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भारत सरकार
पर्यावरण एवं वन मंत्रालय
GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT & FORESTS

BY SPEED POST

Telefax: 011- 24360488
e-mail- sanchita@nic.in
sansom_2859@yahoo.co.in

File No- J-11011/359/2006-IA-II (I)

Date: 27th August, 2007

To,

M/3 Madhucon Sugar and Power Industries Limited
1-7-70, Jublipura
Khammam - 507 003
Andhra Pradesh
Fax no. 08742- 274408

Subject: Environmental Clearance to 65 KLD Molasses and Grain Based Distillery along with 20 MW Cogeneration Power Plant and Sugar Expansion upto 3500 TCD at village Rajeshwarapuram Mandal Nelakondapalli in District Khammam, Andhra Pradesh by M/s Madhucon Sugar and Power Industries Ltd.

Sir,

Kindly refer to your letter No Nil dated 08.10.2006 seeking environment Clearance for the above mentioned project.

2. The Ministry of Environment and Forests has examined the proposal. It is noted that the proposal is to expand the existing sugar unit from 1250 TCD to 3500 TCD and to install a molasses and grain based distillery of 65 KLD capacity to produce RS/CMA/Ethanol Plant through Fermentation and Distillation using Bio-Still process and Molecular Sieve Technology along with expansion of Co-generation Power Plant of 20 MW. The expansion will be at the existing site at Khammam District in Andhra Pradesh. The Distillery will run for 270 days out of which 113 days on Molasses and 157 days on Grains. This is due to the limited availability of Molasses. 134.23 Acres of land is already available out of which 34.23 acres is built up area and 76 acres is reserved for green belt development. The Molasses will be sourced from company's own Sugar plant and grains will be purchased from external source. The unit will require about 270 MT of Molasses per day and 152 MT of grains. The spent wash generation will be about 520 m³/day which shall be treated through Bio-methanation followed by Bio-composting. Methane gas will be used for boiler. Press-mud requirement for Bio-composting will be at the rate of 1:3.5 of press-mud to effluent. The press-mud requirement will be 16,788 MTA which will be sourced from existing sugar factory. 8 Acres of land will be earmarked for Bio-compost yard. The effluents generated from

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जहाँ है हरियाली।
वहाँ है सुरहाली।।

पर्यावरण भवन, सी.जी.ओ. कॉम्प्लेक्स, लोधी रोड, नई दिल्ली - 110 003
PARYAVARAN BHAWAN, C.G.O. COMPLEX, LODHI ROAD, NEW DELHI - 110 003

TELEPHONE NO. 23380000

grain based alcohol unit will be sent to multistage evaporator and 42 MTD of Distillers dried Grain Soluble will be sold as cattle feed or will be used as fuel in the boiler. During fermentation process about 52 MT of CO2 will be generated as byproduct which will be sold to Bottling units. The waste water generated from proposed expansion of sugar plant will be treated in activated sludge process and sent to irrigation purpose for their fields. The existing 2x20 MT boiler will be replaced with single new Boiler and the existing will be used as standby. The ash generated from Boiler will be used as filler material for Bio-composting and remaining will be sold to brick manufacturing units. The Public Hearing of the project was conducted on 28.12.2006. The total cost of project is Rs. 157.00 Crores out of which Rs 30.00 Crores will be for environmental protection measures

3. The project activity is covered in 5 (g) as 'A' Category under the EIA Notification, 2006. The project was received under the EIA Notification, 2006 and was considered as per the EIA Notification, 1994 in accordance with Para 2.2.1 (i) (a) of the Interim Operational Guidelines dated 13th October, 2006 of the Ministry as the Public Hearing for the project was held on 28.12.2006.

4. 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 the compliance of the following Specific and General conditions:

A. SPECIFIC CONDITIONS

- (i) The Company shall implement all the improvements/ conditions/ recommendations suggested by Public Hearing Panel and report to this extent shall be submitted to this Ministry within three months.
- (ii) The Distillery Unit shall operate only for 270 days out of which 113 days shall be on Molasses and 157 days on Grains. Permission from the Ministry may be obtained for any increase in the working days. The unit will not operate during rainy season.
- (iii) Electrostatic Precipitator (ESP) shall be installed for the control of particulate matter emission from the Baggasse fired Boiler of Power Plant. The flue gas shall be vented through 75 m high chimney.
- (iv) The company shall adopt Continuous Fermentation Technology using Bio-Still process and Molecular Sieve Technology. It shall be ensured that the spent wash generation shall not exceed 7-8 Kl/Kl of alcohol produced. For treatment of

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spent wash the unit shall adopt Bio-methanation followed by Bio-composting. Methane gas shall be used for boiler. The effluents generated from grain based alcohol unit shall be sent to multistage evaporator and 42 MTD of Distillers Dried Grain Soluble Solid (DDGS) waste generated from process shall be sold as cattle feed or shall be used as fuel in the boiler. No effluent shall be discharged outside the factory premises and zero discharge shall be strictly followed.

