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F. No. J-11011/603/2007- IA II (I)
Government of India
Ministry of Environment and Forests
(I.A. Division)

Paryavaran Bhawan
CGO Complex, Lodhi Road
New Delhi ? 110 003

E-mail :
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Dated 1st April, 2008

To

The Director
M/s Momentive Performance Materials (India) Pvt. Ltd.
The Millenia, Tower B, 4th Floor
MJurphy Road, Ulsoor
Bangalore ? 560008
Karnataka

E-mail : ambarecyler@airtelbroadband.in ; Fax No. : ??

Subject : Multi-product Specialty Silicon Plant at B-3, SIPCOT Industrial Estate, Orangadam, Sriperumpudur, Kancheepuram, Tamil Nadu by M/s Momentive Performance Material (India) Pvt. Ltd. ? Environment clearance reg.

Sir,

This has reference to your letter no. nil dated 11th June, 2007 on the above subject along with Form I, Pre-feasibility Report, EIA/EMP and subsequent communications vide letter dated 12th October, 2007 and 1st November, 2007.

2.0 The Ministry has examined the proposal and it is noted that the proposal involves manufacturing of Multi-product Specialty Silicon Plant at B-3, SIPCOT Industrial Estate, Orangadam, Sriperumpudur, Kancheepuram, Tamil Nadu. The unit will be located in notified SIPCOT industrial area. Total project area is 15.10 acres. Total cost of the project is Rs. 88.60 Crores. Following will be manufactured :

S.N.	Product	Quantity (TPM)
A. Main products		
1	Aminofluids	117
2	Abn, Quats	27
3	Emulsion	78
4	UV Hard Coats	4
5	Heat Cuured Rubber (HCR)	250
6	Sealants ? repacking	25
7	Unreathane additive blends	83
B. Intermediate products		
1	Octra Methyl Cyclo Tetra Siloxanae (D4)	150
2	HCR-Gum	183

3.0 Two-stage gas cleaning system with stacks of adequate height and ventury scrubbers will be provided to control air emissions from both Specialty and Elastomer Plants. The raw water (231 m³/day) will be sourced from SIPCOT supply. The wastewater will be treated in ETP and used for green belt development. Reverse osmosis plant will be installed to recycle and reuse the maximum wastewater and reduce water consumption. No effluent will be discharged outside the premises and zero discharge will be adopted. Organic residue will be incinerated in the incinerator. ETP sludge will be sent to TSDF of TNPCB.

4.0 No public hearing/consultation is required due location of the project in notified SIPCOT Industrial Estate, T. N. as per Section (iii), Stage (3), Para (i)(b) of the EIA Notification, 2006.

5.0. The Ministry of Environment and Forests hereby accords environmental clearance to the above project under the EIA Notification, 2006 subject to the compliance of the terms and conditions mentioned below:

