

**GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE
(IA DIVISION-INDUSTRY-2 SECTOR)**

Dated: 23.12.2022

**Meeting ID: IA/IND2/13410/21/12/2022
MINUTES OF MEETING OF THE EXPERT APPRAISAL COMMITTEE
(INDUSTRY-2 SECTOR PROJECTS)
HELD ON 21st -22ndDecember, 2022**

**Venue: Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi-110003
through Video Conferencing (VC)**

(i) Opening Remarks by the Chairman: The Chairman made hearty welcome to the Committee members and appreciated the efforts of the Committee. After opening remarks, the Chairman opened the EAC meeting for further deliberations.

(ii) Confirmation of minutes: The EAC, having taken note that final minutes were issued after incorporating comments received from the EAC members on the minutes of its Meeting (ID: IA/IND2/13399/12/12/2022) held on 12th -13thDecember, 2022 conducted through Video Conferencing (VC), confirmed the same. After welcoming the Committee Members, discussion on each of the agenda items was taken up ad-seriatim.

(iii) Details of the proposals considered during the meeting conducted through Video Conferencing (VC), deliberations made and the recommendations of the Committee are explained in the respective agenda items as under: -

21st December, 2022 (Wednesday)

Agenda No. 01

Grass root Green Needle Coker Unit (GNCU) with Needle Coke Calcination Unit (CCU) at Paradip Refinery cum Petrochemical Complex – Consideration of Environmental Clearance

[IA/OR/IND2/ 409486/2022, IA-J11011/121/2017-IA-II(I)]

The Project Proponent has requested to defer the proposal due to unavoidable circumstances. Accordingly, the project proposal was deferred.

Agenda No. 02

Proposed Project for 5000 TCD Sugar Plant along with 33.65 MW Cogeneration Power Plant and 120 KLPD Distillery/Ethanol Plant by M/s. The Gurdaspur Cooperative Sugar Mills Ltd – Consideration of Environmental Clearance.

[IA/PB/IND2/402748/2022, IA-J11011/502/2021-IA-II(I)]

At the start of the presentation, consultant informed that EIA coordinator Mr. Sunil Pandey was not present in the meeting. Functional Area Expert has started the presentation who was unable to respond to the queries raised by the committee members. In this regard, EAC opined that the authorized EIA coordinator of the project who has prepared EIA report should present the case and decided to return the proposal in present form. However, EAC members also suggested to provide the following information while applying the proposal in parivesh portal:

- CTO compliance report for the existing Sugar mill should be obtained from SPCB.
- Keshopur Bird Sanctuary is located at a distance of 4.89 km in W direction of Project site. Punjab govt has declared the area as Keshopur – Miani Community reserve in 2007. Further, Committee noted that the Keshopur-Miani community reserve has been declared as Ramsar Wetland site in 2019. In this regard, EAC opined that as per Section 36C of Wildlife(Protection) Act, 1972 provisions of Wild life

sanctuaries should be applicable to notified community reserves as community areas fall in the definition of protected area. Accordingly, copy of application submitted for clearance from National Board for Wildlife to be furnished.

- Parking area shall be increased to 15% of the total project area. Accordingly project layout shall be revised.
- Revised water balance shall be submitted considering 4kL/kL of alcohol production. Treated water of sugar mill shall be used in process application of distillery instead of letting out for usage in irrigation.
- RCC spent wash storage tank shall be constructed instead of Spent wash storage lagoon. Capacity of spent wash storage tank shall not exceed more than 5 days.
- Layout plan of proposed integrated sugar cum distillery and CPP shall be superimposed with the existing sugar unit. Greenbelt of 10 m width should be provided along the boundary.
- CER budget to be increased.
- Action plan to address Public hearing issues raised along with time line and budgetary provision.

Accordingly, proposal was returned in present form.

Agenda No. 03

Greenfield project of 120 KLPD Grain Based Ethanol Plant along with 2.5 MW Co-generation Power Plant at Village Jahan Kela and Bassi Mustafa, Tehsil Hoshiyarpur, District Hoshiyarpur, Punjab by M/s Sotlej Organics and Chemicals Private Limited - Consideration of Environmental Clearance.

[IA/PB/IND2/ 401846/2022, IA-J11011/402/2022-IA-II(I)]

The Project Proponent and the accredited Consultant M/s. GRC India Pvt Ltd (NABET certificate no. NABET/EIA/2124/RA0213 and valid till 15.02.2024) made a detailed presentation on the salient features of the project and informed that the proposal is for environmental clearance to the project 120 KLD Grain Based Ethanol Plant along with 2.5 MW Co-generation Power Plant) located at Village-Jahan Kela and Bassi Mustafa, Tehsil-Hoshiyarpur, Dist.-Hoshiyarpur, State-Punjab by M/s. Sotlej Organics and Chemicals Private Limited.

As per the MoEF&CC Notification S.O. 2339(E), dated 16th June, 2021, a special provision in the EIA Notification, 2006-(Schedule 5 (ga), Category B2) is made, wherein for all applications made for Grain based distilleries with Zero Liquid Discharge producing ethanol; solely to be used for Ethanol Blended Petrol Programme of the Government of India shall be considered under B2 Category and appraised at Central Level by Expert Appraisal Committee (EAC) with condition that the project proponent shall file a notarized affidavit that ethanol produced from proposed project shall be used completely for EBP Programme.

The details of products and capacity as under:

S.No	Name of Unit	Name of the product/by-product	Production capacity
1	Distillery	Ethanol	120 KLD
2	Co-generation power Plant	Power	2.5 MW
3	DWGS dryer	DDGS	60 TPD
4	Fermentation unit	Carbon di-oxide	92 TPD

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

Total land area required is 8.75 hectares. Entire land is under the possession of company. CLU is integrated with the Building plan approval as per condition no. 6 of Gazette notification of Punjab government dated 12.11.2021, hence no separate application for CLU is required. Application for Approval of building plan has been submitted to Punjab Bureau of Investment Promotion dated 16.09.2022. Greenbelt will be developed in total area of 3.08 hectares i.e., 35.2 % of total project area. The estimated project cost is R. 141.74 Crores. Crores. Capital cost of EMP would be Rs. 21.27 Crores and recurring cost for EMP would be Rs 5.08 Crores per annum. Industry proposes to allocate Rs. 1.41 Crores towards Extended EMP (Corporate Environment Responsibility). Total Employment will be 163 persons as direct & indirect.

There are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km distance. Kharkn Protected Forest is at 2.6 km in SE direction and Chaksdu Protected Forest is at 4.8 km in SE direction. Jmanwa Khad Naala (Dry) is at distance of 0.15 km in SE direction. NOC has been obtained from office of Superintendent Engineer, Jalandhar Water Source Area vide letter no-5818-20/1 L.H. dated:- 08.12.2022 with certain conditions such as waste/wastewater shall not be discharged into waterbodies (ii) no hindrance may be created to prevent the flow of water source in future (iii) . Rajni Devic Naala is at a distance of 6.6 km in SE direction.

AAQ modelling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be $0.06 \mu\text{g}/\text{m}^3$, $0.03 \mu\text{g}/\text{m}^3$, $0.88 \mu\text{g}/\text{m}^3$ and 1.13 and $0.64 \mu\text{g}/\text{m}^3$ with respect to PM_{10} , $\text{PM}_{2.5}$, SO_2 , NO_x and CO respectively. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

Total fresh water requirement including CPP will be 689 KLD which will be met from ground water. Application has been submitted to Punjab Water Regulation and Development Authority dated 01.08.2022. the Committee suggested them to reduce the fresh water requirement. Accordingly, PP has revised the fresh water requirement including power plant to 465 m³/day @ 3.875KL per KL of alcohol produced. Effluent (Condensate/spent lees/blowdown etc.) of 486 KLD quantity will be treated through Condensate Polishing Unit/Effluent Treatment Plant of capacity 600 KLD. Raw stillage will be sent to decanter followed by MEE and dryer to produce DDGS. STP of capacity 10 KLD will be installed to treat sewage generated from factory premises. The plant will be based on Zero Liquid discharge system and no effluent/treated water will be discharged outside factory premises. Committee suggested to reduce the fresh water requirement not exceeding than 480 KLPD.

Power requirement will be 2.5 MW and will be met from proposed 2.5 MW co- generation power plant. 26 TPH Rice Husk and Coal fired boiler will be installed. ESP at a stack height of 60 m will be installed for controlling the particulate emissions within the statutory limit of $50 \text{ mg}/\text{Nm}^3$ for the proposed boiler. 750 kVA DG set will be used as standby during power

failure and stack height will be provided as per CPCB norms to the proposed DG sets.

Details of Process emissions generation and its management:

- ESP with a stack height of 60 meters will be installed for controlling the particulate emissions.
- Online Continuous Emission Monitoring System will be installed with the stack and data will be transmitted to CPCB/SPCB servers.
- CO₂ (92 TPD) generated during the fermentation process will be collected by utilizing CO₂ scrubbers and it shall be sold to authorized vendors/collected in installed bottling plant.

Details of solid waste/Hazardous waste generation and its management:

- DDGS (Distilled Dried Grains Stillage) (60 TPD) will be sold as cattle feed/fish feed/ prawn feed.
- Boiler ash (52 TPD) will be used for brick manufacturing in proposed brick manufacturing plant inside plant premises/supplied to brick manufacturers/ given to farmers to be used as manure.
- Used oil (2.5 Kilolitres per annum) will be sold to authorized recyclers.
- ETP/CPU sludge (66 KG/day) and STP Sludge (0.76 KG/day) will be used as manure.

As per Notification S.O 2339(E), dated 16th June, 2021, PP has submitted self-certification in the form of notarized affidavit declaring that the proposed capacity of 120 KLPD will be used for manufacturing fuel ethanol only.

During deliberations, EAC discussed following issues:

- Total fresh water requirement including CPP shall not exceed 4 KL/KL of ethanol production i.e less than 480 KLPD. Revised water balance reducing fresh water requirement shall be submitted. Accordingly, PP has revised the fresh water requirement including power plant to 465 m³/day @ 3.875KL per KL of alcohol produced.
- PP shall allocate at least Rs. 1.50 Crores towards Extended EMP (CER) which shall be spent as submitted in CER plan for monitorable activities.
- PP shall adhere to conditions imposed in NOC obtained from Jalandhar

Water Source Area vide letter no-5818-20/1 L.H. dated:- 08.12.2022.

- Commitment to install ESP (5 fields with 99.9% efficiency). Accordingly, PP committed that they will install ESP (5 fields with 99.9% efficiency).

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.

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.

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.

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.

The EAC, after detailed deliberations, **recommended** the project for grant of environmental clearance, subject to compliance of terms and conditions as under, and general terms of conditions at Annexure: -

- (i). As per the Notification S.O. 2339(E), dated 16th June, 2021, project falls in category B2 and the proposed capacity of 120 KLPD shall only be used for fuel ethanol manufacturing as per self-certification in form of a notarized affidavit by the Project Proponent. Provided that subsequently if it is found that the ethanol, produced based on the EC granted as per this dispensation, is not being used completely for 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.
- (ii). The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- (iii). EC granted for a project on the basis of the submitted documents shall become invalid in case the actual land for the project site turns out to be different from the land considered at the time of appraisal of project. Conversion of land use (CLU) certificate shall be obtained before start of construction activities.
- (iv). NOC from the Central Ground Water Authority (CGWA)/ Concerned Local authority shall be obtained before start of the construction of plant and drawing of the ground water for the project activities, State Pollution Control Board / Pollution Control Committees shall not issue the Consent to Operate (CTO) under Air (Prevention and Control of Pollution) Act and Water (Prevention and Control of Pollution) Act till the project proponent shall obtain such permission.
- (v). Total Fresh water requirement shall not exceed 480 KLPD, which will be met from Ground water. No ground water recharge shall be permitted

within the premises. Industry shall construct a rain water storage pond of 60 days capacity and the accumulated water to be used as fresh water thereby reducing fresh water consumption.

- (vi). Spent wash shall be dried to form DDGS to be used as cattle feed. The condensate, spentlees and utilities effluent shall be treated in the ETP comprising tertiary treatment (Condensate Polishing Unit). Treated effluent will be recycled/reused for make up water of cooling towers/process etc.. STP shall be installed to treat the sewage generated from factory premises. No wastewater or treated water shall be discharged outside the premises and Zero Liquid discharge shall be followed.
- (vii). Electrostatic precipitator (5 field & 99.9% efficiency) with a stack height of 60 meters will be installed with 26 TPH Biomass like Rice Husk and coal fired boiler for controlling the particulate emissions within the statutory limit of 30 mg/Nm³. SO₂ and NO_x emissions shall be less than 100 mg/Nm³. At no time, the emission levels shall exceed the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Performance assessment of pollution control devices/ systems will be conducted annually.
- (viii). Boiler ash (52 TPD) will be used for brick manufacturing in proposed brick manufacturing plant inside plant premises. PP shall use biomass like rice husk/bagasse as fuel for the proposed boiler. Low sulphur coal with maximum sulphur content of 0.5% shall only be used. PP shall meet 10% of the total power requirement from solar power by generating power inside plant premises/adjacent/nearby areas.
- (ix). CO₂ (92 TPD) generated during the fermentation process will be collected by utilizing CO₂ scrubbers and it shall be sold to authorized vendors/collected in installed bottling plant.
- (x). PP shall allocate at least Rs. 50 Lakhs/annum for Occupational Health Safety. Occupational Health Centre for surveillance of the worker's health shall be set up. The health data shall be used in deploying the

duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.

- (xi). 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.
- (xii). The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms. PESO certificate shall be obtained.
- (xiii). 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.
- (xiv). 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.
- (xv). The green belt of at least 5-10 m width shall be developed in 3.08 hectares i.e., 35.2 % of the total project area with tree density @ 2500 trees per hectares, mainly along the plant periphery. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department and native species shall be developed. Records of tree canopy shall be monitored through remote sensing map. Greenbelt development shall be completed before commissioning of the plant.
- (xvi). PP proposed to allocate Rs. 1.41 Crores towards Extended EMP (CER) which shall be spent as submitted in CER plan for monitorable activities like up-gradation of schools with provision of facilities e.g. Class rooms, playground, Laboratory, Library, Computer class, toilets, potable drinking water facilities, solar light/solar power support for uninterrupted power supply, soil nutrient management etc. Further, all

the proposed activities under CER shall be completed before the commissioning of the plant in consultation with District Administration.

- (xvii). 15% of the plant area shall be earmarked for parking of vehicles for raw materials and finished products with facilities like rest rooms etc and no parking to be allowed outside on public places.
- (xviii). 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 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.
- (xix). 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.
- (xx). 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.
- (xxi). 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 12th August, 2021. A report along with photographs on the measures taken shall also be included in the six-monthly compliance report being submitted to concerned authority.

Agenda No. 4

Proposed 60 KLPD Grain Based Distillery along with 2.13 MW Co-gen under Ethanol Blending Program by M/s Athley Petrochem Pvt. Ltd. at Survey No. 145, 146M,150M, Village Mundakheda Khurd, Taluka Laksar, District Haridwar, Uttarakhand by M/s Athley Petrochems Pvt. Ltd.–Consideration of Environmental Clearance

[IA/UK/IND2/ 403067/2022, IA-J11011/527/2022-IA-II(I)]

The Project Proponent and the accredited Consultant M/s. AmplEnviron Pvt. Ltd. (NABET certificate No. NABET/EIA/2023/IA0061 and validity 22nd October, 2023) made a detailed presentation on the salient features of the project and informed that the proposal is for environmental clearance to the project for 60 KLPD Grain based Ethanol Plant & 2.13 MW Co-generation power plant located at Survey No.145, 146M, 150M, Village-Mundakheda Khurd, Taluka Laksar, District Haridwar, State Uttarakhand, India by M/s Athley Petrochems Pvt. Ltd.

As per the MoEF&CC Notification S.O. 2339(E), dated 16th June, 2021, a special provision in the EIA Notification, 2006-(Schedule 5 (ga), Category B2) is made, wherein for all applications made for Grain based distilleries with Zero Liquid Discharge producing ethanol; solely to be used for Ethanol Blended Petrol Programme of the Government of India shall be considered under B2 Category and appraised at Central Level by Expert Appraisal Committee (EAC) with condition that the project proponent shall file a notarized affidavit that ethanol produced from proposed project shall be used completely for EBP Programme.

The details of products and capacity as under:

S. No.	Name of unit	Name of the product/by-product	Production capacity
1	Distillery (Grain based)	Ethanol	60 KLPD
		Fusel Oil	0.09 KLD

2	Co-generation power plant	Power	2.13 MW
3	DDGS dryer	DDGS	30 TPD
4	Fermentation unit	Carbon di-oxide	47 TPD

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

Total land area required is 2.9263 hectares. Greenbelt will be developed in total area of 1.0281 hectares i.e., 35.13% of total project area. The estimated project cost is Rs. 100 Crores. Capital cost of EMP would be Rs. 18.118 Crores and recurring cost for EMP would be Rs. 1.1742 Crores per annum. Industry proposes to allocate Rs. 2.0 Crores towards Extended EMP (Corporate Environment Responsibility). Total Employment will be 80 persons as direct & indirect.

There are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors, protected forest etc. within 10 km distance. Reserve Forest: Pathri Reserve Forest is at 6.66 Km in North Direction, Kasiya Forest is at 6.37 Km in South Direction and Badshapur RF is at 8.23 km in SSW direction. Water bodies: Banganga River is present at a distance of 1.37 km in SE direction from project site. Ganga River is Present at distance of 7.846 km in SSE direction from project site. Nearest Seasonal Nallah/ Stream is originating at distance of 0.139 km in SE direction from the project site for which NOC has been obtained from State Irrigation Department vide letter No.672/UKHGN dated 07/12/2022 stating that there is no objection for establishing plant & no flood history during last 25-30 years.

AAQ modelling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 0.007 $\mu\text{g}/\text{m}^3$, 0.0066 $\mu\text{g}/\text{m}^3$, 1.50 $\mu\text{g}/\text{m}^3$ and 0.4506 $\mu\text{g}/\text{m}^3$ with respect to PM_{10} , $\text{PM}_{2.5}$, SO_2 and NO_x . The resultant concentrations are within the National Ambient Air Quality Standards(NAAQS).

Total fresh water requirement will be 276.52 CMD (Out of which fresh water required for distillery activity will be 234.52 KLD i.e. 3.90 KL/KL) which will be met from Ground water. Application to CGWA NOC has been done; vide application No. 21-4/1836/UT/IND/2022 dated 18/10/2022. Effluent (Condensate/spent lees/dryer process condensate, Blowdowns, sealing water etc.) of 519.88 m³/day quantity will be treated through Condensate Polishing Unit of capacity 600 CMD. Raw stillage (401 KLPD) will be sent to decanter followed by MEE and dryer to produce DDGS. CPU of capacity 600 KLPD will be installed to treat Condensate, Spent Lees, Dryer process condensate, Blowdowns, Domestic, DM reject and CIP water & sealing water. The plant will be based on Zero Liquid discharge system and no effluent/treated water will be discharged outside factory premises.

Power requirement will be 2.12 MW and will be met from proposed 2.13 MW Co-generation power plant. 16 TPH Rice Husk & Briquette fired boiler will be installed. ESP with 99.9% efficiency with a stack height of 40 m will be installed for controlling the particulate emissions within the statutory limit of 50 mg/Nm³ for the proposed boiler. 500 kVA DG set will be used as standby during power failure and stack height (4.5 m above roof) will be provided as per CPCB norms to the proposed DG sets.

Details of Process emissions generation and its management:

- ESP with 99.9% efficiency with a stack height of 40 meters will be installed for controlling the particulate emissions.
- Online Continuous Emission Monitoring System will be installed with the stack and data will be transmitted to CPCB/SPCB servers.
- CO₂ (47 TPD) generated during the fermentation process will be collected by utilizing CO₂ scrubbers and it shall be sold to authorized vendors/collected in installed bottling plant.

Details of solid waste/Hazardous waste generation and its management:

- DDGS (Distilled Dried Grains Stillage) (30 TPD) will be sold as cattle feed / fish feed / prawn feed.
- Boiler ash (7.83 TPD) during Rice Husk & Briquette firing will be used for brick manufacturing in proposed brick manufacturing plant inside plant premises.
- Used oil (0.1 Kilolitres per annum) will be sold to authorized recyclers.
- Sludge from Waste water treatment (0.05 TPD) will be used as

manure.

As per Notification S.O 2339(E), dated 16th June, 2021, PP has submitted self-certification in the form of notarized affidavit declaring that the proposed capacity of 60 KLPD will be used for manufacturing fuel ethanol only.

PP informed that total land of 2.9263 Hectares is under possession of company on registered lease basis (29 years & 11 Months) and land use conversion application has been submitted to Revenue Department, Haridwar dated 26.09.2022.

During deliberations, EAC discussed following issues:

- Preventive measures for potential risk should go outside the project site premises. PP committed that company will take PESO certification and all PESO recommendations will be followed.
- PP informed that DMP will be submitted to the District Authority and necessary approval will be obtained.

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.

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.

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.

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.

The EAC, after detailed deliberations, **recommended** the project for grant of environmental clearance, subject to compliance of terms and conditions as under, and general terms of conditions at Annexure: -

- (i). As per the Notification S.O. 2339(E), dated 16th June, 2021, project falls in category B2 and the proposed capacity of 60 KLPD shall only be used for fuel ethanol manufacturing as per self-certification in form of a notarized affidavit by the Project Proponent. Provided that subsequently if it is found that the ethanol, produced based on the EC granted as per this dispensation, is not being used completely for 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.
- (ii). The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.

- (iii). EC granted for a project on the basis of the submitted documents shall become invalid in case the actual land for the project site turns out to be different from the land considered at the time of appraisal of project. Conversion of land use (CLU) certificate shall be obtained before start of construction activities.
- (iv). NOC from the Central Ground Water Authority (CGWA)/ Concerned Local authority shall be obtained before start of the construction of plant and drawing of the ground water for the project activities, State Pollution Control Board / Pollution Control Committees shall not issue the Consent to Operate (CTO) under Air (Prevention and Control of Pollution) Act and Water (Prevention and Control of Pollution) Act till the project proponent shall obtain such permission.
- (v). As proposed, total fresh water requirement shall not exceed 3.9 KL/KL of ethanol production i.e. 234 KLD, which will be met from Ground water. No ground water recharge shall be permitted within the premises. Industry shall construct a rain water storage pond of 60 days capacity and the accumulated water to be used as fresh water thereby reducing fresh water consumption.
- (vi). Spent wash shall be dried to form DDGS to be used as cattle feed. The condensate, spentlees and utilities effluent shall be treated in the ETP comprising tertiary treatment (Condensate Polishing Unit). Treated effluent will be recycled/reused for make up water of cooling towers/process etc. and no waste or treated water shall be discharged outside the premises. STP shall be installed to treat the sewage generated from factory premises.
- (vii). Electrostatic precipitator (5 field & 99.9% efficiency) with a stack height of 40 meters will be installed with 16 TPH Biomass like Rice Husk & Briquette fired boiler for controlling the particulate emissions within the statutory limit of 50 mg/Nm³. SO₂ and NO_x emissions shall be less than 100 mg/Nm³. At no time, the emission levels shall exceed the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Performance assessment of pollution control devices/ systems will be conducted annually.

- (viii). Boiler ash (7.83 TPD) will be used for brick manufacturing in proposed brick manufacturing plant inside plant premises. PP shall use biomass like rice husk/bagasse as fuel for the proposed boiler. Low sulphur coal with maximum sulphur content of 0.5% shall only be used. PP shall meet 10% of the total power requirement from solar power by generating power inside plant premises/adjacent/nearby areas.
- (ix). CO₂ (47 TPD) generated during the fermentation process will be collected by utilizing CO₂ scrubbers and it shall be sold to authorized vendors/collected in installed bottling plant.
- (x). PP shall allocate at least Rs. 50 Lakhs/annum for Occupational Health Safety. Occupational Health Centre for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.
- (xi). 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.
- (xii). The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms. PESO certificate shall be obtained.
- (xiii). 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.
- (xiv). 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.

- (xv). The green belt of at least 5-10 m width shall be developed in 1.0281 hectares i.e., 35 % of the total project area with tree density @ 2500 trees per hectares, mainly along the plant periphery. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department and native species shall be developed. Records of tree canopy shall be monitored through remote sensing map. Greenbelt development shall be completed before commissioning of the plant.
- (xvi). PP proposed to allocate Rs. 2.0 Crores towards Extended EMP (CER) which shall be spent as submitted in CER plan for monitorable activities like up-gradation of schools with provision of facilities e.g. Class rooms, playground, Laboratory, Library, Computer class, toilets, potable drinking water facilities, solar light/solar power support for uninterrupted power supply, soil nutrient management etc. Further, all the proposed activities under CER shall be completed before the commissioning of the plant in consultation with District Administration.
- (xvii). 15% of the plant area shall be earmarked for parking of vehicles for raw materials and finished products with facilities like rest rooms etc and no parking to be allowed outside on public places.
- (xviii). 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 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.
- (xix). 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.

- (xx). 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.
- (xxi). 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 12th August, 2021. A report along with photographs on the measures taken shall also be included in the six-monthly compliance report being submitted to concerned authority.

Agenda No. 05

Proposed 120 KLD Grain Based Ethanol plant along with 3.4 MW Cogeneration Power Plant at Plot No. 6, 7 & 8, Hargarh Industrial Area, Tehsil Sihora, Distt. Jabalpur, M.P. by M/s Vardhinni Fuels Pvt. Ltd – Consideration of Environmental Clearance

[IA/MP/IND2/290318/2022, IA-J11011/362/2022-IA-II(I)]

The Project Proponent and the accredited Consultant M/s Ascenso Enviro Pvt Ltd.(NABET certificate No. NABET/EIA/1821/RA 0180and validity 21st December, 2024) made a detailed presentation on the salient features of the project and informed that the proposal is for environmental clearance to the project for 120 KLD Grain Based Ethanol plant along with 3.4 MW Cogeneration Power Plant at Plot No. 6, 7 & 8, Hargarh Industrial Area, Tehsil Sihora, Distt. Jabalpur, M.P. by M/s Vardhinni Fuels Pvt. Ltd.

As per the MoEF&CC Notification S.O. 2339(E), dated 16th June, 2021, a special provision in the EIA Notification, 2006-(Schedule 5 (ga), Category B2) is made, wherein for all applications made for Grain based distilleries with Zero Liquid Discharge producing ethanol; solely to be used for

Ethanol Blended Petrol Programme of the Government of India shall be considered under B2 Category and appraised at Central Level by Expert Appraisal Committee (EAC) with condition that the project proponent shall file a notarized affidavit that ethanol produced from proposed project shall be used completely for EBP Programme.

The details of products and capacity as under:

S.No	Units	Proposed Capacity
1	Installed Capacity	Grain Base Distillery of 120 KLPD
2	Major Raw Material	Grain (Mostly Maize, Wheat and Rice)
3	Final Product & By-Product	Ethanol (120 KLPD) DDGS- 54 TPD CO2- 66 TPD
2	Co-Generation Power Plant (1 x 34 TPH-AFBC)	3.4 MW

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

Total land required for the project is 5.5275 Ha (13.6588 Acres). Greenbelt will be developed in an area of 33% of total project area i.e. 1.92 Ha. The estimated project cost is Rs. 125 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs 715 lakh and the Recurring cost (operation and maintenance) will be about Rs.140 lakh per annum. Total Employment will be 250 persons as direct & indirect due to the project. Industry proposes to allocate 1% of total project cost towards Corporate Environment Responsibility.

There are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, and Wildlife Corridors etc. within 10 km distance from the project site. Heran River is at approx. 2.50 km towards South East. Dhanwani RF is at approx. 6 Km towards North East.

Ambient air quality monitoring was carried out at Project Site for two weeks during 09.05.2022 to 21.05.2022 and baseline data indicates the ranges of concentrations as: PM10 (85.4 µg/m³), PM2.5 (43.5 µg/m³), SO₂ (8.9 µg/m³)

and NO₂ (18.5 µg/m³). AAQ modeling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 0.07 µg/m³, 0.04 µg/m³, 0.84 µg/m³ and 0.38 µg/m³ with respect to PM₁₀, SO₂, NO₂ and CO. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

One Time Total water requirement for the project will be 1968 KLD. Total fresh water demand for distillery operation is 488 KLD@3.9 KL of water/KL of Ethanol. Net fresh water requirement including domestic use is 513 KLD, which will be sourced from Hargarh Industrial Area, MPIDC. Effluent of will be treated through ETP/CPU. The plant will be based on Zero Liquid discharge system and no effluent/treated water will be discharged outside factory premises.

