



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

To,

The General Manager

MODI BIOTECH PRIVATE LIMITED

Khara no 1175, 3 km, new Raipur Road, Village Bhilai, Tehsil-Arang,
District- Raipur, Chhattisgarh,,Raipur,Chhattisgarh-493441

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

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the Ministry vide proposal number IA/CG/IND2/246003/2021 dated 31 Dec 2021. The particulars of the environmental clearance granted to the project are as below.

1. EC Identification No.	EC22A060CG159256
2. File No.	IA-J-11011/522/2021-IA-II(I)
3. Project Type	New
4. Category	A
5. Project/Activity including Schedule No.	5g(a)-Grain Based distilleries for Ethanol Blended Petrol
6. Name of Project	Proposed 210 KLD Grain based Ethanol plant with ZLD along with 5.0 MW Captive Power Plant under EBP Programme
7. Name of Company/Organization	MODI BIOTECH PRIVATE LIMITED
8. Location of Project	Chhattisgarh
9. TOR Date	N/A

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

Date: 02/03/2022

(e-signed)
A.K Pateshwary
Director
IA - (Industrial Projects - 2 sector)

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

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This has reference to your online proposal No. IA/CG/IND2/246003/2021, dated 31st December, 2021 for environmental clearance to the above mentioned project.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal to the project proposed 210 KLD Grain based Ethanol plant with ZLD along with 5.0 MW Captive Power Plant under EBP Programme Raipur Chhattisgarh by M/s Modi Biotech Private Limited.

3. All grain based distilleries producing ethanol, solely to be used for Ethanol Blended Petrol Programme of the Government of India are listed at S.N. 5(ga) of Schedule of Environmental Impact Assessment (EIA) Notification, 2006 amendment vide S.O 2339 dated 16th June 2021 under category 'B-2' and are appraised at Central Level by Expert Appraisal Committee (EAC).

4. The project proposal is exempted from obtaining ToR & conducting Public Hearing as per EIA notification, 2006 amendment vide S.O 2339 dated 16th June 2021. It was informed that no litigation is pending against the project.

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

S. No.	Product Details	Capacity	Details
1.	Grain Based Ethanol Plant	210 KLD	Product- Ethanol (Bio-fuel) By-product- DDGS (100 TPD) & CO ₂ (150 TPD)
2.	Co-generation power plant	5.0 MW	Power

6. The total land area for the Greenfield project is 71,700 sq. m. Out of the total area, 11,300 Sq. m. is duly converted for industrial use and land use conversion for the remaining 60,400 sq. m. is under process. Industry will develop greenbelt in an area of 33 % i.e. 23,661 m² out of total project area.

7. The estimated project cost is Rs 192 Crore. Total capital cost earmarked towards environmental pollution control measures is Rs. 32.7 Crore and the Recurring cost (operation and maintenance) will be about Rs 1.124 Crore per annum. Total Employment will be 250 persons

(construction phase: 50 & operation phase: 200). Industry proposes to allocate Rs 2.88 Crore @ 1.5 % of project cost toward Corporate Environmental Responsibility.

8. There are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km distance from the project site. Sakti Nala is flowing adjacent to project site. Nisda dam & Mahanadi are at a distance of 5.9 km from the proposed project site.

9. Total water requirement is 3024 m³/day of which fresh water requirement of 935.5 m³/day will be met from Nisda Dam and NOC has been received from SIPB - Directorate of Industries, Chhattisgarh vide letter no 1100/SIPB/2021/1045 dated 24.12.2021. Remaining water requirement will be met Re-circulated water (spent lees & dryer condensate), process condensate, and treated effluent from ETP & STP to the tune of 2088.5 KLD. Process Effluent (Thin slop) & washing effluent to the tune of 716 m³/day will be treated in Multi-effect evaporator and process condensate will be recycled for process water makeup. Other effluent streams (CT & boiler blow down, WTP reject, sealing water) to the tune of 229 KLD will be treated in ETP and treated water will be recycled for CT water makeup and washing, thus maintaining ZLD. Domestic effluent & effluent from floor washing to the tune of 17 KLD will be treated in STP and treated water (16 KLD) will be recycled for greenbelt maintenance.

10. Power requirement will be 4.2 MW and will be met from Co-generation power plant of 5.0 MW. DG sets (1000 KVA X 2 Nos) are proposed as standby during power failure. Stack height (30 m above roof) will be provided as per CPCB norms to the proposed DG sets. 60 TPH x 1no. Rice husk fired boiler will be installed. ESP with a stack of height of 50 m will be installed for controlling the particulate emissions within the statutory limit for the proposed boiler.

11. Details of Process emissions generation and its management:

CO₂ generated (150 TPD) during Fermentation Process will be scrubbed, collected and handed over to end users.

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

- DDGS (100 TPD) will be sold to Cattle/poultry feed manufacturers.
- Rice husk Ash from Boiler (46 TPD) will be supplied to brick manufacturers &/or used as manure.
- ETP sludge (cake) ~0.13 TPD will be handed over to organic manure manufacturers.
- Residue solids from MEE (after treatment of RO Reject): 0.54 TPD

will be sent to authorized TSDF for final disposal.

- Used/Spent oil: ~ 0.5 KL/Annum will be handed over to CPCB authorized recyclers.
- STP sludge (cake) ~ 2 kg/day will be used as manure for landscaping within premises.

