



भारत सरकार
पर्यावरण एवं वन मंत्रालय
Government of India
Ministry of Environment & Forests
(IA Division)

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F. No. J-11(11/1113/2007-IA-II(1)

Dated : September 16, 2008

To

M/s. Cetex Petrochemicals Ltd
Chinna Sekkadu Village,
Ambattur, Thiruvallur District,
Tamil Nadu

cetexho@cetexpetro.com

Sub : Expansion for Manufacturing of Fine Chemicals Unit at Chinna Sekkadu Village, Ambattur, Thiruvallur District, Tamil Nadu by M/s Cetex Petrochemicals Ltd - Environmental Clearance reg.

Sir,

This has reference to your letter no. nil dated 11th October, 2007 along with application in Form - 1 and prefeasibility report seeking environmental clearance for the above project under the Environment Impact Assessment Notification 2006 and subsequent communication vide letters dated 22nd April 2008 and 23rd June 2008.

2 The Ministry of Environment and Forests has examined the proposal and noted that the proposal is for environmental clearance for expansion for Manufacturing of Fine Chemicals Unit at R.S. Nos. 1,74-79, Chinna Sekkadu Village, Manali Industrial Area, Ambattur, Thiruvallur District, Chennai, Tamil Nadu, a Notified Industrial Area by M/s Cetex Petrochemicals Ltd. The project cost is Rs. 38 Crores. The land available is 23.3 Acres. The details of existing and proposed products are as given below-

S.No.	Name of Product	Existing Capacity (TPA)	Capacity after Expansion (TPA)
1.	Methyl Ethyl Keton	5000	10000
2.	Secondary Butyl Alcohol	6000	12000
Fine Chemicals			
3.	Cinnamic Alcohol	180	1080
4.	Anisyl Alcohol	180	276
5.	Styrallyl Alcohol	180	228
6.	Styrallyl Acetate	--	150
7.	Oxinome	--	20
8.	Phenyl Ethyl Alcohol	--	96
9.	Tertiary Butyl Cyclohexyl Acetate	--	200
Total		11540	24050

3. The boiler shall be wood fired. The water requirement of 1.7 MLD, including water requirement for CPP shall be met through the treated sewage water from Kodungayur Sewage Treatment Plant of M/s Chennai Metropolitan and Sewage Board located at the distance of 4 km. The waste water generation shall be 18 KLD which shall be treated in RO unit after neutralization. 6 KLD shall be recycled back from RO and 12 KLD along with RO Rejects shall be sent to Solar Pond. Power requirement shall increase from 0.45 MW to 0.95 MW which will be sourced from TNEB and a proposed biomass based (Juliflora) Capacity Power Plant of 12 MW.

4. The project activity is listed at S.N. 5(f) under Category 'B' however the proposal was considered and appraised at central level in 78th meeting of the Expert Appraisal Committee (Industry) held in February 2008 and reconsidered in 84th meeting held during 19th - 21st August 2008.

5. Based on the information submitted by the Project Authorities, the Ministry of **Environment and Forests hereby accords the environmental clearance to the above project under the provisions of EIA Notification dated 14th September, 2006 subject to compliance of the following specific and general conditions:**

A. **SPECIFIC CONDITIONS:**

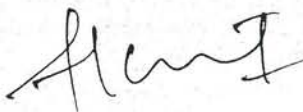
- i) The project authorities shall install the effluent treatment plant to treat the wastewater up to the norms laid down by the Tamil Nadu Pollution Control Board.
- ii) The water requirement and waste water generation shall not exceed 1.7 MLD and 18 KLD respectively.
- iii) The project authorities shall provide the chilled brine solution in secondary condenser for condensation of the VOCs and ensure that the solvent recovery shall not be less than 95%
- iv) The company shall provide the monitoring arrangement with vents and regular monitoring shall be carried out and reports submitted to the SPCB, CPCB and Ministry's Regional Office at Bangalore.
- v) To prevent solvent loss, following measures shall be taken:
 - A. Reactor shall be connected to chilled brine condenser system.
 - B. The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 95% recovery.
 - C. Solvents shall be stored in a separate space specified with all safety measures.
 - D. Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done.
 - E. Entire plant shall be flame proof. The solvent storage tanks shall be provided with automatic valve to prevent losses.
- vi) The process emissions, VOCs and particulate matter from various units shall conform to the standards prescribed by the concerned authorities from time to time. At no time, the emission levels shall go beyond the stipulated standards. In the event of failure of pollution control system(s) 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.