Power requirement 3.4 MW and will be fulfilled by 3.4 MW Co-generation power plant within the project site. Surplus power will be connected to State Grid. For emergency, 1 DG set of 1000 KVA will be installed within the plant area. Project will have 34 TPH AFBC boiler will be installed. ESP and bag filter with a stack of height of 60 m will be installed for controlling the particulate emissions within the statutory limit for the proposed boilers. Regular monitoring will be done to ensure that ambient air quality standards to meet all the time. All the internal roads will be asphalted.

Details of Process emissions generation and its management:

- CO₂ generated during fermentation process will be collected, purified, liquefied and sold to vendors.

Details of solid waste/Hazardous waste generation and its management:

S. No.	Solid waste/hazardous waste	Quantity, /day	Method of collection	Mode of disposal
1.	DDGS	54 TPD	Mechanical Conveyor	Sold as Cattle Feed to farmers, Poultry & Fisheries
2.	Boiler fly Ash	48 TPD	Mechanical conveyor into common silo for further disposal.	sold to bricks manufacturers

3.	Domestic solid waste	75 kg/day	Labour force. Domestic organic solid waste will be composted, while the inorganic solid waste will be handed over to municipality.	Segregated in separate colored bins at designated places. Disposed to authorized vendors.
4.	Used oil from DG set.	0.5 KL/A	Stored in leak proof sealed barrels	Disposed to SPCB authorized recyclers.
5.	Steam turbine oil waste	1.0 KL/A		

As per Notification S.O 2339(E), dated 16th June, 2021, PP has submitted self-certification in the form of notarized affidavit declaring that the proposed capacity of 120 KLPD will be used for manufacturing fuel ethanol only.

During deliberations, EAC discussed following issues:

The Committee noted that the information circulated to the members is not matching with the presentation being made by the Environmental Consultant. The Committee noted that air quality monitoring season details alongwith incremental value presented during the meeting is not matching with data circulated among members. Details of spent wash treatment was not provided. Few Members also mentioned that PP has not circulated KML file of the project site and other related document.

EAC suggested that the proposal cannot be considered at present form since there is no consistency in the information provided by PP/Environmental Consultant. Now PP/Environmental Consultant has to upload factual data /information w.r.t to proposed project on the parivesh portal.

Accordingly, proposal was returned in present form.

Agenda No. 06

Expansion of Distillery (105 KLPD to 350 KLPD) for Ethanol Production by using C / B Heavy Molasses/ Cane Juice along with enhancement in Cane Crushing (4900 TCD to 10,000 TCD) & Capacity of Cogeneration Plant (14.5 MW to 42 MW) by M/s. Shri Dutt India Pvt. Ltd. (SDIPL)- Consideration of Environmental Clearance.

[IA/MH/IND2/400929/2022, IA-J11011/115/2020-IA-II(I)]

The Project Proponent and the accredited Consultant M/s. Equinox Environments (I) Pvt. Ltd. (NABET Certificate no. : NABET/EIA/2124/SA 0177 and validity 10.10.2024) made a detailed presentation on the salient features of the project and informed that the proposal is for environmental clearance to the project for Expansion of Distillery (105 KLPD to 350 KLPD) for Ethanol Production by using C / B Heavy Molasses/ Cane Juice along with Enhancement in Cane Crushing (4,900 TCD to 10,000 TCD) & Capacity of Cogeneration Plant (14.5 MW to 42 MW) located At.: Pimpalwadi (Sakharwadi), Tal.: Phaltan, Dist.: Satara, Maharashtra State by M/s. Shri Dutt India Pvt. Ltd. (SDIPL).

As per EIA Notification 2006 (Schedule 5(g) Category A); however, as per in the MoEF&CC Notification S.O. 345(E), dated the 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 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."

The details of products and capacity as under:

No .	Name of unit	Name of the product/byproduct	Existing Production capacity	Additional production capacity	Total production capacity
1	Distillery	Molasses/ Sugarcane	105 KLPD	-	105 KLPD

		Syrup based: RS / ENA			
		C & B Molasses / Sugarcane Syrup based: Ethanol	105 KLPD	245 KLPD	350 KLPD
2	Co-generation power plant	Power	14.5 MW	27.5 MW	42 MW
3	Sugar mill	Sugarcane juice / syrup	4,900 TCD	5,100 TCD	10,000 TCD
4	Fermentation unit	Carbon dioxide	87 TPD	176 TPD	263 TPD

Ministry has issued Environmental Clearance to the existing Industry for Establishment of 105 KLPD Molasses/ Cane Juice vide File No. F. No. J-11011/115/2020-IA-II (I) dated 04.02.2021 Certified Compliance report of existing EC has been obtained from Integrated Regional Office, MoEFCC, Nagpur vide File No-EC-1292/RON/2021-NGP/9384 dated 02.03.2022. Action Taken report has been submitted to IRO, MoEFCC; Nagpur dated 11.05.2022 for 2 Non-Compliance & 6 partial compliance.

Existing Sugar Factory & Co-gen Plant is operational on the basis of Consent to Operate because the sugar factory crushing capacity is 4900 TCD & C-gen plant capacity is 14.5 MW. Hence, Environmental Clearance is not applicable. Latest CTO (air and water) has been issued on 17.09.2022 and is valid till 31.07.2023. Certified CTO compliance report has been issued dated 24.05.2022 from Sub-Regional Officer; MPCB, Satara (MS).

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

Total plant area after expansion will be 48.82 Ha (existing plant area - 32.89 Ha and additional land required - 15.93 Ha. for proposed capacity) which is under possession of the company and converted to industrial use. Out of the total plant area, 16.39 Ha. i.e. 36% of total plant area is to be under green belt. 7.13 Ha. i.e. 16% of the total plant area has already been developed as green belt and 9.26 Ha. i.e. 20% of total plant area will be developed under greenbelt & plantation in and around plant premises. The estimated project cost is Rs 305 Crores. Capital cost of EMP would be Rs. 33.50 Crores and recurring cost for EMP would be

Rs. 3.55 Crores per annum. Industry proposes to allocate Rs. 3.1 Crores towards extended EMP (Corporate Environment Responsibility). Total Employment after expansion will be 765 persons as direct & indirect.

There are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km distance. Protected Forest is at 4.3 Km; NE & 4.6 Km; SW from project site. Nira Right Bank Canal is at 1.5 Km; South from project site. Nira River is flowing at a distance of 2.7 Km from West to East direction.

AAQ modelling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 0.395 $\mu\text{g}/\text{M}^3$, 0.099 $\mu\text{g}/\text{M}^3$, 2.802 $\mu\text{g}/\text{M}^3$ and 0.214 $\mu\text{g}/\text{M}^3$ with respect to PM_{10} , $\text{PM}_{2.5}$, SO_2 and NO_x . The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

Total fresh water requirement after expansion will be 1099 M^3 /day (sugar mill 27 M^3 /day and distillery 1072 M^3 /day) which will be met from Nira Right Bank Canal. NOC has been obtained from Irrigation Dept.; Maharashtra vide letter no. 1814/ Year 2020 dated 29.05.2020. Existing effluent generation is 305 M^3 /day from sugar mill treated in full-fledged ETP and 1056 M^3 /day from distillery which is treated existing Condensate Polishing Unit (CPU). Proposed total effluent generation from sugar factory after expansion will be 694 M^3 /day which will be treated in existing ETP (capacity 750 M^3 /day) and that from the distillery will be 3101 M^3 /day which will be treated through existing CPU (capacity – 1200 M^3 /day) & Proposed CPU (capacity – 3000 M^3 /day). In molasses based & Sugarcane Syrup operation, spent wash generated from the analyzer column during distillation will be concentrated in Multi Effect Evaporator and concentrated spent wash will be dried in ATFD to form powder (For 250 KLPD) & Incinerated in Incineration Boiler (For 100 KLPD). Domestic waste water will be treated in STP (Capacity of STP in 30 KLD). The plant is being based on Zero Liquid discharge system and treated effluent/water is not to be discharged outside the factory premises.

Total power requirement of distillery & sugar mill after expansion will be 19.3 MW which will be sourced from 42 MW co-generation power plant. Existing sugar mill has 28 TPH, 55 TPH & 140 TPH bagasse fired boilers. 40 TPH Spentwash & Coal/ bagasse fired boiler will be installed in

distillery. APCE as 2 separate Wet Scrubbers with a common stack height of 40 M & APCE as ESP with a stack height of 72 M is installed with the existing boilers for controlling the particulate emissions within the statutory limit of 50 mg/Nm³. APCE as ESP with a stack height of 85 M will be installed for controlling the particulate emissions within the statutory limit of 30 mg/Nm³ for the proposed boiler. Industry has existing 500 KVA & 380 KVA, proposed 750 KVA (2 nos.) DG sets which will be used as standby during power failure and stack height (5 M, 3 M, 5 M & 5 M) are provided as per CPCB norms to the DG sets.

Details of Process emissions generation and its management:

- APCE as two Wet Scrubbers with a common stack of 40 M height is installed for the existing 28 TPH & 55 TPH boilers & ESP with a stack of 72 M height is installed for the existing 140 TPH boiler for controlling the particulate emissions within the statutory limit of 50 mg/Nm³. APCE as ESPs with a stack of height of 85 M will be installed for proposed 40 TPH Incineration boiler for controlling the particulate emissions within the statutory limit of 30 mg/Nm³.
- Online Continuous Emission Monitoring System is installed with the stack and data transmitted to CPCB/SPCB servers.
- CO₂ (263 TPD) generated during the fermentation process will be collected by utilizing CO₂ scrubbers and /collected in installed bottling plant.

Details of solid waste/Hazardous wastegeneration and its management:

- Concentrated spent wash (400 M³/day) from 250 KLPD distillery will be converted to powder by ATFD & Remaining Concentration Spentwash (160 M³/day) from 100 KLPD distillery will be Incinerated in Incineration boiler.
- Boiler ash (2070 TPM) from Bagasse fire boiler after expansion will be Used as Manure / Given for brick manufacturing. Also, Spentwash & Coal ash from distillery boiler after expansion (1440 TPM) will be Used in Potash recovery/ Given for brick manufacturing.
- Used oil (0.7 MT/M) will be sold to authorized recycler.
- CPU sludge (93 MT/M) and STP Sludge (1 MT/M) will be Used as

manure.

- Press mud (12,000 MT/M) will be used as manure in sugar mill.
- Bagasse (90,000 MT/M) will be used as fuel in sugar mill.
- Molasses (5,880 MT/M) will be used as raw material in distillery.

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 245 KLPD & 5100 TCD will be used for manufacturing fuel ethanol only.

During deliberations, EAC discussed following issues:

- The Committee noted that as per CCR report issued by IRO, PP has not provided detailed action plan to achieve 33 % of greenbelt. During presentation, it was informed that greenbelt has been developed in 5.2 ha and additional greenbelt to be developed in 5.5 ha. Accordingly, the Committee suggested them to provide time bound month wise action plan for greenbelt development in 5.5 ha along with budgetary provisions. Details of plant Species to be elaborated in the action plan. Environmental Consultant shall also check the existing Greenbelt developed in 5.2 ha and action plan to be submitted for densification of greenbelt.
- PP shall submit the detailed point wise compliance report to the other non compliance and 6 partial compliance observed by IRO in CCR.
- The Committee noted that there is discharge of treated water from the existing and proposed sugar unit. The Committee suggested them to submit an action plan to utilize the treated effluent generated from the existing and proposed sugar unit for the proposed distillery. Accordingly, water balance to be modified.
- It was informed that wet scrubber to be replaced by ESP. Accordingly, It was suggested to carry out incremental GLC of the existing boiler to understand the impact on air quality after modification.
- Risk assessment to be carried out and mitigation measure to contain the fire impact within the boundary of the project site to be proposed.

- Accordingly revised EMP report alongwith budget earmarked for EMP and recurring cost to be submitted.

Accordingly, proposal was deferred for want of above additional information. Above all additional information shall be submitted online to the PARIVESH portal for further consideration by EAC.

Agenda No. 07

Expansion of existing distillery unit from 90 KLPD to 260 KLPD located at Gat no. 2955, Kundal, Taluka Palus, District Sangli, Maharashtra by M/s. Krantiagrani Dr. GD Bapu Lad Sahakari Sakhar Karkhana Ltd- Consideration of Environmental Clearance.

[IA/MH/IND2/283332/2022,IA-J11011/117/2016-IA-II(I)]

The Project Proponent and the accredited Consultant M/s. Vasantdada Sugar Institute, Pune (NABET certificate no: NABET/EIA/2023/RA 0208 and validity: 19 Dec 2023) made a detailed presentation on the salient features of the project and informed that the proposal is for environmental clearance to the project for expansion of existing distillery unit from 90 KLPD to 260 KLPD located at Gat no. 2955, Kundal, Taluka Palus, District Sangli, Maharashtra by M/s. Krantiagrani Dr. GD Bapu Lad Sahakari Sakhar Karkhana Ltd. During presentation of the proposal, Dr. Sanjay Patil has recused himself from the meeting.

As per EIA Notification 2006 (Schedule 5(g) Category A); however, as per in the MoEF&CC Notification S.O. 345(E), dated the 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 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."

The details of products and capacity as under:

Sr . n o.	Name of the unit	Name of the product/byproduct	Existing Production capacity	Additional production capacity	Total production capacity
1	Distillery (Molasses/syrup/Juice).	Ethanol	90 KLPD	170 KLPD	260 LPD
2.	Fermentation Unit	Carbon dioxide	67 tons per day	125 tons per day	192 tons per day

Ministry/SEIAA has issued Environmental Clearance to the existing Industry for a capacity of 90 KLPD vide File No. No. J-11011/117/2016- IA II(I) dated 31/12/2021. Certified Compliance report of existing EC has been obtained from Integrated Regional Office, MoEFCC, Nagpur vide File no- EC/529/RON/2017-NGP 110589 dated 15/11/2022. CTE has been obtained and commissioning of the existing distillery is at final stage. EAC found the response satisfactory.

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

The project proponent holds around 4,28,967.00 Sq. m. (42.89 Ha) of land. Part of which is already under industrial use i.e. for sugar, cogeneration and distillery units. The built-up area occupied by the existing Sugar and distillery unit is approx. 62,692.32 sq.m. The built-up area required for the proposed expansion is about 11,421.62 Sq.m. the area allocated for this expansion is adjacent to the existing distillery unit. The unit has already allocated approx. 141,640.00 Sq. m. of greenbelt area and it is 33 % of the total land available with the proponent. During this expansion project additional 8093.71 Sq. m. area is proposed for greenbelt development The estimated cost of expansion project is Rs. 70 Crores. Capital cost of EMP would be Rs. 9.70 Crores and recurring cost for EMP would be Rs. 89.50 Lakhs per annum. Industry proposes to allocate Rs. 70.0 Lakhs Crores towards extended EMP (Corporate Environment Responsibility). Total Employment after expansion will be

40 persons as direct & approx. 500 people as indirect.

There is one wildlife sanctuary (Yashwantrao Chavan Sagareshwar Wildlife Sanctuary) within 10 km distance. The wildlife sanctuary is at a distance of 1.7 Km in west direction from project site. ESZ for same is finalized vide Notification No. SO1565E dated May 15, 2017. The Eco-Sensitive Zone is spread over an area of 3.68square kilometres with an extent varying from 0.100 kilometers around the boundary of Yashvantrao Chavan Sagareshwar Wildlife sanctuary. The project site is located 1.6 Km from notified ESZ. Water bodies: Krishna Riven is at a distance of 7.00 Km in SW direction.

Project will be using the additional steam from the existing sugar unit. Steam will be available at sugar unit because of diversion of cane for juice to ethanol. Therefore, the proposed unit will be using the same amount of fuel so PP has not submitted Air quality modelling data initially.

Total fresh water requirement after expansion will be 1040 CMD which will be met Krishna River. NOC has been obtained by M/s. Krantiagrani Dr. GD Bapu Lad SSK Sahakari Sakhar Karkhana Ltd vide letter no. TIMP/IRRIGATION/ 590/2022 dated 09/02/2022 and validity 31/10/2027. Existing effluent generation is 819 CMD from distillery which is treated through Condensate Polishing Unit (900 CMD). In molasses based operation, spent wash generated from the analyzer column during distillation will be concentrated in Multi Effect Evaporator and concentrated spent wash will be burnt in incineration boiler. Domestic waste water will be treated in STP of capacity 100 KLPD. The plant is based on Zero Liquid discharge system and treated effluent/water will not be discharged outside the factory premises.

Total power requirement will be 3.4 MW out of which 2.0 MW will be generated from existing captive power generation unit and remaining 1.4 MW power will be taken from the TG set of sugar unit. Total steam requirement will be 37.50 TPH out of which about 20 TPH steam will be generated through existing 22 TPH incineration boiler and remaining 17.50 TPH steam will be taken from the boiler of sugar unit. Existing 22 TPH incineration boiler will used as it is with stack height of 75 m, 3.0 m diameter and separate ESP as air pollution control system is installed for controlling the particulate emissions within the statutory limit of 50

mg/Nm³. Concentrated spent wash and coal or bagasse used as a fuel for incineration boiler. The factory is presently having three DG set out of which two are of 320 KVA and one is of 1010 KVA. Stacks of 2.5 m is already available.

Details of Process emissions generation and its management:

- ESP as APCE with a stack height of 75 m is installed with the existing boiler for controlling the particulate emissions within the statutory limit of 50 mg/Nm³.
- Online Continuous Emission Monitoring System is installed with the stack and data will be transmitted to CPCB/SPCB servers.
- CO₂ (192 TPD) generated during the fermentation process will be collected by utilizing CO₂ scrubbers and sold to authorized vendors/collected in proposed bottling plant.

Details of solid waste/Hazardous wastegeneration and its management:

- Concentrated spent wash (91 m³/day) will be burnt in incineration boiler.
- Boiler ash (81.11 TPD in case of coal as supplementary fuel /26.00 TPD in case of bagasse as supplementary fuel) will be used for brick manufacturing in proposed brick manufacturing plant inside plant premises.
- CPU sludge (8.0-10.0TPD) and STP Sludge (0.5-1.0 QPD) is being/will be used as manure.

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 170 KLPD will be used for manufacturing fuel ethanol only.

During deliberations, EAC discussed following issues:

- Photographs of 90 KLPD distillery unit were presented. It shows the incineration boiler, fuel carrier system, fermentation unit, distillation unit, MEE unit as well as storage of raw material, finished products and CPU have been installed.

- Boundary of Yashwantrao Chavan Sagareshwar wildlife sanctuary and eco sensitive zone from the the project site is 1.7 KM and 1.6 KM respectively. PP submitted the copy of map authorized by Chief Conservator of forests & Field Director, Satyadri Tiger Reserve, Kolhapur. .
- Air pollution modelling of the existing boiler and fuel consumption has been submitted. Maximum incremental GLC from the existing boiler has been reported as 0.67 µg/ M³ and 3.19 µg/ M³ for PM and SO₂.
- Revised CER budget for Rs. 70 lakh has been submitted.
- Revised list of native tree species has been submitted.

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.

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.

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.

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.

The EAC, after detailed deliberations, **recommended** the project for grant of environmental clearance, subject to compliance of terms and conditions as under, and general terms of conditions at Annexure: -

- (i). As per the Notification S.O. 2339(E), dated 16th June, 2021, project falls in category B2 and the proposed capacity of 170 KLPD shall only be used for fuel ethanol manufacturing as per self-certification in form of a notarized affidavit by the Project Proponent. Provided that subsequently if it is found that the ethanol, produced based on the EC granted as per this dispensation, is not being used completely for 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.
- (ii). The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- (iii). EC granted for a project on the basis of the submitted documents shall become invalid in case the actual land for the project site turns out to be different from the land considered at the time of appraisal of project. Conversion of land use (CLU) certificate shall be obtained before start of construction activities.
- (iv). NOC from the Concerned Local authority shall be obtained before start of the construction of plant and drawing of the surface water for the

project activities, State Pollution Control Board / Pollution Control Committees shall not issue the Consent to Operate (CTO) under Air (Prevention and Control of Pollution) Act and Water (Prevention and Control of Pollution) Act till the project proponent shall obtain such permission. No ground water shall be used for the plant operations.

- (v). Total Fresh water requirement shall not exceed 1040 m³/day after proposed expansion, which will be met from Krishna River. No ground water recharge shall be permitted within the premises. Industry shall construct a rain water storage pond of 60 days capacity and the accumulated water to be used as fresh water thereby reducing fresh water consumption.
- (vi). In molasses based operation, spent wash generated from the analyser column during distillation shall be concentrated in Multi Effect Evaporator followed by incineration in incineration boiler. For the existing unit, Spent wash shall be concentrated followed by incineration. The condensate, spentlees and utilities effluent shall be treated in the ETP comprising tertiary treatment (Condensate Polishing Unit). Treated effluent will be recycled/reused for makeup water of cooling towers/process etc. and no wastewater or treated waste-water shall be discharged outside the premises. STP shall be installed to treat the sewage generated from factory premises.
- (vii). Adequate numbers of ground water 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 Dissolve Solids shall be monitored and report submitted to the Ministry's Regional Office.
- (viii). As proposed no new boiler will be installed and steam will be sourced from the existing unit. At no time, the emission levels from the existing unit 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.

- (ix). Boiler ash (81.11 TPD) shall be used for brick manufacturing in proposed brick manufacturing plant inside plant premises. PP shall use biomass like rice husk/bagasse as fuel for the proposed boiler. PP shall meet 10% of the total power requirement from solar power by generating power inside plant premises/adjacent/nearby areas. Bio composting shall be abandoned in the existing plant by the within 2 years from the date of issuance of EC.
- (x). CO₂(192 TPD)generated during the fermentation process is being/will be collected by utilizing CO₂scrubbers and sold to authorized vendors/collected in proposed bottling plant.
- (xi). PP shall allocate at least Rs. 50 Lakhs/annum for Occupational Health Safety. Occupational Health Centre for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.
- (xii). 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.
- (xiii). The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms. PESO certificate shall be obtained.
- (xiv). 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.
- (xv). 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.

- (xvi). The green belt of at least 5-10 m width shall be developed within one year from the date of issue of EC letter in 141,640 m² i.e., 33% of the total project area with tree density @ 2500 trees per hectares, mainly along the plant periphery. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department and native species shall be developed. Records of tree canopy shall be monitored through remote sensing map.
- (xvii). PP proposed to allocate Rs. 0.7 Crores towards Extended EMP (CER) which shall be spent as submitted in CER plan for monitorable activities like up-gradation of schools with provision of facilities e.g. Class rooms, playground, Laboratory, Library, Computer class, toilets, potable drinking water facilities, solar light/solar power support for uninterrupted power supply, soil nutrient management etc. Further, all the proposed activities under CER shall be completed before the commissioning of the plant in consultation with District Administration.
- (xviii). 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. Out of the total project area, 15% shall be allotted solely for parking purposes with facilities like rest rooms etc.
- (xix). 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 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.
- (xx). 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.

- (xxi). 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.
- (xxii). 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 12th August, 2021. A report along with photographs on the measures taken shall also be included in the six-monthly compliance report being submitted to concerned authority.

Agenda No. 08

Expansion of existing Distillery Unit capacity from 81 KLD to 166 KLD (B-Heavy/Cane Syrup based distillery) with existing 3.5 MW Co-Generation Power Plant within existing plant premises at village - Jhajjhar, Tehsil - Biswan, District- Sitapur, Uttar Pradesh by M/s The Seksaria Biswan Sugar Factory Limited, Unit – Biswan- Consideration of Environmental Clearance.

[IA/UP/IND2/405983/2022,IA-J11011/380/2006-IA-II(I)]

The Project Proponent and the accredited Consultant M/s Environmental and Technical Research Centre (NABET certificate no. NABET/EIA/1922/IA0050 and validity 29th January 2023) made a detailed presentation on the salient features of the project and informed that the proposal is for environmental clearance to the project for proposed expansion of existing Distillery Unit capacity from 81 KLD to 166 KLD (B-Heavy/Cane Syrup based distillery) with existing 3.5 MW Co-Generation Power Plant within existing plant premises at village - Jhajjhar, Tehsil - Biswan, District- Sitapur, Uttar Pradesh by M/s The Seksaria Biswan Sugar Factory Limited, Unit – Biswan.

As per EIA Notification 2006 (Schedule 5(g) Category A); however, as per in the MoEF&CC Notification S.O. 345(E), dated the 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 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."

The details of products and capacity as under:

S. No	Name of Unit	Product Details	Existing Quantity	Proposed Quantity	Total Quantity
1	Distillery	RS /ENA / Ethanol	81 KLD (RS/ ENA/ AA)	85 KLD (Ethanol Only)	166 KLPD
2	Co gen Power	Co-Gen Power	3.5 MW	No Change	3.5 MW (No Change)
3	Fermentation Unit	CO ₂	56 TPD	60 TPD	116 TPD

Ministry has issued Environmental Clearance to the existing Industry for a capacity of 65 KLD vide File No. J-11011/380/2006-1A II(I) dated 05th January 2007. Certified Compliance report of existing EC has been obtained from Integrated Regional Office, MoEFCC, Lucknow - vide File no-IV/ENV/UP/IND-101/276/2008 dated 22th September 2022. No partial compliance has been found in CCR report. EAC found the information satisfactory.

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

Total plant area after expansion will be 14.393 Ha, no additional land will

be acquired for expansion project as the same will be done within existing premises. Out of total plant area, 4.85 Ha i.e., 33% of the total plant area has already been developed as greenbelt & plantation and the same will be maintained/ will be developed under greenbelt & plantation in and around plant premises. The Cost for proposed expansion: Rs. 90.80 Crores. Capital cost of EMP would be Rs. 40.40 Crores and recurring cost for EMP would be Rs. 3.54 Crores per annum. Industry proposes to allocate Rs. 91 Lakhs towards Extended EMP (Corporate Environment Responsibility). Total Employment will be 120 Nos persons as direct & indirect.

There are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, and Wildlife Corridors etc. within 10 km distance. No Reserve Forest within 10 km radius. Water bodies: Puraini Tal is at a distance of 3.5 Km in North East direction.

AAQ modelling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be $0.67 \mu\text{g}/\text{m}^3$, $0.41 \mu\text{g}/\text{m}^3$, $0.86 \mu\text{g}/\text{m}^3$ and $0.67 \mu\text{g}/\text{m}^3$ with respect to PM_{10} , $\text{PM}_{2.5}$, SO_2 and NO_x . The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

Total fresh water requirement after expansion will be 694 KLD, which will be met from Ground Water. Permission for 1465 KLD has been obtained from Central Ground Water Authority. Other Effluent (Condensate/spent lees/blowdown etc.) generation after expansion will be 1432 KLD quantity will be treated through Condensate Polishing Unit /Effluent Treatment Plant of capacity 1750 KLD. Effluent of Spent wash generation after expansion will be 963 KLD (@ 5.8 – 6.0 KL/KL of product) quantity is being / will be treated through Multi effect evaporators. Concentrated spent wash is being / will be used as fuel in incineration boiler of capacity – 33 TPH (modified capacities). Condensate will be treated in condensate polishing unit. 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.

Total power requirement after expansion will be 3200 KW will be met from Co-generation power plant of 3.5 MW & State power distribution corporation Limited. Existing 33 TPH Incineration boiler has been installed. APCE Bag filter with a stack of height of 80 m has been installed for controlling the

particulate emissions within the statutory limit of 50 mg/Nm³ for the existing modified boiler.

Details of Process emissions generation and its management:

- APCE Bag filter with a stack height of 80 meters has been installed for controlling the particulate emissions.
- Online Continuous Emission Monitoring System has been installed with the stack and same data has been transmitted to CPCB/SPCB servers.
- CO₂ (116 TPD) generated during the fermentation process will be collected by utilizing CO₂ scrubbers and it shall be sold to authorized vendors/collected in installed bottling plant.

