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File No: IA-J-11011/116/2024-IA-II(I)
Government of India
Ministry of Environment, Forest and Climate Change
IA Division



Dated 03/07/2024



To,

Sh. Babu Lal Choudhary
M/s OASIS GREENFUEL PRIVATE LIMITED
40-A, NA Road, Punjabi Bagh, New Delhi-110026, NEW DELHI, DELHI, 110026
oasisgreenfuel2023@gmail.com

Subject: Greenfield Project of "Grain Based Distillery Plant of 180 KLD along with Co-generation Power Plant of 4.5 MW" located at Village- Jalodi, Thikariya Kalan & Chhapawda, Tehsil- Taleda, District- Bundi, Rajasthan by M/s Oasis Greenfuel Private Limited – Consideration of Environment Clearance reg.

Sir/Madam,

This is in reference to your application for Grant of EC under the provision of the EIA Notification 2006-regarding in respect of project Greenfield Project of Grain Based Distillery Plant of 180 KLD along with Co-Generation Power Plant of 4.5 MW by M/s Oasis Greenfuel Private Limited submitted to Ministry vide proposal number IA/RJ/IND2/466573/2024 dated 20/03/2024.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC24C2505RJ5947384N
(ii) File No.	IA-J-11011/116/2024-IA-II(I)
(iii) Clearance Type	EC
(iv) Category	B2
(v) Project/Activity Included Schedule No.	5(g) Distilleries
(vi) Sector	Industrial Projects - 2
(vii) Name of Project	Greenfield Project of Grain Based Distillery Plant of 180 KLD along with Co-Generation Power Plant of 4.5 MW by M/s Oasis Greenfuel Private Limited
(viii) Name of Company/Organization	OASIS GREENFUEL PRIVATE LIMITED
(ix) Location of Project (District, State)	BUNDI, RAJASTHAN
(x) Issuing Authority	MoEF&CC
(xi) Applicability of General Conditions	no
(xii) Applicability of Specific Conditions	no

3. The Ministry of Environment, Forest and Climate Change has examined the proposal seeking environmental clearance for 180 KLD Grain Based Ethanol Plant along with 4.5 MW Co-generation Power Plant located at Village- Jalodi, Thikariya Kalan & Chhapawda, Tehsil- Taleda, District- Bundi, Rajasthan by M/s Oasis Greenfuel Private Limited.

4. 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.

5. The details of products and capacity are placed in Annexure-II.

6. Standard ToR and public Hearing conduction 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 pending against the project.

7. Total land available for project is 7.04 hectares. Greenbelt will be developed in total area of 2.32 hectares i.e., 33% of total project area. The estimated project cost is INR 206 Crore. Capital cost of EMP would be INR 31 Crores and recurring cost for EMP would be INR 5.75 Crores per annum. Industry proposes to allocate INR. 3.00 Crores towards Extended EMP (Corporate Environment Responsibility). Total Employment will be 101 persons as direct & indirect.

8. There are no national parks, wildlife sanctuaries, Wildlife Corridors etc. within 10 km distance. Jamitpura Distributary Canal is at 0.02 km in W direction, Chhapavada Minor Canal is at 1.2 km in SE direction, Sohl Nala is at 2 km in east direction, Talera Minor Canal is at 2.4 km in W direction, Talera Nadi is at 3.5 km in W direction, Ghora Pachhar Nadi is at 4.5 km in NW direction and Mangli Nadi is at 8 km in NW direction. Flood NOC has been obtained from Executive Engineer, Irrigation Division, Bundi dated 25.08.2023.

9. AAQ modelling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 0.11 µg/m³, 0.07 µg/m³, 2.74 µg/m³, 1.93 µg/m³ and 3.27 µg/m³ with respect to PM₁₀, PM_{2.5}, SO₂, NO₂ and CO respectively. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

10. Total fresh water requirement including CPP will be 720 m³/day which will be met from surface water. The application for permission of withdrawal of surface water has been submitted to PHED vide letter no. CE(SP)/PHED/Kota/2023-24 dated 22.08.2023. Effluent (Condensate/spent lees/blowdown etc.) of 760 m³/day quantity will be treated through Condensate Polishing Unit/Effluent Treatment Plant of capacity 1000 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.

11. Power requirement will be 4.0 MW and will be sourced from proposed 4.5 MW co- generation power plant. 45 TPH AFBC Boiler using Coal and Biomass Pellets as fuel fired boiler will be installed. ESP with stack height of 45 m will be installed for controlling the particulate emissions within the statutory limit of 30 mg/Nm³ for the proposed boiler. 2 DG set of 1500 kVA will be used as standby during power failure and stack height (13 m) will be provided as per CPCB norms to the proposed DG sets.