- vii) Fugitive emissions in the work zone environment, product and raw materials storage area shall be regularly monitored. The emissions shall conform to the limits imposed by TNPCB.
- viii) For control of fugitive emission and VOCs following steps shall be followed :
- A. Closed handling system shall be provided for chemicals.
 - B. Reflux condenser shall be provided over reactor.
 - C. Solvent handling pump shall be provided with mechanical seals to prevent leakages.
 - D. System of leak detection and repair of pump/pipeline based on preventive maintenance.
 - E. Solvent shall be taken from underground storage tanks to reactors through closed pipeline. Storage tanks shall be vented through trap receiver and condenser operated on chilled water.
- ix) **The dried salts from the solar pond shall be disposed of as per the provisions of the Hazardous Wastes (Management and Handling) Rules, 1989 and as amended in 2003. The company shall submit the copy of membership to TSDF to the Ministry's Regional Office at Bangalore.**
- x) During transfer of materials, spillages shall be avoided and garland drains be constructed to avoid mixing of accidental spillages with domestic waste and storm drains.
- xi) The project authorities shall develop greenbelt in 30% area of the project as per the guidelines of CPCB to mitigate the effect of fugitive emission.
- xii) Adequate financial provision shall be made in the budget of the project for implementation of the above suggested environmental safeguards. Fund so earmarked shall not be diverted for any other purposes.
- xiii) Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- xiv) The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.
- xv) **The company shall obtain separate clearance for biomass (Juliflora) based captive power plant (12 MW).**

GENERAL CONDITIONS

- i. The project authorities shall strictly adhere to the stipulations of the SPCB/state government or any statutory body.
- ii. 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.



- iii. The project authorities shall strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended. Authorization from the SPCB shall be obtained for collection, treatment, storage, and disposal of hazardous wastes.
- iv. Ambient air quality monitoring stations shall be set up in the downwind direction as well as where maximum ground level concentration are anticipated in consultation with the State Pollution Control Board.
- v. For control of process emissions, stacks of appropriate height as per the Central Pollution Control Board guidelines shall be provided. The scrubbed water shall be sent to ETP for further treatment.
- vi. The company shall undertake following Waste Minimization measures :-
- **Metering of quantities of active ingredients** to minimize waste.
 - **Reuse of by-products** from the process as raw materials or as raw material substitutes in other processes.
 - Maximizing recoveries
 - Use of automated material transfer system to minimize spillage.
 - Use of "Closed Feed" system into batch reactors.
- vii) The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Wastes (Management and Handling) Rules, 2003. Authorization from the SPCB shall be obtained for collections/treatment/ storage/disposal of hazardous wastes.
- viii. The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) 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).
- ix. A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the environmental management and monitoring functions.
- x. The project authorities shall provide rainwater harvesting system and ground water recharge.
- xi. The implementation of the project vis-à-vis environmental action plans shall be monitored by Ministry's Regional Office /SPCB / CPCB. A six monthly compliance status report shall be submitted to monitoring agencies.
- xii. 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 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 Ministry's Regional Office.



xiii. 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.

6. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

7. The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner shall implement these conditions.


8. Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Authority Act, 1997.

9. The above conditions shall 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 alongwith their amendments and rules.


(H.S. Malviya)
Joint Director

Copy to :-

- 1 The Secretary (Environment), Govt. of Tamil Nadu, Fort. St. George, Chennai- 560 560, Tamil Nadu.
- 2 The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110 032.
- 3 The Chairman, Tamil Nadu Pollution Control Board, 100, Anna Salai, Guindy, Chennai - 600 032, Tamil Nadu.
- 4 The Chief Conservator of Forests (Central), Regional Office (SZ), Kendriya Sadan, IVth Floor, E & F Wings, 7th Main Road, IInd Block, Koramangala, Bangalore- 560 034, Karnataka.
- 5 Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
- 6 Guard File.
- 7 Monitoring File.
- 8 Record File.


(H.S. Malviya)
Joint Director