Details of solid waste/Hazardous wastegeneration and its management:

Particulars	Existing Requirement (81 KLD)	Additional (85 KLD)	Total after proposed expansion (166 KLD)
Total Ash	21.6 MT/Day	22.7 MT/Day	44.3 MT/Day
Yeast Sludge	7.0 MT/Day	2.96 MT/Day	9.96 MT/Day
CPU Sludge	1.0 TPD	0.5 TPD	1.5 TPD

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 85 KLPD will be used for manufacturing fuel ethanol only.

During deliberations, EAC discussed following issues:

- Spent wash storage lagoon shall be covered and its capacity shall not exceed 5 days. PP agreed to it.
- PP has informed that Industry has already abandoned bio-composting since March, 2021 and started concentration and incineration for spent wash treatment. PP has also committed that bio-composting will not be done anymore.
- PP informed that Baggase and slop fired boiler capacity will be enhanced from 30 TPH to 33 TPH. Accordingly increase capacity

shall meet the prescribed standards of emissions

- PP has informed that Bag filter was installed in boiler and is designed to achieve the emission limit of 50 mg/Nm³
- PP has given the dimensions of rain water tank as 40m (W) x 45m (L) x 4m (D).
- PP shall allocate at least Rs. 1.00 Crores towards Extended EMP (CER) which shall be spent as submitted in CER plan for monitorable activities

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.

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.

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.

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.

The EAC, after detailed deliberations, **recommended** the project for grant of environmental clearance, subject to compliance of terms and conditions as under, and general terms of conditions at Annexure: -

- (i). As per the Notification S.O. 2339(E), dated 16th June, 2021, project falls in category B2 and the proposed capacity of 85 KLPD shall only be used for fuel ethanol manufacturing as per self-certification in form of a notarized affidavit by the Project Proponent. Provided that subsequently if it is found that the ethanol, produced based on the EC granted as per this dispensation, is not being used completely for 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.
- (ii). The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- (iii). EC granted for a project on the basis of the submitted documents shall become invalid in case the actual land for the project site turns out to be different from the land considered at the time of appraisal of project. Conversion of land use (CLU) certificate shall be obtained before start of construction activities.
- (iv). NOC from the CGWA/Concerned Local authority shall be obtained before start of the construction of plant and drawing of the ground water for the project activities, State Pollution Control Board / Pollution Control Committees shall not issue the Consent to Operate (CTO) under Air (Prevention and Control of Pollution) Act and Water (Prevention and

Control of Pollution) Act till the project proponent shall obtain such permission. No ground water shall be used for the plant operations.

- (v). Total Fresh water requirement shall not exceed 694 m³/day after proposed expansion, which will be met from ground water. No ground water recharge shall be permitted within the premises. Industry shall construct a rain water storage pond of 60 days capacity and the accumulated water to be used as fresh water thereby reducing fresh water consumption.
- (vi). In molasses based operation, spent wash generated from the analyser column during distillation shall be concentrated in Multi Effect Evaporator followed by incineration in incineration boiler. The condensate, spentlees and utilities effluent shall be treated in the ETP comprising tertiary treatment (Condensate Polishing Unit). Treated effluent will be recycled/reused for makeup water of cooling towers/process etc. and no waste or treated water shall be discharged outside the premises. STP shall be installed to treat the sewage generated from factory premises. PP shall ensure that no biocomposting of spent wash shall be done in the factory premises.
- (vii). Adequate numbers of ground water 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 Dissolve Solids shall be monitored and report submitted to the Ministry's Regional Office.
- (viii). Bag filter with a stack height of 80 meters will be installed with the proposed boilers of capacities 33 TPH Biomass fired boiler for controlling the particulate emissions within the statutory limit of 50 mg/Nm³. SO₂ and NO_x emissions shall be less than 100 mg/Nm³. At no time, the emission levels shall exceed the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Performance assessment of pollution control devices/ systems will be conducted annually.

- (ix). Boiler ash (44.3 TPD) shall be supplied to authorised vendor for manufacturing manure for which MoU has been submitted. PP shall use biomass like rice husk/bagasse as fuel for the proposed boiler. PP shall meet 10% of the total power requirement from solar power by generating power inside plant premises/adjacent/nearby areas. Bio composting shall be abandoned in the existing plant by the within 2 years from the date of issuance of EC.
- (x). CO₂(116 TPD)generated during the fermentation process is being/will be collected by utilizing CO₂scrubbers and sold to authorized vendors/collected in proposed bottling plant.
- (xi). PP shall allocate at least Rs. 50 Lakhs/annum for Occupational Health Safety. Occupational Health Centre for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.
- (xii). 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.
- (xiii). The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms. PESO certificate shall be obtained.
- (xiv). 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.
- (xv). 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.

- (xvi). The green belt of at least 5-10 m width shall be developed within one year from the date of issue of EC letter in 4.85 hectares i.e., 33% of the total project area with tree density @ 2500 trees per hectares, mainly along the plant periphery. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department and native species shall be developed. Records of tree canopy shall be monitored through remote sensing map.
- (xvii). PP proposed to allocate Rs. 0.91 Crores towards Extended EMP (CER) which shall be spent as submitted in CER plan for monitorable activities like up-gradation of schools with provision of facilities e.g. Class rooms, playground, Laboratory, Library, Computer class, toilets, potable drinking water facilities, solar light/solar power support for uninterrupted power supply, soil nutrient management etc. Further, all the proposed activities under CER shall be completed before the commissioning of the plant in consultation with District Administration.
- (xviii). 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. Out of the total project area, 15% shall be allotted solely for parking purposes with facilities like rest rooms etc.
- (xix). 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 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.
- (xx). 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.

- (xxi). 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.
- (xxii). 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 12th August, 2021. A report along with photographs on the measures taken shall also be included in the six-monthly compliance report being submitted to concerned authority.

22nd December, 2022 (Thursday)

Agenda No. 01

Establishment of 250 KLPD grain based distillery to manufacture 125 KLPD Ethanol and 125 KLPD Extra Neutral Alcohol (ENA) located at Village Usroli, Tehsil Khalapur, District Raigad State Maharashtra by M/s. Rocking Bombay Beverages Private Limited (RBBPL) - Re-consideration of Environmental Clearance

[IA/MH/IND2/260593/2022, IA-J-11011/90/2022-IA-II(I)]

The proposal was earlier considered by the EAC (Ind-2) in its meeting ID-IA/IND2/13379/14/11/2022 held during 14th -15th November 2022 wherein EAC deferred the proposal and desired certain requisite information/inputs. After submission of ADS reply by Project Proponent, proposal was again considered in EAC meeting (Meeting ID: IA/IND2/13410/21/12/2022) held on 21st – 22nd December, 2022. Information desired by EAC and responses submitted by the project proponent along with remarks of EAC as discussed in meeting are as follows:

Sr. No.	ADS by MoEF&CC	Reply of PP
1	The Committee sought reasoning for SO ₂ levels of 33.41 µg/m ³ and NO ₂ levels of 37.6 µg/m ³ in the ambient air quality data.	PP has provided the justification for higher background SO ₂ and NO ₂ levels in ambient air.
2	Recheck incremental GLC and recalculate the same as values are on higher side. Proper control measures for reducing SO ₂ and NO _x emissions shall be submitted.	The background GLC concentration of the study area is comparatively higher, as a result the total GLC are higher, whereas the incremental GLC are less/ negligible. PP informed that only low sulphur coal shall be used as fuel in order to minimize the impact of the proposed project on SO ₂ concentrations. Rice Husk will be used as fuel, as the sulphur content in it is negligible, SO ₂ emissions will be very less. The boilers with Boilers Fuel gas recirculation (FGR) / selective catalytic reduction (SCR) process shall be used to reduce the NO _x emissions to the maximum extent.
3	Committee noted that air quality monitoring stations are not as per CPCB norms and direction in which monitoring stations has been selected is also incorrect as per details submitted. Committee suggested that fresh baseline data for 15 days shall be collected in proper direction taking into account upwind and downwind of dominant wind direction.	Additional AAQ Monitoring for 3 locations, considering upwind and downwind of dominant wind direction, had been be conducted and Air Modelling considering existing and additional AAQ monitoring locations / receptors has been executed further.
4	NOC from Gram Panchayat Department shall be submitted	Gram Panchayat NoC was provided

5	Revised water balance shall be submitted @ 4 KL/KL of ethanol production.	Revised water balance provided.
6	Detailed and specific action plan for public hearing issues raised during public hearing along with timeline and budgetary allocation shall be submitted.	PP submitted the detailed action plan.
7	PH proceedings mention that some objections were received in writings also. Copy of objections/suggestions received in writing from public along with public hearing action plan including budgetary allocation and timeline for the issues raised in writing shall be prepared and submitted.	PP presented objections received in writing from public and action plan to address the same was provided.
8	Valid NOC/application for fresh water withdrawal shall be submitted	Fresh water withdrawal application has been submitted.

EAC was satisfied with the response & presentation made by PP on additional details sought.

The Project Proponent and the accredited Consultant M/s. DR. SUBBARAO'S ENVIRONMENT CENTER (NABET certificate no. NABET/EIA/2023/SA 0174 and validity Dec 12, 2023) made a detailed presentation on the salient features of the project and informed that the proposal is for environmental clearance to the project Establishment of 250 KLPD grain based distillery to manufacture 125 KLPD Ethanol and 125 KLPD Extra Neutral Alcohol (ENA) located at Village Usroli, Tehsil Khalapur, District Raigad State Maharashtra by M/s. Rocking Bombay Beverages Private Limited (RBBPL).

All (i) All molasses-based distilleries (ii) All Cane juice/ non-molasses-based distilleries (> 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).

The details of products and capacity as under:

Sr. No	Unit	Product/byproduct	Existing Quantity	Proposed Quantity	Total Quantity	
Product						
1.	KLPD	Distillery	00	250	250	
a.	KLPD	Ethanol	00	125	125	
b.	KLPD	Extra Neutral Alcohol	00	125	125	
c.	MW of TG Set	Power	00	1*6	1*6	
Byproduct						
1.	TPD	CO ₂	00	186	186	
2.	LPD	Fusel Oil	00	500	500	
3.	MTPA	DDGS (Dry)	00	47916	47916	
4.	TPD	Ash	When Rice Husk used as fuel	00	64	64
			When Coal used as fuel	00	24	24

Note: Capacity shall not exceed 250 KLPD at any time.

Standard Terms of Reference have been obtained vide F. No. IA-J-11011/90/2022-IA-II(I) dated 23.03.2022. It was informed that there is no litigation is pending against the project.

Public Hearing for the proposed project had been conducted by the Maharashtra Pollution Control Board on 10/06/2022 at Harshali Hotel, Sangadewadi, Group Gram Panchayat Devnhave, Tal. Khalapur, Dist. Raigad at 12.30 Noon chaired by Additional District Magistrate Raigad. The main issues raised during the public hearing and their action plan:

Issue in Brief	Action plan in brief	Budget allocated and timeline
Shri Bhushan Suryakant Patil, Residence – Khanavgaon, Tal – Khalapur, District – Raigad, Maharashtra State, stated that this project will be implemented at a distance of about 600 -700 meters	Project Proponent has earmarked Rs. 3.1491/- crores as CER funds. Details of the same have been provided in Annexure No III in EIA Report.	Project Proponent has earmarked Rs. 3.1491/- crores as CER funds. The funds will be utilized within span of 05 years. Details of the

<p>from his village. Therefore, the local people will get employment opportunities. He also said that this project is environmentally friendly. He discussed with the local people and concluded that if ethanol is being produced as an alternative to petrol, then this project is beneficial for the whole of Maharashtra State and the country. The CSR funding of this project will also benefit the tribal community in the area.</p>		<p>same have been provided in Annexure No. III.</p>
<p>Shri Bhai Shinde, Villager, Tal - Khalapur, District - Raigad, Maharashtra State., objected that though the documents regarding the proposed project were made available by the Maharashtra Pollution Control Board at Gram Panchayat Offices, the villagers are not made aware about the benefits and ill-effects of the proposed project. The villagers at Usroli village, where this project will be commissioned are misguided. He objected and asked that the area where the project is to be set up falls under the "Green Belt Zone" and</p>	<ul style="list-style-type: none"> • The project site is not declared as green belt rather; the project site has been converted to industrial zone by Planning Authority. Reply has been already submitted to EDS of MoEF&CC. Land conversion document is attached as Annexure IV and therefore the proposed activity is permitted on the said land parcel. • Project site does not fall under any notified eco sensitive zone. Details of reserve forest patches, distance from notified sanctuaries and their respective eco sensitive zone and distance from 	<p>Project Proponent has earmarked Rs. 3.1491/- crores as CER funds. The funds will be utilized within span of 05 years. Details of the same have been provided in Annexure No. III.</p>

<p>hence an explanation should be given as to how the approval has been given for setting up a chemical plant there. He said that from the distance of 5 - 6 of the project site, the Narangi Gram Panchayat is adjacent to the Chilwan Gram Panchayat, where there is an "Eco-Sensitive Zone". Still then, if the project is commissioned, then there will be degradation of environment. These facts are not reflected in the project's environmental report and in the presentation. The Khanewadi village is just 200 meters away from the project site. The villagers of Khanewadi were in the meeting. No guidance had been given to the local people regarding the production of the proposed project and environmental protection measures. So, they opposed this project. He objected that how a chemical company can be set up in a green belt, then whether the "Green belt" is converted as a "Chemical zone" as per the rules. What production is going to be in the company, this</p>	<p>villages mentioned in draft western ghat notification is mentioned in Form 1 and EIA report.</p> <ul style="list-style-type: none"> • Project site is declared as industrial zone for establishment of grain based 250 KLPD distillery and this is agro based industry. The project site is not declared as chemical zone. • Along with the coal the rice husk and biomass will be used as fuel for boiler. Electro-Static-Precipitator (ESP) having 99.9% efficiency along stack of 60 meters will be provided as pollution control system and the collected ash through ESP will be collected, packed and transported to selected cement companies. Further Project proponent will install online continuous emission monitoring system which will be connected to MPCB and CPCB servers. • There is no risk of release of carcinogenic chemicals / pollutants from grain-based distillery. Also, there is no risk of TB due to proposed activity. • Medical facility will 	
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<p>should be informed by MPCB to them. There is a forest area at a distance of 500 meters. Project production is expected to increase pollution, as the project will require 250.0 tons of coal per day. There is no opposition to the development. However, near the project site, the downtrodden people of the society, the tribals (Adivasis) live. It is a very backward area. But some people are misleading those people. Also, he objected that if the coal of 250.0 tons per day is burnt in the project, then there will be huge pollution. Already, local people are suffering from pollution from other companies. He said that as villagers, they are opposing this proposed Rocking Bombay project. This is an environmentally degrading project. They said that although the Project Proponent said that 250 people would be provided employment opportunities here, he assured that further adverse effects would be extremely harmful to the environment. People in</p>	<p>be provided and same provision has been made in CER.</p>	
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<p>the area may suffer due to cancer, TB. He raised the question as whether the Project Proponent would take the responsibility of the concerned local persons at that time? There is no hospital with modern medical facilities. Hence, as a villager, they were against this project.</p>		
<p>Some participants collectively questioned whether the project has a WTP mechanism and remarked that 95% of the industries here do not operate WTP system. All the wastewater is discharged into the river without any treatment. Whether this will not happen here?</p>	<p>--</p>	<p>Project Proponent has earmarked Rs. 3.1491/- crores as CER funds. The funds will be utilized within span of 05 years. Details of the same have been provided in Annexure No. III.</p>
<p>Shri Gautam Kashid Pawar, Sarpanch, Grampanchayat Chilthan, Tal - Khalapur, Dist - Raigad. stated that this project falls within the limits of their Gram Panchayat and the members in the Gram Sabha did not oppose the project, they remarked that the project should not endanger the lives of the local people. He expressed the opinion that it is mentioned in the report that Magva Lake is 1.5</p>	<p>Project Proponent confirmed that in the Google image the Usroli percolation tank is labelled as Magava Dam, therefore in the report the percolation tank is termed as Magava/Usroli lake. Project Proponent confirmed that they will not draw water from Magava / Usroli lake. Project Proponent is in the process of obtaining water lifting permission from Water Resources</p>	<p>The cost of coal shed and conveyor is considered in project cost. The cost of CO2 bottling unit is also considered in project cost.</p>

<p>k.m. away from the project site. It is clarified as per the suggestions of the villagers. He further informed that it is demand of the Usroli and Chilthan villagers that the water of Usroli lake should be lifted by the Project Proponent for the project, because Usroli, Kharvali, Chilthan and Khanav are water scarcity villages. Water is supplied by tanker there. He further questioned that the distance of Patalganga river in the report is written as 3.0 km. As far as they know, there is no Patalganga river at the distance of 3.0 k.m. He questioned that the report states that the water required for the project will be taken only with the permission of the Irrigation Department. He asked for information about the spent wash. He further asked the question that as 250 Ton coal will be used in the project, how it will be managed? If kept in the open, the coal particles will mix with the air as it moves. Inform the steps for the prevention. He asked that if CO2 will</p>	<p>Department (Irrigation Department), Government of Maharashtra and effective steps towards implementation of project will not be taken without obtaining water lifting permission from Water Resources Department, Government of Maharashtra.</p> <p>Coal Storage - Project Proponent confirmed that the coal will be stored in the closed coal shed and transferred through closed conveyor system to avoid its dispersion in open atmosphere.</p> <p>CO2 emissions - Project Proponent informed that CO2 bottling unit will be installed on site. The CO2 generated from the process will be scrubbed and bottled and provided to beverage manufacturers and industrial activities. CO2 will not be vented out to open atmosphere.</p>	
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<p>be bottled, then how are you going to manage it? He said that the Sarpanch of the village and the villagers do not oppose the development. But there should be no adverse effects on the health of the citizens of the area, respiratory problems, pollution. People will cooperate, but when there is trouble, they will oppose.</p>		
<p>Shri Sanket Krishna Sinkar, Residence - Khirkandi village, Tal - Khalapur, Dist - Raigad., demanded as per the point no. 3.4 of the report, the project management need experienced manpower. So how do you promise to employ local people? He objected to the company's name Bombay. If the local people are here are Marathi, then why the name Mumbai is not taken? He objected that on the issue of lack of experience, factory management will not give employment opportunities to the local people in the project. This is what has happened here before. If the skilled workers you need are not in the area, they will bring</p>	<p>Project Proponent confirmed that they will establish a training camp at least 6 to 7 months prior to initiating production activities to train local villagers for skill upliftment and generating employment capabilities as per the need of industry. Care should be taken to include local young boys and girls graduates in the project.</p>	<p>The cost has been considered in CER</p>

<p>from outside. At that time, some local participants demanded implementation of training scheme before giving job opportunities in the project.</p>		
<p>Shri Santosh Bailmare, Member, Savroli Group Gram Panchayat, Tal - Khalapur, Dist - Raigad, stated that nearly one thousand small and large industries are operating in the Gram Panchayat area. He suggested to implement training scheme before starting the project. He demanded that local people should be given job opportunities and for this letter should be sent to Gram Panchayat offices well in advance. He suggested local people to welcome the project. Due to the project, the Gram Panchayat will get the local tax, due to which fund will be available for development of infrastructure facilities. There will be increase in the indirect business activities. He said to local people not to oppose the project, oppose the pollution. He appealed Project Proponent to co-operate for the various</p>	<p>Local employment - Project Proponent confirmed that they will establish a training camp at least 6 to 7 months prior to initiating production activities to train local villagers for skill upliftment and generating employment capabilities as per the need of industry.</p> <p>Medical Facilities - Medical facility will be provided and same provision is made in CER</p>	<p>Project Proponent has earmarked Rs. 3.1491/- crores as CER funds. The funds will be utilized within span of 05 years. Details of the same have been provided in Annexure No. III.</p>

<p>developmental activities. But if the co-operation is not extended by the Factory Management, then the local will oppose the project. He suggested to spent few amounts from the CSR fund for the various educational schemes. There are no good medical facilities available in the villages. Hence well modern hospital should be built. He appealed that project officials should implement various social development schemes.</p>		
<p>Shri Siddhesh Sudharao Amre, Group Gram Panchayat, Nandanpada, Tal-Khalapur, Dist- Raigad, stated that although the Presentation was good, the company management is asked that what measures it would take to prevent spillage and leakage in the company? He question that the information is given of CO2 foaming, but not informed about water arrangement in case of fire.</p>	<p>Risk Management – Project Proponent informed that the plant will be PLC based having sensors of temperature, ozone, oxygen analyzer, pH analyzer etc. Also, as per PESO (Petroleum Explosive Safety Organization) directives, the storage area is provided with foaming system, Automated Fire Exhaustive System and CO2 Bottle, the combined system of these three is given. Additionally, 2500 cubic meter rainwater harvesting tank and basins of cooling towers will be</p>	<p>The cost of rainwater harvesting tank, firefighting and PLC system are considered in project cost.</p>

	connected to the fire prevention system and the entire system will be automated.	
<p>Shri Ashok Marajge, Wadwal, Tal – Khalapur, Dist – Raigad, He said that the Government has come to our doorstep for public awareness. Various companies have been welcomed in this taluka and help has been extended as much as possible. Some previous experiences are not good. The land of local people have been purchased by penny/very negligible amount for the company but nothing happens for many years.</p> <p>The young boys and girls from here have to go out for employment. The project must be implemented. But the long-term effects of starting a company should also be studied. The company should not cause adverse effects in the area. The project officials answered the questions well. However, if this project has any adverse effects, everyone will unite and will oppose the company. Due to this</p>	Local employment – PP confirmed that they will establish a training camp at least 6 to 7 months prior to initiating production activities to train local villagers for skill upliftment and generating employment capabilities as per the need of industry.	Project Proponent has earmarked Rs. 3.1491/- crores as CER funds. The funds will be utilized within span of 05 years. Details of the same have been provided in Annexure No. III.in EIA report.

<p>project, the local people will get job opportunities and Gram Panchayat will get the taxes. There will be increase in local business activities.</p> <p>He further suggested that Godrej, Tata first carried out the social welfare works in the area under CSR funding and then started the project. So, what is your policy in this regard? There is a lot of tribal community in this area. Similarly, the level of education among the local student is low. You should give permanent employment in the project to 10th failed, 12th failed youth.</p>		
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Action plan for written objections received during Public Hearing is provided below:

Issue raised	Action suggested / already implemented	Funds Allocated and Timeline
<p>Mahendra Sadashiv Thorave, Dehagaon Shetkari Sangarsh Samiti, Rohit Vichare, Rajesh Vichare and Supriya Mahadik mentioned in written that proposed project will lead to environmental and health related issues.</p>	<p>Medical facility will be provided and same provision has been made in CER.</p> <p>Project site does not fall under any notified eco sensitive zone. Details of reserve forest patches, distance from notified sanctuaries and their</p>	<p>Project Proponent has earmarked Rs. 3.1491/- crores as CER funds. The funds will be utilized within span of 05 years. Details of the same have been provided.</p> <p>EMP capital</p>

Issue raised	Action suggested / already implemented	Funds Allocated and Timeline
Air Pollution from the proposed project will cause human respiratory problems.	respective eco sensitive zone and distance from villages mentioned in draft western ghat notification is mentioned in Form 1 and EIA report.	investment of Rs. 30 crores with recurring investment of 3.5 crores have been earmarked.
Air Pollution will harm animals present in Eco-sensitive zone.	Online continuous emission monitoring system which will be connected to MPCB and CPCB servers will installed in proposed project.	
Effluent from the proposed project will led to environmental nuisance.		

Total land area required is 5.42278761 hectares. Greenbelt will be developed in total area of 1.802654 hectares i.e., 33.24 % of total project area. The estimated project cost is Rs. 209.94 Crores. Capital cost of EMP would be Rs. 30 Crores and recurring cost for EMP would be Rs.3.5 Crores per annum. Industry proposes to allocate Rs. 3.1491 Crores towards Extended EMP (Corporate Environment Responsibility). Total Employment will be 249 persons as direct & 150 to 200 persons indirect.

There are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km distance.

Ambient air quality monitoring was carried out at additional 3 locations during November 2022 and December 2022 for 15 days and the baseline data indicates the ranges of concentrations as: PM10 (44.50 to 52.10 µg/m³), PM2.5 (16.20 to 22.40 µg/m³), SO₂ (11.40 to 19.80 µg/m³) and NO₂ (22.80 to 29.70 µg/m³). AAQ modelling study for point and line source emissions indicates that the maximum incremental GLCs after the proposed project would be 0.04 µg/m³, 0.02 µg/m³, 0.05 µg/m³ and 0.05 µg/m³ with respect to PM10, PM2.5, SO₂ and NO_x. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

Total fresh water requirement will be 1415 CMD (4 KL / KL for alcohol production and 1.66 KL / KL for Power Generation, accordingly 1000 CMD for alcohol production and 415 CMD for Power Plant) which will be met from irrigation department. STP of capacity 40 KLPD will be installed to treat sewage generated from factory premises. The plant will be based on Zero Liquid discharge system and no effluent/treated water will be discharged outside factory premises.

Power requirement will be 4.8 MW and will be met from proposed 6 MW TG set connected to proposed 50 TPH boiler. 50 TPH multi fired boiler will be installed. APCE ESP with a stack of height of 60 m will be installed for controlling the particulate emissions within the statutory limit of 50 mg/Nm³ for the proposed boiler. 2*750 KVA DG set will be used as standby during power failure and stack height (6.5 m above roof level) will be provided as per CPCB norms to the proposed DG sets.

Details of Process emissions generation and its management:

Sr. No.	Stack Attached to	Type of Fuel	Minimum requirement of stack height	APC Equipment
1	1*50 TPH boiler	Coal	58.87*	ESP and stack of 60 meters height will be provided
		Rice Husk	46.84*	
2	2*750 kVA DG Set	HSD	6.5 m above roof level	Appropriate stack height with Acoustic enclosure

Details of solid waste/Hazardous waste generation and its management:

Sr. No.	Description of waste	Quantity (TPD)	Mode of Collection and Disposal
1	Boiler Ash (TPD)		
	Coal as fuel OR	24	Sold to brick manufacturers
	Rice husk as fuel	64	
2	CPU Sludge (TPA)	164	Disposed in composting
Other Solid Wastes			
Sr. No.	Description of waste	Quantity (Kg/M)	Mode of Collection and Disposal

1.	Paper waste	40	Manually collected and stored in a designated area and sold to scrap vendors
2.	Plastic waste	35	
3.	Municipal Solid waste		
	Non-Biodegradable	1120	Manually collected and sold to scrap vendors
	Bio-degradable	750	Used in Composting

Hazardous waste generation: No Hazardous waste will be generated from the proposed project.

Greenfield project, Total land of 5.42278761 Hectares is under possession of the company and land use conversion has been completed vide letter no. of Mutation certificate having Digital No. 272400040286900000120223120 dated 17/01/2022 land use conversion application has been submitted to Talathi, Usroli saza Khanaav, Taluka, Khalapur, District Raigad. EAC found the information satisfactory.

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 EIA/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.

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.

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.

The EAC, after detailed deliberations, **recommended** the project for grant of environmental clearance, subject to compliance of terms and conditions as under, and general terms of conditions at Annexure: -

- (i). 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.
- (ii). 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.
- (iii). NOC from the Concerned Irrigation Department shall be obtained before start of the construction of plant and drawing of the surface water for the project activities, State Pollution Control Board / Pollution Control Committees shall not issue the Consent to Operate (CTO) under Air (Prevention and Control of Pollution) Act and Water (Prevention and Control of Pollution) Act till the project proponent shall obtain such permission.

