



सत्यमेव जयते

File No: J-11011/132/2005-IA.II(I)
Government of India
Ministry of Environment, Forest and Climate Change
IA Division



Dated 18/10/2024



To,

Mr. N.B. Singh
M/s BAJAJ HINDUSTHAN SUGAR LIMITED
Bajaj Hindusthan Sugar Ltd. Gola Gokarannath, Lakhimpur Kheri, U.P. , Kinauni, MEERUT, UTTAR
PRADESH, , 262802
nbsingh.gol@bajajhindusthan.com

Subject: **Proposed expansion of existing distillery unit capacity from 200 KLD to 840 KLD by Installation of distillery plant of capacity 640 KLD (Based on Cane Sugar Syrup / Grains / B Heavy Molasses or C Heavy Molasses along with co gen power capacity – 16 MW at village - Kinauni, Tehsil – Sadar, District – Meerut, Uttar Pradesh by M/s Bajaj Hindusthan Sugar Limited, Distillery Division, Unit – Kinauni - Consideration of Environmental Clearance - regarding.**

Sir/Madam,

This is in reference to your application for Grant of EC under the provision of the EIA Notification 2006-regarding in respect of project Expansion of existing distillery unit capacity from 200 KLD to 840 KLD by Installation of distillery plant of capacity 640 KLD (Based on Cane Sugar Syrup / Grains / B Heavy Molasses or C heavy Molasses along with co gen power capacity – 16 MW at village - Kinauni, Tehsil – Sadar, District – Meerut, Uttar Pradesh by M/s Bajaj Hindusthan Sugar Limited, Distillery Division, Unit – Kinauni. submitted to Ministry vide proposal number IA/UP/IND2/429103/2023 dated 26/07/2024.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC23C2503UP5730899N
(ii) File No.	J-11011/132/2005-IA.II(I)
(iii) Clearance Type	EC
(iv) Category	B2
(v) Project/Activity Included Schedule No.	5(g) Distilleries
(vi) Sector	Industrial Projects - 2
(vii) Name of Project	Expansion of existing distillery unit capacity from 200 KLD to 840 KLD by Installation of distillery plant of capacity 640 KLD (Based on Cane Sugar Syrup / Grains / B Heavy Molasses or C heavy

- (viii) Name of Company/Organization
 (ix) Location of Project (District, State)
 (x) Issuing Authority
 (xii) Applicability of General Conditions
 (xiii) Applicability of Specific Conditions

Molasses along with co gen power capacity – 16 MW at village - Kinauni, Tehsil – Sadar, District – Meerut, Uttar Pradesh by M/s Bajaj Hindusthan Sugar Limited, Distillery Division, Unit – Kinauni.
 BAJAJ HINDUSTHAN SUGAR LIMITED
 MEERUT, UTTAR PRADESH
 MoEF&CC
 no
 no

3. The Ministry of Environment, Forest and Climate Change has examined the proposal seeking environmental clearance for expansion of existing distillery unit capacity from 200 KLD to 840 KLD by Installation of distillery plant of capacity 640 KLD (Based on Cane Sugar Syrup / Grains / B Heavy Molasses or C Heavy Molasses along with co-gen power capacity – 16 MW at village - Kinauni, Tehsil – Sadar, District – Meerut, Uttar Pradesh by M/s Bajaj Hindusthan Sugar Limited, Distillery Division, Unit – Kinauni.

4. As per EIA Notification 2006 (Schedule 5 (g) Category A; however, as per in the MoEF&CC Notification S.O. 345(E), dated 17th January 2019, notification number S.O. 750(E), dated the 17th February 2020, S.O. 980 (E) dated 02nd March 2021 & S. No. 2339(E) 16th June 2021, a special provision in the EIA Notification, 2006 “Expansion of sugar manufacturing units or distilleries for production of ethanol, having Prior Environment Clearance (EC) for the existing unit, to be used completely for Ethanol Blended Petrol (EBP) Programme only, as per self-certification in form of an affidavit by the Project Proponent, shall be appraised as category ‘B2’ projects.

