

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)/004/F-107/2008 Dated: 03.01.2009

To,

The General Manager (Projects),
M/s. Synergy Shakthi Renewable
Energy Limited,
No. 11, Patullos Road,
Chennai – 600 002.

Sir,

Sub: SEIAA - M/s. Synergy Shakthi Renewable Energy Limited, Plot B-1,
Bargur SIPCOT Industrial Complex, Olaihatti village, Uthangarai Taluk,
Krishnagiri District, Tamil Nadu – Bio-mass Power Plant -
Environmental Clearance - Regarding.

This has reference to your application dated 27.11.2007 submitted to MoEF, GOI seeking Environmental Clearance under the Environment Impact Assessment Notification, 2006 and your letter dated 28.06.2008 submitted to the SEIAA, Tamil Nadu with copy of TORs issued by the Ministry of Environment & Forests, Government of India in letter dated 12.03.2008 along with additional details. The proposal has been appraised by the State Level Expert Appraisal Committee in its meeting held on 17th – 19th July 2008 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, REIA-EMP report and other details furnished by the project proponent.

It is noted, interalia that the project proposal involves Bio-mass based power plant of 10 MW at Plot B-1, Bargur SIPCOT Industrial Complex, Olaihatti village, Uthangarai Taluk, Krishnagiri District, Tamil Nadu. The area of the plot is 11.61 Hectares. 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. 42.98 Crores.

It is proposed to utilize Bio-mass – 307.2 TPD and 6000 T of coal per year (during rainy days) as raw material. The water requirement will be 190.5 KLD which will be met through SIPCOT supply. 65.5 KLD of trade effluent will be generated from Boiler blow-down, DM plant regeneration and cooling water blow down and 2.4 KLD of sewage will be generated during operation.

Sewage will be treated in Septic Tank and disposed through Dispersion trench arrangement. Trade effluent will be taken to common guard pond and used for green belt and ash quenching. Electrostatic Precipitator will be provided to control particulate matter emission. The Ash, Solid waste from the process & from the Air Pollution control measures will be used as soil conditioner.

The project activity is listed at 1 (d) and falls under B1 Category included in the Schedule of EIA Notification, 2006. No public hearing is required as per para 7(i) III stage (3)(b) of EIA notification 2006, since the unit is located within the notified SIPCOT Industrial Complex, Bargur.

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. The proposal was considered by SEIAA, Tamil Nadu in its meeting held on 22.12.2008 and the public consultation not 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 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) Sewage shall be treated in Septic Tank and disposed through Dispersion trench arrangement.
- iii) Trade effluent shall be taken to common guard pond and used for green belt and ash quenching as committed.
- iv) Incremental pollution loads on the ambient air quality, noise and water quality shall be periodically monitored after expansion of the project.
- v) Electro Static Precipitator and other suitable Air Pollution Control System 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 shall be provided to the Air Pollution Control System and a separate log book maintained for the

daily meter readings and monthly report submitted to Tamil Nadu Pollution Control Board.

- vi) The Project proponent shall install the Air Pollution Control system as committed.
- vii) All the conditions stipulated by Tamil Nadu Pollution Control Board in their Consent for Establishment order shall be strictly implemented.
- viii) Only Biomass shall be used as fuel. Coal shall be used only for the maximum of 30 days in a year during rainy days and that Coal shall have sulphur content not exceeding 0.5% and biomass shall not be mixed and shall be used alternately.
- ix) Advance information shall be given to the TNPCB before using coal.
- x) Water requirement of 190.5 m³ /day should be met from SIPCOT supply. No ground water shall be drawn.
- xi) Noise level shall be limited to 75 dBA. For people working in high noise area, requisite personal protective equipment like ear plugs etc. shall be provided.
- xii) 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.
- xiii) For controlling fugitive dust inside and outside the plant premises and vulnerable areas of the plant and dust extraction and suppression system and water sprinklers shall be ensured.
- xiv) 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.
- xv) Regular monitoring of the air and water quality shall be carried out in and around the power plant and records must be maintained. Six monthly reports shall be submitted to the Tamil Nadu Pollution Control Board and MOEF Regional Office, Bangalore.
- xvi) A separate environment and safety management cell with qualified staff shall be set up before commissioning of construction activities and shall be retained through out the lifetime of the industry, for implementation of the stipulated environmental safeguards.
- xvii) The unit shall provide on line continuous stack monitoring for SO_x, NO_x, CO, SPM, VOC for the boiler.
- xviii) The unit shall provide adequate control measures for the CO emission during start up and shut down operations of the boiler.

- xix) For Solid-waste management, composting arrangements shall be provided for biodegradable waste at site.
- xx) Ash generated should be disposed as per the provisions stipulated in the Fly-ash Notification of September, 1999 and as amended in August, 2003.
- xxi) The Ash, solid waste from the process and from the Air Pollution Control Equipments shall be used as soil conditioner as committed.
- xxii) The Proponent shall furnish an undertaking that they will abide by the conditions / recommendations mentioned in the EIA/RA report furnished by them.
- xxiii) The industry shall promote tree plantation to neutralize their carbon foot print.
- xxiv) 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 adopted.
- 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) A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.

- ix) 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 shall 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.
- x) The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xi) The SEIAA reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.
- xii) The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the 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 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. Stock File.