



F. No.J-11011/191/2007-IA-II (I)
Government of India
Ministry of Environment, Forest & Climate Change
Impact Assessment Division

Indira Paryavaran Bhavan,
Vayu Wing, 3rd Floor, Aliganj,
Jor Bagh Road, New Delhi-110 003

Dated: 9th April, 2020

To,

M/s Godavari Biorefineries Ltd (Distillery Division),
Village Saidapur and Handigund,
Tehsil Mudhol,
District **Bagalkot** (Karnataka)

Sub: Expansion of distillery unit from 320 KLPD to 400 KLPD by M/s Godavari Biorefineries Ltd (Distillery Division) at Sy. No. 16 & 17 of Saidapur Village, Sy. No. 45, 46, of Handigund Village, Sy. No. 74 & 75 of Madbhavi Village Sameerwadi Village, Tehsil Mudhol, District Bagalkot (Karnataka) - Environmental Clearance - regarding

Sir,

This has reference to your online proposal No.IA/KA/IND2/127285/2019 dated 25th November, 2019 for environmental clearance to the above project.

2. The Ministry of Environment, Forest and Climate Change has considered the proposal for environmental clearance to the project for expansion of distillery unit from 320 KLPD to 400 KLPD by M/s Godavari Biorefineries Ltd (Distillery Division) at Sy. No. 16 & 17 of Saidapur Village, Sy. No. 45, 46, of Handigund Village, Sy. No. 74 & 75 of Madbhavi Village Sameerwadi Village, Tehsil Mudhol, District Bagalkot, (Karnataka).

3. The details of products and capacity as under:

S. No	Product	Exiting (KLD)	Proposed (KLD)	Total (KLD)
1	Rectified spirit	320	80	400
2	Ethanol	293.5	86.5	380
3	ENA	260	-	260

4. Existing land area is 4,84,000 sqm(48.4 ha) no additional land will be required for proposed expansion. Industry has already developed greenbelt in an area of 33 % i.e.1,60,000 m²(16 ha) out of total area of the project. The existing investment of Rs. 133.2 crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 79.35 crores and the recurring cost (operation and maintenance) will be about Rs. 2.14 crores per annum. Total employment will be 150 persons as direct &30 persons indirect after expansion.

5. There are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/ Elephant Reserves, Wildlife Corridors etc. within 10 km distance from the project site. Ghataprabha river flowing at a distance of 6.5 km in southern direction.


EC for M/s Godavari Biorefineries Ltd (Distillery Division)

6. Total existing fresh water requirement is 819 m³/day. Fresh water requirement while using B-heavy molasses and Sugar Cane Syrup will be 860 cum/day and 591 cum/day respectively. The Spent wash will be concentrated in MEE and the concentrate will be incinerated. The MEE condensate along with process condensate and spent lees treated in Biological Treatment Plant (BTP). The proposed plant will be based on Zero Liquid Discharge (ZLD) system. All the liquid effluents generated in the system are recycled in the process.

Existing power requirement is 5.5 MW proposed to be met from captive generation. No additional power will be required. Existing unit has one DG set of 320 kVA capacity. Existing unit has three boilers of 40 TPH (incineration boiler), 4 TPH and 10 TPH coal fired boiler. No additional boiler shall be required for proposed expansion.

7. The project/activity is covered under category A of item 5 (g) 'Distilleries' of the Schedule to the EIA Notification, 2006, and requires appraisal at central level by the sectoral EAC in the Ministry.

8. Ministry had issued EC earlier on 20th March, 2008 to the project for expansion of cane juice based distillery unit from 60 to 200 KLPD at Village Saamazwadi, Bagalkot, Karnataka in favour of M/s Somaiya Organo-Chemicals Limited. Further, the Ministry vide letter dated 7th July, 2009 has granted expansion of distillery from 200 to 320 KLPD and 40 KLPD ENA to 260 KLPD ENA at Sameerwadi, District Bagalkot, Karnataka in favour of M/s Godavari Biorefineries Ltd. The EAC deliberated the compliance report submitted by PP and found to be satisfactory.

9. The proposal has been submitted for grant of environmental clearance under para 7(ii) of EIA Notification, 2006. This expansion will be achieved by the use of B-heavy molasses/sugar cane juice without any increase in the total pollution load and without any additional plant and machinery.

10. The proposal was considered by the Expert Appraisal Committee (Industry-2) in its meetings held on 30-31, 2019 and January 1, 2020, 21-23 January, 2020 and 25-27 February, 2020, wherein the Committee **recommended** the project for grant of environmental clearance under para 7(ii) providing exemption from public hearing and preparation of EIA report subject to compliance of terms and conditions.

11. 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. 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.

12. 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 (EC).