5. The details of products and capacity are as under:

S.No.	Name of unit	Name of the product / by-product	Existing Production capacity	Additional production capacity	Total production capacity
1.	Distillery (Cane Juice Syrup / Grain / B or C heavy Molasses based Operation)	RS/ ENA/ AA/ Ethanol	200 KLD (During B-Heavy Molasses based/ Cane Juice Syrup Operation)	640 KLD (Cane Juice Syrup / Grain / B or C heavy Molasses based Operation)	840 KLD (Cane Juice Syrup / Grain / B or C heavy Molasses based Operation)
		# Additional increased 640 KLPD capacity will be Ethanol only.			
2.	Co-generation power plant for distillery	Power	-	16 MW	16 MW
3.	Fermentation unit	Carbon dioxide	148 TPD	440 TPD	588 TPD

6. The Ministry has issued Environmental Clearance to the existing Industry for a capacity of 160 KLD vide File No.-J-11011/132/2005-IA.II(I) dated 10th August 2005. Further, the company obtained expansion of the Distillery under “No increase in Pollution load” from UPPCB, vide ref no. 47/UPHOC3/EIA/Meerut/2021 dated 2nd October 2021, from 160 KLD to 200 KLD B-heavy Molasses / Cane Juice Syrup based Operation. Certified Compliance report of the existing Distillery has been obtained from the regional office, MoEF&CC vide letter no File no - IV/ENV/UP/IND-68/180/2005/126 dated 29.05.2024. EAC was satisfied with the response of PP.

7. Standard ToR and public Hearing conduction are not applicable as the project falls under category B2 as per OM dated 16th June 2021. PP has informed that there is no any litigation pending against M/s Bajaj Hindusthan Sugar Ltd., Distillery Unit.

However, one Litigation is pending against the adjacent Sugar unit. As per the Hon'ble NGT Order, the UPPCB filed a complaint case against 119 non-complying units, including M/s Bajaj Hindusthan Sugar Ltd., Unit Kinauni (Sugar Division), Meerut, UP. The complaint case, bearing No. 2737 of 2018 (UPPCB vs. Bajaj Hindusthan Sugar Ltd., Sugar Unit, Kinauni, Meerut), is under Section 43 of the Water (Prevention & Control of Pollution) Act, 1974. Bajaj Hindusthan

Sugar Ltd. filed an application before the Hon'ble High Court of Allahabad against the above complaint case. The Hon'ble High Court has stayed the lower court proceedings, and the case is now pending before the Hon'ble Allahabad High Court for hearing.

Litigation Details:

The Hon'ble NGT in the matter of O.A No. 231/2014 filled by Doaba Paryavaran Samiti Vs State of Uttar Pradesh & Otrs. passed an order dated 16.01.2018 to have a complete survey of all industries in the catchment of River Hindon and its tributaries lying in the six districts VI., Saharanpur, Ghaziabad, Samali, Meerut, Muzaffarnagar and Bagpat to crystallizing the role of each industry in contributing the contaminants to surface and groundwater.

In the compliance of above order, the Joint Committee comprising CPCB, UPPCB & UJN constituted by the Hon'ble NGT had inspected the 317 units (Sugar, Distillery, Paper & Pulp, Tannery, Thermal Power Plants slaughterhouse, electroplating, daily and textile etc.) and taken the groundwater and effluent samples.

As per the Hon'ble NGT Order, the UPPCB filed complaint case against the 119 non-complying units, including M/s Bajaj Hindusthan Sugar Ltd., Unit Kinauni (Sugar Division), Meerut, UP.

The Complaint case bearing no. 2737 of 2018 (UPPCB Vs Bajaj Hindusthan Sugar Ltd., Sugar Unit, Kinauni, Meerut) under section 43 of the Water (Prevention & Control of Pollution) Act, 1974.

Bajaj Hindusthan Sugar Ltd. filed an application before the Hon'ble High Court Allahabad against the above complaint case. Hon'ble High Court stayed the Lower Court proceeding, now the case is pending before the Hon'ble Allahabad High Court for hearing. The stay Order has been submitted.

