

F. No. J-11011/ 63/2007- IA II (I)
Government of India
Ministry of Environment and Forests
(I.A. Division)

Paryavaran Bhawan
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New Delhi – 110 003

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Dated 28th August, 2007

To, ✓
M/s HIKAL Ltd., T-21
MIDC Industrial Area
Taloja – 410208, Raigad
Maharashtra.

E-mail : rajendra_chirwatkar@hikal.com
Fax No. : 02741-1844/022-27544277, 22843034

Subject : Expansion of Pesticide Unit at Plot No. T-21, MIDC Industrial Area, Taloja, Raigad, Maharashtra by M/s HIKAL Ltd. – Environmental clearance reg.

Sir,

This has reference to your letter no. HL/MOEF/03/06 dated 8th December, 2006 alongwith project documents including Form I and EIA/EMP report for seeking environmental clearance under the EIA Notification, 1994 and subsequent clarifications/additional information furnished vide your letters dated 23rd April, 2007 and 11th August 2007 on the above mentioned project.

2.0 The Ministry of Environment and Forests has examined your application. It is noted that proposal is for the expansion of Pesticide Unit at Plot No.T-21, notified MIDC Industrial Area, Taloja, Raigad, Maharashtra which is declared as Chemical Zone. Following pesticides will be manufactured as per details given below :

Name of the product	Existing (MTPA)	After expansion (MTPA)
Thiabendazole	948	700
Bifenazate	300	100
ADMP	456	200
HTP-213	--	300
IPDO	--	300
Intermediates of HTP-293	-	200
Total	1,704	1,800

Total project area is 60,000 m² and expansion will be carried in 3,000 m² in the same premises. No additional land will be required. Total cost of the project is Rs. 15.00 Crores. Rs. 100 Lakhs and Rs. 35 Lakhs are earmarked towards the capital cost and recurring cost/annum respectively for the environmental pollution control measures.

3.0 No public hearing / consultation is required due to project being located in notified MIDC industrial area as per para 7 (i) III (i)(b) of EIA Notification, 2006.

4.0. The Ministry of Environment and Forests hereby accords environmental clearance to the above project under the provisions of EIA Notification dated 14th September, 2006 subject to strict compliance of the following specific and general conditions:

A. SPECIFIC CONDITIONS :

- i. Dust collectors and venturi scrubbers shall be provided to control the particulate emissions.
- ii. Fugitive emissions in the work zone environment shall be periodically monitored for specific pollutants like solvents, VOC, HCl, SO₂ etc. with instruments of proper range. The flue gas emissions shall conform to the standards prescribed by the MPCB.
- iii. Total water requirement from MIDC supply effluent generation shall not exceed 1,200 m³/day as per the permission accorded by the MIDC. The wastewater generation shall not exceed 823 m³/day and treated for primary, secondary and tertiary treatment. Treated effluent shall be sent to common effluent treatment plant (CETP) for further treatment. The quality of the treated effluent shall conform to the standards prescribed by MPCB / EPA Rules. Toxicity Factor - 4 (TF-4) test shall be carried out as per the latest CPCB guidelines.
- iv. The solid waste shall be segregated according to its calorific content and stored separately for treatment and disposal. ETP Sludge, evaporation salts, spent carbon etc. shall be incinerated in the common incinerator facility installed at TSDF at Talaja, Maharashtra and no incinerator shall be installed at the project site. Used oil and batteries shall be sold to authorized recyclers.

B. GENERAL CONDITIONS :

- i. The project authorities must strictly adhere to the stipulations made by the Maharashtra Pollution Control Board (MPCB) and the State Government.
- 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 adequacy of the conditions imposed and to add additional environmental protection measures required, if any.
- iii. The gaseous emissions (SO₂, NO_x, HC, HCl & Cl₂) and particulate matter from various process 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 respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.

