



भारत सरकार
पर्यावरण एवं वन मंत्रालय
Government of India
Ministry of Environment & Forests
(IA Division)

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F. No. J-11011/1156/2007-IA(II)

February 28, 2008

To,

M/s The Andhra Sugars Ltd (Sugar Unit- III)
Village Surappagudem,
Mandal Bhimadole,
West Godavri District,
Andhra Pradesh

Info.tnk@theandhrasugars.com

Sub: Expansion of Sugar unit (1600 to 6000 TCD) and Captive Power Plant (4 to 31MW) at Village Surappagudem, Mandal Bhimadole, West Godavri, A. P. by M/s The Andhra Sugars Ltd(Sugar Unit- III) -Environmental Clearance reg.

Sir,

This has reference to your letter no. D/ASL/07/09 dated 29th August, 2007 along with application in Form-1 and EIA report, seeking environmental clearance for the above project under the Environment Impact Assessment Notification, 2006.

2.0 The Ministry of Environment and Forests has examined the application and noted that M/s The Andhra Sugars Ltd(Sugar Unit- III) have proposed for the expansion of Sugar unit (1600 to 6000 TCD) and Captive Power Plant (4 to 31MW) at Village Surappagudem, Mandal Bhimadole, West Godavri, A. P. by M/s The Andhra Sugars Ltd (Sugar Unit- III). The total cost of the project is Rs. 45 crores. The expansion of the project will be within the existing land. Raw material required for sugar plant is sugarcane and for power plant the bagasse. The air emissions from the boiler will be controlled by installing wet scrubbing system after passing through bagasse dryer and cyclone system. 100 TPH and 50 TPH boilers will be connected with 40 m. high stacks and other boilers will be connected with 30 m. high stack.

3.0 The water requirement of the sugar plant will increase from 154.67 KLD to 524 KLD during crushing season and 1020 KLD during off season. The water requirement will be met from irrigation canal water sources. Utilizing water from the cane and excess condensate (176 KLD) from process after cooling for various purposes shall reduce the

water requirement in the plant during crushing season. Thus total water requirement will be (524 KLD+ 176 KLD) 700 KLD. The total effluent generation will increase from 160 KLD to 587 KLD after expansion. The effluent generation will be mainly from process utilities and domestic facilities. The effluent will be treated in the effluent treatment plant and the treated effluent after meeting APPCB norms for on land irrigation will be stored in 5000 m³. HDPE lined concrete lagoon and will be used for irrigation on own farms and green belt of 58.8 acres. The total area available for green belt will be 58.8 acres.

4.0 The bagasse (1760 TPD) generated in juice extraction process will be used as fuel in the boiler of CPP. The excess bagasse is stored for off season power generation. The filter cake (255 TPD) will be sold to distillery unit. The boiler ash (19.8 TPD) will be sold to brick manufacturers. The sludge from ETP (15 (TPD) will be used as manure. Used lube oil and batteries will be the hazardous waste which will be disposed of through authorized recycles.

5.0 The sugar unit is covered Sr. No. 5(j) of Schedule of EIA Notification, 2006 in 'B' Category. The proposed CPP 15 MW (less than 50 MW) based on bagasse fuel is also listed in Sr. No. 1 (d) in 'B' Category under the Schedule of EIA Notification, 2006 but the Kolleru Lake/birds sanctuary is located at a distance of 7.2 km in South East direction from the plant which is informed as an area protected under international convention and an ecologically sensitive water course hence as per the general conditions mentioned in the end of the Schedule of EIA Notification, 2006 was considered by the EAC(I) in its 77th meeting held on 21st - 24th January 2008 and appraised at centre level though the SEIAA for state of Andhra Pradesh has been constituted. Public hearing has been exempted as per para 7(ii) of the EIA Notification, 2006.

6.0 On the basis of the information provided by the company, the Ministry of Environment and Forests hereby accords environmental clearance to the above project under the provisions of EIA Notification dated 14th September, 2006 subject to compliance of the following specific and general conditions:

A. SPECIFIC CONDITIONS:

- i) The company shall make the plan for protection of runoff from the premises to the Kolleru lake. Details of the plan shall be submitted to the Ministry's Regional Office at Bangalore.
- ii) The total effluent generation after expansion shall not exceed 635 m³/d. Treated effluent shall be utilized for green belt development with due compliance of the APPCB standards for irrigation.
- iii) The company shall obtain permission for drawl of water from the competent authority.
- iv) The emissions from the boiler shall be less than 100mg/Nm³. The boiler stack shall provided with the monitoring arrangements.



