

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/5(f)/005 /F-117/ 2009 / dt. 09. 07.09

To

The General Works Manager,
M/s.Asian Paints Limited,
Penta Division,
B 5 to B 10, SIPCOT Industrial Complex,
Kudikadu,
Cuddalore - 607 005.

Sir,

Sub: SEIAA –M/s.Asian Paints Ltd, Penta Division, B5 to B-10 –
SIPCOT Industrial Complex, Kudikadu village, Cuddalore Taluk,
Cuddalore District - Proposed enhancement in production
capacity - Environmental Clearance - reg.

This has reference to your application No.APL/CDL/TNPCB /1868/
2008-09/ dated:23.7.08 to the SEIAA, Tamilnadu along with Form-1 and other
details for enhancing the production capacity of M/s.Asian Paints Limited,
Penta Division at No.B5 to B10 of SIPCOT Industrial Complex, Kudikadu
Village, Cuddalore Taluk, Cuddalore District seeking Environmental Clearance
under the Environment Impact Assessment Notification, 2006. The proposal
has been appraised by the State Level Expert Appraisal Committee during its
meeting held on 16th & 17th September 2008, 19th & 20th December 2008 and
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, and EIA
report and the additional clarifications furnished in response to the
observations of the State Expert Appraisal Committee.

It is noted interalia that the project proposal involves expansion (by process optimization) for enhanced quantity of production in M/s. Asian Paints Ltd, Penta Division located at B5 to B10 of SIPCOT Industrial Complex, Kudikadu Village, Cuddalore Taluk, Cuddalore District. No ecologically sensitive area exists within 10 km periphery of the project site. The project does not involve any rehabilitation and resettlement. The proposal involves expansion of the products as follows:

Sl.No.	Name of the products	Existing T/M	Expansion T/M
01	Penta erythritol	350	450
02	By-product:-Sodium formate	150	275
03	Formaldehyde	410	675

The total land area of the project is 29.024 acres of which the green belt area is 14 acres. The total cost of the expansion project is Rs.1.1 crore. Water requirement of 695 KLD will be sourced from SIPCOT supply. The waste water generated from process (135 KLD) will be treated in the effluent treatment plant. Domestic effluent (35 KLD) will be combined with the trade effluent and treated in the effluent treatment plant. The treated sewage and trade effluent will be pumped to M/s.CUSECS line for sea disposal. Dynamic wet scrubber for the process emissions and bag filter for the 14 TPH boiler has been provided as APC measures. One number 500 KVA and 600 KVA DG sets are installed for emergency purpose. The hazardous waste generated (sludge from ETP-12.4 T/y, spent carbon-200 kg/y) will be collected, stored and sent to the Common Hazardous Waste Management Facility of TNWML at SIPCOT Industrial Complex, Gummidipoondi, Chennai. The spent oil – 900 lt /y, waste oil – 300 lt/y will be sent to the TNPCB / CPCB authorized recyclers.

The project activity is listed at 5 (f) in the Schedule of EIA Notification, 2006 and is of B2 Category. Public Hearing/consultation not required for the project as it is located in a notified SIPCOT Industrial Complex at Kudikadu Village, Cuddalore District. The Chairman & Managing Director, SIPCOT, Chennai-600 008 in his letter dated 12.6.2009 has informed that the manufacture of Synthetic Organic Chemicals is a permitted activity in the SIPCOT Industrial Complex, Cuddalore and that the common infrastructure facilities viz Roads, Water Supply, sewer line, STP and Power supply are adequate for the expansion activity.

The SEAC after due consideration of the relevant documents, information furnished by you, has recommended to the SEIAA, Tamil Nadu to grant Environmental Clearance to this project subject to certain conditions. The proposal was considered by SEIAA, Tamil Nadu in its meeting held on 16.04.2009 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 14th September, 2006 based on the recommendations of the SEAC subject to the strict compliance of the following terms and conditions:

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. Domestic effluent and trade effluent generated from the unit shall be treated in the combined
- iii. effluent treatment plant consisting of equalization tank, settling tank, buffer tank, nutrient addition tank, aeration tank, clarifier, settling tank-2 Nos, WTP/cooling tower effluent collection tank, sludge drying beds, pressure sand filter and activated carbon filters and the treated effluent shall satisfy the standards prescribed by TNPCB. The treated effluent shall be disposed through the marine out fall of CUSECS as committed.
- iv. The water requirement shall not exceed 695 KLD which shall be met from SIPCOT supply.