- iv. The process emissions (SO₂ and HCl) shall be scrubbed by the caustic or wet scrubber from all the stacks. Vents from scrubbers and condensers shall be periodically monitored and maintained as per the best practicable technology. The VOC emissions generated due to use of organic chemicals from various reactors shall be controlled by installing chilled water and chilled brine condenser system to condense the organic vapours to recycle and reuse in the process.
- v. Adequate number of influent and effluent quality monitoring stations should be set up in consultation with the MPCB. Regular monitoring shall be carried out for relevant parameters.
- vi. As per the Charter on Corporate Responsibility on Environmental Protection the bio-assay test shall be replaced by Toxicity Factor test method developed by CPCB.
- vii. All the solvent recovery condensers shall be cooled with low temperature brine to reduce solvent loss to the environment. Spent solvents shall be recovered as far as possible & recovery shall not be less than 95 percent. All venting equipments shall have vapour recovery system. Reactors shall be provided with mechanical seal to handle the odorous chemicals. Action shall be taken to reduce the air emissions in the work zone environment as far as possible.
- viii. Green belt of adequate width and density shall be developed in 33 % of the total project area to mitigate the effect of fugitive emissions all round the plant in consultation with the local DFO as per the CPCB guidelines.
- ix. The company shall undertake rainwater harvesting measures to recharge the ground water as well as reduce consumption of fresh water.
- x. As proposed, Rs. 100 Lakhs and Rs. 35 Lakhs earmarked towards the capital cost and recurring cost for the environmental pollution control measures shall be used exclusively to implement the conditions stipulated by the Ministry of Environment & Forests as well as the State Government. An implementation schedule for all conditions stipulated herein shall be submitted to the Regional office of the Ministry at Bhopal. The funds shall not be diverted for any other purposes.
- xi. The Company shall undertake eco-development measures including community welfare measures in the project area for the overall improvement of the environment. The eco-development plan shall be submitted to the MPCB within three months of receipt of this letter for approval.
- xii. The project authorities must strictly comply with the rules and regulations under the Manufacture, Storage and Import of Hazardous Chemicals Rules, 2000. Prior approvals of Chief Inspector of Factories, Chief Inspector of Explosives, Fire Safety Inspectorate etc. must be obtained.
- xiii. 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, 2000. Authorization

from the MPCB must be obtained for collection, storage, treatment and disposal of hazardous wastes.

- xiv. Multiple safety systems shall be provided in reaction vessel handling flammable solvents or in which pressurized operations are carried out and hazard analysis of all operations shall be carried out. All the safety measures mentioned in the Factory Act shall be strictly adopted. Safety audit of the plant by a qualified safety engineer shall be carried out at least once in two years.
- xv. 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 the Environment (P) Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- xvi. Occupational health surveillance programme shall be undertaken as regular exercise for all the employees, specifically for those engaged in handling hazardous substances. First aid facilities in the Occupational Health Care Centre shall be strengthened and medical records of each employee should be maintained separately.
- xvii. A separate Environment Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and monitoring functions.
- xviii. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report.
- xix. The implementation of the project vis-à-vis environmental action plans shall be monitored by Ministry's Regional Office at Bhopal / MPCB / CPCB. A six monthly compliance status report should be submitted to monitoring agencies.
- xx. The Project Proponent should advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the Maharashtra Pollution Control Board / Committee and may also be seen at Website of the Ministry and Forests at <http://envfor.nic.in>. The advertisement shall 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 Ministry's Regional Office at Bhopal.
- xxi. 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 land development work.

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

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

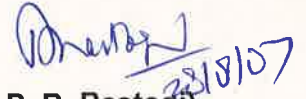
7.0. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments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



(Dr. P. B. Rastogi)
Additional Director

Copy to:

1. The Secretary, Department of Environment and Forests, Govt. of Maharashtra, Mumbai - 400 001, Maharashtra.
2. The Chief Conservator of Forests (Central), Ministry of Environment & Forests, Regional Office, Link Road No. 3, E - 5, Arera Colony, Bhopal - 462 016, M.P.
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar New Delhi - 110 032.
4. The Chairman, Maharashtra Pollution Control Board, Shri Chatrapati Shivaji Maharaj Municipal Market Building, 4th Floor, Mata Ramabai Ambedker Road, Mumbai - 400 001, Maharashtra.
5. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
6. Guard File.
7. Monitoring File.
8. Record File.



(Dr. P. B. Rastogi)
Additional Director