12. Details of Process emissions generation and its management:

- ESP with a stack height of 45 meters will be installed for controlling the particulate emissions within the statutory limit of 30 mg/Nm³ for the proposed boiler.
- Online Continuous Emission Monitoring System will be installed with the stack and data will be transmitted to CPCB/SPCB servers.
- CO₂ (120 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.

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

- DDGS (Distilled Dried Grains Stillage) (98 TPD) will be sold as cattle feed/fish feed/ prawn feed.
- Boiler ash (60 TPD) will be used for brick manufacturing in proposed brick manufacturing plant inside plant premises of capacity approx. 1.33 Cr. bricks per annum.
- Used oil (1.0 Kilolitres per annum) will be sold to authorized recyclers.
- ETP sludge (347 kg/day) and STP Sludge (2 kg/day) will be used as manure.

14. 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 180 KLPD will be used for manufacturing fuel ethanol only.

15. Total land is 7.04 ha and ha land is under the possession of the company. The application for land use conversion has been submitted to the Revenue Department, Govt. of Rajasthan vide application no. LC/2023-24/169879 dated 03.09.2023 and LC/2023-24/170291 dated 12.09.2023. EAC found the information satisfactory.

16. During deliberations, EAC discussed following issues:

- As suggested by EAC, PP committed that existing trees shall not be cut and Industry shall also ensure conservation of the same.
- As suggested EAC, PP has increased the budget allocated towards CER to Rs. 3.00 Crores and submitted breakup details of activities proposed under CER.
- EAC suggested to increase the stack height to 45 m for the proposed 45 TPH AFBC Boiler using Coal and Biomass Pellets fuel fired boiler.
- As suggested by EAC, PP informed that bulk storage capacity for Ethanol shall not exceed 15 days production capacity i.e., 2700 KLD.
- Industry shall develop 3-tier hierarchical and thick greenbelt of approx. 20m towards downwind direction and nearest receptor w.r.t. project site.
- PP shall insure the entry to project site through service road.
- PP shall take RoW permission from landowners for laying water pipeline to project site before commissioning of the plant.

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

17. The proposal was considered by the EAC (Meeting ID: EC/AGENDA/EAC/315544/4/2024) held on 23rd – 24th April, 2024 in the Ministry, wherein the project proponent and the accredited Consultant M/s. GRC India Pvt. Ltd. (NABET certificate no. NABET/EIA/21-24/SA0211 and valid till 15.08.2024), presented the case. The Committee recommended the project for grant of environmental clearance.

18. The EAC, constituted under the provision of the EIA Notification, 2006 and comprising of Experts Members/domain experts in various fields, 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.

20. The environmental clearance granted to the project/activity is strictly under the provisions of the EIA Notification 2006 and its amendments. It does not tantamount/construe to approvals/consent/ permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

21. Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-2), Ministry of Environment, Forest and Climate Change hereby accords environmental clearance for establishment of Greenfield Project of "Grain Based Distillery Plant of 180 KLD along with Co-generation Power Plant of 4.5 MW" located at Village- Jalodi, Thikariya Kalan & Chhapawda, Tehsil- Taleda, District- Bundi, Rajasthan by M/s Oasis Greenfuel Private Limited, under the provisions of the EIA Notification, 2006, and the amendments therein, subject to compliance of the terms and conditions.

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

23. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.

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

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

26. This issues with the approval of the competent authority.

Copy To

1. The Principal Secretary, Environment & Forests Department, Government of Rajasthan, Secretariat, Jaipur (Rajasthan)
2. The Regional Officer, Ministry of Env., Forest and Climate Change, Integrated Regional Office, Jaipur, A-209 & 218, Aranya Bhawan, Mahatma Gandhi Road, Jhalana Institutional Area, Jaipur – 304002, Rajasthan
3. The Member Secretary, Central Pollution Control Board Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 32
4. The Member Secretary, Rajasthan State Pollution Control Board, 4, Jhalana Institutional Area, Jhalana Doongri, Jaipur (Rajasthan)
5. Compliance and Monitoring Division, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi
6. District Collector, Bundi, Rajasthan
7. Guard File/Monitoring File/ Parivesh Portal /Record File

Annexure 1

Specific EC Conditions for (Distilleries)