13. As per OM dated 16th June, 2021, PP has submitted self-certification in the form of affidavit declaring that the proposed expansion of 210 KLPD will be for manufacturing of fuel ethanol only.

14. During the deliberations EAC observed that Sakti Nallah is flowing just adjacent to the project and asked PP whether the proposed site is safe from flood level line. In this regard PP informed that the proposed plant is at least 3-4 m above the altitude of adjacent nala. However, EAC suggested that PP should consider at least previous 10 years of the flood level line of the proposed location and also obtain NOC from Water Resources Deptt that the proposed site is safe from flood zone. No construction shall be started before obtaining NOC. Further, EAC directed PP to submit an undertaking for the following commitments:

- No form of no waste/effluent or treated water shall be discharged to adjacent nallah.
- At least 15% of the total plant area will be reserved for parking with the facilities of toilets, drinking water facility and restrooms.
- Industry shall construct a rainwater storage facility of 60 days capacity and the accumulated water to be used as fresh water thereby reducing fresh water consumption.
- Brick manufacturing unit will be installed within the plant premises for utilization of fly ash. Rice husk/Biomass shall be used as fuel in the boiler. Industry shall also consider alternative fuel from rice husk for as rice husk itself can be used as raw material production of Ethanol.
- Industry shall meet at least 10% of its power requirement through renewable energy.
- The proposed budget of Rs. 2.88 crores towards CER be increased to Rs. 3.00 crores and shall be spent on upgradation of infrastructure in public schools in nearby villages in consultation with District Magistrate. All the proposed activities under CER shall be completed before the commencement of operations of the plant.
- Fund for occupational health and safety will be increased to Rs. 60 Lakhs per annum.

PP has submitted the desired commitments/information sought above in the form of undertaking.

15. The proposal was considered by the EAC in its 48th meeting held during 06th- 07th January, 2022 in the Ministry, wherein the project

proponent and their consultant M/s. Gaurang Environmental Solutions Pvt Ltd 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.

16. 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 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.

17. 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.

18. 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.

19. Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-2), Ministry of Environment, Forest and Climate Change hereby **accords** environmental clearance to the project proposed 210 KLD Grain based Ethanol plant with ZLD along with 5.0 MW Captive Power Plant under EBP Programme Raipur Chhattisgarh by M/s Modi Biotech Private 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 Conditions:

(i) As per OM dated 16th June, 2021, project falls in category B2 and the proposed capacity of 210 KLPD shall be only 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.

(ii) Industry should consider at least previous 10 years of the flood level line of the proposed location and also obtain NOC from Water Resources Dept that the proposed site is safe from flood zone. No construction shall be started before obtaining NOC.

(iii) 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.

(iv) 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. No form of no waste/effluent or treated water shall be discharged to adjacent nallah.

(v) Total fresh water requirement shall not exceed 935.5 m³/day which will be met from Nisda Dam. 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. Industry shall construct a rainwater storage facility of 60 days capacity and the accumulated water to be used as fresh water thereby reducing fresh water consumption.

(vi) The spent wash shall be concentrated and dried to form DDGS to be used as cattle feed. Brick manufacturing unit will be installed within the plant premises for utilization of fly ash. Rice husk/Biomass shall be used as fuel in the boiler. Industry shall also consider alternative fuel from rice husk for as rice husk itself can be used as raw material production of Ethanol. Industry shall meet at least 10% of its power requirement through renewable energy.

(vii) CO₂ generated from the process shall be bottled/made solid ice and utilized/sold to authorized vendors.

(viii) PP proposed to allocate Rs. 60 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.

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

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

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

(xii) The company shall undertake waste minimization measures as below
(a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapour recovery system. (f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.

(xiii) The green belt of 5-10 m width shall be developed in nearly 33% of the total project area, mainly along the plant periphery and it shall be completed along with the commissioning of the project. 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. Development of greenbelt shall be completed along with commissioning of the project.

(xiv) PP proposed to allocate Rs. 3.00 crores towards CER and shall be spent on upgradation of infrastructure in public schools in nearby villages in consultation with District Magistrate. All the proposed activities under CER shall be completed before the commencement of operations of the plant.

(xv) There shall be at least 15% of the total plant area shall be earmarked for parking of vehicles for raw materials and finished products as per CPCB norms along with the facilities of toilets, drinking water facility and restrooms; no parking to be allowed outside on public places.

(xvi) Storage of raw materials shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.

(xvii) 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.

(xviii) 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.

B. General Conditions:

(i) No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA, as applicable. In case of deviations or alterations in the project proposal from those submitted to 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.

20. 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.

21. 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.

22. 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.

23. 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.

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

(Ashok Kumar Pateshwary)
Director

Copy to: -

1. The Principal Secretary, Department of Environment, Government of Haryana, SCO 1-2-3, Sector 17 (D), 2nd Floor, Chandigarh, Haryana
2. The Regional Officer, Ministry of Env., Forest and Climate Change, Integrated Regional Office, Bays No.24-25, Sector 31-A, Dakshin Marg, Chandigarh - 160030
3. The Member Secretary, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 32
4. The Member Secretary, Haryana State Pollution Control Board, C-11, Sector-6, Panchkula, Haryana - 134109.
5. Monitoring Cell, MoEF&CC, Indira Paryavaran Bhawan, Jor Bagh Road, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi
6. District Collector Fatehabad, Haryana
7. Guard File /Monitoring File /Parivesh Portal / Record File.

(Ashok Kumar Pateshwary)
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