- v) The project authorities would adhere to the provision stipulated in the flyash notification of September, 1999 and as amended in August, 2003 in regard to flyash disposal.
- vi) The company shall develop the green belt in 58.8 acres to mitigate the effects of fugitive emissions, odour nuisance and noise and general improvement of the environment all around the plant. The development of green belt shall be as per the Central Pollution Control Board guidelines. Land use of green belt area shall not be changed. →
- vii) Adequate numbers of ground water quality monitoring stations shall be set up around the green belt area. These monitoring stations will be provided with piezometers. The company shall monitor six monthly, the soil and ground water quality in the plant and green belt area to ensure that there shall not be ground water pollution and reports submitted to Ministry's Regional Office/SPCB/CPCB.
- viii) The company shall develop covered storage areas for lime, Sulphur, and Phosphoric acid to avoid mixing of the same with the rain water.
- ix) The project authorities shall comply with CREP guidelines issued by Central Pollution Control Board in letter and words.
- x) (The company shall develop rain water harvesting structures to harvest the run off water for recharge of ground water and promote the rain water harvesting technology villages around the plant. →

B. GENERAL CONDITIONS :

- (i) The project authorities shall strictly adhere to the stipulations of the SPCB/state government or any statutory body.
- (ii) No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. 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.
- (iii) At no time, the emissions shall exceed the prescribed limits. In the event of failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.



- (iv) The gaseous emissions (SO₂, NO_x) and particulate matter along with RSPM levels from various process units shall conform to the standards prescribed by the concerned authorities from time to time.
- (v) The locations of ambient air quality monitoring stations shall be reviewed in consultation with the State Pollution Control Board (SPCB) and additional stations shall be installed, if required, in the downwind direction as well as where maximum ground level concentrations are anticipated.
- (vi) Dedicated ESP/scrubbers and stacks of appropriate height as per the Central Pollution Control Board guidelines shall be provided to control the emissions from various sources.
- (vii) The company shall undertake following Waste Minimization measures.
- Metering and control of quantities of raw materials to minimize waste.
 - Use of automated material handling to minimize spillage.
 - Use of "Closed Feed" system into batch reactors.
 - Use of high pressure hoses for equipment cleaning to reduce wastewater generation.
- (viii) The project authorities shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended and Hazardous Waste (Management and Handling) Rules, 1989, as amended from time to time. Authorization from the SPCB shall be obtained for collection, treatment, storage, and disposal of hazardous wastes.
- (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) Occupational health surveillance of the workers shall be carried out on a regular basis and records shall be maintained as per the Factories Act.
- (xi) The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment. The eco-development plan should be submitted to the SPCB within three months of receipt of this letter for approval.
- (xii) The project proponent shall also comply with all the environmental protection measures and safeguards proposed in the EIA/EMP report.



- (xiii) A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- (xiv) The project authorities shall earmark adequate funds 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.
- (xv) The implementation of the project vis-à-vis environmental action plans shall be monitored by the concerned Regional Office of the Ministry/SPCB / CPCB. A six monthly compliance status report shall be submitted to monitoring agencies and shall be posted on the website of the Company.
- (xvi) 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 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 concerned Regional Office of the Ministry.
- (xvii) 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.

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

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

9. 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 and Handling) Rules, 2003 and the Public Liability Insurance Act, 1991 along with their amendments and rules.


(H. S. Malviya)
Joint Director

Copy to :-

1. The Secretary, Department of Environment and Forests, Govt. of A.P., Secretariat Hyderabad, A.P.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110032.
3. The Chairman, Andhra Pradesh Pollution Control Board, Paryavaran Bhavan, A-3 Industrial Estate, Sanathnagar, Hyderabad- 500018, A.P.
4. ✓ The Chief Conservator of Forests (Central), Ministry of Environment & Forests, Regional Office (SZ), Kendriya Sadan, IVth Floor, E&F wings 17th Main Road, Koramangala II Block, Bangalore-560034, Karnataka.
5. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan. CGO Complex, New Delhi-110003.
6. Guard file.
7. Record file
8. Monitoring file.

(H.S. Malviya)
Joint Director