1. Distilleries

S. No	EC Conditions
1.1	As per the Notification S.O. 2339(E), dated 16 th June, 2021, the proposed capacity of 180 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.
1.2	The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented (Annexure –III).
1.3	EC granted for a project on the basis of the submitted documents shall become invalid in case the actual land for the project site turns out to be different from the land considered at the time of appraisal of project. Conversion of land use (CLU) certificate shall be obtained before start of construction activities. Ground water shall not be used for industrial operations.
1.4	NOC from the Concerned Local authority shall be obtained before start of the construction of plant and abstraction of surface water. State Pollution Control Board shall not issue Consent to Operate (CTO) under The Air (Prevention and Control of Pollution) Act, 1981 and The Water (Prevention and Control of Pollution) Act, 1974 till the project proponent obtains such permission. PP shall take RoW permission from landowners for laying water pipeline to the project site before commissioning of the plant.
1.5	Total Fresh water requirement shall not exceed 720 m ³ /day which will be met from surface water. No ground water recharge shall be permitted within the premises. Industry shall construct a rain water storage pond and the accumulated water to be used as fresh water thereby reducing fresh water consumption.
1.6	Spent Wash/stillage shall be sent to the decanter followed by the Multiple Effect Evaporator and dryer to form DDGS. DDGS to be used as cattle feed. The MEE & Drier condensate, spent lees, WTP Rejects, Boiler & Cooling tower blowdowns, washings etc. shall be treated in the 'Condensate Polishing Unit' (CPU). STP shall be installed to treat domestic wastewater. The plant will be based on 'Zero Liquid Discharge' system and no effluent/treated water will be discharged outside factory premises.
1.7	Five field Electrostatic Precipitators with 45 m high stack shall be installed for controlling the particulate matter emissions within the statutory limit of 30 mg/Nm ³ for the proposed 45 TPH AFBC Boiler using Coal and Biomass Pellets as fuel (15% auxiliary Coal). Low sulphur coal with sulphur content not exceeding 0.5% shall be used. SO ₂ and NO _x emissions shall not exceed the limit of 100 mg/Nm ³ . At no time, the emission levels shall exceed the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Performance assessment of pollution control devices/ systems will be conducted annually.

S. No	EC Conditions
1.8	Boiler ash (60 TPD) will be used for brick manufacturing in proposed brick manufacturing plant inside plant premises. PP shall install 10% of the total power requirement in the form of solar power inside plant premises/adjacent/nearby areas.
1.9	CO ₂ (120 TPD) generated during the fermentation process will be collected by utilizing CO ₂ scrubbers and it shall be sold to authorized vendors/collected in installed bottling plant.
1.10	PP shall allocate at least Rs. 0.80 Crore as capital cost and Rs. 0.20 Crore as recurring cost for Occupational Health Safety. Occupational Health Centre for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.
1.11	Training shall be imparted to all employees on the safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees.
1.12	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. Location of ethanol storage tanks shall be placed in such a way that in the event of any fire, accident, explosion or any unforeseen conditions the impact of such event should not go beyond the boundary of the plant i.e. the risk should be tolerable (acceptable) at the boundary.
1.13	Company shall maintain an Emergency Response Decision support system in such a way so that identification of the detector's network for the location of the leak source and the probable leaked quantity in real-time, followed by modelling of the dispersion of the plume and consequences as forecast is done in advance and thus, no leak accident may go unattended. Accordingly, Risk Mitigation plan shall be in place.
1.14	The company shall determine the distance of fire hydrant while finalizing its location from ethanol storage tanks or any other hazardous storage substance shall be based on dispersion of Thermal Radiation so that during any unforeseen situation fire hydrant is always available to operate manually.
1.15	Process organic residue and spent carbon, if any, shall be sent to Cement and other suitable industries for its incineration. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF.
1.16	The company shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapour recovery system. (f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.
1.17	The green belt of at least 5-10 m width shall be developed in nearly 2.32 hectares i.e., 33 % of the total project area with tree density @ 2500 trees per hectares, mainly along the plant periphery. Indigenous species shall only be developed as part of greenbelt and non-indigenous / alien species shall be replaced with native species. No invasive or alien or non-native tree species shall be selected for plantation. PP shall develop at least 20 variety of species as a part of greenbelt. Saplings 4-6 feet high shall be planted. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department and native species shall be developed. Records of tree

S. No	EC Conditions
	canopy shall be monitored through remote sensing map. Greenbelt development shall be completed before commissioning of the plant. Existing trees shall not be cut and Industry shall also ensure conservation of the same. PP shall develop 30m. wide green belt within the plant towards the location of vulnerable groups and adjacent to the receptors.
1.18	PP proposed to allocate Rs. 3.00 Crores towards extended EMP (CER) which shall be spent as submitted in the CER plan (Annexure –IV). Further, all the proposed activities under CER shall be completed before the commissioning of the plant in consultation with the District Administration.
1.19	There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products and no parking to be allowed outside on public places. At least 15% of the total project area shall be allotted solely for parking purposes with facilities like restrooms etc. The parking area will be relocated in the South of the drain as per the revised layout plan submitted by the PP. PP shall ensure no direct entry or exit from and to the main road.
1.20	Storage of raw materials shall be either in silos or in covered areas to prevent dust pollution and other fugitive emissions. All stockpiles should be constructed over impervious soil and garland drains with catch pits to trap runoff material shall be provided. Biomass shall be stored in covered sheds and wind-breaking walls/curtains shall be provided around the biomass storage area to prevent its suspension during high wind speed. All Internal roads shall be paved. Industrial vacuum cleaner shall be provided to sweep the internal roads. The Air Pollution Control System shall be interlocked with process plant/machinery for shutdown in case of operational failure of Air Pollution Control Equipment.
1.21	Continuous online (24x7) monitoring system for stack emissions/effluent shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.
1.22	A separate Environmental Management Cell (having qualified person with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions. EMC head shall report directly to Head of Organization/ Director/CEO as per company hierarchy.
1.23	PP shall sensitize and create awareness among the people working within the project area as well as its surrounding area on the ban of Single Use Plastic in order to ensure the compliance of Notification published by MOEFCC on 12 th August, 2021. A report along with photographs on the measures taken shall also be included in the six-monthly compliance report being submitted to concerned authority.