A. SPECIFIC CONDITIONS:

- i. The gaseous (SO₂, NO_x) and particulate matter emissions from various process units shall conform to the standards prescribed by the concerned authorities from time to time. At no time, the particulate emissions from the cement plant shall exceed TNPCB limit. Stacks of appropriate height as per the CPCB guidelines shall be provided to control process emissions. Interlocking facility shall be provided in the pollution control equipment so that in the event of the pollution control equipment not working, the respective unit(s) is shut down automatically. In the event of failure of pollution control system(s) adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.
- ii. Ventury scrubbers shall be provided to control air emissions from both Specialty and Elastomer Plants. Two-stage gas cleaning system with stacks of adequate height shall be provided to control process emissions before discharging into the atmosphere. The flue gas and process emissions shall conform to the standards prescribed by the T. N. Pollution Control Board and reports submitted to the Ministry's Regional Office at Bangalore, CPCB and TNPCB.
- iii. One ambient air quality monitoring station shall be installed in downwind direction. Ambient air quality including ambient noise levels shall not exceed the standards stipulated under EPA or by the State authorities. Monitoring of ambient air quality and stack emissions shall be carried out regularly in consultation with TNPCB and report submitted to the TNPCB quarterly and to the Ministry's Regional Office at Bangalore half-yearly.
- iv. All the transfer points shall be connected with bag filters to avoid any fugitive emissions and vents of suitable height shall be provided for dispersion of pollutants. Adequate arrangements such as water sprinkling, asphaltting of the road etc. shall be made to control fugitive emissions in the workplace environment, product, raw material storage areas. Fugitive emissions including VOCs shall be regularly monitored in the work zone environment and report submitted to the Ministry's Regional Office at Bangalore, TNPCB and CPCB. The emissions shall conform to the limits imposed by TNPCB
- v. 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 'Close Feed' system into batch reactors.
- vi. Total water requirement from SIPCOT water supply and effluent generation shall not exceed 231 m³/day and 67 m³/day respectively. 'Permission' for the drawl of 231 m³/day water shall be obtained from the concerned Department. The process effluent shall be treated in the effluent treatment plant (ETP) to meet the TNPCB norms and used for green belt development. Reverse osmosis plant shall be installed to recycle and reuse the maximum wastewater and reduce water consumption. No effluent will be discharged outside the premises and 'zero' discharge will be adopted. Domestic effluent shall be treated in septic tank followed by soak pit.
- vii. 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.
- viii. As reflected in the EIA / EMP report, the solid waste in the form of organic residue shall be incinerated in the incinerator. ETP sludge shall be disposed of in the hazardous waste disposal facility of TNPCB. Waste oil shall be sold to the registered recyclers/ reprocessors.
- ix. Project authorities shall ensure valid 'Membership' to hazardous waste disposal facility of TNPCB all the time.
- x. The incinerator shall be installed as per the guidelines of CPCB to meet the standards / norms prescribed by the CPCB.
- xi. As proposed, green belt shall be developed in 4.5 acre out of total 15 acre to mitigate the effects of fugitive emissions all around the plant as per the Central Pollution Control Board guidelines.

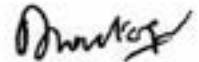
B. GENERAL CONDITIONS :

- i. The project authority shall adhere to the stipulations made by T.N. Pollution Control Board (TNPCB) and State Government.
- ii. No further expansion or modification of the plant shall be carried out without prior approval of this Ministry.
- iii. The company must harvest the rainwater from the rooftops 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.
- iv. The company shall undertake eco-development measures including community welfare measures in the project area.

- v. 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 Environmental (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
 - vi. Proper house keeping and adequate occupational health programmes shall be taken up.
 - vii. A separate environmental management cell to carry out various management and monitoring functions shall be set up under the control of Senior Executive.
 - viii. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
 - ix. All recommendations made in the Corporate Responsibility for Environment Protection (CREP) for chemical plants shall be implemented.
 - x. Adequate funds shall be allocated towards capital cost and recurring cost/annum for environmental pollution control measures and judiciously used to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purpose.
 - xi. The Regional Office of this Ministry at Bangalore / CPCB / TNPCB shall monitor the stipulated conditions. A six monthly compliance report and the monitored data alongwith statistical interpretation shall be submitted to them regularly.
 - xii. 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 commencing the land development work.
 - xiii. 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 T.N. Pollution Control Board and may also be seen at Website of the Ministry of Environment and Forests at <http://envfor.nic.in>. This should 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 Regional office at Bangalore.
- 6.0 The Ministry or any other competent authority may stipulate any further condition(s) on receiving reports from the project authorities. The above conditions shall be monitored by the Regional Office of this Ministry located at Bangalore.
- 7.0 The Ministry may revoke or suspend the clearance if implementation of any of the above conditions is not satisfactory.
- 8.0 Any other conditions or alteration in the above conditions shall have to be implemented by the project authorities in a time bound manner.

9.0. 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 Act, 1997.

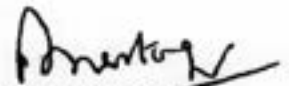
10.0 The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 the Air (Prevention and Control of Pollution) Act, 1981 the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules.



(Dr. P. B. Rastogi)
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. The Chief Engineer, WRO, PWD, State Ground and Surface Water, Resources Data Centre, Tharamani, Chennai - 600013, T.N.
6. Adviser, IA II, ~~Ministry of Environment and Forests, Parivaran Bhavan, CGO Complex, New Delhi.~~
7. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
8. Guard File.
9. Monitoring File.
10. Record File.



(Dr. P. B. Rastogi)
Director