

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



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

4-D, Panagal Maligai, 1 Jennis Road,  
Saidapet,  
Chennai-600 015.

**Letter No. SEIAA /TN/EC/8(b)/052/F-153/ 2009 / dt.14. 07.2009**

To

The Authorised Signatory,  
M/s.Mahindra Residential Developers Limited,  
Administrative Block, Central Avenue,  
Mahindra World City, Natham Sub Post,  
Chengalpattu,  
Kancheepuram District-603 002.

Sir,

Sub: SEIAA –M/s.Mahindra Residential Developers Limited-Proposed housing complex at RS.Nos.24/2, 26/1,2, 27,28 etc. of Hanumanthai Village and R.S.Nos 1/1,2,3, 2/1A,1B etc.of Thenmelpakkam Village, Chengalpattu Taluk, Kancheepuram District - Environmental Clearance - reg.

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This has reference to your application No.Nil dated 21.08.2008 submitted to the State Level Environment Impact Assessment Authority, Tamil Nadu seeking Environmental Clearance under the Environment Impact Assessment Notification, 2006. The Proposal has been appraised by the State Level Expert Appraisal Committee in its meetings held on 17<sup>th</sup> February 2009 and 21<sup>st</sup> & 22<sup>nd</sup> May, 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-1, Form-IA, Conceptual Plan and the additional clarifications furnished by the proponent.

It is noted, interalia that the project proposal involves the construction of Housing complex as per application submitted. The area of the plot is 221645.8 m<sup>2</sup> and total built-up area as reported is 150748 m<sup>2</sup> comprising of 2 Bed room flats-26, 3 Bed room flats – 558, Villas – 105 and Twin Bungalows-36. Water requirement of the project is 440 KLD and daily fresh water requirement is 294

KLD, which will be met from the supply of Mahindra World City. It has been proposed to provide a sewage treatment plant of 446 KLD capacity for treatment of sewage. The treated sewage of 432 KLD will be used for toilet flushing (147 KLD), and gardening (285 KLD). Solid waste generation has been projected as 930 Kg/day. Parking area is proposed for 1300 cars and 600 two wheelers. The power required is of 11 MV with backup power of 5 Nos, DG set of capacity 250 KVA each and 1 No.of 320 KVA. The total cost of the project is about Rs.300 Crores.

The project activity is covered in 8(b) of the Schedule and is of 'B2' category. It does not require Public Consultation as per Para 7(i) III Stage (3)(d) "Public Consultation" of EIA Notification, 2006.

The SEAC, after due consideration of the relevant documents submitted by the Project Proponent and additional clarifications furnished in response to its observations has recommended to the SEIAA, Tamil Nadu to grant Environmental Clearance to this project. The proposal was considered by the SEIAA, Tamil Nadu in its meeting held on 03.07.2009 and as the public consultation is not required for the project, the SEIAA hereby accords Environmental Clearance to the above project under the provisions of EIA Notification dated 14<sup>th</sup> September, 2006 based on the recommendations of the SEAC subject to the strict compliance of the terms and conditions stipulated below:

## **PART A- SPECIFIC CONDITIONS**

### **Construction Phase**

- i) "Consent for Establishment" shall be obtained from the Tamil Nadu Pollution Control Board and a copy shall be submitted to the SEIAA, Tamil Nadu before taking up of any construction activity at the site.
- ii) All required sanitary and hygienic measures should be in place before starting construction activities and they have to be maintained throughout the construction phase.

- iii) A First Aid Room shall be provided in the project site during the construction of the project.
- iv) Adequate drinking water and sanitary facilities should be provided for construction workers at the site. The safe disposal of waste water and solid wastes generated during the construction phase should be ensured.
- v) All the labourers to be engaged for construction should be screened for health and adequately treated before and during their employment on the work at the site.
- vi) For disinfection of waste-water, system using ultra violet radiation shall be adopted.
- vii) For Solid-waste management, composting arrangements shall be provided for biodegradable waste at site.
- viii) All the top soil excavated during construction activities should be stored for use in horticulture/ landscape development within the project site.
- ix) Disposal of muck during construction phase should not create any adverse effect on the neighboring communities and be disposed of only in approved sites with the approval of competent authority with necessary precautions for general safety and health aspects of people.
- x) Soil and ground water samples shall be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.
- xi) Construction spoils, including bituminous materials and other hazardous materials, must not be allowed to contaminate watercourses. The dump sites for such materials must be secured so that they should not leach into the ground water.
- xii) Low sulphur diesel shall be used for the diesel generator sets to be used during construction phase. The air and noise emission shall conform to the standards prescribed in the Rules under the Environment (Protection) Act, 1986.

- xiii) Vehicles hired for bringing construction materials to the site should be in good condition and should conform to air and noise emission standards, prescribed by TNPCB/CPCB. The vehicles should be operated only during non-peak hours.
- xiv) Ambient air and noise level should conform to residential standards prescribed by the TNPCB both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase.
- xv) Fly ash should be used as building material in the construction as per the provision of Fly ash Notification of September, 1999 as amended in August, 2003.
- xvi) Ready mixed concrete must be used in building construction.
- xvii) Storm water control and its re-use shall be as per CGWB and BIS standards for various applications.
- xviii) Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices prevalent.
- xix) For extraction of water the applicant should obtain necessary permit/permission from the State/Central Ground Water Authority for the extraction of ground water for accessing supply to the project and for transportation of water to the project for domestic/other uses during the construction and occupation stages.
- xx) Fixtures for showers, toilet flushing and drinking water should be of low flow type by adopting the use of aerators / pressure reducing devices / sensor based control.
- xxi) Use of glass may be reduced up to 40% to reduce the electricity consumption and load on air conditioning. If necessary, high quality double glass with special reflecting coating in windows shall be used.
- xxii) Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfill requirement.

