of ESP, Stack and ID Fan	1140	110

2.	Secondary effluent treatment plant, DM plant, WTP	1125	210
3.	Environmental Monitoring and Management, Online Equipment etc	95	15
4.	Green Belt Development	152	25
5.	Occupational Health & Safety	86	30
6.	Rainwater harvesting Tank	110	5
7.	MEE, Decanter, DDGS Dryer and CO <sub>2</sub> Plant.	4852	455
<b>Total</b>		<b>7560</b>	<b>850</b>

**Annexure-4**

**Details of extended EMP with proposed activities and budgetary allocation:**

S. N.	Topic	Work to be done	Units	Total Cost (in lakhs)	FY 25-26 (in lakhs)	FY 26-27 (in lakhs)	FY 27-28 (in lakhs)	Completion Date
1	Health	Development of Govt. Hospital	2 Unit	40	-	2 Units at Tabakad Honnahalli & Bidaragaddi village 20      20		Dec-28
		Provision of equipment's and medicines	2 Unit	60	-	2 Units at Tabakad Honnahalli & Bidaragaddi village 30      30		
2	Education	Construction Government School with toilets, compound wall, smart classes and playground in Hunishikatti &	2 Units	90	-	2 Units at Hunishikatti & Bidaragaddi village 45      45		Dec-28

		Bidaragaddi village						
		Providing teaching aids/books, Furniture, Computers, library, Sports materials to Govt. Schools	5 Units	70	-	5 Units at Tabakad Honnahalli, Dyavankonda, Mukkal, Asthikatti, & Biravalli village		
						35	35	
		Improvement of play ground in Govt. School	5 Units	60	-	5 Units at Tabakad Honnahalli, Dyavankonda, Mukkal, Asthikatti, & Biravalli village		
						30	30	
3	Support for farmers	Construction of Farm Ponds in Tabakad Honnahalli, Biravalli & Bidaragaddi to support farmers	15 Units	50	5 Unit at Tabakad Honnahalli village	5 unit Bidaragaddi village	5 Unit at Biravalli village	Dec-28
					15	20	15	
4	Livestocks	Provision of livestock to nearby villages	20 Units	10	3	3	4	Dec-28
5	Provision for Drinking water supply	Provision for drinking water facilities to Hunishikatti & Bidaragaddi	2 Units	20	1 Unit at Hunishikatti village	1 Unit at Bidaragaddi village	-	Dec-28
					10	10		
6	Storm water drains	Construction of storm water drains in Tabakad Honnahalli & Bidaragaddi	2 Unit	80	1 unit at Tabakad Honnahalli village	1 Unit at Bidaragaddi village	-	Dec-28
					40	40		
7	Approach	Construction of Concrete		55	1 unit near to	-	-	Dec-28

	road infrast ructure	approach road near project site	1 Units		project site			
					55			
8	Road facility	Construction of Concrete internal roads in both villages	3 Units	135	1 unit at Tabakad Honnahal li village	1 Unit at Hunishika tti village	1 Unit at Bidaragad di village	Dec-28
					45	45	45	
9	Devel opmen t of lakes	Provision for the development of lakes	5 Units	30	Lake near project site, Hunshikat ti	Lake near Tabakad Honnahal li	Lake near Bendalag atti, malkanko ppa	Dec-28
					10	10	10	
10	Solar lightin g system	Provision of Solar lights and Solar Panel	50 numb er	50	20 No at Tabakad Honnahal li, Hunshikat ti village	10 No at Asthikatti village	20 No's at Bidaragad di, Biravalli village	Dec-28
					20	10	20	
11	Skill develo pment activiti es	Providing Infrastructural Support through Women Income Generating Programmes through the formation of SHGs to various economic activities like Cutting & Tailoring, Nursery, Stitching / embroidery, Pickle & Sauces	6 Units	90	2 Units at Hunishika tti village	2 Units at Bidaragad di village	2 Units at Tabakad Honnahal li village	Dec-28
					30	30	30	



	making, Soft Toys Courses will be carried out for Women Empowerment in the area.						
	Establishment of Skill Development Centre for providing short duration programs for unemployed youth in the field of electrician, plumber, motor mechanic	6 Units	90	2 Units at Hunishikatti village	2 Units at Bidaragadi village	2 Units at Tabakad Honnahalli village	Dec-28
	Skill Development training programmes for students by providing proper guidance, infrastructure, opportunities, and encouragement	4 Units	70	2 Units at Hunishikatti village	2 Units at Tabakad Honnahalli village	-	Dec-28
<b>Total cost in Lakhs</b>			<b>1000</b>	<b>293</b>	<b>393</b>	<b>314</b>	
<b>Total cost in Crores</b>			<b>10</b>	<b>2.93</b>	<b>3.93</b>	<b>3.14</b>	