Standard EC Conditions for (Distilleries)

1. General Conditions

S. No	EC Conditions
1.1	No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of

S. No	EC Conditions
	Environment, Forest and Climate Change/SEIAA, as applicable. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
1.2	The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.
1.3	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
1.4	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CER activities shall be undertaken by involving local villages and administration and shall be implemented. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
1.5	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.
1.6	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.
1.7	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.
1.8	The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.
1.9	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry and at https://parivesh.nic.in/ . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.
1.10	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial

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

Annexure 2

Details of Products & By-products

Name of the product /By-product	Product / By-product	Quantity	Unit	Mode of Transport / Transmission	Remarks (eg. CAS number)
Carbon Dioxide (CO2)	Carbon Dioxide (CO2)	42000	Tons per Annum (TPA)	Road	
Ethanol	Ethanol	180	Kilo Litre per Day (KLD)	Road	
Captive Power Plant	Captive Power Plant	4.5	Mega Watt (MW)	Transmission	
Dried distillers' grains with soluble (DDGS)	Dried distillers' grains with soluble (DDGS)	34300	Tons per Annum (TPA)	Road	

The details of products and capacity are as under:

S. No.	Name of Unit	Name of the product /by-product	Production capacity
1	Distillery	Ethanol	180 KLD
2	Co-generation power plant	Power	4.5 MW
3	DWGS dryer	DDGS	98 TPD
4	Fermentation unit	Carbon di-oxide	120 TPD

Capital cost and recurring cost of EMP are given below:

S. No.	Particulars	Capital Cost (INR Cr)	Annual Recurring (INR Cr)
1	Air pollution control system ESP with stack, Industrial vacuum cleaner, road sweeping machine, etc.	6.5	0.8
2	Continuous Emission Monitoring System and Ambient Air Quality Monitoring System	2.0	0.5
3	Scrubbing system, compressing system, liquefying system and storage for CO ₂ removal	4.2	1
4	Treatment system for spent wash, DWGS centrifuge decanter, DDGS dryer for ZLD system, Construction of Garland drains, Water Reservoir	4.7	0.9
5	Condensate Polishing unit for water treatment and recycle, STP	3.5	0.7
6	Ash handling and management	0.5	0.25
7	Fire Fighting measures	0.7	0.28
8	In-house Solar power Plant	3.0	0.27
9	Rainwater harvesting systems	0.5	0.25
10	Occupational Health Management	0.8	0.20
11	Noise Reduction Systems	0.3	0.10
12	Green Belt Development	0.8	0.20
13	Environment monitoring	--	0.25
14	Environment management cell	0.5	0.05
15	CER	3	--
	Total	31	5.75

Details of extended EMP (CER) with proposed activities and budgetary allocation:

S. No	Description	Value in INR (Cr)
1.	Providing training for skill development to local youth in consultation with gram panchayat of Kukudapali and Dumerpali for trades namely electrician, fitters, welders, painters, and civil construction work, etc. and providing them employment after training in company in suitable grade.	1.5
2.	a. Development of Village roads- Chhapawda Village road- 1 km b. Upgradation of drinking water facility in nearby in nearby Village Chhapawda	0.5
3.	Installation of solar lights (30 nos.) in Village Chhapawda	0.4
4.	Upgradation of medical facility in nearby hospital such as Donating medical equipment like Beds, Stretcher, Portable Oxygen Cylinder (330 Litre), Oxygen Concentrator (10 Ltr), AC (Window AC of 1.5 Ton) in Govt. Hospital, Raithal.	0.3
5.	Development of smart class, distribution of benches, Fans, drinking water facility, Upgradation of sanitary facility (One for male and one for female), Distribution of IT gadgets, Printers, Computers in schools present in nearby in nearby villages i.e., Govt. school Chhapawda, Govt. Sen Sec School Jameetpur.	0.2
6.	Awareness Programs (20 nos.) for local farmers to increase soil productivity and water conservation for 3 years.	0.1
	Total	3.0