- xxiii) Adequate measures to reduce air and noise pollution during construction shall be adopted, conforming with norms prescribed by the TNPCB on noise limits.
- xxiv) Opaque wall should meet prescriptive requirement as per Energy Conservation Building Code which is mandatory for all air conditioned spaces by use of appropriate thermal insulation material to fulfill requirement.
- xxv) The Project proponent is requested to indicate the probable date of commissioning of the project supported with necessary bar charts.

### **Operation Phase**

- i) The installation of the sewage treatment plant (STP) shall be certified by an independent expert and a report in this regard shall be sent to the SEIAA before the project is commissioned for operation. Discharge of treated sewage shall conform to the norms & standards prescribed by the Tamil Nadu Pollution Control Board.
- ii) For disinfection of waste-water, system using ultra violet radiation shall be adopted.
- iii) The unit shall furnish separate plan of action for disposal of treated sewage during monsoon.
- iv) Rain water harvesting for roof run-off and surface run-off, as per plan submitted should be implemented. Before recharging the surface run off, pre-treatment with screens, settlers etc. must be done to remove suspended matter, oil and grease.
- v) Permission to draw water for operation should be obtained from the competent authority prior to operation of the project.
- vi) A First Aid Room shall be provided during operation of the project.
- vii) The domestic solid waste generated shall be properly collected, segregated & composted within the premises with respect to organic waste.
- viii) The STP sludge shall be composted along with other biodegradable solid waste and used as manure.

- ix) The Plastic wastes shall be segregated and disposed through recyclers.
- x) Any hazardous waste including biomedical waste shall be disposed off as per applicable rules & norms with necessary approval of the Tamil Nadu Pollution Control Board.
- xi) The acoustic enclosures shall be installed at all noise generating equipments such as DG sets, air conditioning systems, etc. and the noise level shall be maintained as per MoEF/CPCB/TNPCB guidelines/norms both during day and night time.
- xii) The green belt design along the periphery of the plot shall achieve attenuation factor conforming to the day and night noise standards prescribed for residential land use. The open spaces inside the plot shall be suitably landscaped and covered with vegetation of suitable variety.
- xiii) Incremental pollution loads on the ambient air quality, noise and water quality shall be periodically monitored after commissioning of the project.
- xiv) Application of solar energy should be incorporated for illumination of common areas, lighting for gardens and street lighting in addition to provision for solar water heating. A hybrids system or fully solar system for a portion of the apartments shall be provided.
- xv) Traffic congestion near the entry and exit points from the roads adjoining the proposed projects site shall be avoided. Parking shall be fully internalized and no public space should be utilized.
- xvi) A report on the energy conservation measures conforming to energy conservation norms prescribed by the Bureau of Energy Efficiency shall be prepared incorporating details about building materials & technology; R & U factors etc and submitted to the SEIAA in three month's time.

## **PART-B. GENERAL CONDITIONS**

- 1) It is mandatory for the Project proponent to furnish to the SEIAA, Half yearly compliance report in Hard and Soft copies on 1<sup>st</sup> June and 1<sup>st</sup> December of each calendar year in respect of the conditions stipulated in the prior Environmental Clearance.
- 2) In the case of any change(s) in the scope of the project, a fresh appraisal by the SEIAA shall be obtained.
- 3) The SEIAA reserves the right to add additional safeguard measures subsequently, if found necessary and to take action including revoking of the Environmental Clearance under the provisions of the Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.
- 4) All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire and Rescue Services Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wild Life (Protection) Act, 1972, State / Central Ground Water Authority, Coastal Regulatory Zone Authority, other statutory and other authorities as applicable to the project shall be obtained by project proponent from the competent authorities.
- 5) 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 made within 7 days from the date of issue of the clearance letter and a copy of the same shall be forwarded to the SEIAA.

- 6) All the stipulations stated under Part A and Part B above would be enforced in addition to the provisions of the Water (Prevention and Control of Pollution) Act,1974, the Air (Prevention and Control of Pollution) Act,1981, the Environment (Protection) Act,1986, the Public Liability (Insurance) Act,1991 and EIA Notification, 2006.
- 7) Under the provisions of Environment (Protection) Act, 1986, legal action shall be initiated against the project proponent if it was found that Construction of the project has been started without obtaining Environmental Clearance, and for action for any violation of any condition stipulated in Part – A & Part – B of the Environmental Clearance.
- 8) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MoEF, Bengaluru, the Zonal Office of CPCB, Bengaluru and the TNPCB. This shall also be put on the website of the Company by the proponent.
- 9) The Environmental Statement for each financial year ending 31<sup>st</sup> March in Form-V as is mandated has to be submitted by the project proponent to the Tamil Nadu Pollution Control Board as prescribed under the Environment (Protection)Rules, 1986, as amended subsequently and shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the Regional Office of MoEF, Bengaluru by e-mail.
- 10) The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office, of MoEF, Bengalurur, the respective Zonal Office of CPCB, Bengaluru and the TNPCB. The criteria pollutant levels namely; SPM, RSPM, SO<sub>2</sub>, NO<sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.

- 11) A copy of the clearance letter shall be sent by the proponent to the Commissioner, Kattangolathur Panchayat Union, Kancheepuram District and the Local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter, shall also be put on the website of the Company by the proponent.
- 12) This Environmental Clearance is subject to final orders of the Hon'ble Supreme Court of India in the matter of Goa foundation Vs. Union of India in Writ Petition (civil) No.460 of 2004 as may be applicable to this project.
- 13) This Environmental Clearance is valid for five years from the date of issue.

**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, 17<sup>th</sup> 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, Kattangolathur Panchayat Union, Kancheepuram District.
7. Stock File.