Furtherance of the above, we undertake that there is no litigation pending on Bajaj Hindusthan Sugar Ltd., Distillery Unit. The above-mentioned litigation is pending only against the Sugar unit.

Brief Summary, Prayer in the case and final order are as follows:

S. No	Particulars	Details
1.	Brief Summary of the matter and nature of allegation	This litigation is pending on Bajaj Hindusthan Sugar Ltd., Sugar Unit Kinauni Meerut A joint inspection team consisted of Officers of CPCB, UPPCB and U.P.Jal Nigam inspected sugar unit on 05.03.2018 in compliance of an Order dated 16.01.2018 of NGT (passed in O.A. No. 231/2014: Doaba Paryavaran Samiti Vs State of U.P.) and also collected the sample of trade effluent from "Outlet" of ETP of Bajaj Hindusthan Sugar Limited Sugar Unit Kinauni Meerut and of "Ground Water. The analysis report dated 03.05.2024, as alleged by CPCB, clearly established that the industry is violating the Rules and Norms prescribed by the Board. Subsequently, the above OA No.231/2004 has been decided by the NGT on 08.08.2018. Thereafter, based on the inspection dated 05.03.2018 and analysis report dated 20.03.2018, the present complaint, U/Sec.43 of the Water (Prevention & Control of Pollution) Act,1974 has filed by the UPPCB against the Company and all the then Directors of the Company, the Factory Manager and the Unit Head for the alleged violation of Section24 of the Act. The Nature of allegation is alleged violation of Section 24 of the act.
2.	Prayer in the case	The UPPCB has prayed for the Hon'ble Trial Court to take cognizance of the offence U/s 43 of the Act and summon the accused persons and punish them according to the law and pass other order as may think just and proper in the interest of justice.
3.	Final order in the case	There is no final order in the case. However, the proceeding before trial court has been stayed by the Hon'ble High Court Allahabad vide order dated 30.10.2019 and 24.10.2019.

8. Total plant area after expansion will be 28.328 Ha (existing plant area – 28.328 Hectares) which is under possession of the company and converted to industrial use / No additional land will be acquired for the expansion project as the same will be done within existing plant premises. Out of the total plant area, 9.65 Hectares, i.e. 34 % of the total plant area has already been developed as greenbelt & plantation and the same will be maintained. The estimated project cost for the proposed expansion would be Rs.797.37 Crores. The capital cost of EMP would be Rs. 120.40 Crores and the recurring cost for EMP would be Rs. 7.68 Crores per annum. Industry proposes to allocate Rs. 8.50 Crores towards extended EMP (Corporate Environment Responsibility). Total Employment after expansion will be 390 persons as direct & indirect.

9. There are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km distance. Reserve forests/protected forests: Mawi Kalian at a distance of 2.89 km in the South direction. Water bodies: Hindon River is at a distance of 0.73 Km in the West direction.

10. AAQ modelling study for point source emissions indicates that the maximum incremental GLCs after the expansion of the proposed project would be 0.67 g/m³, 0.45 g/m³, 2.17 g/m³, 1.10 g/m³ for PM₁₀, PM_{2.5}, SO₂ & NO₂ respectively. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

11. Total fresh water requirement after expansion will be 2940 KLD during Cane Juice Syrup based operation or 3360 KLD during Grain based operation or 3360 KLD during B or C Heavy Molasses based operation which will be met from Ground Water. The company has obtained permission from the Ministry of Jal Shakti (UPGWD) vide NOC no. REG011729 dated 20/03/2022 valid till 19/03/2027 for existing requirements. Application has been submitted to Ministry of Jal Shakti (UPGWD) for additional abstraction of 2080 KLD ground water vide Application No: MERT0523NIN0186, MERT0523NIN0187 dated 12/05/2023. Existing effluent generation is 1347 KLD (max) from the distillery, which is treated through Condensate Polishing Unit capacity 1500 KLD (Capacity). The proposed effluent generation will be 6963 KLD (max) from the distillery, which will be treated through the proposed/upgraded Condensate Polishing Unit – 7500 KLD (Expanded capacity). In Cane Juice Syrup / B or C Heavy molasses-based operation, spent wash generated from the analyser column during distillation will be concentrated in Multi Effect Evaporator and concentrated spent wash will be burnt in incineration boiler. In grain-based operation, raw stillage 5880 KLD: quantity of raw spent wash from distillation will be sent to decanter followed by MEE followed by dryer to produce DDGS. Domestic wastewater is being / will be treated in STP of capacity 20 KLD. The plant is being/will be based on Zero Liquid discharge system and treated effluent/water is being/will not be discharged outside the factory premises.