13. 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 expansion of distillery unit from 320 KLPD to 400 KLPD by M/s Godavari Biorefineries Ltd (Distillery Division) at Sy. No. 16 & 17 of Saidapur Village, Sy. No. 45, 46, of Handigund Village, Sy. No. 74 & 75 of Madbhavi Village Sameerwadi Village, Tehsil Mudhol, District Bagalkot, (Karnataka), under the provisions of the EIA Notification, 2006, subject to the compliance of terms and conditions as below:-

A. Specific Condition

(i) 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, shall be obtained from the State Pollution Control Board as required.

(ii) As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises. The reuse of treated effluent in gardening/ horticulture shall not be considered as ZLD.

(iii) The spent wash after biomethnation in the anorobic digester shall compost with press mud. An area of 26 Acres shall be earmarked for compost yard. The compost shall be lined with HDPE sheets and construction of compost yard shall be as per the CPCB guidelines. The unit shall be using biocomposting method of spent wash treatment technology along with multiple effect evaporaper (MEE) followed by incineration in the boiler to achieve zero liquid discharge. The total operating days of the plant will be 330 days.

(iv) Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016, Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.

(v) To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.

(vi) Odour shall be prevented at the source and effective odour management scheme shall be implemented.

(vii) Total fresh water requirement shall not exceed 1000 m³/day proposed to be met from River Ghatprabha. Prior permission shall be obtained from the concerned regulatory authority/CGWA.

(viii) Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.

(ix) Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.

(x) The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.

(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.

(xii) The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.

(xiii) As committed, funds allocation for the Corporate Environment Responsibility (CER) shall be 1.5% of the total project cost. Item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.

(xiv) For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.

(xv) 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.

(xvi) Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

(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.

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

(xix) 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 ZLD, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises. For continuous discharge the unit shall install pH, TSS, BOD, COD and flow meter at the ETP outlet.

B. General Conditions:

- (i) The Project Proponent shall obtain all other statutory/necessary permissions/recommendations/NOCs prior to start of construction/operation of the project, which inter alia include, permission/approvals under the Forest (Conservation) Act, 1980; the Wildlife (Protection) Act, 1972; the Coastal Regulation Zone Notification, 2019, as amended from time to time, and other Office Memoranda/Circular issued by the Ministry of Environment, Forest and Climate Change from time to time, as applicable to the project.
- (ii) The project proponent shall ensure compliance of 'National Emission Standards', as applicable to the project, issued by the Ministry from time to time. The project proponent shall also abide by the rules/regulations issued by the CPCB/SPCB for control/abatement of pollution.
- (iii) The project authorities shall adhere to the stipulations made by the State Pollution Control Board/Committee, Central Pollution Control Board, State Government and any other statutory authority.
- (iv) The project proponent shall prepare a site specific conservation plan and wildlife management plan in case of the presence of Schedule-1 species in the study area, as applicable to the project, and submit to Chief Wildlife Warden for approval. The recommendations shall be implemented in consultation with the State Forest/Wildlife Department in a time bound manner.
- (v) 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. 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 to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- (vi) The energy source for lighting purpose shall be preferably LED based, or advance having preference in energy conservation and environment betterment.
- (vii) The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one station each is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.
- (viii) The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be followed.
- (ix) 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 Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- (x) The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and to utilize the same for process requirements.
- (xi) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all

employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.

(xii) The company shall also 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.

(xiii) 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.

(xiv) The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.

(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.

(xvi) 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.

(xvii) 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.

(xviii) 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.

(xix) 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.

(xx) 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.

(xxi) 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.

(xxii) 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.

14. 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.

15. 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.

16. 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.

17. 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.

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

(Dr. R. B. Lal)
Scientist 'E'/Additional Director

वैज्ञानिक 'ई'/Scientist 'E'
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
Min. of Environment, Forest and Climate Change
भारत सरकार, नई दिल्ली
Govt. of India, New Delhi

Copy to: -

1. The Secretary, Ministry of Petroleum and Natural Gas, Shastri Bhavan, New Delhi - 110 001
2. The Deputy DGF (C), MoEF&CC Regional Office (SZ), Kendriya Sadan, 4th Floor, E&F Wings, 17th Main Road, Koramangala II Block, **Bangalore** - 34
3. The Secretary, Department of Forest, Environment & Ecology, Government of Karnataka, Room No. 708, Gate 2, Multi Storey Building, Dr. Ambedkar Veedhi, **Bangalore** - 1
4. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex East Arjun Nagar, **Delhi** - 32
5. The Member Secretary, Karnataka State Pollution Control Board, Parisara Bhavan, #49, 4th& 5th Floor, Church Street, **Bangalore** - 1
6. The District Collector, District **Bagalkot** (Karnataka)
7. Guard File/Monitoring File/Website/Record File

(Dr. R. B. Lal)
Scientist 'E'/Additional Director