(v) Land and other requirements for treatment of spent wash with press mud shall be as per the CPCB guidelines. The company shall earmark an area of 8.0 Acre for Bio-composting and storage of finished products. The compost yard shall be made impervious as per the CPCB guidelines.

(vi) The spent wash shall be stored in impervious pucca lagoons of capacity not more than 30 days. The spent wash lagoons shall have proper lining with HDPE and shall be kept in proper condition to prevent ground water pollution. Storage shall be as per the revised guidelines of CPCB.

(vii) The waste water generated from proposed expansion of sugar plant shall be treated in activated sludge process and sent for irrigation.

(viii) Water requirement shall not exceed the present requirement of 1005 cum/day. A copy of the water withdrawal permission shall be submitted to the Ministry.

(ix) 76 Acres of land shall be developed as green belt in consultation with DFO. Selection of plant species shall be as per the CPCB guidelines.

(x) The project authorities shall provide Rs. 30.00 Crores for the environment protection measures. Separate funds for recurring expenditure to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government shall be kept. Also, the implementation schedule for all the conditions stipulated herein shall be submitted. The funds so provided shall not be diverted for any other purpose.

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. Revised Guidelines of 2006 issued by CPCB for Distilleries shall be followed. Where ever the limits are different, as stipulated here, the revised limits of CPCB will prevail.

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- iii. 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.
- iv. Ambient Air Quality Monitoring Stations shall be set up in consultation with the State Pollution Control Board in the down wind direction as well as where maximum ground level concentration of SPM, SO₂, NO_x and RSPM are anticipated. RPM will also be monitored regularly.
- v. Adequate numbers of ground water quality monitoring stations shall be set up around the compost plant and the project area. These monitoring stations will be provided with peizometers. Sampling and trend analysis monitoring must be made on monthly a basis and report submitted to SPCB and this Ministry. The company shall carry out regular analysis of compost, leachate for BOD and pH.
- vi. 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).
- vii. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA /EMP report.
- viii. The ash generated from Boiler shall be used as filter material for Bio-composting and remaining shall be sold to brick manufacturing units.
- ix. Company shall adopt rainwater- harvesting measures to recharge the ground water.
- x. Occupational health surveillance programme shall be undertaken as regular exercise for all the employees. The first aid facilities in the occupational health center shall be strengthened and the medical records of each employee shall be maintained separately.
- xi. A separate environmental management cell equipped with full fledged laboratory facilities must be set up to carry out the environmental management and monitoring functions.

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- xii. The implementation of the project vis-à-vis environmental action plans will be monitored by the concerned Regional Office of the Ministry /State Pollution Control Board/Central Pollution Control Board. A six monthly compliance status report along with the monitored data shall be submitted to the monitoring agencies and shall be posted on the Website of the Proponent.
- 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 Ministry and its concerned Regional Office about date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work.

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

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

7. The above conditions will be enforced along with the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules hereunder.



(Sanchita Jindal)
Additional Director

Copy to:

1. The Secretary, Department of Environment and Forests, Government of Andhra Pradesh, Secretariat, Hyderabad- 500 022, A.P.
2. The Chief Conservator of Forests, Regional Office (Southern Zone) , Ministry of Environment & Forests, Kendriya Sadan ,4th Floor , C& F Wing, 17 Main Road, II Block , Koramangla, Bangalore- 560 034, Karnataka .

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3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Anjun Nagar, New Delhi - 110 032.
4. The Chairman, A.P. Pollution Control Board, Paryavaran Bhawan, A-3, Industrial Estate, Sanath Nagar, Hyderabad- 500 018, A.P.
5. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
6. Guard File.
7. Monitoring File.
8. Record File.

(Sanchita Jindal)
Additional Director