- v. Emergency or accidental Process emissions & the off gas from the process vents shall be scrubbed in water and Caustic lye solution scrubber. The scrubbing liquid shall be sent to ETP for treatment.
- vi. The project authorities shall strictly comply with the provisions made in Manufacture, Storage and Import of Hazardous Chemicals Rules 1989, as amended in 2000 and the Public Liability Insurance Act for handling of hazardous chemicals etc. Necessary approvals from the Chief Controller of Explosives must be obtained before commissioning of the project. Requisite On-site and Off-site Disaster Management Plans have to be prepared and implemented.
- vii. The project authorities shall provide adequate funds both recurring and non-recurring to implement the Environmental Management Measures stipulated by the SEIAA along with the implementation schedule for all the conditions stipulated herein. The funds so provided should not be diverted for any other purposes.
- viii. A separate Cell with adequate technically competent staff should be appointed to operate the Environmental Control measures and which should report directly to the top Executive of the plant premises.
- ix. Regular Ambient Air Quality Monitoring shall be carried out for VOC and HC besides other parameters in ambient air around the Plant. The location and results of existing monitoring stations will be reviewed in consultation with the concerned State Pollution Control Board based on the occurrence of maximum ground level concentration and downwind direction of wind. Additional Stations shall be set up, if required. It shall be ensured that at least one monitoring station is set up in up-wind & in down-wind direction along with those in other directions.
- x. Occupational health surveillance of workers shall be done on a regular basis and records maintained as per the Factories Act, 1948.
- xi. Proper House keeping and adequate occupational health programme shall be taken up. Regular Occupational Health Surveillance Programme for the relevant diseases shall be carried out and the

records shall be maintained properly for at least 10 years. Sufficient preventive measures shall be adopted to avoid direct exposure to emissions and other Hydrocarbons etc.

- xii. The proponent shall undertake periodical health monitoring of the workers with special reference to the impact on the respiratory and renal system and maintain the document and appropriate monitoring gadget to be deployed to monitor VOC.
- xiii. The overall noise levels in and around the plant area shall be kept well within the standards prescribed by the TNPCB by providing noise control measures on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- xiv. HCl, HBr, and vapour emissions from the reactors/process vents shall be provided with suitable scrubbers and condensers. Scrubber efficiency shall be minimum 99%.
- xv. Regular monitoring of VOC and HC in the Work Zone Area in the Plant shall be carried out and data be submitted to SEIAA / TNPCB. Quarterly monitoring of fugitive emissions shall be carried out as per the Guidelines of CPCB.
- xvi. The Company shall harvest surface as well as rainwater from the rooftops of the buildings in the project and storm water drains to recharge the ground water and use the same water for the various activities of the project to conserve fresh water.
- xvii. The Proponent shall furnish an undertaking that they will abide by the conditions/recommendations mentioned in the EIA/RA report furnished by them.
- xviii. Greenbelt shall be developed to mitigate the effect of fugitive emissions all around the plant in a minimum 30% plant area in consultation with the District Forest Officer (DFO) as per CPCB guidelines.
- xix. Hazardous Solid waste from process (ETP sludge & spent carbon) shall be sent to the Common SIPCOT Industrial Complex, TSDF,

Gummidipoondi. Handling and disposal of Hazardous waste should comply with TNPCB norms.

- xx. Stringent odour control measures should be implemented to prevent totally odour nuisance totally to the neighbourhood population and industrial units in a complete and adequate manner.
- xxi. 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.
- xxii. The unit has to continue to monitor their new product with appropriate gadgets.

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 the concerned statutory and administrative authorities.
- ii) "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.
- iii) 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.
- iv) 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.
- v) Usage of Personal Protective Equipments (PPEs) by all employees/workers shall be ensured.
- vi) The project proponent shall also comply with all the environmental protection measures and safeguards proposed in the EMP report.

- vii) 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. The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

- viii) The SEIAA reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.
- ix) 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.
- x) 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.
- xi) The Environmental Statement for each financial year ending 31st 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.

- xii) 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, Bengaluru, the Zonal Office of CPCB, Bengaluru and the TNPCB. The criteria pollutant levels namely; SPM, RSPM, SO₂, NO_x (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.
- xiii) A copy of the clearance letter shall be sent by the proponent to the Commissioner, Cuddalore Panchayat Union 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.

**Member Secretary,
State 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-600 009.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD Cum-Office Complex, East Arjun Nagar, New Delhi 110 032.
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 – 560 034.
5. Monitoring Cell, I A Division, Ministry of Environment & Forests, Paryavaran Bhavan, CGO Complex, New Delhi 110 003.
6. The Chairman cum Managing Director, SIPCOT, Chennai-600 008.
7. Stock File.