

**F. No. J-11011/270/2007-LA II (I)**  
**Government of India**  
**Ministry of Environment and Forests**  
**(L.A. Division)**

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Dated 17<sup>th</sup> August,, 2007

To,

**M/s GMR Industries Ltd.**  
**Sankili, Regidi Amudalavalasa,**  
**Srikakulam**  
**A.P.**

**Subject: Expansion of Sugar Plant (2500 TCD to 5000 TCD) at Sankili, Regidi Amudalavalasa, Srikakulam, A.P. by M/s GMR Industries Ltd— Environmental Clearance reg.**

Sir,

This has reference to your letter no. nil dated 13<sup>th</sup> March, 2007, along with application in Form-1 and Rapid 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 your application and noted that M/s GMR Industries Ltd (Sugar Division) have proposed for the expansion of Sugar Plant (2500 TCD to 5000 TCD) at Sankili, Regidi Amudalavalasa, Srikakulam, A.P. Expansion will be done within existing land and no additional land will be acquired. This expansion is exclusively concerned with sugar plant and nothing shall be linked to Distillery and Power plant of the company.

3.0 Production will be expanded by adding the Mill 40"x80". Two Nos. of falling film evaporator bodies HTA 1080m<sup>2</sup> each, SRT clarifier 200m<sup>3</sup>, Continuous vacuum pan 55MT/Hr for A- Masseccuite, Air cooled crystallizer capacity 105 MT, Mono vertical crystallizes (Water cooled) capacity 335MT, Fully automatic batch type centrifugal machines 2 Nos. capacity 1750Kgs/cycle, Continuous centrifugal machine for C- Masseccuite capacity 12MT/Hr, Sugar grinding sizer capacity 35MT/Hr, Armech jet cooling towers - 2 Nos. for cooling hot water from 85°C to 35°C and Anaerobic lagoon 43x43x3.5 mtrs.

4.0 No additional boiler will be installed for the expansion project. ESP will be installed to control air emission to 100 mg/Nm<sup>3</sup> as per CREP recommendations. Total water requirement will be met from Nagavali River. Net water requirement after

*Received letter*  
*on 21/8/07*  
*[Signature]*



expansion will be 595 m<sup>3</sup>/d. Permission for the drawl of 800,000 Cubic Yard/annum (22 Mc ft.) has been accorded by Govt. of A.P.

5.0 Out of total 132.72 acre land, green belt is already developed in 90 acres and further proposed in 22 acres. Total land allocated for the green belt development is 112.72 acres.

6.0 ETP sludge (0.35 TPD) will be composed and used as manure. Agricultural waste e.g. bagasse (1500 TPD) will be used in the existing co-generation plant. Filter cake (200 TPD) will be sent to distillery unit for bio-composing along with spent wash and will be supplied to farmers.

7.0. 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 14<sup>th</sup> September, 2006 subject to compliance of the following specific and general conditions:

**A. SPECIFIC CONDITIONS:**

- i) The total effluent generation after expansion shall not exceed 455 m<sup>3</sup>/d. Treated effluent shall be utilized for green belt development with due compliance of the APPCB standards for irrigation.
- ii) No ground water withdrawal shall be allowed. In future if ground water shall be required, the permission from CGWA/SGWB shall be obtained.
- iii) 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 utilisation.
- iv) The company shall develop the green belt in 112.72 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.
- v) The company shall take adequate steps to avoid odour nuisance from disposal of filter cake and ETP sludge. The transportation of these shall be in covered means.
- vi) 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.



- vii) The company shall develop covered storage areas for lime, sulphur, and Phosphoric acid to avoid mixing of the same with the rain water.

**B. GENERAL CONDITIONS :**

- (i) The project authorities shall strictly adhere to the stipulations of the SPCB/state government or any statutory body.
- (ii) The project authorities shall comply with CREP guidelines issued by Central Pollution Control Board in letter and words.
- (iii) 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.
- (iv) 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.
- (v) The gaseous emissions ( $\text{SO}_2$ ,  $\text{NO}_x$ ) 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.
- (vi) 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.
- (vii) 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.
- (viii) The company shall undertake following Waste Minimization measures.
- Metering and control of quantities of rawmaterials to minimize waste.
  - Use of automated material handling to minimize spillage.
  - Use of "Close Feed" system into batch reactors.
  - Use of high pressure hoses for equipment cleaning to reduce wastewater generation.

- (ix) The project authorities shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended in October, 1994 and January, 2000 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.
- (x) 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).
- (xi) The company shall develop rain water harvesting structures to harvest the run off water for recharge of ground water.
- (xii) Occupational health surveillance of the workers shall be carried out on a regular basis and records shall be maintained as per the Factories Act.
- (xiii) 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.
- (xiv) The project proponent shall also comply with all the environmental protection measures and safeguards proposed in the EIA/EMP report.
- (xv) A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- (xvi) 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.
- (xvii) 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.
- (xviii) 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.

- (xix) 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.

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 in a time bound manner will implement these conditions.

10. 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 17<sup>th</sup> 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