12. The total power requirement of the distillery after expansion will be 14.56 MW, which will be sourced from the proposed 16 MW Co-generation power plant. The existing distillery has 60 TPH Slop fired boiler. APCE ESP with a stack of the height of 85 m is installed with the existing boiler for controlling the particulate emissions within the statutory limit of 50 mg/Nm³. One additional 100 TPH Slop fired boiler will be installed. APCE ESP- with a stack height of 85 m will be installed for controlling the particulate emissions within the statutory limit of 50 mg/Nm³ for the proposed boiler. Industry will install 1250 KVA DG set which will be used as standby during power failure and stack height (7.07 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 is installed with the existing boiler for controlling the particulate emissions within the statutory limit of 50 mg/Nm³. APCE ESP with a stack of height of 85 m will be installed for controlling the particulate emissions within the statutory limit of 50 mg/Nm³ for the proposed boiler.
- Online Continuous Emission Monitoring System is being/will be installed with the stack and data will be transmitted to CPCB/SPCB servers.
- CO₂ (588 TPD) generated during the fermentation process is being/will be collected by utilizing CO₂ scrubbers and sold to authorized vendors/collected in proposed bottling plant.

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

- Concentrated spent wash (541 KLD) generated Cane juice syrup-based operation & 1376 KLD during B or C Heavy molasses-based Operations from Multi-Effect Evaporator (MEE). The Concentrated Slop from the Multi Effect Evaporator shall be burnt in Incineration Boiler.
- DDGS (Distilled Dried Grains Stillage) (397 TPD) will be sold as cattle feed / fish feed/prawn feed.

- Ash (100.8 TPD) generated from Cane Juice Syrup, (27.28 TPD) will be generated from Grain based operation & Fly ash (257.18 TPD) generated from B or C heavy Molasses will be supplied to nearby farmers in covered vehicles only to use as a fertilizer.
- Used oil (2.5 Ton/Annum) will be sold to authorized recyclers.
- CPU sludge – 2.5 TPD during Cane Juice Syrup based operation or 3.5 TPD during Grain based operation or 3.5 TPD during B / C Heavy Molasses based operation is being/will be used as manure.

15. 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 expansion capacity of 640 KLPD will be used for manufacturing fuel ethanol only.

The capital cost and recurring cost of EMP are given below:

S.No.	Particulars	Capital Cost for expansion (Lakhs)	Recurring Cost/annum after expansion (Lakhs)
1	Air Pollution Control Equipment (APC) in the form of ESP and Stack, Online monitoring equipment.	350.0	100.0
2	Water Pollution Control (WTP plant, CPU, Online Equipment etc)	1400.0	150.0
3	Noise Pollution Control (Acoustic Enclosure)	75.0	20.0
4	Environmental Monitoring and Management	-	8.0
5	Occupational Health	100.0	25.0
6	Greenbelt / Plantation	52.0	15.0
7	Others (MEE, Decanter, Dryer, Co2 plant & online equipment)	10063.0	450.0
Total		12040.0 Lakh	768 Lakh/Annum

Details of CER with proposed activities and budgetary allocation:

Sr. No.	Programme	Proposed Activities	1st Year	2nd Year	Expenditure (Rs in Lakhs)
1.	Community training (Skill And Livelihood)	Skill development for youth, Women empowerment- Organizing Training programs, development for youth/residents,	Rs. 64 lakhs (in Villages – Jitaula, Kinauni) Rs. 35 lakhs allocated for center for Organizing training programs regarding EMP, Solid waste & fly ash management, environment monitoring, that will Benefited to approx. 400 youth and 500 youth and 300 women, Rs 29 lakhs for adoption of Local ITI for Training programs, skill development for youth / residents	Rs. 58 lakhs (in Village – Kaithwari, Rasulpur Zahid) Rs. 30 lakhs allocated for Organizing training programs regarding EMP, Solid waste & fly ash management, environment monitoring, that will Benefited to approx. 400 youth and 300 women, Rs 28 lakhs for adoption of Local ITI for Training programs, skill development for youth / residents	122
2.	Adoption of village for Rural Education Facility and Infrastructure	Upgradation of School infrastructure & Educational facilities- Provide Interactive smart	Rs. 140 Lakhs (Govt. schools in Village – Kinauni, Rasulpur Zahid)	Rs. 96 Lakhs (Govt. schools in Village – Kaithwari) 15 nos potable water	236

	Development	class equipment's /gadgets/solar panels like desktop computers, projectors, Interactive White Boards and distributing study materials, school bags, sports equipment's etc. to students, Seating Benches, installation of potable water facilities, construction of sanitized toilets etc.	· 20 nos potable water facilities - Rs. 24 lakh, Solar lights installation- Rs. 40.0 lakhs, Rs 25.0 lakhs for desktop computer, Interactive White Boards and distributing study materials, Rs. 40 lakhs for sanitized toilets, Rs 11 lakhs for E-learning setup.	facilities - Rs. 17 lakh, Solar lights installation- Rs. 35 lakhs, Rs 16 lakhs for desktop computer, Interactive White Boards and distributing study materials, Rs. 18 lakhs for construction of sanitized toilets, Rs 10 lakhs for E-learning setup.	
3.	Social Infrastructure Development	Installation of Solar Street Light, Solar Lanterns, Village Pond & RWH pond Infrastructure Development, etc. Maintenance of drainage and Road in villages.	· Rs. 188 Lakhs (in Village – Kinauni, Kaithwari) Rs 48 lakhs for Solar Street light (600 Nos) in village Kinauni. Rs. 60 lakhs Rain Water Harvesting in Ponds and Government building.) Rs 80 lakhs for Maintenance of drainage and Road in villages.	· Rs. 190 Lakhs (in Village – Jitaula , Rasulpur Zahid) Rs 52 lakhs for Solar Street light (650 Nos) in village Kinauni. Rs. 68 lakhs Rain Water Harvesting in Ponds and Government building.) Rs 70 lakhs for Maintenance of drainage and Road in villages.	378
4.	Healthcare facility	Provision of Mobile medical van	Rs. 30 Lakhs (Village - Kinauni) (Mobile Medical Van Facility and its Annual Maintenance)	Rs. 30 Lakhs (Village Kaithwari) (Mobile Medical Van Facility its Annual Maintenance)	60
5.	Plantation	Plantation / Avenue plantation along road side, tree plantation in nearby schools / colleges / vacantland / Panchayat bhavan etc.	Rs. 30 lakhs in Village Kinauni (5000 no. of plants to be planted)	Rs. 24 lakhs in Village Rasulpur Zahid (4000 no. of plants to be planted)	54
Total (Rs in Lakhs)					850

16. During deliberations, EAC discussed the following issues:

- Industry shall not use coal as fuel for the proposed boiler in the Distillery unit.
- Industry shall install 10 % of the total power in the form of solar energy.
- PP shall install Brick Manufacturing Plant for the management of ash generated (27.28 TPD) from the grain based distillery operation. The ash shall be utilised in Brick Manufacturing within the premises.
- During the cane crushing season, 100 % Condensate treated water from sugar unit will be utilised in the Distillery plant. As desired, PP has submitted integrated revised water balance. PP has informed that fresh water requirement for Cane Juice Syrup shall not exceed 1740 KLD and for C or B Heavy Molasses/ Grain based operations it shall not exceed 3360 KLD.
- As suggested fund allocation for Occupational Health Safety, which has been increased to Rs 100 Lakhs (Rs 1 Crores).
- As suggested, PP has submitted revised CER and EMP budget with breakup details.