**The main issues raised during the public hearing and their action plan:**

S. No	Name of Questioner	Question/ Suggestion/ Opinion	Answers	Action plan along with Budgetary Allocation
1	Mr. Ikram, village - Barkhera, District - Pilibhit.	The factory that is currently operational always produces dirty water, which affects the surrounding area, the local community, wildlife, and the river. As a result, the establishment of this industry is not appropriate.	Dr. A.V. Singh, a representative of the sugar unit, informed that no water from our sugar unit goes outside the factory premises. If any dirty water is disposed of outside the factory premises, we will inspect it and address your problem. However, the complaint you have raised is unfounded. Mr. Rohit Singh, the regional officer, also informed that the sugar unit has an O.C.E.M.S. system installed, which is connected to the Central Pollution Control Board/State Board server. If the factory discharges any kind of effluent from the factory premises, an alert is issued online. The Central Pollution Control Board conducts regular inspections through technological institutions and the Uttar Pradesh Pollution Control Board. If the industry is found guilty of any violations, the Board imposes environmental compensation and takes closure actions. No issues have been found against the industry in the past.	In proposed distillery spent wash will be concentrated in MEE than concentrate from MEE will be utilized as fuel in boiler in cane juice/C & B Heavy Molasses based operation. During Grain based operation: Spent wash will be fed into the decanter for solid separation. Supernatant from decanter will be concentrated in MEE than concentrate will be mixed with wet cake of decanter converted to DDGS. Industry allocated funds of Rs 4852 Lakh to achieve ZLD. Work will be completed before the start of operation.

2	<p><b>Mr. Jitendra Kumar, Village Barkhera, Pilibhit. Mobile Number: 8059221226</b></p>	<p>My suggestion is that, as my brother mentioned, there is dirty water coming out of this sugar factory. Sir, my village is close to this factory, and I have never seen dirty water being discharged. However, I would like to suggest that the Pollution Control Board's team conduct regular monitoring with integrity, so that no pollution issues arise. The establishment of the factory will lead to development, so the factory should be allowed.</p>	<p>Mr. Rohit Singh, the regional officer, also informed that the sugar unit has an O.C.M.M.S. system installed, which is connected to the Central Pollution Control Board/State Board server. If the factory discharges any type of effluent from the factory premises, it becomes known online. The regional officer stated that the Central Pollution Control Board conducts regular inspections through technological institutions and the Uttar Pradesh Pollution Control Board. If the industry is found guilty of any violations, the Board imposes environmental compensation and takes closure actions. Additionally, various portals are available for public complaints against the industry, and if any person files a complaint with the National Green Tribunal (NGT), the NGT converts the complaint into an Original Application (O.A.) and takes effective action against the guilty industry.</p>	<p>Online monitoring system will be installed as CPCB guidelines and will be connected to CPCB as well as UPPCB server. Industry allocated funds of Rs 50 Lakh to install an online monitoring system. Work will be completed before the start of operation.</p>
3.	<p><b>Mr. Mahendra Pal, Village Pilibhit Badhepur, Mobile Number: 7830618461</b></p>	<p>Won't this industry create employment?"</p>	<p>Dr. A.V. Singh, representative of the sugar unit, informed that they will hire technical personnel and will also give priority to the local villagers for employment.</p>	<p>Approx (200 direct) and (150 indirect) will get employment opportunities in the proposed distillery plant. Local people will get preference in employment</p>

			Currently, approximately 150 people from the surrounding areas are working at the sugar plant.	opportunity as per their qualification. Industry allocated funds of Rs 150 Lakhs for skill development of local people in nearby villages. Within 02 year from the start of construction works.
4.	<b>Mr. Brahaswaroop, Village Purainiya Bareilly, Mobile Number: 7618581960</b>	What products will come out of this plant ?	Dr. A.V. Singh, a representative of the sugar unit, informed that this project is being promoted by the Government of India, and it will produce ethanol, which will be mixed with petrol, thereby reducing pollution.	
5.	<b>Mr. Hemant Gangwar, Village Bhopatpur, Pilibhit. Mobile Number: 8394889931</b>	I have both a suggestion and a question. My suggestion is that whenever a factory is established, it leads to the development of the surrounding areas. Previously, the development from the establishment of factories has been good. My question is that when the sugar unit operates, villages within approximately 4 to 5 kilometers are affected. What measures will be taken in the future to prevent such issues?	Dr. A.V. Singh, a representative of the sugar unit, informed that the Air Quality Index (AQI) is monitored, and it is acknowledged that even when a vehicle operates, some dust is emitted. The plant being established will have a chimney with a height of approximately 85 meters, and our 90-megawatt power plant also has a chimney of 110 meters height, equipped with high-tech Electrostatic Precipitators (ESPs) that control dust and air	Industry will install ESP as an Air pollution control device with incineration boilers of capacity - 100 TPH & 25 TPH respectively. Industry allocated funds of Rs 1140 Lakhs for Air Pollution Control Device. Work will be completed before the start of operation.

			emissions. It also features an online continuous monitoring system connected to the board. If there is any deviation in air pollution standards, it is detected through alerts, and action is taken against the factory under the Pollution Control Act. The smoke emitted from the chimney complies with standards, and the new factory will also have an 85-meter-high chimney with ESP technology for air pollution control, ensuring that there will be no issues.	
6.	<b>Mr. Amod Kumar Pandey, Daulatpur Patti, Pilibhit. Mobile Number: 9758272005</b>	I would like to suggest that the factory management should carry out tree plantation.	Dr. A.V. Singh, a representative of the sugar unit, informed that under the Corporate Environmental Responsibility (CER) framework, we have allocated 5 million rupees for tree plantation, and we will certainly carry out the plantation activities. Additionally, the Pollution Department provides 50,000 plants annually for our sugar unit.	Approx 6000 nos of trees will be planted in nearby areas within two year from the date of start of construction of project. Industry allocated funds of Rs 70 Lakhs for plantation in nearby areas. Industry allocated funds of Rs 703 Lakhs which 1.5 % of project cost.