- (iv). Total Fresh water requirement shall not exceed 4 KL/KL of ethanol production i.e. 1000 m³/day, which will be met from irrigation department. No ground water recharge shall be permitted within the premises. Industry shall construct a rain water storage pond of 60 days capacity and the accumulated water to be used as fresh water thereby reducing fresh water consumption.
- (v). Spent wash shall be dried to form DDGS to be used as cattle feed. The condensate, spentlees and utilities effluent shall be treated in the ETP comprising tertiary treatment (Condensate Polishing Unit). Treated effluent will be recycled/reused for makeup water of cooling towers/process etc. and no waste or treated water shall be discharged outside the premises. STP shall be installed to treat the sewage generated from factory premises.
- (vi). Adequate numbers of ground water 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 Dissolve Solids shall be monitored and report submitted to the Ministry's Regional Office.
- (vii). Electrostatic precipitator (5 field & 99.9% efficiency) with a stack height of 60 meters will be installed with the proposed boilers of capacities 50 TPH Biomass/Rice Husk/Coal fired boiler for controlling the particulate emissions within the statutory limit of 30 mg/Nm³. SO₂ and NO_x emissions shall be less than 100 mg/Nm³. At no time, the emission levels shall exceed the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Performance assessment of pollution control devices/ systems will be conducted annually.
- (viii). Boiler ash (Coal 24 TPH & Rice husk 64 TPD) will be supplied to brick manufacturers. PP shall use biomass like rice husk/bagasse as fuel for the proposed boiler. Low sulphur coal with maximum sulphur content of 0.5% shall only be used. PP shall meet 10% of the total power

requirement from solar power by generating power inside plant premises/adjacent/nearby areas.

- (ix). CO₂ (186 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.
- (x). PP shall allocate at least Rs. 50 Lakhs/annum for Occupational Health Safety. Occupational Health Centre for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.
- (xi). 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.
- (xii). The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms. PESO certificate shall be obtained.
- (xiii). 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.
- (xiv). 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.
- (xv). The green belt of at least 5-10 m width shall be developed in 1.802654 hectares i.e., 33.24 % of the total project area with tree density @ 2500 trees per hectares, mainly along the plant periphery. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department and native species shall be developed.

Records of tree canopy shall be monitored through remote sensing map. Greenbelt development shall be completed before commissioning of the plant.

- (xvi). PP proposed to allocate Rs. 3.1491 Crores towards Extended EMP (CER) which shall be spent as submitted in CER plan for monitorable activities like up-gradation of schools with provision of facilities e.g. Class rooms, playground, Laboratory, Library, Computer class, toilets, potable drinking water facilities, solar light/solar power support for uninterrupted power supply, soil nutrient management etc. Further, all the proposed activities under CER shall be completed before the commissioning of the plant in consultation with District Administration.
- (xvii). 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. Out of the total project area, 15% shall be allotted solely for parking purposes with facilities like rest rooms etc.
- (xviii). 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 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.
- (xix). 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.

- (xx). 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.
- (xxi). 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 12th August, 2021. A report along with photographs on the measures taken shall also be included in the six-monthly compliance report being submitted to concerned authority.

Agenda No. 02

Proposed Expansion sugarcane crushing from 10,000 TCD to 15,000 TCD to augment the requirement of sugarcane syrup/juice as raw material during sugarcane crushing season for distillery for production of ethanol by expansion for distillery from 300 KLPD to 600 KLPD under EBP programme. Located at Survey Nos. 238 & 239 of Hipparagi Village, Jamakhandi Taluk, Bagalkot District, Karnataka by M/s Shri Sai Priya Sugars Ltd – Re-consideration of amendment of Environmental Clearance

[IA/KA/IND2/293084/2022, IA-J-11011/277/2010-IA-II(I)]

The proposal was earlier considered by the EAC (Ind-2) in its meeting ID-IA/IND2/13394/28/11/2022 held during 28th - 29th November, 2022 wherein EAC deferred the proposal and desired certain requisite information/inputs. After submission of ADS reply by Project Proponent, proposal was again considered in EAC meeting (Meeting ID: IA/IND2/13410/21/12/2022) held on 21st – 22nd December, 2022. Information desired by EAC and responses submitted by the project proponent along with remarks of EAC as discussed in meeting are as follows:

Sr. No	ADS by MoEF&C	Reply of PP
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1	PP shall submit Board resolution from both the Companies.	Board Resolution by M/s Shri Sai Priya Sugars Limited, have been submitted by PP. Board Resolution by M/s. TruAlt Bioenergy Limited (Unit-2), have been submitted by PP.
2	PP shall submit engineering drawing layout of the project.	Engineering drawing layout of the project – over all integrated layout and individually sugar, go-generation and distillery layout plan have been submitted by PP.
3	PP shall provide details of greenbelt in both the units after split of EC including clearly delineation of greenbelt in the layout map.	<p>Total Land Area under possession of the company is 166.9 Acre (integrated facility)</p> <ul style="list-style-type: none"> • The total green belt area of the integrated sugar and distillery plant is 58 acres as in EC. This green belt will not be reduced. The greenbelt in both the Sugar and Co-gen plant; and in Distillery minimum of 33 % will be maintained individually as well. • No. of Plantation to be planted @ 2500 plants / Hectare = 58675 no of plantation • Actual plantation done is 52213. There is a total deficit of 6462 plantation to be done <p>After Bifurcation:</p> <p>a) Sugar and co-gen unit occupies 148.36 Acres. Out of this the green belt is 51.89 acres accounting for 33 % of the total area of the sugar plant.</p> <ul style="list-style-type: none"> • No. of Plantation to be planted @ 2500plants / Hectare = 52,500 • Actual Plantation=48188 • Deficit 4312 no to be planted <p>b) Distillery unit occupies 18.54 Acres. Out of this the green belt is 6.11 acres accounting for 33 % of the</p>

		<p>total area of the Distillery plant</p> <ul style="list-style-type: none"> No. of Plantation to be planted is 2500plants / Hectare = 6175 Actual Plantation is 4025 Deficit is 2150 no to be planted <p>The Deficit in Plantation will be made up during the 2023 monsoon.</p>																																																												
4	Details of utilities after the Split.	<p>A. Details of the utilities after the transfer of Distillery and captive power to M/s. TruAlt Bio Energy Ltd.</p> <table border="1"> <thead> <tr> <th>Sl. No.</th> <th>Particulars</th> <th>Qty in Nos.</th> <th>Capacity/size</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Molasses storage tank</td> <td>1</td> <td>10000 MT</td> </tr> <tr> <td>2.</td> <td>Molasses storage tank</td> <td>1</td> <td>5000 MT</td> </tr> <tr> <td>3.</td> <td>Evaporators (Falling film)</td> <td>3</td> <td>HTA :750 m2, 12 m long tubes To Handle - 2400KLD</td> </tr> <tr> <td>4.</td> <td>R.S Daily Receiver</td> <td>3</td> <td>Each 132m³</td> </tr> <tr> <td>5.</td> <td>ENA Daily Receiver</td> <td>3</td> <td>Each 132m³</td> </tr> <tr> <td>6.</td> <td>Ethanol Daily Receiver</td> <td>3</td> <td>Each 132 m³</td> </tr> <tr> <td>7.</td> <td>TA Daily Receiver</td> <td>2</td> <td>15 m³</td> </tr> <tr> <td>8.</td> <td>T.A Bulk Storage</td> <td>1</td> <td>200 m³</td> </tr> <tr> <td>9.</td> <td>R.S Bulk Storage</td> <td>2</td> <td>Each 1500 m3</td> </tr> <tr> <td>10.</td> <td>ENA Bulk Storage</td> <td>2</td> <td>Each 1500 m3</td> </tr> <tr> <td>11.</td> <td>ETHANOL Bulk Storage</td> <td>2</td> <td>Each 1500 m3</td> </tr> <tr> <td>12.</td> <td>Evaporators (Forced Circulation)</td> <td>03</td> <td>730 m2x 6000m, long tubes</td> </tr> <tr> <td>13.</td> <td>Vapour Liquid seperator (Falling film)</td> <td>03</td> <td>Diameter: 1550 mm Height: 4450 mm</td> </tr> <tr> <td>14.</td> <td>Vapour Liquid seperator (Forced circulation)</td> <td>02</td> <td>Diameter: 3600 mm Height: 6850 mm</td> </tr> </tbody> </table>	Sl. No.	Particulars	Qty in Nos.	Capacity/size	1.	Molasses storage tank	1	10000 MT	2.	Molasses storage tank	1	5000 MT	3.	Evaporators (Falling film)	3	HTA :750 m2, 12 m long tubes To Handle - 2400KLD	4.	R.S Daily Receiver	3	Each 132m ³	5.	ENA Daily Receiver	3	Each 132m ³	6.	Ethanol Daily Receiver	3	Each 132 m ³	7.	TA Daily Receiver	2	15 m ³	8.	T.A Bulk Storage	1	200 m ³	9.	R.S Bulk Storage	2	Each 1500 m3	10.	ENA Bulk Storage	2	Each 1500 m3	11.	ETHANOL Bulk Storage	2	Each 1500 m3	12.	Evaporators (Forced Circulation)	03	730 m2x 6000m, long tubes	13.	Vapour Liquid seperator (Falling film)	03	Diameter: 1550 mm Height: 4450 mm	14.	Vapour Liquid seperator (Forced circulation)	02	Diameter: 3600 mm Height: 6850 mm
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		15.	Cooling Tower for Fermentation	02	1200 m3/hr
		16.	Cooling Tower for Distillation	4	1500 m3/hr
		17.	Cooling Tower for Evaporation Section	03	1000 m3/hr
		18.	Cooling Tower for Standalone MSDH Section	1	275 m3/hr
Incineration Boiler capacity – 60 TPH located in sugar and co-gen plant area. But, transferred to TruAlt Bioenergy Ltd.					
(i). Details of the utilities after the transfer of Distillery and captive power utilities left over with Sugar and co-generation plant of - Shri Sai Priya Sugars Ltd					
		Sl. No.	Particulars	Qty in Nos.	Capacity/size
MOLASSES SUPPLY TANKS					
		1.	Molasses tanks.	1	20 HL
		2.	AH molasses.	2	54 HL
		3.	AL molasses.	1	20 HL
		4.	BH molasses.	1	30 HL
		5.	CL molasses.	1	20 HL
		6.	Sugar Godowns	2	Size : 120 Mtr.LG X 48 Mtr.WD Capacity : 3,00,000 Qtls.
		7.	Molasses Storage Tanks	4	<ul style="list-style-type: none"> •Size : 20 Mtr. dia X 10.0 M height Capacity : 3141.593M3 (4500 MT) •Size : 21 Mtr. Dia X 9.75 M height Capacity : 3376.425M3 (4800 MT) •Size: 31 Mtr. Dia X

				10 Mtr height Capacity: 7547.676M3 (10000 MT) •Size: 31 Mtr. Dia X 10 Mtr height Capacity: 7547.676M3 (10000 MT)										
Sugar Plant - EFFLUENT TREATMENT PLANT (ETP) - 50 m3/hr														
CO-GENERATION														
1.	BOILER	2	60 TPH 160 TPH											
2.	Wet scrubber	1	Height: 8500 MM Dia:4800 MM											
3.	ESP	1												
4.	Chimney	2	Height -85 m Height - 75 m											
5.	Ash Handling system	1												
6.	Ash Screw compressor	2	10.76 kg/cm2											
7.	TURBINE	2	35 MW 16 MW											
5	Compliance of undertaking provided while obtaining ECs under Ethanol blended with Petrol (EBP) program.	<p>The ethanol produced in the plant is completely sold to oil companies. We are adhering to the affidavit produced while obtaining EC under EBP program</p> <p>Compliance of undertakings Provided while obtaining EC's under EBP Program</p> <p>I. EC vide letter no. F. No. J-11011/277/2010-IA II (I) ; Dated: 14.02.2015</p> <table border="1"> <thead> <tr> <th>SI.NO</th> <th>Particular</th> <th>Capacity</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>RS</td> <td rowspan="3">120 KLPD</td> </tr> <tr> <td>2</td> <td>ENA</td> </tr> <tr> <td>3</td> <td>Ethanol</td> </tr> </tbody> </table> <p>II. EC vide letter no. F. No. J-11011/277/2010-</p>			SI.NO	Particular	Capacity	1	RS	120 KLPD	2	ENA	3	Ethanol
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IAII(I); Dated: 23.11.2021

Plant capacity	Existing as per EC 2015	EC sought for proposed expansion		
	RS/ ENA/ethanol from C Heavy molasses	Ethanol from C Heavy molasses	Ethanol from B - Heavy molasses	Ethanol from Sugar cane syrup
120 KLD Existing (as per EC 2015)	120	120	120	-
80 KLD under installation (as per EC 2021)		180	180	300
300 KLD proposed		140	-	300
Production scenario after expansion	120	440	300	600
All units in KLD				

III. Date of consent for 600 KLPD: 16.11.2022

IV. Ethanol Produced from 300 KLPD Plant:

SI.no	Month, year	Quantity produced in KL	Dispatched quantity in KL	Balance in storage in KL	Remark (name of the oil company)
1	November 2021 To September 2022	30600	30041	559	HPCL, IOCL and BPCL
2	November, 2022	7289	3977	3871	HPCL,

		022 To 05-12-2022				IOCL and BPCL
		V. Storage capacity:13311.00 KL VI. PESO Licence: P/SC/KA/15/2904 (P431101) VALIDITY up to 31/12/2025				
6	Bifurcation of all the conditions stipulated in all EC granted to the industry.	Bifurcation of all the conditions stipulated in all EC has been Submitted by PP.				

EAC was satisfied with the response & presentation made by PP on additional details sought.

The proposal is for amendment in the Environmental Clearance granted by the Ministry vide letter no. J-11011/277/2010-IA II(I) dated :23/11/2021 for the project expansion sugarcane crushing from 10,000 TCD to 15,000 TCD to augment the requirement of sugarcane syrup/juice as raw material during sugarcane crushing season for distillery for production of ethanol by expansion for distillery from 300 KLPD to 600 KLPD under EBP programme. Located at Survey Nos. 238 & 239 of Hipparagi Village, Jamakhandi Taluk, Bagalkot District, Karnataka by M/s. Shri Sai Priya Sugars Ltd.

The project proponent has requested for amendment in the EC with the details are as under;

SI. No	Para	details of EC issued by MoEF&CC	to be revised/ read as
A	Amendment in EC to M/s. Shri Sai Priya Sugars Limited		
	1.	This has reference to your online proposal no. IA/KA/IND2/219708/2021, dated 14th July, 2021 for environmental clearance to the above	This has reference to online proposal No. IA/KA/IND2/293136/2022, for Amendment in Environmental Clearance Condition (EC Identification

		mentioned project.	No. EC21A022KA158864) the Distillery Environmental Clearance Condition are mentioned
2.	The Ministry of Environment, Forest and Climate Change has examined the Proposed expansion of sugarcane crushing capacity from 10000 TCD to 15000 TCD to augment the requirement of sugarcane syrup/juice as raw material during sugarcane crushing season and to expand the Distillery capacity from 300 KLPD to 600 KLPD for production of Ethanol and captive power plant from 5 MW to 8 MW under EBP programme by M/s. Shri Sai Priya Sugars Ltd., located at Survey Nos. 144, 145, 146, 147, 148, 149, 150 & 151 of Maigur Village and Survey Nos. 238 & 239 of Hipparagi Village, Jamakhandi Taluk, Bagalkot District, Karnataka.	The Ministry of Environment, Forest and Climate Change has examined the Proposed expansion of sugarcane crushing capacity from 10000 TCD to 15000 TCD to augment the requirement of sugarcane syrup/juice as raw material during sugarcane crushing season by M/s. Shri Sai Priya Sugars Ltd., located at Survey Nos. 144, 145, 146, 147, 148, 149, 150 & 151 of Maigur Village and Survey Nos. 238 & 239 of Hipparagi Village, Jamakhandi Taluk, Bagalkot District, Karnataka.	
3.	All Distillery and Sugar Projects are listed at Sl. No. 5(g) & 5(j) of Schedule of Environment Impact Assessment (EIA) Notification respectively under category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC). As per the MoEF&CC Notification S.O. 2339(E), dated 16th June, 2021, the proposal is to be appraised as B2 Category under EBP Programme	All Distillery and Sugar Projects are listed at Sl. No. 5(g) of Schedule of Environment Impact Assessment (EIA) Notification respectively under category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC). As per the MoEF&CC Notification S.O. 2339(E), dated 16th June, 2021,	
4.	Standard ToR and public Hearing conduction is not applicable as the project falls under category B2 as per OM dated 02nd March, 2021 & 16th June, 2021. It was informed that no litigation is pending against the project.	Standard ToR and public Hearing conduction is not applicable as the project falls under category B2 as per OM dated 02nd March, 2021 & 16th June, 2021. It was informed that no litigation is pending against the project	
5.	MoEF&CC had issued prior Environment Clearance vide letter no. J11011/277/2010-IA-II(I) dated 15th February 2015 to the sugar complex (sugar plant 5,000 TCD; Co-generation plant, 30 MW; molasses-based Distillery plant 120 KLPD. Further SEIAA Karnataka, had issued EC earlier	MoEF&CC had issued prior Environment Clearance vide letter no. J-1011/277/2010-IA-II(I) dated 15th February 2015 to the sugar complex (sugar plant 5,000 TCD; Co-generation plant, 30 MW;. Further SEIAA Karnataka, had issued EC earlier vide No. SEIAA:6:IND:2015 dated	

	<p>vide No. SEIAA:6:IND:2015 dated 19.10.2015 to the existing project Sugar Plant 10000 TCD, Cogeneration plant 65 MW, Captive power generation 5 MW and MoEF & CC had issued prior Environment Clearance vide letter no. J-11011/277/2010-IAII(I) dated 4th February 2021 to the existing Distillery unit for increasing the capacity of ethanol production from 120 KLPD to 300 KLPD capacity and captive power plant from 5 MW to 8 MW capacity.</p>	<p>19.10.2015 to the existing project Sugar Plant 10000 TCD, Cogeneration plant 65 MW, Captive power generation 5 MW and MoEF & CC had issued prior Environment Clearance vide letter no. J-11011/277/2010-IAII(I) dated 4th February 2021</p>																																																								
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Note: Any one of the raw material is used at a time.							
7.	Existing land area of Sugar, Cogeneration & Distillery complex is 6,75,400 m ² out of which 75,100 m ² is of distillery plant area and 6,00,300 m ² is Sugar Cogeneration plant area. Proposed expansion will be within the existing premises. Industry has already developed greenbelt in an area of 34.8 % i.e., 234800 m ² out of total area of the project. The existing project cost is Rs.785.27 Crores. Proposed additional investment is Rs.266.55 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 37.01 Crores and the Recurring cost (operation and maintenance) will be about Rs. 2.53 Crores per annum. Total Employment will be 978 persons, out of this the direct employment is 493 persons & Indirect is 485 persons after expansion. Industry proposes to allocate Rs.1.1 Crores towards Corporate Environment Responsibility.	Existing land area of Sugar, Cogeneration & Distillery complex is 6,75,400 m ² out of which 6,00,300 m ² is Sugar Cogeneration plant area. Proposed expansion will be within the existing premises. Industry has already developed greenbelt in an area of 34.8 % i.e., 234800 m ² out of total area of the project. The existing project cost is Rs.550 Crores. Proposed additional investment is Rs.85.10 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 37.01 Crores and the Recurring cost (operation and maintenance) will be about Rs. 2.53 Crores per annum. Total Employment will be 734 persons, out of this the direct employment is 325 persons & Indirect is 235 persons after expansion.					
8.	There are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km distance from the project site. River Krishna is flowing at a distance of 3.6 km in NE of the industry	There are no national parks, wild life sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wild life Corridors etc. within 10 km distance from the project site. River Malaprabha is flowing at a distance of 6 km in South direction.					
9.	Baseline ambient air quality monitoring is not carried out since the project is to be appraised as B2 category as per the	Baseline ambient air quality monitoring is not carried out since the project is to be appraised as B2 category as per the					

		Notification of MoEF&CC S.O. 2339(E), dated 16.06.2021. However, ambient air quality monitoring is carried out by the industry as per the conditions of the Consent issued by KSPCB. The monitoring data during February 2021 indicate PM10 82.9 µg/m ³ , PM2.5 34.15 µg/m ³ , SO ₂ 7.52 µg/m ³ and NO _x 15.26 µg/m ³ .	Notification of MoEF&CC S.O. 2339(E), dated 16.06.2021. However, ambient air quality monitoring is carried out by the industry as per the conditions of the Consent issued by KSPCB. The monitoring data during February 2021 indicate PM10 82.9 µg/m ³ , PM2.5 34.15 µg/m ³ , SO ₂ 7.52 µg/m ³ and NO _x 15.26 µg/m ³ .																																														
10	<p>Total water requirement is as under;</p> <p>Fresh water requirement for Sugar & co-gen plant is 1065 KLD. The condensate water generated from sugar plant is treated and reused for sugar plant requirement and cooling tower</p> <p>Distillery water requirement is as in the table below;</p> <table border="1"> <thead> <tr> <th rowspan="2">S I. N O</th> <th rowspan="2">Partic ulars</th> <th rowspan="2">Exist ing (KLD)</th> <th colspan="4">Proposed scenario after expansion (KLD)</th> </tr> <tr> <th>C Hea vy mola sses</th> <th>C Hea vy mola sses</th> <th>B Hea vy mola sses</th> <th>C Hea vy mola sses</th> <th>Ca ne sy ru p 0</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Feed stock (any one of the raw materi als will be used at a given time)</td> <td>120 for RS/E NA</td> <td>120 for RS/E NA</td> <td>300</td> <td>440</td> <td>60</td> </tr> <tr> <td></td> <td>Fresh water for proces s</td> <td>505</td> <td>505</td> <td>917</td> <td>972</td> <td>12 90</td> </tr> <tr> <td></td> <td>Fresh water for boiler</td> <td>545</td> <td>545</td> <td>545</td> <td>620</td> <td>62 0</td> </tr> <tr> <td></td> <td>Coolin g tower make up</td> <td>-</td> <td>-</td> <td>-</td> <td>645</td> <td>-</td> </tr> <tr> <td></td> <td>Dome stic water</td> <td>16</td> <td>20</td> <td>20</td> <td>20</td> <td>20</td> </tr> </tbody> </table>	S I. N O	Partic ulars	Exist ing (KLD)	Proposed scenario after expansion (KLD)				C Hea vy mola sses	C Hea vy mola sses	B Hea vy mola sses	C Hea vy mola sses	Ca ne sy ru p 0	1	Feed stock (any one of the raw materi als will be used at a given time)	120 for RS/E NA	120 for RS/E NA	300	440	60		Fresh water for proces s	505	505	917	972	12 90		Fresh water for boiler	545	545	545	620	62 0		Coolin g tower make up	-	-	-	645	-		Dome stic water	16	20	20	20	20	<p>Total water requirement is as under</p> <p>Fresh water requirement for Sugar & co-gen plant is 1065 KLD. The condensate water generated from sugar plant is treated and reused for sugar plant requirement and cooling tower.</p> <p>Fresh water will be met from Krishna River located at about 3.6 km in North East direction from project site. (Permission to draw 4.5 MLD (4500 KLD) is issued by Krishna Bhagya Jala Nigama Niyamita, G.O.K)</p> <p>Effluent from the sugar plant process is 981.51 KLD it is treated in ETP of 1000 KLD Capacity. The sugar plant condensate 2397.25 KLD is treated in CPU of capacity 2400 KLD and partly used for cooling tower make up and partly for the process. The excess condensate of 303.25 KLD is mixed with treated sugar plant effluent and used on land for irrigation.</p>
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	requirement					
	Total Fresh water quantity	1066	1066	1482	2257	1930
2	Reuse from distillery CPU	1197	1197	2148	3230	3030
3	Total water requirement	2263	2267	3630	5487	4960

Fresh water will be met from Krishna River located at about 3.6 km in North East direction from project site. (Permission to draw 4.5 MLD (4500 KLD) is issued by Krishna Bhagya Jala Nigama Niyamita, G.O.K) A. Effluent from the sugar plant process is 981.51 KLD it is treated in ETP of 1000 KLD Capacity. The sugar plant condensate 2397.25 KLD is treated in CPU of capacity 2400 KLD and partly used for cooling tower make up and partly for the process. The excess condensate of 303.25 KLD is mixed with treated sugar plant effluent and used on land for irrigation

B. Wastewater generated from the distillery is as in the table below

S I. N O	Partic ulars	Exist ing (KL D)				
		C Hea vy mola sses 120 for RS/E NA	C Hea vy mola sses 120 for RS/E NA	B Hea vy mola sses 300	C Hea vy mola sses 440	Ca ne sy ru p 60 0
1	Raw spent wash	960	960	188 5	264 0	33 00

2	Concentrated spent wash	240	240	411	448	150
3	Spent lees	300	300	360	688	720
4	Total Condensate	720	720	1474	2192	1850
5	Boiler blowdown	10	10	10	20	20
6	Cooling tower bleed	127	127	254	270	380

The spent wash from the distillery with respect to per KL of alcohol produced is as in the table below;

SINO	Description	Raw spent wash generation		Conc. Spent wash	
		KLD	KL/KL ethanol	KLD	KL/KL ethanol
1	120 KLPD using C Heavy Molasses	960	8	240	2
2	300 KLPD using B Heavy Molasse	1885	6.28	411	1.37
3	440 KLPD using C Heavy molasses	2640	6	448	1.01
4	600 KLPD using sugarcan e syrup	3300	5.5	150	0.25

Mode of treatment of distillery spent wash, spent lees & other utility effluents are as under:

- The spent wash concentrated in MEE and the concentrate will be incinerated.
- The MEE condensate, spent lees, R.O. rejects, cooling tower bleed, lab washings is treated in