- PP shall submit undertaking that regarding installation of stack of height 85 meter along with proposed 100 TPH (01 No) incineration boiler and ESP as Air Pollution Control Device.
- PP shall submit latest Certified CTO compliance report of Sugar Unit. Accordingly, PP has submitted the same.

The committee was satisfied with the response provided by PP on the above information. Further, the 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 proposal was considered by the EAC (Meeting ID: EC/AGENDA/EAC/433006/8/2024) held on 21st – 23rd August 2024 in the Ministry, wherein the project proponent and the 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 and validity 02nd November, 2025), presented the case. The Committee recommended the project for grant of environmental clearance.

18. The EAC, constituted under the provision of the EIA Notification, 2006 and comprising of Experts Members/domain experts in various fields, has examined the proposal submitted by the Project Proponent in the 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.

19. The Committee noted that the EMP report is in compliance of the PFR. The Committee 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.

20. 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.

21. Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-2), the Ministry of Environment, Forest and Climate Change hereby accords environmental clearance for the establishment of the Proposed expansion of the existing distillery unit capacity from 200 KLD to 840 KLD by Installation of distillery plant of capacity 640 KLD (Based on Cane Sugar Syrup / Grains / B Heavy Molasses or C Heavy Molasses along with co-gen power capacity – 16 MW at village - Kinauni, Tehsil – Sadar, District – Meerut, Uttar Pradesh by M/s Bajaj Hindusthan Sugar Limited, Distillery Division, Unit – Kinauni, under the provisions of the EIA Notification, 2006, and the amendments therein, subject to compliance of the terms and conditions.

22. 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 implementation of any of the above conditions is not found satisfactory.

23. 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.

24. 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.

25. 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.

26. 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 and Monitoring Division, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi.
7. The District Collector, District Meerut, Uttar Pradesh.
8. Guard File/Monitoring File/Parivesh portal/Record File.

Annexure 1

Specific EC Conditions for (Distilleries)

1. Distilleries

S. No	EC Conditions
1.1	The project proponent shall abide by all orders and judicial pronouncements made from time to time in the cases filed in High Court Allahabad /NGT/ any other Judicial pronouncement.
1.2	As per the Notification S.O. 2339(E), dated 16th June 2021, the project falls in category B2 and the proposed expansion capacity of 640 KLPD shall only be used for fuel ethanol manufacturing as per self-certification in the 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 the EBP Programme, or if ethanol is not being produced, or if the said distillery is not fulfilling the requirements based on which the project has been appraised as category B2 project, the EC shall stand cancelled. Production capacity of the existing with proposed expansion distillery shall not exceed 840 KLD in any mode or combination of feedstock of operation.
1.3	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.
1.4	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 the project. Conversion of land use (CLU) certificate shall be obtained before the start of construction activities.

