



F. No.J-11011/495/2008-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: 6th February, 2020

To,

M/s Piccadily Agro Industries Limited,
Village Bhadson, Umri Road, Tehsil Indri,
District **Karnal** (Haryana)

Sub: Expansion of Grain/Molasses based Distillery unit & Co-generation Power Plant by M/s Piccadily Agro Industries Limited at village Bhadson, Tehsil Indri District Karnal (Haryana) - Environmental Clearance - reg.

Sir,

This has reference to your online proposal No.IA/HR/IND2/28750/2008 dated 14th October, 2019 for environmental clearance to the above project.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the project for expansion of Grain/Molasses based Distillery unit (90 KLPD to 150 KLPD) & Co-generation Power Plant (3 MW to 5 MW) by adding 60 KLPD Molasses based Ethanol Plant along with 2 MW Co-generation Power by M/s Piccadily Agro Industries Limited in an area of 283000 sqm at village Bhadson, Tehsil Indri, District Karnal (Haryana).

3. Existing land area is 283000m² (28.3 Hectares). No additional land will be required for proposed expansion. Industry has already developed greenbelt in an area of 33% i.e. 93000 m²(9.3 Hectares). The estimated project cost is Rs.47 crores. Total capital cost earmarked towards environmental pollution control measures is Rs.10 crores and the recurring cost (operation and maintenance) will be about Rs. 1 crore per annum. Total Employment during operation phase after proposed expansion will be 190 persons on regular basis.

4. There are No National Parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife corridors etc within 10 km from the project site. Bir Seonti Reserve Forest is at 7.5 km in North. Chautang Nadi flows at a distance of 2.5 km in West.

5. The fresh water requirement will be increased from 980 cum/day to 1340 cum/day, proposed to be met from groundwater. Effluent of 543 KLPD quantity will be treated through Effluent Treatment Plant (Based on Anaerobic, aerobic digestion, Filters and Reverse Osmosis) of capacity 700 m³. The plant is being/will be based on Zero Liquid discharge system.

Total Power requirement will be increased from 3 MW to 4.2 MW proposed to be met from be met from the existing Co-generation Power Plant. Existing unit has two D.G. sets of 500 kVA capacity each. No additional DG sets will be required. Stack height of 5 m will be provided as per CPCB norms to the existing DG set.

In existing unit, 25 TPH boiler (biomass fired) is operational for 90 KLPD grain based operation. If 90 KLPD molasses based process will be operational, then 30 TPH incineration
EC to M/s Piccadily Agro Industries Limited

boiler (Conc. Spent wash and biomass fired) will be required. One more biogas and biomass fired boiler of 25 TPH capacity will be installed for proposed 60 KLPD ethanol plant. ESP along with stack height of 35 m will be installed to control the particulate emissions within the statutory norms.

6. 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.

7. Terms of Reference (ToR) for the project was granted on 13th December, 2016. Public hearing was conducted by the Haryana State Pollution Control Board on 25th October, 2018. The Public Hearing was chaired by Additional District Collector. The main issues raised during the public hearing are related to employment, CSR activities in nearby areas, maintenance of ponds, odour problem and pollution etc. The Committee deliberate the issues raised during PH. The Committee deliberated the action plan submitted by the PP and found that the action plan alongwith the budgetary provision to be satisfactory and addressing the concerns raised during the public hearing.

8. The proposal for environmental clearance was considered by the EAC (Industry-2) in its meetings held on 30-31 December, 2019 and 1st January, 2020. The project proponent and their consultant M/s J.M. Enviro Net Pvt. Ltd presented the EIA/EMP report. The Committee found the EIA/EMP report to be satisfactory, complying with the ToR, and recommended the project for grant of environmental clearance.

9. 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 Grain/Molasses based Distillery unit (90 KLPD to 150 KLPD) & Co-generation Power Plant (3 MW to 5 MW) by adding 60 KLPD Molasses based Ethanol Plant along with 2 MW Co-generation Power by M/s Piccadily Agro Industries Limited** at village Bhadson, Tehsil Indri, District Karnal (Haryana) 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) 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 project proponent shall follow the directives issued by the Ministry, CPCB, SPCB & other Government organization from time to time.

(iii) Concentrated spent wash shall be incinerated or Advanced Tumble Flow Induction Technology (ATFT) – spray dryer for treatment of spent wash and not to be released in open space. The existing molasses based unit shall ensure complete incineration/ATFT in place of bio-composting.

(iv) The PP shall ensure that the proposed expansion be only for production of bio-fuel. After expansion, the company will operate for 350 days/ annum.

(v) 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.

(vi) 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.

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

(viii) Total fresh water requirement shall not exceed 1340 cum/day, proposed to met from ground water. Prior permission shall be obtained from the concerned regulatory authority/CGWA.

(ix) 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.

(x) 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.

(xi) 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.

(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 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.

(xiv) All commitments made during public hearing shall be satisfactorily implemented.

(xv) As proposed Rs. 75 Lacs shall be allocated for Corporate Environment Responsibility (CER) and action plan prepared and submitted shall be completed in time bound manner.

(xvi) 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.

(xvii) 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.

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

(xix) 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.

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

(xxi) 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.

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

(xxiii) Process safety and risk assessment studies shall be further carried out using advanced models, and the mitigating measures shall be undertaken accordingly.

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.

10. 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.

11. 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.

12. 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.

13. 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.

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


(Dr. R. B. Lal)

Scientist 'E'/Additional Director

(Dr. R. B. LAL)
वैज्ञानिक 'ई'/Scientist 'E'
पर्यावरण, वन एवं जलवायु परिवर्तन निकाय
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 Principal Secretary, Department of Environment, Government of Haryana, SCO 1-2-3, Sector 17 (D), 2nd Floor, **Chandigarh** (Haryana)

3. The Additional PPCF(C), MoEF&CC, Regional Office (NZ), Bays No.24-25, Sector 31-A, Dakshin Marg, **Chandigarh** – 160030
4. The Member Secretary, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, **Delhi** - 32
5. The Member Secretary, Haryana State Pollution Control Board, C-11, Sector-6, **Panchkula** (Haryana) - 134109.
6. District Collector, **Karnal** (Haryana)
7. Monitoring Cell, MoEF&CC, Indira Paryavaran Bhawan, Jor bagh Road, New Delhi
8. Guard File/Record File/Monitoring File/Website of MoEF&CC


(Dr. R. B. Lal)
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