		<p>3 stage R.O and CPU of 1500 KLD Capacity and reused in cooling tower makeup and process for molasses dilution.</p> <ul style="list-style-type: none"> The distillery plant effluent management will be based on Zero Liquid discharge system. <p>Domestic sewage of 14.6 KLD from sugar plant and 16 KLD from Distillery plant is treated in septic tank and soak pit.</p>																																			
11	<p>Power requirement after expansion will be 43.28 MW including existing sugar cogeneration plant and Distillery power requirement and will be met from sugar Cogeneration plant of 65 MW and for distillery plant from distillery captive power plant of 8 MW capacity. Existing unit has 2 D.G sets of 1x1250 kVA & 1X625 kVA capacities is provided with stack height of 30m & 8m AGL respectively as per consent conditions. Existing unit has boilers as under;</p> <table border="1"> <thead> <tr> <th>Existing Air pollution Sources</th> <th>Proposed Air Pollution sources after expansion</th> <th>Fuel</th> <th>Emission Std prescribed byKSPCB particulate matter mg/Nm³</th> <th>APC equipment and stack height inm</th> </tr> </thead> <tbody> <tr> <td>150 TPH (sugar plant)</td> <td>160 TPH Sugar plant + partially Distillery)</td> <td>Bagasse</td> <td>150</td> <td>ESP and chimney of height – 85 m AGL</td> </tr> <tr> <td>2X50 TPH Boiler (Sugar Plant)</td> <td>2x65 TPH Boiler (Sugar plant)</td> <td>Bagasse</td> <td>150</td> <td>ESP and Wet scrubber and chimney of height – 70 m AGL</td> </tr> </tbody> </table>	Existing Air pollution Sources	Proposed Air Pollution sources after expansion	Fuel	Emission Std prescribed byKSPCB particulate matter mg/Nm ³	APC equipment and stack height inm	150 TPH (sugar plant)	160 TPH Sugar plant + partially Distillery)	Bagasse	150	ESP and chimney of height – 85 m AGL	2X50 TPH Boiler (Sugar Plant)	2x65 TPH Boiler (Sugar plant)	Bagasse	150	ESP and Wet scrubber and chimney of height – 70 m AGL	<p>Power requirement after expansion will be 43.28 MW including existing sugar cogeneration plant and Distillery power requirement and will be met from sugar Cogeneration plant of 65 MW. Existing unit has 2 D.G sets of 1x1250 kVA & 1X625 kVA capacities is provided with stack height of 30m & 8m AGL respectively as per consent conditions. Existing unit has boilers as under;</p> <table border="1"> <thead> <tr> <th>Existing Air pollution Sources</th> <th>Proposed Air Pollution sources after expansion</th> <th>Fuel</th> <th>Emission Std prescribed byKSPCB particulate matter mg/Nm³</th> <th>APC equipment and stack height inm</th> </tr> </thead> <tbody> <tr> <td>150 TPH (sugar plant)</td> <td>160 TPH Sugar plant + partially Distillery)</td> <td>Bagasse</td> <td>150</td> <td>ESP and chimney of height – 85 m AGL</td> </tr> <tr> <td>2X50 TPH Boiler (Sugar Plant)</td> <td>2x65 TPH Boiler (Sugar plant)</td> <td>Bagasse</td> <td>150</td> <td>ESP and Wet scrubber and chimney of height – 70 m AGL</td> </tr> <tr> <td>1250 kVA DG set</td> <td>-</td> <td>HSD</td> <td>CO 150 NO_x710ppm VPM 75</td> <td>Acoustic enclosure & 30 m AGL (Each)</td> </tr> </tbody> </table>	Existing Air pollution Sources	Proposed Air Pollution sources after expansion	Fuel	Emission Std prescribed byKSPCB particulate matter mg/Nm ³	APC equipment and stack height inm	150 TPH (sugar plant)	160 TPH Sugar plant + partially Distillery)	Bagasse	150	ESP and chimney of height – 85 m AGL	2X50 TPH Boiler (Sugar Plant)	2x65 TPH Boiler (Sugar plant)	Bagasse	150	ESP and Wet scrubber and chimney of height – 70 m AGL	1250 kVA DG set	-	HSD	CO 150 NO _x 710ppm VPM 75	Acoustic enclosure & 30 m AGL (Each)
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		1250 kVA DG set	-	HSD	CO 150 NO _x 710pp mvPM 75	Acoustic enclosure & 30 m AGL (Each)		625 kVA	-	HSD	-	Stack of height 8 m above roof and acoustics	
		625 kVA	-	HSD	-	Stack of height 8 m above roof and acoustics.							
		52 TPH incineration boiler (distillery Plant)	60 TPH incineration boiler (distillery Plant)	Bagasse + Conc. Spent Wash	150	ESP and chimney of height - 85 m AGL							
	12	Details of process emissions generation and its management: During fermentation 577 KLPD of CO ₂ is estimated to be released. CO ₂ will be scrubbed and bottled in CO ₂ plant present in project premises.					Details of process emissions generation and its management: nil						
	13	Details of Solid waste/Hazardous waste generation and its management: Solid waste and its management					Details of Solid waste/Hazardous waste generation and its management: Solid waste and its management						
		Sl. No.	Type of solid waste	Quantity generated after expansion MT/month	Disposal			Sl. No.	Type of solid waste	Quantity generated after expansion MT/month	Disposal		
		Sugar Plant and Co-gen plant					Sugar Plant and Co-gen plant						
		1.	Bagasse	135000	Used as boilers fuel			1.	Bagasse	135000	Used as boilers fuel		
		2.	Boiler Ash	1110	Sold to brick manufacturers / given to farmers to use it as soil conditioner			2.	Boiler Ash	1110	Sold to brick manufacturers / given to farmers to use it as soil conditioner		
		3.	Press mud	12000	Used to generated biogas			3.	Press mud	12000	Used to generated biogas		
		4.	Sludge ETP	2	Used as manure for gardening			4.	Sludge ETP	2	Used as manure for gardening		
		5.	Lime grit	18	Used for land filling in low laying areas.			5.	Lime grit	18	Used for land filling in low laying areas.		
		Distillery Plant					Hazardous waste generation and its management						
		1.	Yeast Sludge	450	Sold to farmers to produce								

			manure		
	2.	Fly Ash	3220	Sold to brick manufacturers / given to farmers to use it as soil conditioner	
	3.	Bottom Ash	317		
Hazardous waste generation and its management:					
		Waste category	Hazardous waste generated	Quantity	Method of handling
	5.1	Used Oil	0.125 KL/A	Used oil is reused for lubrication purpose for factory machineries during the season	
	5.2	Oil-soaked cotton waste	0.050 MT/A	Oil-soaked cotton waste is burnt in boilers.	
	5.2	Oil filters	05 Nos		
14	.	Joint Director of MoEF&CC, Regional Office, Bangalore has visited the project site on 04.11.2020. Bangalore RO, MoEF&CC has issued certified compliance report for the project vide File No. EP/12.1/2014-15/14/Kar/589 dated 16.11.2020. Status of compliance is 'Satisfactory'			Joint Director of MoEF&CC, Regional Office, Bangalore has visited the project site on 04.11.2020. Bangalore RO, MoEF&CC has issued certified compliance report for the project vide File No. EP/12.1/2014-15/14/Kar/589 dated 16.11.2020. Status of compliance is 'Satisfactory'.
15	.	As per OM dated 16th June, 2021, PP has submitted self-certification in the form of affidavit declaring that the proposed from 300 KLPD to 600 KLPD will be for manufacturing of fuel ethanol only			As per OM dated 16 th June, 2021, PP has submitted self-certification in the form of affidavit declaring that the proposed from 300 KLPD to 600 KLPD will be for manufacturing of fuel ethanol only.
16	.	During the deliberations, it was informed to the EAC that PP has approached Ministry for expansion from 300 KLD to 600 KLD without achieving production capacity of 300 KLD granted in the previous EC dated 04.02.2021. In this regard PP has informed that industry has not yet initiated the			

		expansion from 120 KLD to 300 KLD and the distillery is operating with the production capacity of 120 KLD, CCR has been submitted for the same. Subsequently, EAC mentioned that considering the importance of EBP programme, the proposal may be recommended and Ministry may take a decision whether expansion may be granted without achieving previous EC production capacity. Further, it was noted in CCR dated 16.11.2020 that PP has yet to spend Rs. 34.45 crores earmarked for Corporate Environmental Responsibility. PP has agreed to appropriate the unspent amount within 5 years.	
	17	The proposal was considered by the EAC in its 39th meeting held on 17th - 18th August, 2021 in the Ministry, wherein the project proponent and their consultant M/s. Samrakshan, presented the case under B2 category. The Committee recommended the project for grant of environmental clearance	The proposal was considered by the EAC in its 39th meeting held on 17th - 18th August, 2021 in the Ministry, wherein the project proponent and their consultant M/s. Samrakshan, presented the case under B2 category. 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, 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	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.	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	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.	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), Ministry of Environment, Forest and Climate Change hereby accords environmental clearance to the project for Proposed expansion of sugarcane crushing capacity from 10000 TCD to	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 for project proposed integrated expansion of the Distillery capacity from 300 KLPD to

	<p>15000 TCD to augment the requirement of sugarcane syrup/juice as raw material during sugarcane crushing season and to expand the Distillery capacity from 300 KLPD to 600 KLPD for production of Ethanol and captive power plant from 5 MW to 8 MW under EBP programme by M/s. Shri Sai Priya Sugars Ltd., located at Survey Nos. 144, 145, 146, 147, 148, 149, 150 & 151 of Maigur Village and Survey Nos. 238 & 239 of Hipparagi Village, Jamakhandi Taluk, Bagalkot District, Karnataka, under the provisions of the EIA Notification, 2006, and the amendments therein, subject to compliance of the terms and conditions as under:</p> <p>A. Specific Condition:</p> <p>(i) As per OM dated 16th June, 2021, project falls in category B2 and the proposed capacity from 300 KLPD to 600 KLPD shall be only be used for fuel ethanol manufacturing as per self-certification in form of an 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 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.</p> <p>(ii) The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the</p>	<p>600 KLPD for production of Ethanol and captive power plant from 5 MW to 8 MW under EBP programme by, TruAlt Bioenergy Limited (Unit -2) under the provisions of the EIA Notification, 2006, and the amendments therein, subject to compliance of the terms and conditions as under:-</p> <p>A. Specific condition:</p> <p>(i) As per OM dated 16th June, 2021, project falls in category B2 and the proposed capacity from 300 KLPD to 600 KLPD shall be only be used for fuel ethanol manufacturing as per self-certification in form of an 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 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.</p> <p>(ii) The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.</p> <p>(iii) The project proponent will treat and reuse the treated water within the integrated industry and no waste or treated water shall be discharged outside the</p>
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	<p>EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.</p> <p>(iii) The project proponent will treat and reuse the treated water within the factory and no waste or treated water shall be discharged outside the premises.</p> <p>(iv) Fresh water requirement for Sugar & co-gen plant is 1065 KLD. Proposed fresh water requirement for C Heavy molasses (120 for RS/ENA) is 1066 KLPD, B Heavy molasses (300 KLPD) is 1482, C Heavy molasses (440 KLPD) is 2257 KLPD and Cane syrup (600 KLPD) is 1930 KLPD and will be met from Krishna River. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard, and renewed from time to time. No ground water recharge shall be permitted within the premises.</p> <p>(v) The spent wash/other concentrates shall be treated by concentration followed by incineration</p> <p>(vi) CO₂ generated from the process shall be bottled/made solid ice and utilized/sold to authorized vendors.</p> <p>(vii) 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</p>	<p>premises.</p> <p>(iv) Fresh water requirement for Sugar & co-gen plant is 1065 KLD and will be met from Krishna River. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard, and renewed from time to time. No ground water recharge shall be permitted within the premises.</p> <p>(v) 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.</p> <p>(vi) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees.</p> <p>(vii) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms.</p> <p>(viii) Process organic residue and spent carbon, if any, shall be sent to Cement other suitable industries for its incinerations. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF.</p> <p>(ix) The company shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste;</p>
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	<p>(viii) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees</p> <p>(ix) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms</p> <p>(x) Process organic residue and spent carbon, if any, shall be sent to Cement other suitable industries for its incinerations. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF.</p> <p>(xi) 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.</p> <p>(xii) The green belt of at least 5-10 m width shall be developed in nearly 33% of the total project area, mainly along the plant periphery. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department. Records of tree canopy shall be monitored through remote</p>	<p>(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.</p> <p>(x) The green belt of at least 5-10 m width shall be developed in nearly 33% of the total project area, mainly along the plant periphery. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department. Records of tree canopy shall be monitored through remote sensing map.</p> <p>(xi) As per the Ministry's OM dated 30.09.2020 superseding the OM dated 01.05.2018 regarding the Corporate Environmental Responsibility, and as per the action plan proposed by the project proponent to address the socio-economic and environmental issues in the study area, the project proponent, as committed, shall provide education funds in technical training centers/ support in nearby village's schools, support in health care facilities, drinking water supply and funds for miscellaneous activities like solar street lights, battery, solar panel etc., in the nearby villages. The action plan shall be completed within time as proposed.</p> <p>(xii) There shall be adequate space</p>
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	<p>sensing map.</p> <p>(xiii) As per the Ministry's OM dated 30.09.2020 superseding the OM dated 01.05.2018 regarding the Corporate Environmental Responsibility, and as per the action plan proposed by the project proponent to address the socioeconomic and environmental issues in the study area, the project proponent, as committed, shall provide education funds in technical training centers/ support in nearby village's schools, support in health care facilities, drinking water supply and funds for miscellaneous activities like solar street lights, battery, solar panel etc., in the nearby villages. The action plan shall be completed within time as proposed. In addition to the existing CER proposed, PP shall also spend Rs. 34.45 crore which was earlier earmarked for CER but remained unspent.</p> <p>(xiv) There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products as per CPCB norms and no parking to be allowed outside on public places.</p> <p>(xv) Storage of raw materials shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions</p> <p>(xvi) Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and</p>	<p>inside the plant premises earmarked for parking of vehicles for raw materials and finished products as per CPCB norms and no parking to be allowed outside on public places.</p> <p>(xiii) Storage of raw materials shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.</p> <p>(xiv) Continuous online (24x7) monitoring system for stack emissions 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.</p> <p>(xv) 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.</p> <p>B. General condition:</p> <p>(i) No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA, as applicable. In case of deviations</p>
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	<p>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.</p> <p>(xvii) 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.</p> <p>B. General Condition:</p> <p>(i) No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA, as applicable. In case of deviations or alterations in the project proposal from those submitted to 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.</p> <p>(ii) The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.</p> <p>(iii) The overall noise levels in and around the plant area shall be</p>	<p>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.</p> <p>(ii) The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.</p> <p>(iii) The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic 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).</p> <p>(iv) 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.</p> <p>(v) The company shall earmark sufficient funds towards capital</p>
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	<p>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).</p> <p>(iv) 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.</p> <p>(v) The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose</p> <p>(vi) A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation,</p>	<p>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.</p> <p>(vi) 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.</p> <p>(vii) 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.</p> <p>(viii) 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</p>
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	<p>Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.</p> <p>(vii) 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 email) 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.</p> <p>(viii) 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.</p> <p>(ix) 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</p>	<p>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.</p> <p>(ix) 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.</p> <p>(x) 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.</p> <p>(xi) 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.</p>
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		<p>shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.</p> <p>(x) 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.</p> <p>(xi) 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.</p>	
	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.	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 Environment (Protection) Act, 1986.	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 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	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.	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.	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.
A Amendment in EC to Trualt bioenergy Ltd.			
	1.	This has reference to your online proposal no. IA/KA/IND2/219708/2021, dated 14th July, 2021 for environmental clearance to the above mentioned project.	This has reference to online proposal No. IA/KA/IND2/293084/2022, for Amendment in Environmental Clearance Condition for the Distillery Environmental Clearance Condition are mentioned.
	2.	The Ministry of Environment, Forest and Climate Change has examined the Proposed expansion of sugarcane crushing capacity from 10000 TCD to 15000 TCD to augment the requirement of sugarcane syrup/juice as raw material during sugarcane crushing season and to expand the Distillery capacity from 300 KLPD to 600 KLPD for production of Ethanol and captive power plant from 5 MW to 8 MW under EBP programme by M/s. Shri Sai Priya Sugars Ltd., located at Survey Nos. 144, 145, 146, 147, 148, 149, 150 & 151 of Maigur Village and Survey Nos. 238 & 239 of Hipparagi Village, Jamakhandi Taluk, Bagalkot District, Karnataka.	The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the proposed integrated expansion of Distillery unit from 300 KLPD to 600 KLPD for production of Ethanol and captive power plant from 5 MW to 8 MW under EBP programme at Bagalkot, Karnataka by TruAlt Bioenergy Limited (Unit -2)
	3.	All Distillery and Sugar Projects are listed at Sl. No. 5(g) & 5(j) of Schedule of Environment Impact Assessment (EIA) Notification respectively under category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC). As per the MoEF&CC	All Distillery and Sugar Projects are listed at Sl. No. 5(g) & 5(j) of Schedule of Environment Impact Assessment (EIA) Notification respectively under category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC). As per the MoEF&CC

		Notification S.O. 2339(E), dated 16th June, 2021, the proposal is to be appraised as B2 Category under EBP Programme	Notification S.O. 2339(E), dated 16th June, 2021, the proposal is to be appraised as B2 Category under EBP Programme.																																	
4.		Standard ToR and public Hearing conduction is not applicable as the project falls under category B2 as per OM dated 02nd March, 2021 & 16th June, 2021. It was informed that no litigation is pending against the project.	Standard ToR and public Hearing conduction is not applicable as the project falls under category B2 as per OM dated 02nd March, 2021 & 16th June, 2021. It was informed that no litigation is pending against the project.																																	
5.		MoEF&CC had issued prior Environment Clearance vide letter no. J11011/277/2010-IA-II(I) dated 15th February 2015 to the sugar complex (sugar plant 5,000 TCD; Co-generation plant, 30 MW; molasses-based Distillery plant 120 KLPD. Further SEIAA Karnataka, had issued EC earlier vide No. SEIAA:6:IND:2015 dated 19.10.2015 to the existing project Sugar Plant 10000 TCD, Cogeneration plant 65 MW, Captive power generation 5 MW and MoEF & CC had issued prior Environment Clearance vide letter no. J-11011/277/2010-IAII(I) dated 4th February 2021 to the existing Distillery unit for increasing the capacity of ethanol production from 120 KLPD to 300 KLPD capacity and captive power plant from 5 MW to 8 MW capacity.	MoEF&CC had issued prior Environment Clearance vide letter no. J-1011/277/2010-IA-II(I) dated 15th February 2015 to the sugar complex (sugar plant 5,000 TCD; Co-generation plant, 30 MW; molasses-based Distillery plant 120 KLPD. Further SEIAA Karnataka, had issued EC earlier vide No. SEIAA:6:IND:2015 dated 19.10.2015 to the existing project Sugar Plant 10000 TCD, Cogeneration plant 65 MW, Captive power generation 5 MW and MoEF & CC had issued prior Environment Clearance vide letter no. J-11011/277/2010-IAII(I) dated 4th February 2021 to the existing Distillery unit for increasing the capacity of ethanol production from 120 KLPD to 300 KLPD capacity and captive power plant from 5 MW to 8 MW capacity																																	
6.		<p>The details of products and capacity are as under:</p> <table border="1"> <thead> <tr> <th rowspan="2">Sl. No.</th> <th rowspan="2">Product details</th> <th colspan="2">Configuration as per</th> <th rowspan="2">Proposed expansion</th> <th rowspan="2">Total quantity</th> </tr> <tr> <th>2015</th> <th>2021</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Sugarcane crushing unit TCD</td> <td>10000</td> <td>-</td> <td>5000</td> <td>15000</td> </tr> <tr> <td></td> <td>Cogeneration unit MW</td> <td>65</td> <td>-</td> <td>-</td> <td>65</td> </tr> </tbody> </table> <p>Distillery Expansion</p>	Sl. No.	Product details	Configuration as per		Proposed expansion	Total quantity	2015	2021	1.	Sugarcane crushing unit TCD	10000	-	5000	15000		Cogeneration unit MW	65	-	-	65	<p>The details of products and capacity are as under: -</p> <table border="1"> <thead> <tr> <th rowspan="2">Plant capacity</th> <th rowspan="2">Existing as per EC 2015</th> <th colspan="3">EC sought for proposed expansion</th> </tr> <tr> <th>RS/ENA/ethanol from CHeavy molasses</th> <th>Ethanol from B - Heavy molasses</th> <th>Ethanol from Sugarcane syrup</th> </tr> </thead> <tbody> <tr> <td>120 KLD Existing (as per EC 2015)</td> <td>120</td> <td>120</td> <td>120</td> <td>-</td> </tr> </tbody> </table>	Plant capacity	Existing as per EC 2015	EC sought for proposed expansion			RS/ENA/ethanol from CHeavy molasses	Ethanol from B - Heavy molasses	Ethanol from Sugarcane syrup	120 KLD Existing (as per EC 2015)	120	120	120	-
Sl. No.	Product details	Configuration as per			Proposed expansion	Total quantity																														
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Plant capacity	Existing as per EC 2015	EC sought for proposed expansion			80 KLD under installation (as per EC 2021)	180	180	300	
	RS/ENA/ethanol from C Heavy molasses	Ethanol from C Heavy molasses	Ethanol from B - Heavy molasses	Ethanol from Sugarcane syrup					
120 KLD Existing (as per EC 2015)	120	120	120	-	300 KLD proposed	140	-	300	
80 KLD under installation (as per EC 2021)		180	180	300	Product ion scenario after expansion	120	440	300	600
300 KLD proposed		140	-	300	All units in KLD				
Product ion scenario after expansion	120	440	300	600	Note: Any one of the raw material is used at a time.				
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7.	Existing land area of Sugar, Cogeneration & Distillery complex is 6,75,400 m ² out of which 75,100 m ² is of distillery plant area and 6,00,300 m ² is Sugar Cogeneration plant area. Proposed expansion will be within the existing premises. Industry has already developed greenbelt in an area of 34.8 % i.e., 234800 m ² out of total area of the project. The existing project cost is Rs.785.27 Crores. Proposed additional investment is Rs.266.55 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 37.01 Crores and the Recurring cost (operation and				Existing land area of Sugar, Cogeneration & Distillery complex is 6,75,400 m ² out of which 75,100 m ² is of distillery plant area. Proposed expansion will be within the existing premises. Industry has already developed greenbelt in an area of 34.8 % i.e., 234800 m ² out of total area of the project. The existing project cost is Rs.234.27 Crores. Proposed additional investment is Rs.182.45 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 37.01 Crores and the Recurring cost (operation and maintenance) will be about Rs. 2.53				

		<p>maintenance) will be about Rs. 2.53 Crores per annum. Total Employment will be 978 persons, out of this the direct employment is 493 persons & Indirect is 485 persons after expansion. Industry proposes to allocate Rs.1.1 Crores towards Corporate Environment Responsibility.</p>	<p>Crores per annum. Total Employment will be 233 persons, out of this the direct employment is 120 persons & Indirect is 45 persons after expansion.</p>																																								
8.	<p>There are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km distance from the project site. River Krishna is flowing at a distance of 3.6 km in NE of the industry</p>	<p>There are no national parks, wild life sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wild life Corridors etc. within 10 km distance from the project site. River Malaprabha is flowing at a distance of 6 km in South direction.</p>																																									
9.	<p>Baseline ambient air quality monitoring is not carried out since the project is to be appraised as B2 category as per the Notification of MoEF&CC S.O. 2339(E), dated 16.06.2021. However, ambient air quality monitoring is carried out by the industry as per the conditions of the Consent issued by KSPCB. The monitoring data during February 2021 indicate PM10 82.9 µg/m³ , PM2.5 34.15 µg/m³ , SO₂ 7.52 µg/m³ and NO_x 15.26 µg/m³ .</p>	<p>Baseline ambient air quality monitoring is not carried out since the project is to be appraised as B2 category as per the Notification of MoEF&CC S.O. 2339(E), dated 16.06.2021. However, ambient air quality monitoring is carried out by the industry as per the conditions of the Consent issued by KSPCB. The monitoring data during February 2021 indicate PM10 82.9 µg/m³ , PM2.5 34.15 µg/m³ , SO₂ 7.52 µg/m³ and NO_x 15.26 µg/m³ .</p>																																									
10	<p>Total water requirement is as under;</p> <p>Fresh water requirement for Sugar & co-gen plant is 1065 KLD. The condensate water generated from sugar plant is treated and reused for sugar plant requirement and cooling tower</p> <p>Distillery water requirement is as in the table below;</p> <table border="1" data-bbox="319 1496 853 1863"> <thead> <tr> <th rowspan="2">S I. N O</th> <th rowspan="2">Partic ulars</th> <th rowspan="2">Exist ing (KLD)</th> <th colspan="4">Proposed scenario after expansion (KLD)</th> </tr> <tr> <th>C Hea vy mola sses 120 for RS/E</th> <th>C Hea vy mola sses 120 for RS/E</th> <th>B Hea vy mola sses 300</th> <th>C Hea vy mola sses 440</th> <th>Ca ne sy ru p 60 0</th> </tr> </thead> <tbody> <tr> <td></td> <td>Feed stock (any one of the raw materi als</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	S I. N O	Partic ulars	Exist ing (KLD)	Proposed scenario after expansion (KLD)				C Hea vy mola sses 120 for RS/E	C Hea vy mola sses 120 for RS/E	B Hea vy mola sses 300	C Hea vy mola sses 440	Ca ne sy ru p 60 0		Feed stock (any one of the raw materi als						<p>Total water requirement is as under Distillery water requirement is as in the table below;</p> <table border="1" data-bbox="877 1310 1404 1863"> <thead> <tr> <th rowspan="2">S I. N O</th> <th rowspan="2">Partic ulars</th> <th rowspan="2">Exist ing (KLD)</th> <th colspan="4">Proposed scenario after expansion (KLD)</th> </tr> <tr> <th>C Hea vy mola sses 120 for RS/E NA</th> <th>C Hea vy mola sses 120 for RS/E NA</th> <th>B Hea vy mola sses 300</th> <th>C Hea vy mola sses 440</th> <th>Ca ne sy ru p 60 0</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Fresh</td> <td>505</td> <td>505</td> <td>917</td> <td>972</td> <td>12</td> </tr> </tbody> </table>				S I. N O	Partic ulars	Exist ing (KLD)	Proposed scenario after expansion (KLD)				C Hea vy mola sses 120 for RS/E NA	C Hea vy mola sses 120 for RS/E NA	B Hea vy mola sses 300	C Hea vy mola sses 440	Ca ne sy ru p 60 0	1	Fresh	505	505	917	972	12
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1	Fresh	505	505	917	972	12																																					

	will be used at a given time)	NA	NA					90
1	Fresh water for processes	505	505	917	972	1290		
	Fresh water for boiler	545	545	545	620	620		
	Cooling tower make up	-	-	-	645	-		
	Domestic water requirement	16	20	20	20	20		
	Total Fresh water quantity	1066	1066	1482	2257	1930		
2	Reuse from distillery CPU	1197	1197	2148	3230	3030		
3	Total water requirement	2263	2267	3630	5487	4960		

Fresh water will be met from Krishna River located at about 3.6 km in North East direction from project site. (Permission to draw 4.5 MLD (4500 KLD) is issued by Krishna Bhagya Jala Nigama Niyamita, G.O.K)

Wastewater generated from the distillery is as in the table below;

S I. N O	Partic ulars	Exist ing (KL D)				
		C Hea vy mola sses 120 for	C Hea vy mola sses 120 for	B Hea vy mola sses 300	C Hea vy mola sses 440	Ca ne sy ru p 60 0

303.25 KLD is mixed with treated sugar plant effluent and used on land for irrigation

B. Wastewater generated from the distillery is as in the table below

S I. N O	Particu lars	After expansion (KLD)				
		Exist ing (KL D)	C Hea vy mola sses 120 for RS/E NA	C Hea vy mola sses 120 for RS/E NA	B Hea vy mola sses 300	C Hea vy mola sses 440
1	Raw spent wash	960	960	188 5	264 0	33 00
2	Conce ntrate d spent wash	240	240	411	448	15 0
3	Spent lees	300	300	360	688	72 0
4	Total Conde nsate	720	720	147 4	219 2	18 50
5	Boiler blowdo wn	10	10	10	20	20
6	Coolin g tower bleed	127	127	254	270	38 0

The spent wash from the distillery with respect to per KL of alcohol produced is as in the table below;

SI . N O	Descriptio n	Raw spent wash generation		Conc. Spent wash	
		KLD	KL/KL ethanol	KL D	KL/KL ethanol
1	120 KLPD using C Heavy Molasses	960	8	24 0	2
2	300 KLPD using B Heavy Molasse	188	6.28	41	1.37

		RS/E NA	RS/E NA			
1	Raw spent wash	960	960	188 5	264 0	33 00
2	Conce ntrate d spent wash	240	240	411	448	15 0
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SI . N O	Descriptio n	Raw spent wash generation		Conc. Spent wash	
		KLD	KL/KL ethanol	KL D	KL/KL ethanol
1	120 KLPD using C Heavy Molasses	960	8	24 0	2
2	300 KLPD using B Heavy Molasse	188 5	6.28	41 1	1.37
3	440 KLPD using C Heavy molasses	264 0	6	44 8	1.01
4	600 KLPD using sugarcan e syrup	330 0	5.5	15 0	0.25

Mode of treatment of distillery spent wash, spent lees & other utility effluents are as under:

- The spent wash concentrated in MEE and the concentrate will be

Existing Air pollution Sources	Proposed Air Pollution sources after expansion	Fuel	Emission Std prescribed byKSPCB particulate matter mg/Nm ³	APC equipment and stack height inm				mg/Nm ³	
150 TPH (sugar plant)	160 TPH Sugar plant + partially Distillery)	Bagasse	150	ESP and chimney of height - 85 m AGL	150 TPH (sugar plant)	160 TPH Sugar plant + partially Distillery)	Bagasse	150	ESP and chimney of height - 85 m AGL
2X50 TPH Boiler (Sugar Plant)	2x65 TPH Boiler (Sugar plant)	Bagasse	150	ESP and Wet scrubber and chimney of height - 70 m AGL	52 TPH incineration boiler (distillery Plant)	60 TPH incineration boiler + (distillery Plant)	Bagasse + Conc. Spent Wash	150	ESP and chimney of height - 85 m AGL
1250 kVA-DG set	-	HSD	CO 150 NO _x 710ppmvPM 75	Acoustic enclosure & 30 m AGL (Each)	1250 kVA-DG set	-	HSD	CO 150 NO _x 710ppmvPM 75	Acoustic enclosure & 30 m AGL (Each)
625 kVA	-	HSD	-	Stack of height 8 m above roof and acoustic s.	625 kVA	-	HSD	-	Stack of height 8 m above roof and acoustic s.
52 TPH incineration boiler (distillery Plant)	60 TPH incineration boiler + (distillery Plant)	Bagasse + Conc. Spent Wash	150	ESP and chimney of height - 85 m AGL					
12	Details of process emissions generation and its management: During fermentation 577 KLPD of CO ₂ is estimated to be released. CO ₂ will be scrubbed and bottled in CO ₂ plant present in project premises.				Details of Process emissions generation and its management:- During fermentation 577 KLPD of CO ₂ is estimated to be released. CO ₂ will be scrubbed and bottled in CO ₂ plant present in project premises				
13	Details of Solid waste/Hazardous waste generation and its management: Solid waste and its management				Details of Solid waste/Hazardous waste generation and its management: Solid waste and its management				