S. No	EC Conditions
1.5	NOC from the Concerned Local authority shall be obtained before the start of the construction of the plant and abstraction of ground water. State Pollution Control Board shall not issue Consent to Operate (CTO) under The Air (Prevention and Control of Pollution) Act, 1981 and The Water (Prevention and Control of Pollution) Act, 1974 till the project proponent obtains such permission.
1.6	Total freshwater requirement after expansion shall be 1740 KLD during Cane Juice Syrup based operation or 3360 KLD during Grain based operation or 3360 KLD during B or C Heavy Molasses based operation which shall be met from Ground Water. During the Sugar crushing Season, entire treated water from the Sugar unit shall be utilized in the Distillery, reducing the freshwater demand to zero. No groundwater recharge shall be permitted within the premises. Industry shall construct rainwater storage ponds with the capacity to store rainfall and the accumulated water to be used as fresh water thereby reducing freshwater consumption.
1.7	Spent Wash/stillage shall be sent to the decanter followed by the Multiple Effect Evaporator and dryer to form DDGS. DDGS is to be used as cattle feed. The MEE & Drier condensate, spent lees, WTP Rejects, Boiler & Cooling tower blow downs, 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 the factory premises.
1.8	The spent wash from the molasses-based distillery shall be concentrated in MEE and concentrated spent wash 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 the integrated unit of the 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.
1.9	Adequate numbers of groundwater quality monitoring stations by providing piezometers around the project area shall be set up. 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 Dissolved Solids shall be monitored and report submitted to the Ministry's Regional Office.
1.10	Five field APCE Electrostatic Precipitator with 85 m high stack has been installed for controlling the particulate matter emissions within the statutory limit of 50 mg/Nm ³ for the existing 60 TPH biomass-fired boiler. Proposed Five field APCE Electrostatic Precipitator with 85 m high stack shall be installed for controlling the particulate matter emissions within the statutory limit of 50 mg/Nm ³ for the proposed 100 TPH biomass-fired boiler. Coal shall not be used as fuel for boilers. 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.
1.11	PP shall install Brick Manufacturing Plant for Ash generated (27.28 TPD) during the Grain based operation shall be utilised in Brick Manufacturing within the premises. Incineration ash (100.8 TPD) generated from Cane Juice Syrup & Fly ash (257.18 TPD) generated from B or C heavy Molasses will be supplied to nearby farmers in covered vehicles only to use as a fertilizer. PP shall install 10% of the total power requirement in the form of solar power inside plant premises/adjacent/nearby areas.

S. No	EC Conditions
1.12	CO ₂ (588 TPD) generated during the fermentation process is being/will be collected by utilizing CO ₂ scrubbers and sold to authorized vendors/collected in the proposed bottling plant.
1.13	PP shall allocate at least Rs. 1.00 Crore as capital expenditure and Rs. 0.25 Crore as recurring expenditure capital 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/masks for personal protection.
1.14	Training shall be imparted to all employees on the safety and health aspects of chemical handling. Safety and visual reality training shall be provided to employees.
1.15	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. The firefighting system shall be as per the norms. PESO certificate shall be obtained. The 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	The 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	The company shall determine the distance of the fire hydrant while finalizing its location from ethanol storage tanks or any other hazardous storage substance shall be based on the 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 their incineration. 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	The greenbelt of at least 5-10 m width developed in nearly 9.65 hectares, i.e., 34 % of the total project area shall be densified with tree density @ 2500 trees per hectare, 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 varieties of species as a part of the 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. Greenbelt development shall be completed before the commissioning of the plant. Trees shall be planted in the

S. No	EC Conditions
	Green Belt under the campaign #Plant4Mother #एक पेड़ माँ के नाम and uploaded on the MeriLiFE portal (https://merilife.nic.in/).
1.21	PP proposed to allocate Rs. 8.5 Crores towards extended EMP (CER) which shall be spent as submitted in the CER plan. Further, all the proposed activities under CER shall be completed before the commissioning of the expansion and in consultation with the 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 the total project area shall be allotted solely for parking purposes with facilities like restrooms etc.
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 shall be provided around the 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	A separate Environmental Management Cell (having a 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 the Head of Organization/ Director/CEO as per company hierarchy.
1.26	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 compliance of the Notification published by MoEF&CC 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 the 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, 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

S. No	EC Conditions
	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 https://parivesh.nic.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.
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.

S. No	EC Conditions
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 Products & By-products

Name of the product /By-product	Product / By-product	Existing	Proposed	Total	Unit	Mode of Transport / Transmission
CO2	CO2	588	0	588	TPD	Road
DDGS	DDGS	397	0	397	TPD	Road
RS / ENA / Ethanol	RS / ENA / Ethanol	200	0	200	Kilo Litre per Day (KLD)	Road
Ethanol	Ethanol	0	640	640	Kilo Litre per Day (KLD)	Road
Co-gen power	Co-gen power	16	0	16	Mega Watt (MW)	cable

