

Dr. R. ANNAMALAI, I.F.S.,
DIRECTOR OF ENVIRONMENT AND
MEMBER SECRETARY



**STATE LEVEL ENVIRONMENT
IMPACT ASSESSMENT AUTHORITY,
TAMILNADU,**

Tamilnadu Pollution Control Board Premises,
76, Mount Salai, Guindy,
Chennai- 600 032.

No.SEIAA/TN/EC/1(d)/007/F-183/2009 Dated: 26.06.2009

To

The Managing Director,
M/s. Dharani Sugars and Chemicals Ltd.,
Unit-III, Co-gen Unit,
'PGP House',
57, Sterling Road, Nungambakkam,
Chennai - 600 034

Sir,

Sub: SEIAA - M/s.Dharani Sugars and Chemicals Ltd., Unit-III, (Co-gen Unit)
S.F.No.46,47,48,49,50,51, Kalayanallur village, Sankarapuram Taluk,
Villupuram District – Proposed Co-gen Power Plant – 22 MW -
Environmental Clearance - Regarding.

This has reference to your application No.Nil, dated 22.01.2008 submitted to the MoEF, Gol, New Delhi seeking Environmental Clearance under the Environment Impact Assessment Notification, 2006. The proposal has been appraised by the MoEF, New Delhi & TOR was issued vide Lr.No.J13012/25/2008 -IA II (T) dated 1.5.2008. Later, the SEIAA, Tamilnadu has received this application from the Ministry of Environment & Forests, Government of India, after formation of the State Level Environment Impact Assessment Authority (SEIAA) and the State Level Expert Appraisal Committee (SEAC) for Tamil Nadu. The proposal has been appraised by the State Level Expert Appraisal Committee (SEAC) in its meeting held on 19th – 20th March 2009 as per the prescribed procedure in the light of provisions under the EIA Notification, 2006 on the basis of the mandatory documents enclosed with the application Viz., the Application Form- I, EIA-EMP report.

It is noted, interalia that the project proposal involves installation of co-generation power plant of 22 MW Capacity by installing 110 TPH Boiler using bagasse as fuel. No ecologically sensitive area exists within 10 Km periphery of the project site. The project does not involve any Rehabilitation & Resettlement. The cost of the project is Rs. 111.96 Crores.

It is proposed to utilize bagasse 31500 T/M (season) and 27360 T/M (off-season) as fuel. Backup Power requirement will be met with D.G Sets of 1500 KVA & 250 KVA capacity. The fresh water requirement will be 252 KLD which will be met through bore wells vide agreement entered with PWD, WRO, Ground water Division, Cuddalore dated 16.10.08. 213 KLD of trade effluent will be generated from Boiler blow-down (48 KLD), RO reject (120 KLD) and cooling water blow down (45 KLD) and 10.8 KLD of sewage will be generated during operation.

Sewage & trade effluent will be treated in the ETP of 900 KLD capacity of the sugar plant. Treated effluent will be used for gardening / irrigation on their own land. Electrostatic Precipitator with stack of height 70 m will be provided to control particulate matter emission. The Ash, 15 T/D from the process & from the Air Pollution control measures will be used as manure.

The project activity is listed at 1 (d) and is of 'B1' Category project in the Schedule of EIA Notification, 2006. Public Hearing was conducted for the project on 22.07.2008 at the District Collector's Office, Villupuram as required.

Based on the information submitted by you, the SEAC after due consideration of the relevant documents and additional particulars submitted by the Project Proponent has recommended to the SEIAA, Tamil Nadu to grant Environmental Clearance to this project subject to certain conditions. The proposal was considered by the SEIAA, Tamil Nadu in its meeting held on 15.5.2009 and as the public consultation was also carried out as required for the project, the SEIAA hereby accords Environmental Clearance to the above project under the provisions of the EIA Notification dated 14th September, 2006 based on the recommendations of the SEAC subject to the strict compliance of the following terms and conditions:

PART A- SPECIFIC CONDITIONS Environment Management Measures

- i) "Consent for Establishment" shall be obtained from the Tamil Nadu Pollution Control Board and a copy shall be furnished to the SEIAA, Tamil Nadu before taking up of any construction activity at the site.
- ii) Incremental pollution loads on the ambient air quality, noise and water quality shall be periodically monitored after commissioning of the project.
- iii) Suitable Air Pollution Control System (ESP) and stacks of appropriate height as per the CPCB guidelines shall be provided to control emissions from various sources and shall ensure emissions levels below the

standards prescribed by the Tamil Nadu Pollution Control Board. Separate electric meters should be provided to the Air Pollution Monitoring System and a separate log book maintained for the daily meter readings and monthly report submitted to Tamil Nadu Pollution Control Board.