Sl. No.	Type of solidwaste	Quantity generated after expansion MT/month	Disposal	Sl. No.	Type of solid waste	Quantity generated after expansion MT/month	Disposal
Sugar Plant and Co-gen plant				Distillery Plant			
1.	Bagasse	135000	Used as boilers fuel	1.	Yeast Sludge	450	Sold to farmers to produce manure
2.	Boiler Ash	1110	Sold to brick manufacturers / given to farmers to use it as soil conditioner	2.	Fly Ash	3220	Sold to brick manufacturers / given to farmers to use it as soil conditioner
3.	Press mud	12000	Used to generated biogas	3.	Bottom Ash	317	
4.	Sludge ETP	2	Used as manure for gardening	Hazardous waste generation and its management			
5.	Lime grit	18	Used for land filling in low laying areas.	Waste category	Hazardous waste generated	Quantity	Method of handling
Distillery Plant				5.1	Used Oil	0.125 KL/A	Used oil is reused for lubrication purpose for factory machineries during the season
1.	Yeast Sludge	450	Sold to farmers to produce manure	5.2	Oil-soaked cotton waste	0.050 MT/A	Oil-soaked cotton waste is burnt in boilers.
2.	Fly Ash	3220	Sold to brick manufacturers / given to farmers to use it as soil conditioner	5.2	Oil filters	05 Nos	
3.	Bottom Ash	317		Hazardous waste generation and its management:			
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5.2	Oil filters	05 Nos					
14	Joint Director of MoEF&CC, Regional Office, Bangalore has visited the project site on 04.11.2020. Bangalore RO,			Joint Director of MoEF&CC, Regional Office, Bangalore has visited the project site on 04.11.2020. Bangalore RO,			

		MoEF&CC has issued certified compliance report for the project vide File No. EP/12.1/2014-15/14/Kar/589 dated 16.11.2020. Status of compliance is 'Satisfactory'	MoEF&CC has issued certified compliance report for the project vide File No. EP/12.1/2014-15/14/Kar/589 dated 16.11.2020. Status of compliance is 'Satisfactory'.
	15	As per OM dated 16th June, 2021, PP has submitted self-certification in the form of affidavit declaring that the proposed from 300 KLPD to 600 KLPD will be for manufacturing of fuel ethanol only	As per OM dated 16 th June, 2021, PP has submitted self-certification in the form of affidavit declaring that the proposed from 300 KLPD to 600 KLPD will be for manufacturing of fuel ethanol only.
	16	During the deliberations, it was informed to the EAC that PP has approached Ministry for expansion from 300 KLD to 600 KLD without achieving production capacity of 300 KLD granted in the previous EC dated 04.02.2021. In this regard PP has informed that industry has not yet initiated the expansion from 120 KLD to 300 KLD and the distillery is operating with the production capacity of 120 KLD, CCR has been submitted for the same. Subsequently, EAC mentioned that considering the importance of EBP programme, the proposal may be recommended and Ministry may take a decision whether expansion may be granted without achieving previous EC production capacity. Further, it was noted in CCR dated 16.11.2020 that PP has yet to spend Rs. 34.45 crores earmarked for Corporate Environmental Responsibility. PP has agreed to appropriate the unspent amount within 5 years.	During the deliberations, it was informed to the EAC that PP has approached Ministry for expansion from 300 KLD to 600 KLD without achieving production capacity of 300 KLD granted in the previous EC dated 04.02.2021
	17	The proposal was considered by the EAC in its 39th meeting held on 17th - 18th August, 2021 in the Ministry, wherein the project proponent and their consultant M/s. Samrakshan, presented the case under B2 category. The Committee recommended the project for grant of environmental clearance	The proposal was considered by the EAC in its 39th meeting held on 17th - 18th August, 2021 in the Ministry, wherein the project proponent and their consultant M/s. Samrakshan, presented the case under B2 category. The Committee recommended the project for grant of environmental clearance.
	18	The EAC, constituted under the provision of the EIA Notification, 2006	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.	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
	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	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/	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.	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	<p>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 for Proposed expansion of sugarcane crushing capacity from 10000 TCD to 15000 TCD to augment the requirement of sugarcane syrup/juice as raw material during sugarcane crushing season and to expand the Distillery capacity from 300 KLPD to 600 KLPD for production of Ethanol and captive power plant from 5 MW to 8 MW under EBP programme by M/s. Shri Sai Priya Sugars Ltd., located at Survey Nos. 144, 145, 146, 147, 148, 149, 150 & 151 of Maigur Village and Survey Nos. 238 & 239 of Hipparagi Village, Jamakhandi Taluk, Bagalkot District, Karnataka, under the provisions of the EIA Notification, 2006, and the amendments therein, subject to compliance of the terms and conditions as under:</p> <p>A Specific Condition:</p> <p>(i) As per OM dated 16th June, 2021, project falls in category B2 and the proposed capacity from 300 KLPD to 600 KLPD shall be only be used for fuel ethanol manufacturing as per self-certification in form of an affidavit by the Project</p>	<p>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 for project proposed integrated expansion of the Distillery capacity from 300 KLPD to 600 KLPD for production of Ethanol and captive power plant from 5 MW to 8 MW under EBP programme by, TruAlt Bioenergy Limited (Unit -2) under the provisions of the EIA Notification, 2006, and the amendments therein, subject to compliance of the terms and conditions as under:-</p> <p>A Specific condition:</p> <p>(i) As per OM dated 16th June, 2021, project falls in category B2 and the proposed capacity from 300 KLPD to 600 KLPD shall be only be used for fuel ethanol manufacturing as per self-certification in form of an 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 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</p>

	<p>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 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.</p> <p>(ii) The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.</p> <p>(iii) The project proponent will treat and reuse the treated water within the factory and no waste or treated water shall be discharged outside the premises.</p> <p>(iv) Fresh water requirement for Sugar & co-gen plant is 1065 KLD. Proposed fresh water requirement for C Heavy molasses (120 for RS/ENA) is 1066 KLPD, B Heavy molasses (300 KLPD) is 1482, C Heavy molasses (440 KLPD) is 2257 KLPD and Cane syrup (600 KLPD) is 1930 KLPD and will be met from Krishna River. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard, and renewed from time to time. No ground water recharge shall</p>	<p>been appraised as category B2 project, the EC shall stand cancelled.</p> <p>(ii) The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.</p> <p>(iii) The project proponent will treat and reuse the treated water within the integrated industry and no waste or treated water shall be discharged outside the premises.</p> <p>(iv) Fresh water requirement for Sugar & co-gen plant is 1065 KLD. Proposed fresh water requirement for C Heavy molasses (120 for RS/ENA) is 1066 KLPD, B Heavy molasses (300 KLPD) is 1482, C Heavy molasses (440 KLPD) is 2257 KLPD and Cane syrup (600 KLPD) is 1930 KLPD and will be met from Krishna River. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard, and renewed from time to time. No ground water recharge shall be permitted within the premises.</p> <p>(v) The spent wash/other concentrates shall be treated by concentration followed by incineration..</p> <p>(vi) CO₂ generated from the process shall be bottled/made solid ice and utilized/sold to authorized vendors</p>
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	<p>be permitted within the premises.</p> <p>(v) The spent wash/other concentrates shall be treated by concentration followed by incineration</p> <p>(vi) CO2 generated from the process shall be bottled/made solid ice and utilized/sold to authorized vendors.</p> <p>(vii) 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</p> <p>(viii) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees</p> <p>(ix) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms</p> <p>(x) Process organic residue and spent carbon, if any, shall be sent to Cement other suitable industries for its incinerations. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF.</p> <p>(xi) 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</p>	<p>(vii) 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.</p> <p>(viii) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees.</p> <p>(ix) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms.</p> <p>(x) Process organic residue and spent carbon, if any, shall be sent to Cement other suitable industries for its incinerations. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF.</p> <p>(xi) 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.</p>
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	<p>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.</p> <p>(xii) The green belt of at least 5-10 m width shall be developed in nearly 33% of the total project area, mainly along the plant periphery. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department. Records of tree canopy shall be monitored through remote sensing map.</p> <p>(xiii) As per the Ministry's OM dated 30.09.2020 superseding the OM dated 01.05.2018 regarding the Corporate Environmental Responsibility, and as per the action plan proposed by the project proponent to address the socioeconomic and environmental issues in the study area, the project proponent, as committed, shall provide education funds in technical training centers/ support in nearby village's schools, support in health care facilities, drinking water supply and funds for miscellaneous activities like solar street lights, battery, solar panel etc., in the nearby villages. The action plan shall be completed within time as proposed. In addition to the existing CER proposed, PP shall also spend Rs. 34.45 crore which was earlier earmarked for</p>	<p>(xii) The green belt of at least 5-10 m width shall be developed in nearly 33% of the total project area, mainly along the plant periphery. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department. Records of tree canopy shall be monitored through remote sensing map.</p> <p>(xiii) As per the Ministry's OM dated 30.09.2020 superseding the OM dated 01.05.2018 regarding the Corporate Environmental Responsibility, and as per the action plan proposed by the project proponent to address the socio-economic and environmental issues in the study area, the project proponent, as committed, shall provide education funds in technical training centers/ support in nearby village's schools, support in health care facilities, drinking water supply and funds for miscellaneous activities like solar street lights, battery, solar panel etc., in the nearby villages. The action plan shall be completed within time as proposed.</p> <p>(xiv) There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products as per CPCB norms and no parking to be allowed outside on public places.</p> <p>(xv) Storage of raw materials shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.</p> <p>(xvi) Continuous online (24x7)</p>
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	<p>CER but remained unspent.</p> <p>(xiv) There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products as per CPCB norms and no parking to be allowed outside on public places.</p> <p>(xv) Storage of raw materials shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions</p> <p>(xvi) Continuous online (24x7) monitoring system for stack emissions 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.</p> <p>(xvii) 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.</p> <p>B. General Condition:</p> <p>(i) No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the</p>	<p>monitoring system for stack emissions 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.</p> <p>(xvii) 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.</p> <p>B. General condition:</p> <p>(i) No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA, as applicable. In case of deviations or alterations in the project proposal from those submitted to 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.</p> <p>(ii) The energy source for lighting purpose shall be preferably LED</p>
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	<p>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.</p> <p>(ii) The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.</p> <p>(iii) The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic 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).</p> <p>(iv) 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</p>	<p>based, or advanced having preference in energy conservation and environment betterment.</p> <p>(iii) The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic 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).</p> <p>(iv) 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.</p> <p>(v) The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted</p>
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	<p>environment.</p> <p>(v) The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose</p> <p>(vi) 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.</p> <p>(vii) 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 email) 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.</p> <p>(viii) The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution</p>	<p>for any other purpose.</p> <p>(vi) 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.</p> <p>(vii) 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.</p> <p>(viii) 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.</p> <p>(ix) The project proponent shall inform the public that the project has been accorded environmental clearance by the</p>
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	<p>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.</p> <p>(ix) 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.</p> <p>(x) 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.</p> <p>(xi) 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.</p>	<p>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.</p> <p>(x) 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.</p> <p>(xi) 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.</p>
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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.	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 Environment (Protection) Act, 1986.	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 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.	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.	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.

After deliberations, EAC **recommended** for transfer of distillery unit from M/s. Shri Sai Priya Sugars Limited to M/s. TruAlt Bioenergy Limited (Unit-2) Hipparagi– Maigur Village, Jamakhandi Tq Bagalkot District after bifurcating the existing ECs with same validity period as mentioned in the EC letter as proposed by the project proponent subject to the following additional condition:

- 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 12th August, 2021. A report along with photographs on the measures taken shall also be included in the six-monthly compliance report being submitted to concerned authority.

However, all other general terms and conditions mentioned in EC vide file no. J-11011/277/2010-IA II(I) dated 23rd November, 2021 shall remain unchanged.

Agenda No. 03

Proposed Integrated expansion of sugar plant from 5,000 TCD to 10,000 TCD, Distillery unit from 65 KLPD to 400 KLPD using C- heavy molasses / B- heavy molasses / sugar syrup / grains as feedstock and a new Captive power plant capacity of 8 MW under Ethanol blended with Petrol (EBP) program located at Bagalkot, Karnataka by M/s. MRN Cane Power (India) Limited – Re-consideration of amendment of Environmental Clearance

[IA/KA/IND2/293136/2022, IA-J-11011/312/2021-IA-II(I)]

The proposal was earlier considered by the EAC (Ind-2) in its meeting ID-IA/IND2/13394/28/11/2022 held during 28th - 29th November, 2022 wherein EAC deferred the proposal and desired certain requisite information/inputs. After submission of ADS reply by Project Proponent, proposal was again considered in EAC meeting (Meeting ID: IA/IND2/13410/21/12/2022) held on 21st – 22nd December, 2022. Information desired by EAC and responses submitted by the project proponent along with remarks of EAC as discussed in meeting are as follows:

Sr. No	ADS by MoEF&CC	Reply of PP
1	PP shall submit Board resolution from both the Companies	Board Resolution by M/s MRN Cane Power (India) Limited, have been submitted by PP. Board Resolution by M/s. TruAlt Bioenergy Limited (Unit-3), have been submitted by PP.

2	PP shall submit engineering drawing layout of the project.	Engineering drawing layout of the project – over all integrated layout and individually sugar, go-generation and distillery layout plan have been submitted by PP.
3	PP shall provide details of greenbelt in both the units after split of EC including clearly delineation of greenbelt in the layout map.	<p>The total green belt area of the entire plant/integrated facility is 34.8 acres i.e 33% of the total industrial area as in EC. This green belt will not be reduced.</p> <ul style="list-style-type: none"> • Total Land Area under possession of the company is 124.475 Acre out of which land converted for industrial use is 101.925 Acres and remaining 22.55 Acres is agricultural land used for R&D. • No. of Plantation to be planted -2500 plants / Hectare = 35,200. • Actual plantation = 14000 • Deficit = 21200 <p>After Bifurcation:</p> <p>c) Sugar and co-gen unit – MRN cane Power (India) ltd occupies 89.275 Acres. Out of this the green belt is 30 acres accounting for 33.6 % of the total area of the sugar plant.</p> <ul style="list-style-type: none"> • No. of Plantation to be planted -2500plants / Hectare = 30350 • Actual Plantation=10000 • Deficit = 20350 <p>d) Distillery unit- TruAlt Bioenergy Ltd(unit-3) occupies 12.65 Acres. Out of this the green belt is 4.8 Acre acres accounting for 37.94 % of the total area of the distillery.</p> <ul style="list-style-type: none"> • No. of Plantation to be planted -2500 plants / Hectare = 4850

		<ul style="list-style-type: none"> • Actual Plantation=4000 • Deficit =850 																																																												
4	Details of utilities after the Split.	<p>A. Details of the utilities after the transfer of Distillery and captive power to M/s. TruAlt Bio Energy Ltd.</p> <table border="1"> <thead> <tr> <th>Sl. No.</th> <th>Particulars</th> <th>Qty in Nos.</th> <th>Capacity/size</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Molasses storage tank</td> <td>2</td> <td>Each 10000MT</td> </tr> <tr> <td>2.</td> <td>Evaporators (Falling film)</td> <td>3</td> <td>HTA :1750 m2, 12 m long tubes</td> </tr> <tr> <td>3.</td> <td>R.S Daily Receiver</td> <td>3</td> <td>200m³</td> </tr> <tr> <td>4.</td> <td>ENA Daily Receiver</td> <td>3</td> <td>108m³</td> </tr> <tr> <td>5.</td> <td>Ethanol Daily Receiver</td> <td>3</td> <td>266.7m³</td> </tr> <tr> <td>6.</td> <td>TA Daily Receiver</td> <td>2</td> <td>1.4 m³</td> </tr> <tr> <td>7.</td> <td>T.A Bulk Storage</td> <td>1</td> <td>226.7 m3</td> </tr> <tr> <td>8.</td> <td>R.S Bulk Storage</td> <td>2</td> <td>3012.50 m3</td> </tr> <tr> <td>9.</td> <td>ENA Bulk Storage</td> <td>2</td> <td>2506 m3</td> </tr> <tr> <td>10.</td> <td>ETHANOL Bulk Storage</td> <td>2</td> <td>3012.5 m3</td> </tr> <tr> <td>11.</td> <td>Evaporators (Falling film)</td> <td>03</td> <td>HTA :1750 m2, 12 m long tubes</td> </tr> <tr> <td>12.</td> <td>Evaporators (Forced Circulation)</td> <td>03</td> <td>1730x 6000, long tubes</td> </tr> <tr> <td>13.</td> <td>Vapour Liquid seperator (Falling film)</td> <td>03</td> <td>Diameter: 4000 mm Height: 6000 mm</td> </tr> <tr> <td>14.</td> <td>Vapour Liquid seperator (Forced</td> <td>02</td> <td>Diameter: 3600 mm Height: 6850 mm</td> </tr> </tbody> </table>	Sl. No.	Particulars	Qty in Nos.	Capacity/size	1.	Molasses storage tank	2	Each 10000MT	2.	Evaporators (Falling film)	3	HTA :1750 m2, 12 m long tubes	3.	R.S Daily Receiver	3	200m ³	4.	ENA Daily Receiver	3	108m ³	5.	Ethanol Daily Receiver	3	266.7m ³	6.	TA Daily Receiver	2	1.4 m ³	7.	T.A Bulk Storage	1	226.7 m3	8.	R.S Bulk Storage	2	3012.50 m3	9.	ENA Bulk Storage	2	2506 m3	10.	ETHANOL Bulk Storage	2	3012.5 m3	11.	Evaporators (Falling film)	03	HTA :1750 m2, 12 m long tubes	12.	Evaporators (Forced Circulation)	03	1730x 6000, long tubes	13.	Vapour Liquid seperator (Falling film)	03	Diameter: 4000 mm Height: 6000 mm	14.	Vapour Liquid seperator (Forced	02	Diameter: 3600 mm Height: 6850 mm
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8.	R.S Bulk Storage	2	3012.50 m3																																																											
9.	ENA Bulk Storage	2	2506 m3																																																											
10.	ETHANOL Bulk Storage	2	3012.5 m3																																																											
11.	Evaporators (Falling film)	03	HTA :1750 m2, 12 m long tubes																																																											
12.	Evaporators (Forced Circulation)	03	1730x 6000, long tubes																																																											
13.	Vapour Liquid seperator (Falling film)	03	Diameter: 4000 mm Height: 6000 mm																																																											
14.	Vapour Liquid seperator (Forced	02	Diameter: 3600 mm Height: 6850 mm																																																											

		circulation)		
		15. Cooling Tower for Fermentation	02	1200 m3/hr
		16. Cooling Tower for Distillation	4	1500 m3/hr
		17. Cooling Tower for Evaporation Section	03	1500 m3/hr
		18. Cooling Tower for Standalone MSDH Section	1	187 m3/hr
		19. Air Compressor	01	94.7 CFM
		20. Air Receiver	01	1000 liters
		21. DM Water Tank	1	30 m ³
		22. PCTP	01	1470m3
		23. Equilization tank	01	468MT
		24. Aeration tank	01	400MT
		25. clarifier	01	400MT
		26. Chlorine contact tank	01	42MT
		27. DM storage tank	01	100KL
		28. Process water tank	01	624KL
		29. Soft water tank	01	297KL
		30. Feed RO	04	30-85m3/hr
		31. RO Plant	02	Feed RO Capacity: 70m3/hr Reject RO Capacity: 20m3/hr
		32. Lagoon	01	10000KL
		33. Air Blower	02	1434m3/Hr
		34. Air blower	01	285m3/Hr
		DISTILLERY WATER TREATMENT PLANT-Cap: 40 M3/Hr.		
		(ii). Details of the utilities after the transfer of Distillery and captive power utilities left over with Sugar and co-generation plant of – MRN Cane Power (India) Ltd		

Sl. No.	Particulars	Qty in Nos.	Capacity/size
MOLASSES SUPPLY TANKS			
1.	Molasses tanks.	10	
2.	AH molasses.	2	40 Cu.M
3.	AL molasses.	1	40 Cu.M
4.	BH molasses.	1	40 Cu.M
5.	CL molasses.	1	40 Cu.M
6.	R1 molasses.	2	40 Cu.M
7.	R2 molasses.	1	40 Cu.M
8.	Sugar Godowns	2	110 mtr X 48 mtrs
9.	Molasses Storage Tanks	3	31 mtr Dia X 10 Height 10000MT (Each)
CONDENSATE POLISHING UNIT (CPU) - 01 No Capacity: 100m ³ /Hr Size: 46.5Mtrs x 46.5Mtrs			
EFFLUENT TREATMENT PLANT (ETP)			
10.	SCREENS	1	1.125 m3
11.	O&G TRAP	1	21.45 m3
12.	COLLECTION TANK	1	300 m3
13.	MONTHLY TANK	1	300 m3
14.	EQUALISATION TANK:-	1	600 m3
15.	BUFFER TANK	1	182.12 m3
16.	PRE AERATION TANK:-	1	93.6 m3
17.	ASP TANK	1	2790 m3
18.	CLARIFIER TANK	1	216.75 m3
19.	CHLORINE CONTACT TANK CUM FILTER FEED TANK:-	1	48 m3
20.	SLUDGE DRYING BEDS (SDB):-	10	15 mts x 15 mts.
21.	SLUDGE HOLDING TANK:-	1	38.64 m3
22.	TREATED TANK:-	1	48 m3
CO-GENERATION (ISGEC HEAVY ENGG. LTD)			

		23.	BOILER	1	160 TPH	
		24.	ESP	1		
		25.	Chimney	1	3200mm dia, height -85 m	
		26.	Ash Handling system	9		
		27.	Ash Screw compressor	2	10.76 kg/cm2	
		28.	TURBINE	1	35 MW	
5	Compliance of undertaking provided while obtaining ECs under Ethanol blended with Petrol (EBP) program.	The ethanol produced in the plant is completely sold to oil companies. We are adhering to the affidavit produced while obtaining EC under EBP program				
		I. E.C vide letter no. F. No. J-11011/411/2014-IA II (I) ; Dated: 29.08.2016				
		SI.NO	Particular	Capacity		
		1	RS	65 KLPD		
		2	ENA			
		3	Ethanol			
		II. E.C letter No. IA-J-11011/312/2021- IA II(I) ; Dated: 21/09/2021				
		SI.NO	Particular	Capacity		
		Distillery capacity – 400 KLPD				
		1	RS/ENA	65 KLPD		
2	Ethanol	335 KLPD				
III. Date of Establishment of 60 KLPD : 25.11.2019						
IV. Date of Establishment of 200 KLPD: 31.01.2022. further expansion to 200 KLPD is pending						
V. Ethanol Produced from 200 KLPD Plant :						
SI.NO	Month , year	Quantity of ethanaol produced in KL	Ethanol Dispatched to oil companies quantity in KL	Balanc e stored in KL	Remark (name of the oil company)	

			21-sept-2021 To 05-Dec-2022	44243.66 9	44115.9	84	HPCL, IOCL ABD BPCL
6	Bifurcation of all the conditions stipulated in all EC granted to the industry.	Bifurcation of all the conditions stipulated in all EC has been Submitted by PP.					

EAC was satisfied with the response & presentation made by PP on additional details sought.

The proposal is for amendment in the Environmental Clearance granted by the Ministry vide letter no. J-11011/312/2021- IA II(I) dated :21/09/2021 for the project Integrated expansion of sugar plant from 5,000 TCD to 10,000 TCD, Distillery unit from 65 KLPD to 400 KLPD using C- heavy molasses / B- heavy molasses / sugar syrup / grains as feedstock and a new Captive power plant capacity of 8 MW under Ethanol blended with Petrol (EBP) program located at Bagalkot, Karnataka by M/s. MRN Cane Power (India) Limited.

The project proponent has requested for amendment in the EC with the details are as under;

SI. No	Para	details of EC issued by MoEF&CC	to be revised/ read as
A	Sugar unit		
	1.	This has reference to your online proposal No. IA/KA/IND2/222242/2021, dated 09th August, 2021 for environmental clearance to the above mentioned project.	This has reference to online proposal No. IA/KA/IND2/293136/2022, for Amendment in Environmental Clearance Condition (EC Identification No. EC21A022KA158864) the Distillery Environmental Clearance Condition are mentioned

	<p>2. The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the proposed integrated expansion of sugar plant from 5,000 TCD to 10,000 TCD, Distillery unit from 65 KLPD to 400 KLPD using C-heavy molasses / B-heavy molasses / sugar syrup / grains as feedstock and a new Captive power plant capacity of 8 MW under Ethanol blended with Petrol (EBP) program at Bagalkot, Karnataka by M/s MRN Cane Power (India) Limited.</p>	<p>The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the proposed integrated expansion of sugar plant from 5,000 TCD to 10,000 TCD at Bagalkot, Karnataka by M/s MRN Cane Power (India) Limited</p>
	<p>3. The project activities are covered under category A of item 5 (g) 'Distilleries' and 5 (j) Sugar Industry of the Schedule to the EIA, 2006 and requires appraisal at central level by the sectoral Expert Appraisal Committee (EAC). The proposal has been submitted under the Ministry's EIA Notification, 2006 amendment vide Notification no. S.O. 345(E) dated 17th January 2019 & extensions given to it vide notifications S.O. 750(E) dated 17th February 2020, S.O 980(E) dated 2nd March, 2021. Accordingly, the proposal shall be appraised as category 'B2' project. It was informed that no litigation is pending against the proposal</p>	<p>The project activities are covered under category A of item 5 (j) Sugar Industry of the Schedule to the EIA, 2006 and requires appraisal at central level by the sectoral Expert Appraisal Committee (EAC). The proposal has been submitted under the Ministry's EIA Notification, 2006 amendment vide Notification no. S.O. 345(E) dated 17th January 2019 & extensions given to it vide notifications S.O. 750(E) dated 17th February 2020, S.O 980(E) dated 2nd March, 2021.</p>
	<p>4. Ministry had issued EC earlier vide letter No. J-11011/411/2014-IA II (I) dated 29.08.2016 to the existing project for setting up of integrated industry with Sugar unit of 5000 TCD, Co-generation Power Plant of 35 MW and Distillery unit of 65 KLD capacity in favour of M/s. MRN Cane Power (India) Limited. It was informed that no litigation is pending against the proposal.</p>	<p>Ministry had issued EC earlier vide letter No. J-11011/411/2014-IA II (I) dated 29.08.2016 to the existing project for setting up of integrated industry with Sugar unit of 5000 TCD, Co-generation Power Plant of 35 MW in favour of M/s. MRN Cane Power (India) Limited. It was informed that no litigation is pending against the proposal.</p>

5.	The details of products and capacity are as under: -				The details of products and capacity are as under: -					
	Si . no	Unit Type	Existing Product	Proposed expansion	Scenario after expansion	Si . no	Unit Type	Existing Product	Proposed expansion	Scenario after expansion
	1	Sugar Plant	5000 TCD	5000 TCD	10000 TCD sugar cane crushing capacity	1	Sugar Plant	5000 TCD	5000 TCD	10000 TCD sugar cane crushing capacity
	2	Co-generation plant	35 MW	-	35 MW of Co-generation plant	2	Co-generation plant	35 MW	-	35 MW of Co-generation plant
	3	Distillery	65 KLD distillery unit Raw material is C-Heavy molasses	335 KLD distillery unit Raw material is C-Heavy molasses / BHeavy molasses / Sugar syrup / Grains	The operating scenarios are: 400 KLPD Ethanol [OR] 65 KLPD RS/ENA + 335 KLPD Ethanol Raw material is C-Heavy molasses / B-Heavy molasses / sugar syrup / Grains					
4	Captive power attached to distillery	-	8 MW	To install a new Captive Power Plant of 8 MW capacity						

