

F. No. J-11011/159/2009- IA II (I)
Government of India
Ministry of Environment and Forests
(I.A. Division)
Paryavaran Bhawan
CGO Complex, Lodhi Road
New Delhi – 110 003

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Dated 1st June, 2010

To,
The Director
M/s Ankur Biochem Pvt Limited
10, Clive Row, Room N. 206/4, 2nd floor
Kolkata-700001

E mail: ankurbiochem@gmail.com

Sub: Proposed Grain Based Distillery Unit (60 KLPD) at Village Dubhi (Dhuv), District Dhanbad, Jharkhand by M/s Ankur Biochem Private Limited – Environmental clearance reg.

Sir,

This has reference to your letter No. nil dated 22nd October, 2009 alongwith copies of EIA/EMP and public hearing reports and subsequent communications dated 23rd January, 2010, 4th February, 2010 and 27th April, 2010 seeking environmental clearance on the above mentioned subject under the EIA Notification, 2006.

2. The Ministry of Environment and Forests has examined the proposal. It is noted that M/s Ankur Biochem Private Limited have proposed for a Grain Based Distillery Unit (60 KLPD) at Village Dubhi (Dhuv), District Dhanbad, Jharkhand. No wildlife sanctuary/national park/ biosphere reserve etc. is located within 10 km radius of the project. No forest land and R&R is involved. The unit will manufacture Rectified Spirit/ ENA of 60 KLPD. The unit will operate for 330 days in a year. The total land required for the project will be 20 acres, of which green belt will be developed in 6.6 acres of the total land area. Cost of the project is Rs. 60.00 Crores. An amount of Rs. 9.80 Crores will be utilized for environmental protection measures.

3. The main raw material for the unit will be grains (maize, bajra and broken rice 160 MTPD). Water requirement of 990 m³/day will be sourced from ground water supply. The spent wash generation will be 286 m³/day. The spent wash will be sent for decantation and concentrated in Multiple Effect Evaporator to get DWGS which will be used as cattle feed. The company will maintain zero discharge from the plant. The power requirement of 1650-2000 KW will be met from captive power plant. The steam requirement will be 310 T/day. Fuel for boiler will be Indian coal 140 MTPD. g filters are proposed to control the particulate emissions from the 20 TPH boiler. Cyclone and bag filters are proposed to control fugitive emissions. CO₂ from the fermentor will be scrubbed with water in CO₂ scrubber.

4. The solid waste generation from the unit will be in the form of canteen waste (1 m³/day) which will be composted and used in the own garden. Grain grit (60 kg/day) will be used for land development. Grain skins (600 kg/day) will be used as animal feed. Yeast sludge (15-20 m³/day) will be partly recycled and partly used as manure. ETP sludge (1.5-2 MTPD) will be used in own garden. Office & packing trash (1 m³/day) will be sold. Ash (47 MTPD) will be used as manure or brick-making, disposed in low lying area.

5. All the molasses and non-molasses based distilleries are listed at S. N. 5(g) of schedule of EIA notification, 2006. The molasses based distillery unit irrespective of capacity and non- molasses based distilleries above 30 KLPD fall under category 'A' and appraised at the Centre. Public hearing of the project was held on 20.07.2009.

6. The proposal was considered by the Expert Appraisal Committee-2 (Industry) in its 6th meeting held on 14th December, 2009. The Committee sought additional information for reconsideration of project. On receipt of additional information proposal was considered by the Expert Appraisal Committee in its meeting held on 29-30th April, 2010. The Committee recommended the project for environmental clearance subject to compliance of specific conditions.

7. Based on the information submitted by you, presentation made by you and your consultant Vasant Dada Sugar Institute, Pune, Maharashtra, the Ministry of Environment and Forests hereby accords environmental clearance to above project under the provisions of EIA Notification dated 14th September 2006 subject to strict compliance of the following Specific and General conditions:

A. SPECIFIC CONDITIONS:

i. The industry shall ensure that the treated effluent and stack emissions from the unit are within the norms stipulated under the EPA rules or SPCB whichever is more stringent. In case of process disturbances/failure of pollution control equipment adopted by the unit, the respective unit shall be shut down and shall not be restarted until the control measures are rectified to achieve the desired efficiency.

ii. The particulate emissions from 20 TPH boiler shall be controlled by installation of cyclone and bag filters and emissions shall be dispersed through stack height as per the CPCB guidelines. The particulate emissions shall conform to the prescribed standards. Gaseous emissions from the DG sets shall be dispersed through stack of height as per CPCB/State Pollution Control Board standards.

iii. The Company shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on its website and shall update the same periodically. It shall simultaneously be sent to the Regional office of MOEF, the respective Zonal office of CPCB and the State Pollution Control Board. The levels of PM10, SO₂, NO_x (ambient levels), emissions from the stacks and pH, TDS, BOD, COD, Chloride, suspended solids and sulphates in the treated effluent shall be monitored and displayed at a convenient location near the main gate of the company and at important public places.

iv. The spent wash (286m³/d) shall be centrifuged in the decanter and after decantation, part of the thin slopes shall be recycled back to process and balance evaporated in the Multiple effect evaporator and concentrated syrup shall be mixed with wet cake to be sold as cattle feed. The condensate from the MEE shall be recycled to the process. The effluent from the floor washing, waste treatment plant, boiler blow down, fermenter washing shall be used as cooling tower make up and for irrigation within the plant premises after complying with the CPCB/State Pollution Control Board standards.

v. The spent wash shall be stored in impervious pucca lagoons. The spent wash lagoons shall have proper lining with HDPE and shall be kept in proper condition to prevent ground water pollution. The storage shall not exceed 5 days capacity.