- iv) All the conditions stipulated by the Tamil Nadu State Pollution Control Board in their CFE order shall be strictly implemented.
- v) Water requirement of 252 m³ /day should be met from bore wells with the existing permission available. No excess ground water shall be drawn for the power plant without previous approval of the Competent Authority.
- vi) The boiler blow-down, cooling water blow down and RO rejects shall be treated in the sugar plant ETP.
- vii) Sewage generated shall be treated in the sugar plant ETP.
- viii) For controlling fugitive dust inside and outside premises of the plant and vulnerable areas of the plant and dust extraction and suppression system and water sprinklers shall be provided.
- ix) Noise level shall be limited to 55 dBA. For people working in high noise area, requisite personal protective equipment like earplugs etc. shall be provided.
- x) The stack emissions from all the sources shall not exceed 50 mg/Nm³. 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.
- xi) The gaseous emissions (SO₂, NO_x) and particulate matter from Boilers, DG sets and other processes shall conform to the standards prescribed by the concerned authorities from time to time.
- xii) Regular monitoring of the air and water quality should be carried out in and around the power plant and records be maintained. Six monthly reports shall be submitted to the Tamil Nadu Pollution Control Board and MOEF Regional Office, Bangalore.
- xiii) A separate environment and safety management cell with qualified staff shall be set up before commission of construction activities and shall be maintained through out the lifetime of the industry, for implementation of the stipulated environmental safeguards.
- xiv) The unit shall provide on line continuous stack monitoring for SO_x, NO_x, CO, SPM for the proposed boiler.
- xv) The unit shall provide adequate control measures for the CO emission during start up and shut down operations of the boiler.

- xvi) Ash generated should be disposed as per the provisions stipulated in the Fly-ash Notification of September, 1999 and as amended in August, 2003.
- xvii) For Solid-waste management for biodegradable waste, composting arrangements shall be provided at site.
- xviii) The Proponent shall furnish an undertaking that they will abide by the conditions / recommendations mentioned in the EIA/RA report furnished by them.
- xix) The Environmental Clearance is hereby accorded only for the installation of boiler & turbine for power generation of 22 MW.
- xx) It is mandatory for the project proponent to furnish to the SEIAA, Half yearly compliance report in hard and soft copies on 1st June and 1st December of each calendar year in respect of the conditions stipulated in the prior Environmental clearance.

B. GENERAL CONDITIONS:

- i) The Environmental Clearance does not absolve the applicant/proponent of his obligation/requirement to obtain other statutory and administrative clearance from other statutory and administrative authorities.
- ii) No further expansion or modifications in the plant shall be carried out without prior approval of the SEIAA. In case of deviations or alterations in the project proposal from those submitted for clearance, a fresh reference shall be made to the SEIAA to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- iii) Occupational health surveillance of the workers shall be carried out on a regular basis and records shall be maintained as per the Factories Act, 1948.
- iv) Proper House keeping programmes shall be taken up.
- v) Usage of Personal Protective Equipments (PPEs) by all employees/workers shall be ensured.
- vi) The project proponent shall harvest surface as well as rainwater from the roof tops of the buildings proposed and storm water drains to recharge the ground water.
- vii) The project proponent shall also comply with all the environmental protection measures and safeguards proposed in the EMP report.
- viii) The project proponent shall advertise in at least two local newspapers widely circulated in the region, one of which shall be in the vernacular language informing the public that
 - i) The project has been accorded Environmental Clearance.
 - ii) Copies of clearance letters are available with the Tamil Nadu Pollution Control Board.

iii) Environmental Clearance may also be seen on the website of the SEIAA.

The advertisement should be issued within 7 days from the date of issue of the clearance letter and a copy of the same shall be forwarded to the SEIAA.

- ix) The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- x) The SEIAA reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.
- xi) 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 Transboundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.

**Member Secretary,
State Level Environment Impact
Assessment Authority,
Tamil Nadu.**

Copy to:-

1. The Principal Secretary to Government, Environment & Forests Dept, Govt. of Tamil Nadu, Fort St. George, Chennai-9.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD Cum-Office Complex, East Arjun Nagar, New Delhi - 110032.
3. The Member Secretary, Tamil Nadu Pollution Control Board, 76, Mount Salai, Guindy, Chennai - 600 032.
4. The CCF, Regional Office, Ministry of Environment & Forest (SZ), Kendriya Sadan, IV floor, E&F wings, 17th Main Road, Koramangala II Block, Bangalore - 560034.
5. Monitoring Cell, I A Division, Ministry of Environment & Forests, Paryavaran Bhavan, CGO Complex, New Delhi - 110003.
6. The Commissioner, Thyagadurgam Panchayat Union, Thyagadurgam.
7. Stock File.