6.	Existing land area is 503710 m ² (124 Acres 19 Guntas) ; Out of which land converted for industrial use is 412450 m ² (101 Acres 37 Guntas) and remaining 91260 m ² (22 Acres 22 Guntas) is agricultural land used for R&D. Proposed expansion shall be within the existing land available for industrial use. Industry has already developed greenbelt in an area of 33 % i.e., 137800 m ² (34 Acres 02 Guntas) out of total area of the project	Existing land area 503710 m ² (124 Acres 19 Guntas); Out of which 26 gunta and sugar & co-generation unit is 89 Aces 11 guntas. Proposed amendment is Out of land converted for industrial use is 412450 m ² (101 Acres 37 Guntas) is sugar & co-generation unit is 89 Aces 11 guntas. Industry has already developed greenbelt in an area of 33 % i.e., 137800 m ² (34 Acres 02 Guntas) out of total area of the project	
7.	The estimated project cost is Rs. 830.47 crores including existing investment of Rs. 590.47 crores. Total capital cost earmarked towards environmental pollution control measures after expansion is Rs. 41.92 crores and the recurring cost (operation and maintenance) shall be Rs. 0.93 crores per annum. Total employment shall be 372 persons as direct & 66 persons indirect after expansion. Industry proposes to allocate Rs 2.4 crores towards Corporate Environment Responsibility	The estimated project cost is Rs. 361.88 crores including existing investment of Rs. 135.88 crores. Total capital cost earmarked towards environmental pollution control measures after expansion is Rs. 41.92 crores and the recurring cost (operation and maintenance) shall be Rs. 0.93 crores per annum. Total employment shall be shall be 372 persons as direct & 66 persons indirect after expansion	
8.	There are no national parks, wild life sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wild life Corridors etc. within 10 km distance from the project site. River Malaprabha is flowing at a distance of 6 km in South direction	There are no national parks, wild life sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wild life Corridors etc. within 10 km distance from the project site. River Malaprabha is flowing at a distance of 6 km in South direction	
9.	As PUC is a B2 project baseline ambient air quality monitoring is not required. However, ambient air quality monitoring is carried out by the industry as per the conditions of the Consent issued by KSPCB. The monitoring data during	As PUC is a B2 project baseline ambient air quality monitoring is not required. However, ambient air quality monitoring is carried out by the industry as per the conditions of the Consent issued by KSPCB. The monitoring data during December 2020 indicate PM10 (86.02	

	<p>December 2020 indicate PM10 (86.02 µg/m³), PM2.5 (41.28 µg/m³), SO₂ (6.74 µg/m³) and NO_x (13.09 µg/m³). AAQ modeling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 3.58 µg/m³, 1.48 µg/m³ and 0.95 µg/m³ with respect to PM10, SO₂ and NO_x respectively. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS)</p>	<p>µg/m³), PM2.5 (41.28 µg/m³), SO₂ (6.74 µg/m³) and NO_x (13.09 µg/m³). AAQ modeling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 3.58 µg/m³, 1.48 µg/m³ and 0.95 µg/m³ with respect to PM10, SO₂ and NO_x respectively. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS)</p>																																													
10.	<p>Total water requirement in Sugar & Co-Generation Plant and distillery unit is given in the Table below and fresh water shall be met from Malaprabha Rive:</p> <table border="1" data-bbox="352 887 823 1406"> <thead> <tr> <th colspan="5">Fresh water requirement by sugar and Co-generation plant</th> </tr> <tr> <th>SI . No</th> <th>Particular</th> <th>Fresh Water in KLD</th> <th>Recycled water in KLD</th> <th>Total Water Requirement in KLD</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Sugar Plant of 10000 TCD & Co-Gen Plant of 35 MW</td> <td>660</td> <td>1710</td> <td>2370</td> </tr> </tbody> </table> <p>(Fresh water requirement by Distillery Unit & Captive Power Plant:</p> <table border="1" data-bbox="352 1473 823 1877"> <tbody> <tr> <td>1</td> <td>Using C-Heavy Molasses</td> <td>1404</td> <td>3.51</td> <td>2245</td> </tr> <tr> <td>2</td> <td>Using B-Heavy Molasses</td> <td>1255</td> <td>3.14</td> <td>2402</td> </tr> <tr> <td>3</td> <td>Using sugar syrup</td> <td>946</td> <td>2.37</td> <td>2594</td> </tr> </tbody> </table>	Fresh water requirement by sugar and Co-generation plant					SI . No	Particular	Fresh Water in KLD	Recycled water in KLD	Total Water Requirement in KLD	1	Sugar Plant of 10000 TCD & Co-Gen Plant of 35 MW	660	1710	2370	1	Using C-Heavy Molasses	1404	3.51	2245	2	Using B-Heavy Molasses	1255	3.14	2402	3	Using sugar syrup	946	2.37	2594	<p>Total water requirement in Sugar & Co-Generation Plant is given in the Table below and fresh water shall be met from Malaprabha River:</p> <table border="1" data-bbox="852 853 1406 1330"> <thead> <tr> <th colspan="5">Fresh water requirement by sugar and Co-generation plant</th> </tr> <tr> <th>SI . No</th> <th>Particular</th> <th>Fresh Water in KLD</th> <th>Recycled water in KLD</th> <th>Total Water Requirement in KLD</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Sugar Plant of 10000 TCD & Co-Gen Plant of 35 MW</td> <td>660</td> <td>1710</td> <td>2370</td> </tr> </tbody> </table> <p>Domestic use - Sugar & Co-gen plant: 10 KLD Gardening= 40 KLD</p> <p>Domestic Sewage of 8 KLD form Sugar plant shall be treated in septic tank followed by soak pits.</p> <p>In Sugar & Co-Generation Plant: Excess condensate water generated from sugarcane process is 1166 KLD. The other effluents viz. process cooling tower blowdown of 770 KLD, Co-Gen cooling tower blowdown of 195 KLD, Boiler blowdown of 70 KLD and DM regenerated of 184 KLD shall be treated in Sugar plant CPU of 2400 KLD capacity. Treated water from CPU shall be reused for process makeup, CoGen CT makeup and</p>	Fresh water requirement by sugar and Co-generation plant					SI . No	Particular	Fresh Water in KLD	Recycled water in KLD	Total Water Requirement in KLD	1	Sugar Plant of 10000 TCD & Co-Gen Plant of 35 MW	660	1710	2370
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4	Using Grains	1090	2.73	2495	<p>remaining quantity along with sugar process effluent of 453 KLD treated in the sugar ETP of 1000 KLD capacity shall be used for greenbelt development and for agriculture on land of 22 acres owned by the company director</p>
Domestic use - Sugar & Co-gen plant: 10 KLD					
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<p>Domestic Sewage of 8 KLD from Sugar plant and 8.5 KLD from Distillery unit shall be treated in septic tank followed by soak pits. In Sugar & Co-Generation Plant: Excess condensate water generated from sugarcane process is 1166 KLD. The other effluents viz. process cooling tower blowdown of 770 KLD, Co-Gen cooling tower blowdown of 195 KLD, Boiler blowdown of 70 KLD and DM regenerated of 184 KLD shall be treated in Sugar plant CPU of 2400 KLD capacity. Treated water from CPU shall be reused for process makeup, CoGen CT makeup and remaining quantity along with sugar process effluent of 453 KLD treated in the sugar ETP of 1000 KLD capacity shall be used for greenbelt development and for agriculture on land of 22 acres owned by the company director. In Distillery Unit & Captive Power Plant: The raw spent wash of 2400 KLD (6 kL/kL of Alcohol) generated from C-Heavy / B-Heavy / Syrup shall be stored in spent wash lagoons and shall be concentrated by evaporation in MEE. Concentrated Spent wash generated from distillery using C-Heavy Molasses shall be 713 KLD (1.78 kL/kL of Alcohol) or B-Heavy Molasses of 612 KLD (1.53 kL/kL of Alcohol) or Syrup of 408 KLD (1.02 kL/kL of Alcohol) and shall be used as fuel in the incineration boiler. Raw spent wash 2400 KLD (6 kL/kL of Alcohol) generated from distillery using grain as feedstock</p>					

		shall be treated in decanter and thin slop of 1448 KLD (3.62 kl/KL of Alcohol) shall be sent to drier to produce DDGS. Condensate from MEE and spent lees shall be treated along with other lean effluents viz., DM regenerate, boiler blowdown, cooling tower bleed, Lab washings, Scrubber in distillery CPU. The existing distillery CPU of 1470 KLD shall be upgraded to 2500 KLD capacity after expansion. The treated water from distillery CPU shall be recycled to process, cooling tower makeup and CO2 scrubber. ZLD concept shall be followed in distillery unit.													
	11.	Power requirement after expansion shall be 16 MW and 4.5 MW for sugar plant and distillery unit respectively and shall be met from Co-Generation plant and Captive power plant. Existing unit has one 1250 kVA DG set and no DG set is proposed in expansion proposal. In the existing sugar plant, there is one 165 TPH Co-Gen Boiler using Bagasse as fuel with ESP and a stack of height 85 m as APC measure. For the distillery, one 52 TPH incinerator boiler using Concentrated spent wash supported with Bagasse as fuel is attached to Bag filter and a stack of height 85 m. Existing APC are sufficient for controlling the particulate emissions within the statutory limit of 115 mg/Nm3 even after expansion	Power requirement after expansion shall be 16 MW for sugar plant and shall be met from Co-Generation plant. Existing unit has one 1250 kVA DG set and no DG set is proposed in expansion proposal. In the existing sugar plant, there is one 165 TPH Co-Gen Boiler using Bagasse as fuel with ESP and a stack of height 85 m as APC measure												
	12.	Details of Process emissions generation and its management	Details of Process emissions generation and its management: nil												
	13.	Details of Solid waste/Hazardous waste generation and its management: <table border="1" data-bbox="343 1803 821 1870"> <thead> <tr> <th>Solid waste</th> <th>Quantity in T/Day</th> <th>Mode of disposal</th> </tr> </thead> <tbody> <tr> <td>Bagasse Press</td> <td>3200</td> <td>Used as fuel in</td> </tr> </tbody> </table>	Solid waste	Quantity in T/Day	Mode of disposal	Bagasse Press	3200	Used as fuel in	Details of Solid waste/Hazardous waste generation and its management: <table border="1" data-bbox="853 1769 1404 1870"> <thead> <tr> <th>Solid Waste</th> <th>Quantity in T/Day</th> <th>Mode of Disposal</th> </tr> </thead> <tbody> <tr> <td>Bagasse Press</td> <td>3200</td> <td>Used as fuel in</td> </tr> </tbody> </table>	Solid Waste	Quantity in T/Day	Mode of Disposal	Bagasse Press	3200	Used as fuel in
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14.	Certified compliance report has been issued by IRO, Bangalore vide File No. EP/12.1/2016-17/04/KAR/110 dated 19.01.2021 and found status of compliance to be 'Satisfactory	Certified compliance report has been issued by IRO, Bangalore vide File No. EP/12.1/2016-17/04/KAR/110 dated 19.01.2021 and found status of compliance to be 'Satisfactory																																				
15.	As per OM dated 16th June, 2021, PP has submitted self-certification in the form of affidavit declaring that the proposed expansion of 335 KLPD will be for manufacturing of fuel ethanol only.	As per OM dated 16th June, 2021, PP has submitted self-certification in the form of affidavit declaring that the proposed expansion of 335 KLPD will be for manufacturing of fuel ethanol only.																																				
16.	The proposal was considered by the EAC in its 39th meeting held during 17th18th August, 2021 in the Ministry, wherein the project proponent and their consultant M/s. Samrakshan presented the EMP report as per the PFR. The Committee found the EMP report complying with the PFR and recommended the project for grant of environmental clearance	The proposal was considered by the EAC in its 39th meeting held during 17th18th August, 2021 in the Ministry, wherein the project proponent and their consultant M/s. Samrakshan presented the EMP report as per the PFR. The Committee found the EMP report complying with the PFR and recommended the project for grant of environmental clearance																																				
17.	The EAC, constituted under the provision of the EIA Notification, 2006 and comprising of Experts Members/domain experts in various fields, have examined the proposal	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																																				

	<p>submitted by the Project Proponent in desired form along with EIA/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 EIA/EMP 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</p>	<p>Proponent in desired form along with EIA/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 EIA/EMP 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</p>
18.	<p>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.</p>	<p>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.</p>
19.	<p>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</p>	<p>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</p>

		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	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 for project proposed integrated expansion of sugar plant from 5,000 TCD to 10,000 TCD, Distillery unit from 65 KLPD to 400 KLPD using C-heavy molasses / B-heavy molasses / sugar syrup / grains as feedstock and a new Captive power plant capacity of 8 MW under Ethanol blended with Petrol (EBP) program at Bagalkot, Karnataka by M/s MRN Cane Power (India) Limited, under the provisions of the EIA Notification, 2006, and the amendments therein, subject to compliance of the terms and conditions as under: - A. Specific condition: (i) As per OM dated 16th June, 2021, project falls in category B2 and the proposed additional capacity of 335 KLPD shall be only be used for fuel ethanol manufacturing as per self-certification in form of an affidavit by the Project Proponent (ii) The company shall comply	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 for project proposed integrated expansion of sugar plant from 5,000 TCD to 10,000 TCD at Bagalkot, Karnataka by M/s MRN Cane Power (India) Limited, under the provisions of the EIA Notification, 2006, and the amendments therein, subject to compliance of the terms and conditions as under: - B. Specific condition: (i) As per OM dated 16th June, 2021, project falls in category B2 and the proposed additional capacity of 335 KLPD shall be only be used for fuel ethanol manufacturing as per self-certification in form of an affidavit by the Project Proponent (ii) The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented. (iii) The project proponent will treat and reuse the treated water within the integrated industry and no	

	<p>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.</p> <p>(iii) The project proponent will treat and reuse the treated water within the integrated industry and no waste or treated water shall be discharged outside the premises.</p> <p>(iv) Total fresh water requirement for the integrated industry shall not exceed be 2124 KLPD which shall be met from Malaprabha river. Prior permission shall be obtained from the concerned regulatory authority/Irrigation division in this regard, and renewed from time to time. No ground water recharge shall be permitted within the premises. Rainwater shall be collected in storage ponds and utilized for plant activities. Ground water monitoring shall be done regularly and report is to be submitted to concerned authorities regularly.</p> <p>(v) The spent wash shall be concentrated by evaporation in MEE and shall be used as fuel in the incineration boiler.</p>	<p>waste or treated water shall be discharged outside the premises.</p> <p>(iv) Total fresh water requirement for the integrated industry shall not exceed be 2124 KLPD which shall be met from Malaprabha river. Prior permission shall be obtained from the concerned regulatory authority/Irrigation division in this regard, and renewed from time to time. No ground water recharge shall be permitted within the premises. Rainwater shall be collected in storage ponds and utilized for plant activities. Ground water monitoring shall be done regularly and report is to be submitted to concerned authorities regularly.</p> <p>(v) 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.</p> <p>(vi) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees.</p> <p>(vii) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms.</p> <p>(viii) The green belt of at least 5-10 m width shall be developed in nearly 33% of the total project area, mainly along the plant periphery. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department. Records of tree</p>
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	<p>(vi) CO2 generated from the process shall be bottled/made solid ice and utilized/sold to authorized vendors.</p> <p>(vii) 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.</p> <p>(viii) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees.</p> <p>(ix) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms.</p> <p>(x) Process organic residue and spent carbon, if any, shall be sent to Cement other suitable industries for its incinerations. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF.</p> <p>(xi) The company shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse</p>	<p>canopy shall be monitored through remote sensing map.</p> <p>(ix) As per the Ministry's OM dated 30.09.2020 superseding the OM dated 01.05.2018 regarding the Corporate Environmental Responsibility, and as per the action plan proposed by the project proponent to address the socio-economic and environmental issues in the study area, the project proponent, as committed, shall provide education funds in technical training centers/ support in nearby village's schools, support in health care facilities, drinking water supply and funds for miscellaneous activities like solar street lights, battery, solar panel etc., in the nearby villages. The action plan shall be completed within time as proposed.</p> <p>(x) There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products as per CPCB norms and no parking to be allowed outside on public places</p> <p>(xi) Continuous online (24x7) monitoring system for stack emissions 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.</p> <p>(xii) A separate Environmental Management Cell (having qualified person with Environmental Science/Environmental</p>
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	<p>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.</p> <p>(xii) The green belt of at least 5-10 m width shall be developed in nearly 33% of the total project area, mainly along the plant periphery. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department. Records of tree canopy shall be monitored through remote sensing map.</p> <p>(xiii) As per the Ministry's OM dated 30.09.2020 superseding the OM dated 01.05.2018 regarding the Corporate Environmental Responsibility, and as per the action plan proposed by the project proponent to address the socio-economic and environmental issues in the study area, the project proponent, as committed, shall provide education funds in technical training centers/ support in nearby village's schools, support in health care facilities, drinking water supply and funds for miscellaneous</p>	<p>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.</p> <p>B. General condition:</p> <p>(i) No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA, as applicable. In case of deviations or alterations in the project proposal from those submitted to 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.</p> <p>(ii) The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.</p> <p>(iii) The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic 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).</p> <p>(iv) The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CER</p>
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	<p>activities like solar street lights, battery, solar panel etc., in the nearby villages. The action plan shall be completed within time as proposed.</p> <p>(xiv) There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products as per CPCB norms and no parking to be allowed outside on public places</p> <p>(xv) Storage of raw materials shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.</p> <p>(xvi) Continuous online (24x7) monitoring system for stack emissions 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.</p> <p>(xvii) 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</p>	<p>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.</p> <p>(v) The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/pollution control measures shall not be diverted for any other purpose.</p> <p>(vi) 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.</p> <p>(vii) 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</p>
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	<p>functions</p> <p>B. General condition:</p> <p>(i) No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA, as applicable. In case of deviations or alterations in the project proposal from those submitted to 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.</p> <p>(ii) The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.</p> <p>(iii) The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic 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).</p>	<p>website of the company.</p> <p>(viii) 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.</p> <p>(ix) 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.</p> <p>(x) 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.</p> <p>(xi) This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT</p>
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	<p>(iv) 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.</p> <p>(v) The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/pollution control measures shall not be diverted for any other purpose.</p> <p>(vi) 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.</p>	<p>and any other Court of Law, if any, as may be applicable to this project.</p>
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	<p>(vii) 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.</p> <p>(viii) 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.</p> <p>(ix) 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</p>	
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		<p>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.</p> <p>(x) 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.</p> <p>(xi) 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</p>	
	21.	<p>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</p>	<p>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</p>
	22.	<p>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</p>	<p>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</p>

		clearance and attract action under the provisions of Environment (Protection) Act, 1986.	action under the provisions of 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.	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.	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.	This issues with the approval of the competent authority.
B	DISTILLERY		
	1.	This has reference to your online proposal No. IA/KA/IND2/222242/2021, dated 09th August, 2021 for environmental clearance to the above mentioned project.	This has reference to online proposal No. IA/KA/IND2/293136/2022, for Amendment in Environmental Clearance Condition the Distillery Environmental Clearance Condition are mentioned.
	2.	The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the proposed integrated expansion of sugar plant from 5,000 TCD to 10,000 TCD, Distillery unit from 65 KLPD to 400 KLPD using C-heavy molasses / B-heavy molasses / sugar syrup / grains as feedstock and a new Captive power plant capacity of 8 MW under Ethanol blended with Petrol (EBP) program at Bagalkot,	The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the proposed integrated expansion of Distillery unit from 65 KLPD to 400 KLPD using C-heavy molasses / B-heavy molasses / sugar syrup / grains as feedstock and a new Captive power plant capacity of 8 MW under Ethanol blended with Petrol (EBP) program at Bagalkot, Karnataka by TruAlt Bioenergy Limited (Unit -3)

		Karnataka by M/s MRN Cane Power (India) Limited.				
3.		The project activities are covered under category A of item 5 (g) 'Distilleries' and 5 (j) Sugar Industry of the Schedule to the EIA, 2006 and requires appraisal at central level by the sectoral Expert Appraisal Committee (EAC). The proposal has been submitted under the Ministry's EIA Notification, 2006 amendment vide Notification no. S.O. 345(E) dated 17th January 2019 & extensions given to it vide notifications S.O. 750(E) dated 17th February 2020, S.O 980(E) dated 2nd March, 2021. Accordingly, the proposal shall be appraised as category 'B2' project. It was informed that no litigation is pending against the proposal				The project activities are covered under category A of item 5 (g) 'Distilleries' of the Schedule to the EIA, 2006 and requires appraisal at central level by the sectoral Expert Appraisal Committee (EAC). The proposal has been submitted under the Ministry's EIA Notification, 2006 amendment vide Notification no. S.O. 345(E) dated 17th January 2019 & extensions given to it vide notifications S.O. 750(E) dated 17th February 2020, S.O 980(E) dated 2nd March, 2021. Accordingly, the proposal shall be appraised as category 'B2' project. It was informed that no litigation is pending against the proposal.
4.		Ministry had issued EC earlier vide letter No. J-11011/411/2014-IA II (I) dated 29.08.2016 to the existing project for setting up of integrated industry with Sugar unit of 5000 TCD, Co-generation Power Plant of 35 MW and Distillery unit of 65 KLD capacity in favour of M/s. MRN Cane Power (India) Limited. It was informed that no litigation is pending against the proposal.				Ministry had issued EC earlier vide letter No. J-11011/411/2014-IA II (I) dated 29.08.2016 to the existing project for setting up of integrated industry with d Distillery unit of 65 KLD capacity in favour of TruAlt Bioenergy Limited (Unit -3). It was informed that no litigation is pending against the proposal
5.		The details of products and capacity are as under: -				The details of products and capacity are as under: -
		Si . no	Unit Type	Existing Product	Proposed expansion	Scenario after expansion
		1	Sugar Plant	5000 TCD	5000 TCD	10000 TCD sugar cane crushing
		1	Distillery	65 KLD distillery unit Raw material is C-Heavy molasses	335 KLD distillery unit Raw material is C-Heavy molasses / BHeavy molasses	The operating scenarios are: 400 KLPD Ethanol [OR] 65 KLPD

				capacit y				/ Sugar syrup / Grains	RS/ENA + 335 KLPD Ethanol Raw material is C- Heavy molasses / B- Heavy molasses / sugar syrup / Grains
2	Co- generat ion plant	35 MW	-	35 MW of Co- generat ion plant					
3	Distiller y	65 KLD distille ry unit Raw materi al is C- Heavy molas ses	335 KLD distiller y unit Raw materi al is C- Heavy molass es / BHeav y molass es / Sugar syrup / Grains	The operati ng scenari os are: 400 KLPD Ethanol [OR] 65 KLPD RS/ENA + 335 KLPD Ethanol Raw material is C- Heavy molass es / B- Heavy molass es / sugar syrup / Grains					
2	Captive power attache d to distillery	-		8 MW				8 MW	To install a new Captive Power Plant of 8 MW capacity
4	Captive power attache d to distiller y	-	8 MW	To install a new Captive Power Plant of 8 MW capacit y					

6.	Existing land area is 503710 m ² (124 Acres 19 Guntas) ; Out of which land converted for industrial use is 412450 m ² (101 Acres 37 Guntas) and remaining 91260 m ² (22 Acres 22 Guntas) is agricultural land used for R&D. Proposed expansion shall be within the existing land available for industrial use. Industry has already developed greenbelt in an area of 33 % i.e., 137800 m ² (34 Acres 02 Guntas) out of total area of the project	Existing land area 503710 m ² (124 Acres 19 Guntas)out of which Distillery is developed in an area of 12 Acres and 26 gunta. Proposed amendment is Out of land converted for industrial use is 412450 m ² (101 Acres 37 Guntas) Distillery is developed in an area of 12 Acres. Industry has already developed greenbelt in an area of 33 % i.e., 137800 m ² (34 Acres 02 Guntas) out of total area of the project.	
7.	The estimated project cost is Rs. 830.47 crores including existing investment of Rs. 590.47 crores. Total capital cost earmarked towards environmental pollution control measures after expansion is Rs. 41.92 crores and the recurring cost (operation and maintenance) shall be Rs. 0.93 crores per annum. Total employment shall be 372 persons as direct & 66 persons indirect after expansion. Industry proposes to allocate Rs 2.4 crores towards Corporate Environment Responsibility	The estimated project cost is Rs. 361.88 crores including existing investment of Rs. 135.88 crores. Total capital cost earmarked towards environmental pollution control measures after expansion is Rs. 41.92 crores and the recurring cost (operation and maintenance) shall be Rs. 0.93 crores per annum. Total employment shall be shall be 372 persons as direct & 66 persons indirect after expansion	
8.	There are no national parks, wild life sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wild life Corridors etc. within 10 km distance from the project site. River Malaprabha is flowing at a distance of 6 km in South direction	There are no national parks, wild life sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wild life Corridors etc. within 10 km distance from the project site. River Malaprabha is flowing at a distance of 6 km in South direction.	
9.	As PUC is a B2 project baseline ambient air quality monitoring is not required. However, ambient air quality monitoring is carried out by the industry as per the conditions of the Consent issued by KSPCB. The monitoring data during December 2020 indicate PM10	As PUC is a B2 project baseline ambient air quality monitoring is not required. However, ambient air quality monitoring is carried out by the industry as per the conditions of the Consent issued by KSPCB. The monitoring data during December 2020 indicate PM10 (86.02 µg/m ³), PM2.5 (41.28 µg/m ³), SO ₂	