- vi. Adequate numbers of ground water quality monitoring stations by providing piezometers around the compost yard and project area shall be set up. Sampling and trend analysis monitoring must be made on monthly a basis and report submitted to SPCB and this Ministry.
- vii. Permission shall be obtained to draw surface water from the State Irrigation Department the ground water from the Central Ground Water Authority /State Ground Water Board as may be applicable to this case. The company shall undertake measures for conservation of water by recycling and rework the water requirement for grain based process.
- viii. The Company shall undertake measures for water conservation by recycling and reuse of treated water to minimize the fresh water consumption.
- ix. The company shall adopt rainwater harvesting measures to recharge the ground water.
- x. Fire Fighting System shall be as per the OISD-117 Norms and cover all areas where alcohol is produced, handled and stored.
- xi. Provision of foam system for fire fighting to control fire from the alcohol storage tank.
- xii. The used oil shall not be used for boiler and it should be disposed of as per the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008.
- xiii. Risk Assessment shall be carried to assess the fire and explosion risk due to storage of alcohol and report submitted to the Ministry within six months.
- xiv. Green belt in 6.6 acres of the plant area shall be provided to mitigate the effects of fugitive emissions all around the plant as per CPCB guidelines in consultation with the local DFO.
- xv. Occupational health surveillance programme shall be undertaken as regular exercise for all the employees. The first aid facilities in the occupational health centre shall be strengthened and the medical records of each employee shall be maintained separately.
- xvi. Provision shall be made for the housing for the construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile sewage treatment plant, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after the completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment..

B. GENERAL CONDITIONS :

- i. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.
- ii. Ambient Air Quality Monitoring Stations shall be set up in the down wind direction as well as where maximum ground level concentration of PM10, SO2 and NOx are anticipated in consultation with the State Pollution Control Board.
- iii. Adequate number of influent and effluent quality monitoring stations shall be set up in consultation with the State Pollution Control Board. Regular monitoring should be carried out for relevant parameters.

- iv. The industry shall ensure that the treated effluent and stack emissions from the unit are within the norms stipulated under the EPA rules or SPCB whichever is more stringent. In case of process disturbances/failure of pollution control equipment adopted by the unit, the respective unit shall be shut down and shall not be restarted until the control measures are rectified to achieve the desired efficiency.
- v. 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 EPA Rules, 1989
- vi. Occupational health surveillance programme shall be undertaken as regular exercise for all the employees. The first aid facilities in the occupational health centre shall be strengthened and the medical records of each employee shall be maintained separately.
- vii. A separate environmental management cell equipped with full fledged laboratory facilities must be set up to carry out the environmental management and monitoring functions.
- viii. The project authorities shall provide requisite funds for both recurring and non-recurring expenditure to implement the conditions stipulated by the non-recurring expenditure to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State government along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.
- ix. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from who suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.
- x. The implementation of the project vis-à-vis environmental action plans will be monitored by Ministry's Regional Office at Bhubaneswar /State Pollution Control Board/Central Pollution Control Board.
- xi. The project proponent shall also submit six monthly reports on the status of compliance of the stipulated E C conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the State Pollution Control Board.
- xii. 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 by e-mail.
- xiii. 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 State Pollution Control Board/ Committee and may also be seen at Website of the Ministry of Environment and Forests at <http://envfor.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 Regional office.

xiv. 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 land development work.

8. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

9. The Ministry reserves the right to stipulate additional conditions if found necessary. The company will implement these conditions in a time bound manner.

10. Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Authority Act, 1997.

11. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Trans boundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.

(Dr. P. B. Rastogi)

Director

Copy to:-

1. The Secretary, Department of Environment, Govt. of Jharkhand, Jharkhand.
2. Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi ? 110 032.
3. Chairman, Jharkhand Pollution Control Board, Jharkhand, Town Administrative Building, H.E.C., Dhruwa, Raanchi - 824004, Jharkhand.
4. The Chief Conservator of Forests (Eastern), Regional Office (EZ), A/3, Chandrasekharpur, Bhubaneswar - 751 023, Orissa.
5. Adviser (IA-II), Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
6. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
7. Monitoring Cell
8. Guard File.
9. Record File.

(Dr. P. B. Rastogi)

Director