

F. No. J-11011/291/2009- IA II (I)
Government of India
Ministry of Environment and Forests
(I.A. Division)

Paryavaran Bhawan
CGO Complex, Lodhi Road
New Delhi – 110 003
E-mail : ms.industry-mef@nic.in
Telefax: 011 – 2436 3973
Dated: November 16, 2009

To,

The Managing Director
M/s Haritha Bio Products India (P) Ltd
Flat no. 301, H. no. 6-3-663/7/C, Vishnu Habitat
Somajiguda, Hyderabad-500082,
Andhra Pradesh

P.No. : 09177044449 Fax: 040-40202579
E-mail : srinivas@harithabioproducts.com

Sub: Proposed 60 KLPD grain based Distillery unit and 2 MW power plant at Parlapalli village, Timmapur Mandal, Karim Nagar District in Andhra Pradesh by M/s Haritha Bio Products India (P) Ltd- reg. Environmental Clearance

Sir,

This has reference to your letter No. nil dated 19th August 2009 and subsequent communication dated 28th October, 2009 along with EIA/EMP and public hearing reports 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 Haritha Bio Products India (P) Ltd have proposed for a 60 KLPD grain based distillery unit to manufacture RS/ENA/Ethanol/Pharma grade alcohol / industrial alcohol and 2 MW power plant at Parlapalli Village, Timmapur Mandal, Karimnagar District in Andhra Pradesh. 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. River Maneru flows at a distance of 6.5 km from the proposed unit. The unit will manufacture Rectified spirit/ENA/Ethanol/Pharma grade alcohol/industrial alcohol of 60 KLPD capacity based on batch fermentation. The total land area available for the unit is 30 acres, of which 10 acres of the land area has been earmarked for green belt. The raw material requirement will be 160 TPH of grains (maize, corn, sorghum grain, broken rice and starch based grains). The unit will operate for 330 days in a year. Cost of the project will be Rs. 52.10 crores.

3. It is noted that water requirement of 1380 m³/day will be sourced from the Maneru reservoir. Permission from the State Irrigation Department to draw water from the river is under process. The total waste water generation will be 579 m³/day, which includes 356 m³/day of spent wash, 30 m³/day of boiler blow down, 25 m³/day of cooling tower blow down, 85 m³/day of DM plant & softener regeneration, 75 m³/day of clarifier blow down and 8 m³/day of domestic effluent. The spent wash will be passed through the decanter centrifuge. Thin slop from the decanter will be concentrated in

Multiple Effect Evaporator to concentrate the solids to 30% of w/w. The thick slop from the MEE and wet cake from the decanter will be sold as cattle feed or taken to dryer to concentrate to 90% solids. Non process effluent will be neutralized and will be used in green belt development. Domestic effluent will be disposed through septic tank/soak pit. A 25 TPH boiler will be installed to meet the steam requirement and to generate 2 MW electricity. Fuel for 25 TPH boiler will be imported coal (50 TPD) or Indian coal (100 TPD) or biomass (150 TPD).

4. Bag filter and stack height of 42.86 m is proposed to control particulate emissions from the boiler. The emissions will be dispersed through stack of 43 m height. Carbon dioxide produced during fermentation will be recovered by scrubbers and recovered CO₂ will be supplied to soft drink manufactures in cylinders. The scrubber blow down will be recycled in to the fermentation

5. The solid waste generation from the unit will be in the form of DDGS (55 TPD) and will be sold as cattle feed. Boiler ash (35 TPD) will be utilized as manure/ given to brick manufacturers/ cement plants.

6 All molasses based and Non molasses based distilleries are listed at Sl. No. 5(g) of schedule of EIA notification, 2006. The molasses based distilleries irrespective of capacity and non molasses based distilleries above 30 KLPD are category 'A' projects and appraised at central level. Public hearing of the project was held on 18.8.2009.

7. The proposal was considered by the Expert Appraisal Committee-2 (Industry) in its 4th meeting held on 23-24th October, 2009. The EAC (I) recommended the proposal for grant of for grant of environmental clearance.

8. Based on the information submitted by you, 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 the 25 TPH boiler shall be controlled by installation of bag filter and emissions shall be dispersed through stack height as per the CPCB guidelines. The particulate emissions shall conform to the prescribed 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 SPM, RSPM, 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 generation shall not exceed 356 m³/d. The spent wash shall be centrifuged in the decanter and after decantation, the slop shall be concentrated in the multiple effect evaporator to concentrate the solids to 30 % w/w. The concentrate from the MEE and wet cake from decanter shall be sold as cattle feed or taken to drier to concentrate to 90% solids to be sold as cattle feed. The non-process effluent (215m³/d) will be in the form of boiler blow down, DM plant, softener regeneration and CT blow down. The boiler blow down and softener regenerated water after neutralization and mixing with cooling tower blow down shall be used for dust suppression/ ash conditioning and onland for irrigation within the plant premises. The treated effluent shall comply with CPCB/State Pollution Control Board standards. The domestic effluent shall be disposed to septic tank/soak pit.
- 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. As per the CPCB recommendation, storage shall not exceed 3 days capacity.
- vi. Adequate numbers of ground water quality monitoring stations by providing piezometers around the 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. The ground water quality monitoring for pH, BOD, COD, Chloride, Sulphate and suspended solids shall be monitored.
- vii. Green belt in 33% 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.
- viii. Permission shall be obtained to draw the water from the State Ground Water Department / Central Ground Water Board as may be applicable to this case.
- ix. Company shall adopt rainwater harvesting measures to recharge the ground water.
- x. The company shall carry risk assessment for storage of ethanol and report submitted to the Ministry.

- xi. 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.
- xii. 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.

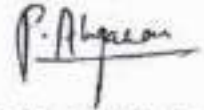
B. GENERAL CONDITIONS:

- 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 SPM, SO₂, NO_x, 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 should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- 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 Bangalore/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.
9. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
10. The Ministry reserves the right to stipulate additional conditions if found necessary. The company will implement these conditions in a time bound manner.

11. 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.

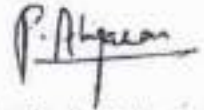
12. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Trans boundary Movement) Rules,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



(Dr. P. L. Ahujarai)
Director

Copy to:

1. The Secretary, State Deptt. of Environment, Government of Andhra Pradesh, Mantralaya, Hyderabad.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
3. The Chairman, Andhra Pradesh State Pollution Control Board, 2nd Floor, HUDA Complex, Maitrivaram, S.R.Nagar, Hyderabad- 500 038.
4. The Chief Conservator of Forests (Central), Regional Office (SZ), Kendriya Sadan, IVth Floor, E&F Wing, 17th Main Road, Koramangala, Bangalore-560034.
5. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi- 110003.
6. Guard file/Record file/Monitoring file.



(Dr. P. L. Ahujarai)
Director