	(86.02 µg/m ³), PM _{2.5} (41.28 µg/m ³), SO ₂ (6.74 µg/m ³) and NO _x (13.09 µg/m ³). AAQ modeling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 3.58 µg/m ³ , 1.48 µg/m ³ and 0.95 µg/m ³ with respect to PM ₁₀ , SO ₂ and NO _x respectively. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS)	(6.74 µg/m ³) and NO _x (13.09 µg/m ³). AAQ modeling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 3.58 µg/m ³ , 1.48 µg/m ³ and 0.95 µg/m ³ with respect to PM ₁₀ , SO ₂ and NO _x respectively. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).																																																																							
10.	<p>Total water requirement in Sugar & Co-Generation Plant and distillery unit is given in the Table below and fresh water shall be met from Malaprabha Rive:</p> <table border="1"> <thead> <tr> <th colspan="5">Fresh water requirement by sugar and Co-generation plant</th> </tr> <tr> <th>S I. N o</th> <th>Particula r</th> <th>Fres h Water in KLD</th> <th>Recycl ed water in KLD</th> <th>Total Water Require ment in KLD</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Sugar Plant of 10000 TCD & Co-Gen Plant of 35 MW</td> <td>660</td> <td>1710</td> <td>2370</td> </tr> </tbody> </table> <p>(Fresh water requirement by Distillery Unit & Captive Power Plant:</p> <table border="1"> <thead> <tr> <th>S I. N o</th> <th>Combina tion of producti on in 400 KLPD Distillery</th> <th>Fres h Water in KLD</th> <th>Fresh Water kL/kL of Ethanol</th> <th>Recycled water in KLD</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Using C-Heavy Molasses</td> <td>1404</td> <td>3.51</td> <td>2245</td> </tr> <tr> <td>2</td> <td>Using B-Heavy Molasses</td> <td>1255</td> <td>3.14</td> <td>2402</td> </tr> <tr> <td>3</td> <td>Using sugar syrup</td> <td>946</td> <td>2.37</td> <td>2594</td> </tr> </tbody> </table>	Fresh water requirement by sugar and Co-generation plant					S I. N o	Particula r	Fres h Water in KLD	Recycl ed water in KLD	Total Water Require ment in KLD	1	Sugar Plant of 10000 TCD & Co-Gen Plant of 35 MW	660	1710	2370	S I. N o	Combina tion of producti on in 400 KLPD Distillery	Fres h Water in KLD	Fresh Water kL/kL of Ethanol	Recycled water in KLD	1	Using C-Heavy Molasses	1404	3.51	2245	2	Using B-Heavy Molasses	1255	3.14	2402	3	Using sugar syrup	946	2.37	2594	<p>Total water requirement in Sugar & Co-Generation Plant is given in the Table below and fresh water shall be met from Malaprabha River:</p> <table border="1"> <thead> <tr> <th colspan="6">Fresh water requirement by Distillery Unit & Captive Power Plant:</th> </tr> <tr> <th>S I. N o</th> <th>Combina tion of producti on in 400 KLPD Distillery</th> <th>Fres h Water in KLD</th> <th>Fres h Water kL/kL of Ethanol</th> <th>Recycl ed water in KLD</th> <th>Total Water Require ment in KLD</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Using C-Heavy Molasses</td> <td>1404</td> <td>3.51</td> <td>2245</td> <td>3649</td> </tr> <tr> <td>2</td> <td>Using B-Heavy Molasses</td> <td>1255</td> <td>3.14</td> <td>2402</td> <td>3657</td> </tr> <tr> <td>3</td> <td>Using sugar syrup</td> <td>946</td> <td>2.37</td> <td>2594</td> <td>3540</td> </tr> <tr> <td>4</td> <td>Using Grains</td> <td>1090</td> <td>2.73</td> <td>2495</td> <td>3585</td> </tr> </tbody> </table> <p>Domestic use - Distillery: 10 KLD</p> <p>Domestic Sewage of 8.5 KLD form S Distillery unit shall be treated in septic tank followed by soak pits.</p> <p>In Distillery Unit & Captive Power Plant: The raw spent wash of 2400 KLD (6 kL/kL of Alcohol) generated from C-Heavy / B-Heavy / Syrup shall be stored in spent wash lagoons and shall be concentrated</p>	Fresh water requirement by Distillery Unit & Captive Power Plant:						S I. N o	Combina tion of producti on in 400 KLPD Distillery	Fres h Water in KLD	Fres h Water kL/kL of Ethanol	Recycl ed water in KLD	Total Water Require ment in KLD	1	Using C-Heavy Molasses	1404	3.51	2245	3649	2	Using B-Heavy Molasses	1255	3.14	2402	3657	3	Using sugar syrup	946	2.37	2594	3540	4	Using Grains	1090	2.73	2495	3585
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Domestic use - Sugar & Co-gen plant: 10 KLD					
Gardening= 40 KLD					
<p>Domestic Sewage of 8 KLD from Sugar plant and 8.5 KLD from Distillery unit shall be treated in septic tank followed by soak pits. In Sugar & Co-Generation Plant: Excess condensate water generated from sugarcane process is 1166 KLD. The other effluents viz. process cooling tower blowdown of 770 KLD, Co-Gen cooling tower blowdown of 195 KLD, Boiler blowdown of 70 KLD and DM regenerated of 184 KLD shall be treated in Sugar plant CPU of 2400 KLD capacity. Treated water from CPU shall be reused for process makeup, CoGen CT makeup and remaining quantity along with sugar process effluent of 453 KLD treated in the sugar ETP of 1000 KLD capacity shall be used for greenbelt development and for agriculture on land of 22 acres owned by the company director. In Distillery Unit & Captive Power Plant: The raw spent wash of 2400 KLD (6 kL/kL of Alcohol) generated from C-Heavy / B-Heavy / Syrup shall be stored in spent wash lagoons and shall be concentrated by evaporation in MEE. Concentrated Spent wash generated from distillery using C-Heavy Molasses shall be 713 KLD (1.78 kL/kL of Alcohol) or B-Heavy Molasses of 612 KLD (1.53 kL/kL of Alcohol) or Syrup of 408 KLD (1.02 kL/kL of Alcohol) and shall be used as fuel in the incineration boiler. Raw spent wash 2400 KLD (6 kL/kL of Alcohol) generated from distillery using grain as feedstock</p>					<p>Condensate from MEE and spent lees shall be treated along with other lean effluents viz., DM regenerate, boiler blowdown, cooling tower bleed, Lab washings, Scrubber in distillery CPU. The existing distillery CPU of 1470 KLD shall be upgraded to 2500 KLD capacity after expansion. The treated water from distillery CPU shall be recycled to process, cooling tower makeup and CO2 scrubber. ZLD concept shall be followed in distillery unit</p>

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	11.	Power requirement after expansion shall be 16 MW and 4.5 MW for sugar plant and distillery unit respectively and shall be met from Co-Generation plant and Captive power plant. Existing unit has one 1250 kVA DG set and no DG set is proposed in expansion proposal. In the existing sugar plant, there is one 165 TPH Co-Gen Boiler using Bagasse as fuel with ESP and a stack of height 85 m as APC measure. For the distillery, one 52 TPH incinerator boiler using Concentrated spent wash supported with Bagasse as fuel is attached to Bag filter and a stack of height 85 m. Existing APC are sufficient for controlling the particulate emissions within the statutory limit of 115 mg/Nm3 even after expansion	Power requirement after expansion shall be 16 MW For the distillery, one 52 TPH incinerator boiler using Concentrated spent wash supported with Bagasse as fuel is attached to Bag filter and a stack of height 85 m. Existing APC are sufficient for controlling the particulate emissions within the statutory limit of 115 mg/Nm3 even after expansion						
	12.	Details of Process emissions generation and its management	Details of Process emissions generation and its management:- CO2 from fermentation shall be recovered by a dedicated CO2 bottling plant.						
	13.	Details of Solid waste/Hazardous waste generation and its management:	Details of Solid waste/Hazardous waste generation and its management: <table border="1" data-bbox="847 1843 1406 1881"> <thead> <tr> <th>Solid Waste</th> <th>Quantity in</th> <th>Mode of Disposal</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Solid Waste	Quantity in	Mode of Disposal			
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		Solid waste			T/Day		
		Quantity in T/Day	Mode of disposal				
		Bagasse Press mud	3200	Used as fuel in boilers.	Boiler ash - Distillery	35-45	Boiler ash to be handed over to fertilizer industry for value addition to fertilizer
		Press mud	360	Raw material for composting.	ETP Sludge	5-10	
		Boiler ash - Co-gen	35-45	Boiler ash to be handed over to fertilizer industry for value addition to fertilizer	Yeast Sludge	45 - 50	
		Boiler ash - Distillery	35-45				
		Yeast Sludge	45 - 50				
		ETP Sludge	5-10				
		Lime Sludge	10-12	Used for Land filling	Lime Sludge	10-12	Used for Land filling
	14.	Certified compliance report has been issued by IRO, Bangalore vide File No. EP/12.1/2016-17/04/KAR/110 dated 19.01.2021 and found status of compliance to be 'Satisfactory'			Certified compliance report has been issued by IRO, Bangalore vide File No. EP/12.1/2016-17/04/KAR/110 dated 19.01.2021 and found status of compliance to be 'Satisfactory'.		
	15.	As per OM dated 16th June, 2021, PP has submitted self-certification in the form of affidavit declaring that the proposed expansion of 335 KLPD will be for manufacturing of fuel ethanol only.			As per OM dated 16th June, 2021, PP has submitted self-certification in the form of affidavit declaring that the proposed expansion of 335 KLPD will be for manufacturing of fuel ethanol only.		
	16.	The proposal was considered by the EAC in its 39th meeting held during 17th18th August, 2021 in the Ministry, wherein the project proponent and their consultant M/s. Samrakshan presented the EMP report as per the PFR. The Committee found the EMP report complying with the PFR and recommended the project for grant of environmental clearance			The proposal was considered by the EAC in its 39th meeting held during 17th18th August, 2021 in the Ministry, wherein the project proponent and their consultant M/s. Samrakshan presented the EMP report as per the PFR. The Committee found the EMP report complying with the PFR and recommended the project for grant of environmental clearance.		
	17.	The EAC, constituted under the provision of the EIA Notification, 2006 and comprising of Experts			The EAC, constituted under the provision of the EIA Notification, 2006 and comprising of Experts Members/domain		

	Members/domain experts in various fields, have examined the proposal submitted by the Project Proponent in desired form along with EIA/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 EIA/EMP 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	experts in various fields, have examined the proposal submitted by the Project Proponent in desired form along with EIA/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 EIA/EMP 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 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.	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	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

	<p>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</p>	<p>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.</p>
20.	<p>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 for project proposed integrated expansion of sugar plant from 5,000 TCD to 10,000 TCD, Distillery unit from 65 KLPD to 400 KLPD using C-heavy molasses / B-heavy molasses / sugar syrup / grains as feedstock and a new Captive power plant capacity of 8 MW under Ethanol blended with Petrol (EBP) program at Bagalkot, Karnataka by M/s MRN Cane Power (India) Limited, under the provisions of the EIA Notification, 2006, and the amendments therein, subject to compliance of the terms and conditions as under: -</p> <p>A. Specific condition:</p> <p>(i) As per OM dated 16th June, 2021, project falls in category B2 and the proposed additional capacity of 335 KLPD shall be only be used for fuel ethanol manufacturing as per self-certification in form of an affidavit by the Project</p>	<p>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 for project proposed integrated expansion of Distillery unit from 65 KLPD to 400 KLPD using C-heavy molasses / B-heavy molasses / sugar syrup / grains as feedstock and a new Captive power plant capacity of 8 MW under Ethanol blended with Petrol (EBP) program at TruAlt Bioenergy Limited (Unit -3), under the provisions of the EIA Notification, 2006, and the amendments therein, subject to compliance of the terms and conditions as under: -</p> <p>A. Specific condition:</p> <p>(i) As per OM dated 16th June, 2021, project falls in category B2 and the proposed additional capacity of 335 KLPD shall be only be used for fuel ethanol manufacturing as per self-certification in form of an 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 EBP Programme, or if ethanol is not being produced, or if the said distillery is not fulfilling the</p>

	<p>Proponent</p> <p>(ii) The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.</p> <p>(iii) The project proponent will treat and reuse the treated water within the integrated industry and no waste or treated water shall be discharged outside the premises.</p> <p>(iv) Total fresh water requirement for the integrated industry shall not exceed be 2124 KLPD which shall be met from Malaprabha river. Prior permission shall be obtained from the concerned regulatory authority/Irrigation division in this regard, and renewed from time to time. No ground water recharge shall be permitted within the premises. Rainwater shall be collected in storage ponds and utilized for plant activities. Ground water monitoring shall be done regularly and report is to be submitted to concerned authorities regularly.</p> <p>(v) The spent wash shall be concentrated by evaporation in MEE and and shall be</p>	<p>requirements based on which the project has been appraised as category B2 project, the EC shall stand cancelled.</p> <p>(ii) The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.</p> <p>(iii) The project proponent will treat and reuse the treated water within the integrated industry and no waste or treated water shall be discharged outside the premises.</p> <p>(iv) Total fresh water requirement for the integrated industry shall not exceed be 2124 KLPD which shall be met from Malaprabha river. Prior permission shall be obtained from the concerned regulatory authority/Irrigation division in this regard, and renewed from time to time. No ground water recharge shall be permitted within the premises. Rainwater shall be collected in storage ponds and utilized for plant activities. Ground water monitoring shall be done regularly and report is to be submitted to concerned authorities regularly.</p> <p>(v) The spent wash shall be concentrated by evaporation in MEE and and shall be used as fuel in the incineration boiler.</p> <p>(vi) CO2 generated from the process shall be bottled/made solid ice and utilized/sold to authorized vendors</p> <p>(vii) Occupational Health Centre for</p>
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	<p>used as fuel in the incineration boiler.</p> <p>(vi) CO₂ generated from the process shall be bottled/made solid ice and utilized/sold to authorized vendors.</p> <p>(vii) 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.</p> <p>(viii) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees.</p> <p>(ix) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms.</p> <p>(x) Process organic residue and spent carbon, if any, shall be sent to Cement other suitable industries for its incinerations. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF.</p> <p>(xi) The company shall undertake waste minimization measures as below (a) Metering and control of quantities of</p>	<p>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.</p> <p>(viii) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees.</p> <p>(ix) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms.</p> <p>(x) Process organic residue and spent carbon, if any, shall be sent to Cement other suitable industries for its incinerations. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF.</p> <p>(xi) 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.</p> <p>(xii) The green belt of at least 5-10 m width shall be developed in nearly 33% of the total project area, mainly along the plant periphery. Selection of plant species shall be</p>
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	<p>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.</p> <p>(xii) The green belt of at least 5-10 m width shall be developed in nearly 33% of the total project area, mainly along the plant periphery. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department. Records of tree canopy shall be monitored through remote sensing map.</p> <p>(xiii) As per the Ministry's OM dated 30.09.2020 superseding the OM dated 01.05.2018 regarding the Corporate Environmental Responsibility, and as per the action plan proposed by the project proponent to address the socio-economic and environmental issues in the study area, the project proponent, as committed, shall provide education funds in technical training centers/ support in nearby village's schools, support in health care facilities,</p>	<p>as per the CPCB guidelines in consultation with the State Forest Department. Records of tree canopy shall be monitored through remote sensing map.</p> <p>(xiii) As per the Ministry's OM dated 30.09.2020 superseding the OM dated 01.05.2018 regarding the Corporate Environmental Responsibility, and as per the action plan proposed by the project proponent to address the socio-economic and environmental issues in the study area, the project proponent, as committed, shall provide education funds in technical training centers/ support in nearby village's schools, support in health care facilities, drinking water supply and funds for miscellaneous activities like solar street lights, battery, solar panel etc., in the nearby villages. The action plan shall be completed within time as proposed.</p> <p>(xiv) There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products as per CPCB norms and no parking to be allowed outside on public places.</p> <p>(xv) Storage of raw materials shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.</p> <p>(xvi) Continuous online (24x7) monitoring system for stack emissions 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</p>
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	<p>carry out the Environmental Management and Monitoring functions</p> <p>B. General condition:</p> <p>(i) No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA, as applicable. In case of deviations or alterations in the project proposal from those submitted to 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.</p> <p>(ii) The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.</p> <p>(iii) The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic 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</p>	<p>the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).</p> <p>(iv) 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.</p> <p>(v) The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/pollution control measures shall not be diverted for any other purpose.</p> <p>(vi) 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.</p> <p>(vii) 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</p>
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	<p>(day time) and 70 dBA (night time).</p> <p>(iv) 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.</p> <p>(v) The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/pollution control measures shall not be diverted for any other purpose.</p> <p>(vi) 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,</p>	<p>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.</p> <p>(viii) 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.</p> <p>(ix) 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.</p> <p>(x) The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the</p>
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	<p>were received while processing the proposal.</p> <p>(vii) 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.</p> <p>(viii) 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.</p> <p>(ix) 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</p>	<p>project by the concerned authorities and the date of start of the project.</p> <p>(xi) 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.</p>
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		<p>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.</p> <p>(x) 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.</p> <p>(xi) 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</p>	
	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 implementation of any of the above conditions is not found satisfactory	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.
	22.	Concealing factual data or submission of false/fabricated data and failure to comply with any of	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions

		the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	mentioned above may result in withdrawal of this clearance and attract action under the provisions of 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.	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.	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.	This issues with the approval of the competent authority

JUSTIFICATION: Amendment in Environmental clearance by splitting the Environmental Clearance issued for Proposed expansion of sugar plant from 5,000 TCD to 10,000 TCD, Distillery unit from 65 KLPD to 400 KLPD using C heavy molasses / B-heavy molasses /sugar syrup / grains as feedstock and a new Captive power plant capacity of 8 MW under Ethanol blended with Petrol (EBP) program. The distillery unit portion of the EC requested to transfer from M/s. MRN Cane power (India) Limited to M/s. TruAlt Bioenergy Limited (Unit -3).

After deliberations, EAC **recommended** for transfer of distillery unit from M/s. MRN Cane Power (India) Limited to M/s. TruAlt Bioenergy Limited (Unit -3) located at Khallapur Village, Kulegeri, Hobali, Badami Tq. Bagalkot Dist. by bifurcating the existing ECs as proposed by the project proponent subject to the following additional condition:

- 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 12th August, 2021. A report along with photographs on the measures taken shall also be included in the six-monthly compliance report being submitted to concerned authority.

However, all other general terms & conditions and validity as mentioned in EC vide file no. J-11011/312/2021-IA II(I) dated 21st September, 2021 shall remain unchanged.

Agenda No. 04

Greenfield Project of Grain Based Distillery Plant of 200 KLD (2 Phase x 100 KLD) and Cogeneration Power Plant of 6.0 MW (2 Phase x 3 MW) located near Vill. Bhedra Nawagaon, Block- Rajnandgaon, Dist- Rajnandgaon of Chhattisgarh State by M/s. Nav Durga Fuel (P) Limited – Consideration of Environmental Clearance

[IA/CG/IND2/402306/2022, IA-J-11011/428/2022-IA-II(I)]

The Project Proponent and the accredited Consultant M/s. Enviro Infra Solutions Pvt. Ltd., Ghaziabad, (NABET Certificate No. NABET/EIA/2123/SA 0181/Rev.01 and validity 22nd Feb.'2023) made a detailed presentation on the salient features of the project and informed that the proposal is for environmental clearance to the project 200 KLPD Grain Based Ethanol Plant and 6 MW Cogeneration Power Plant (Fuel to be use Rice Husk / Biomass Briquette) located near Vill. Bhedra Nawagaon, Block- Rajnandgaon, Dist- Rajnandgaon of Chhattisgarh State by M/s. Nav Durga Fuel (P) Limited (NDFPL).

As per the MoEF&CC Notification S.O. 2339(E), dated 16th June, 2021, a special provision in the EIA Notification, 2006-(Schedule 5 (ga), Category B2) is made, wherein for all applications made for Grain based distilleries with Zero Liquid Discharge producing ethanol; solely to be used for Ethanol Blended Petrol Programme of the Government of India shall be considered under B2 Category and appraised at Central Level by Expert Appraisal

Committee (EAC) with condition that the project proponent shall file a notarized affidavit that ethanol produced from proposed project shall be used completely for EBP Programme.

The details of products and capacity as under:

S. No.	Name of Unit	Name of Product / By Product	Production Capacity
1	Distillery (Broken Rice / Maize raw material)	Ethanol	200 KLPD
2	Power Cogeneration	Power	6.0 MW
3	DDGS Dryer	DDGS	160 TPD
4	Fermentation Unit	CO ₂	160 TPD

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

Total land area required is 12.97 Hectares. Greenbelt will be developed in total area of 4.44 hectares i.e., 33 % of total project area. The estimated project cost is Rs. 273 Crores. Capital cost of EMP would be Rs. 8.95 Crores and recurring cost for EMP would be Rs. 2.7 Crores per annum. Industry proposes to allocate Rs. 2.75 Crores towards Extended EMP (Corporate Environment Responsibility). Total Employment will be 70 persons as direct & indirect.

There are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km distance. There are no Reserve forests/protected forests within 10 Km. radius . Water bodies: River Shivnath is at a distance of 20 Km in E direction.

AAQ modelling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 2.41 µg/m³, 1.2 µg/m³, 0.81 µg/m³ and 0.97 µg/m³ with respect to PM10, PM2.5, SO2 and NOX. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

Total fresh water requirement will be 800 m³/day which will be met from Borewells within premises. Application has been submitted to CGWA vide Application No. 21-4/7375/CT/IND/2022 Dt: 28.09.2022. Effluent (Condensate/spent lees/blowdown etc.) of 470 m³/day quantity will be treated through Condensate Polishing Unit/Effluent Treatment Plant of capacity 1200 m³/day. Raw stillage (1586 KLPD :quantity of raw spent wash from distillation) will be sent to decanter followed by MEE and dryer to produce DDGS. STP of capacity 25 KLPD will be installed to treat sewage generated from factory premises. The plant will be based on Zero Liquid discharge system and no effluent/treated water will be discharged outside factory premises.

Power requirement will be 6 MW and will be met from proposed 6 MW cogeneration power plant. 32 TPH Rice husk/briquette fired boiler will be installed. APCE ESP with a stack height of 60 m will be installed for controlling the particulate emissions within the statutory limit of 50 mg/Nm³ for the proposed boiler. 2 Nos. 1000 KVA and 1 No. 500 kVA DG set will be used as standby during power failure and stack height (3.5 m. above roof of the building) will be provided as per CPCB norms to the proposed DG sets.

Details of Process emissions generation and its management:

- APCE ESP with a stack height of 60 meters will be installed for controlling the particulate emissions.
- Online Continuous Emission Monitoring System will be installed with the stack and data will be transmitted to CPCB/SPCB servers.
- CO₂ (160 TPD) generated during the fermentation process will be collected by utilizing CO₂ scrubbers and it shall be sold to authorized vendors/collected in proposed bottling plant.

Details of solid waste/Hazardous waste generation and its management:

- DDGS (Distilled Dried Grains Stillage) (160 TPD) will be sold as cattle feed / fish feed / prawn feed.
- Boiler ash (85 TPD) will be supplied to fly ash brick manufacturers
- Used oil (0.5 Kilolitres per annum) will be sold to authorized recyclers.

- CPU sludge (0.1 TPD) and STP Sludge (0.025 TPD) will be used as manure.

As per Notification S.O 2339(E), dated 16th June, 2021, PP has submitted self certification in the form of notarized affidavit declaring that the proposed capacity of 200 KLPD will be used for manufacturing fuel ethanol only.

Total land of 12.97 Hectares is under possession of the company and land use conversion application has been submitted to Office of SDO (Revenue), Rajnandgaon, Chhattisgarh dated 02.08.2022.

During deliberations, EAC discussed following issues:

- (i). PP clarified that plot area proposed for the project is 13.47 ha. Accordingly, plot area to be considered as 13.47 ha instead of 12.97 ha.
- (ii). PP informed that 13.47 ha land is acquired as three pieces/portion of land. However, Ownership document was presented only for one piece of land. PP was not able to provide evidence of acquisition of all three piece of land.
- (iii). PP informed that 25 grown up mango trees are located in the proposed project site, which shall be retained. Accordingly, the Committee suggested that PP shall submit revised layout plan retaining the existing mango trees.

Accordingly, the Committee deferred the project proposal and proposal will be appraised in totality after submission of the above mentioned information on the Parivesh Portal.

Agenda No. 05

Greenfield Project of Grain Based Distillery Plant of 200 KLD (2 Phase x 100 KLD) and Cogeneration Power Plant of 6.0 MW (2 Phase x 3 MW) located near Vill. Paraghat Block- Masturi, Dist- Bilaspur of Chhattisgarh State by of M/s. Rashi Steel & Power Limited – Consideration of Environmental Clearance

[IA/CG/IND2/402441/2022, IA-J-11011/436/2022-IA-II(I)]

The Project Proponent and the accredited Consultant M/s Enviro Infra Solutions Pvt. Ltd., Ghaziabad, (NABET Certificate No. NABET/EIA/2123/SA 0181/Rev.01 and validity 22nd Feb.'2023) made a detailed presentation on the salient features of the project and informed that the proposal is for environmental clearance to the project 200 KLPD Grain Based Ethanol Plant and 6 MW Cogeneration Power Plant (Fuel to be use Rice Husk / Biomass Briquette) located near Vill. Paraghat, Block- Masturi, Dist- Bilaspur of Chhattisgarh State by M/s. Rashi Steel & Power Limited (RSPL).

As per the MoEF&CC Notification S.O. 2339(E), dated 16th June, 2021, a special provision in the EIA Notification, 2006-(Schedule 5 (ga), Category B2) is made, wherein for all applications made for Grain based distilleries with Zero Liquid Discharge producing ethanol; solely to be used for Ethanol Blended Petrol Programme of the Government of India shall be considered under B2 Category and appraised at Central Level by Expert Appraisal Committee (EAC) with condition that the project proponent shall file a notarized affidavit that ethanol produced from proposed project shall be used completely for EBP Programme.

The details of products and capacity as under:

S. No.	Name of Unit	Name of Product / By Product	Production Capacity
1	Distillery (Broken Rice / Maize raw material)	Ethanol	200 KLPD
2	Power Cogeneration	Power	6.0 MW
3	DDGS Dryer	DDGS	160 TPD
4	Fermentation Unit	CO ₂	160 TPD

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

Total land area required is 9.218 Hectares. Greenbelt will be developed in total area of 3.04 hectares i.e., 33 % of total project area. The estimated project cost is Rs. 220 Crores. Capital cost of EMP would be Rs. 8.95 Crores and recurring cost for EMP would be Rs. 2.7 Crores per annum. Industry

proposes to allocate Rs. 2.20 Crores towards Extended EMP (Corporate Environment Responsibility). Total Employment will be 70 persons as direct & indirect.

There are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km distance. There are no Reserve forests/protected forests within 10 Km. radius. Water bodies: River Lilagar is at a distance of 8 Km in E direction.

AAQ modelling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be $2.41 \mu\text{g}/\text{m}^3$, $1.3 \mu\text{g}/\text{m}^3$, $1.67 \mu\text{g}/\text{m}^3$ and $1.76 \mu\text{g}/\text{m}^3$ with respect to PM10, PM2.5, SO2 and NOX. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

Total fresh water requirement will be $800 \text{ m}^3/\text{day}$ which will be met from Borewells within premises. Application has been submitted to CGWA vide Application No. 21-4/7375/CT/IND/2022 Dt: 28.09.2022. Effluent (Condensate/spent lees/blowdown etc.) of $470 \text{ m}^3/\text{day}$ quantity will be treated through Condensate Polishing Unit/Effluent Treatment Plant of capacity $1200 \text{ m}^3/\text{day}$. Raw stillage (1586 KLPD :quantity of raw spent wash from distillation) will be sent to decanter followed by MEE and dryer to produce DDGS. STP of capacity 25 KLPD will be installed to treat sewage generated from factory premises. The plant will be based on Zero Liquid discharge system and no effluent/treated water will be discharged outside factory premises.

Power requirement will be 6 MW and will be met from proposed 6 MW cogeneration power plant. 32 TPH Rice husk/briquette fired boiler will be installed. APCE ESP with a stack height of 60 m will be installed for controlling the particulate emissions within the statutory limit of $50 \text{ mg}/\text{Nm}^3$ for the proposed boiler. 2 Nos. 1000 kVA and 1 No. 500 kVA DG set will be used as standby during power failure and stack height (3.5 m. above roof of the building) will be provided as per CPCB norms to the proposed DG sets.

Details of Process emissions generation and its management:

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- CO₂ (160 TPD) generated during the fermentation process will be collected by utilizing CO₂ scrubbers and it shall be sold to authorized vendors/collected in proposed bottling plant.

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- Used oil (0.5 Kilolitres per annum) will be sold to authorized recyclers.
- CPU sludge (0.1 TPD) and STP Sludge (0.025 TPD) will be used as manure.

As per Notification S.O 2339(E), dated 16th June, 2021, PP has submitted self certification in the form of notarized affidavit declaring that the proposed capacity of 200 KLPD will be used for manufacturing fuel ethanol only.

Total land of 9.218 Hectares is under possession of the company and land use conversion for use of land for industrial purposes has been done by Office of SDO (Revenue), Bilaspur, Chhattisgarh dated 05.10.2021.

During deliberations, EAC discussed following issues:

- (i). NOC from irrigation department shall be submitted for seasonal Nalla which is located at a distance of 60 m from the project site.
- (ii). RL of the project site obtained concerned authority.
- (iii). Presently PP has informed that they will take ground water from the Sister company located certain distance away from the proposed project site. In this regard, Committee suggested that separate water drawl permission for the proposed project from the concerned authority needs to be obtained and copy of the application may be furnished for appraisal of proposal.

The Committee is of the view that the project is premature to consider at this stage as there is no source of water supply.

Accordingly proposal is return in present form.

ANNEXURE

GENERAL CONDITIONS FOR ENVIRONMENTAL CLEARANCE

- (i) No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA, as applicable. In case of deviations or alterations in the project proposal from those submitted to 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.
- (ii) The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.
- (iii) The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic 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).
- (iv) 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.
- (v) The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment

management/ pollution control measures shall not be diverted for any other purpose.

- (vi) A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, 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.
- (vii) 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.
- (viii) 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.
- (ix) 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.
- (x) 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.
- (xi) 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.

List of the Expert Appraisal Committee (Industry-2) members participated during Video Conferencing (VC) meeting

S. No.	Name and Address	Position
1.	Shri S. C. Mann	Chairman
2.	Dr. J. S. Sharma	Member
3.	Prof. Y. V. Rami Reddy	Member
4.	Dr. Sanjeev Chaudhari	Member
5.	Dr. Onkar Nath Tiwari	Member
6.	Shri. J.S. Kamyotra	Member
7.	Dr. Rahul Ramesh Rao Mungikar	Member
8.	Dr. Seshagiri Rao Ambati (IPE) (On e day 21.12.2022)	Member
9.	Dr. Sanjay V. Patil (VSI)	Member
10.	Dr. Siddhartha Singh (IMD)	Member
11.	Shri A. N. Singh, Scientist 'E'	Member Secretary
MoEFCC		
12.	Dr. Mahendra Phulwaria	Scientist 'C'
13.	Mr. Kanaka Teja	Research Assistant
