

F. No.J-11011/582/2017-IA-II (I)
Government of India
Ministry of Environment, Forest & Climate Change
Impact Assessment Division

Indira Paryavaran Bhavan,
Vayu Wing, 3rd Floor, Aliganj,
Jor Bagh Road, New Delhi-110 003

Dated: 29th November, 2019

To,

M/s UPL Limited (Unit 1),
Plot No.117/118,
GIDC Industrial Estate, Ankleshwar,
District **Bharuch** (Gujarat)

Sub: Expansion of pesticides and Pesticide specific intermediate by M/s UPL Limited (Unit 1) at Plot No.117/118, GIDC Industrial Estate, Ankleshwar, District Bharuch (Gujarat) - Environmental Clearance - reg.

Ref: Online proposal No.IA/GJ/IND2/80387/2017 dated 18th December, 2018.

Sir,

This has reference to your online proposal No. IA/GJ/IND2/80387/2017 dated 18th December, 2018 for environmental clearance to the above project, along with project documents namely, EIA/EMP report for the above mentioned project.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the project for expansion of pesticides (1520 to 4720 TPM) and Pesticide specific intermediate (1120 to 2100 TPM) by M/s UPL Limited (Unit 1) in an area of 136677 sqm at Plot No.117/118, GIDC Industrial Estate, Ankleshwar, District Bharuch (Gujarat).

3. The details of existing and proposed products are as under:-

(a) Technical grade Pesticide

S. No	Product Name	Existing (TPM)	Proposed (TPM)	Total (TPM)	CAS Number
1	Mancozeb Or Maneb Or Zineb Or Ziram Or Antracol	650	650	1300	8018-01-7
					12427-38-2
					12122-67-7
					137-30-4
					12071-83-9
2	Antracol OR Zineb	0	500	500	12071-83-9 12122-67-7
3	Monocrotophos	760	740	1500	6923-22-4
4	Sulfosulfuron (SF-10) OR Tebuconazole OR	60	60	120	141776-32-1
					107534-96-3
					62476-59-9

	Acifluorfen				
5	Flonicamide (IKI 1145)	50	100	150	158062-67-0
6	Metalaxyl	0	500	500	57837-19-1
7	Karphos	0	150	150	18854-01-8
8	Imazapic	0	500	500	115136-53-3
Total A		1520	3200*	4720*	

(b) Pesticide Intermediates

S. No	Product Name	Existing (TPM)	Proposed (TPM)	Total (TPM)	CAS Number
9	Amino AcetoNitrile Sulphate (AANS)	0	100	100	5466-22-8
10	Trimethyl Phosphite	1120	880	2000 (Combined Capacity)	121-45-9
11	OR Tri Ethyl Phosphite	OR 1000	OR 880		122-52-1
Total B		1120	980	2100	

* In ToR, the product Dichlorovos (DDVP) was included but now deleted since it is now banned from 1 January, 2019.

4. Existing land area is 136677 sqm. No additional land area will be required. Industry has already developed greenbelt in an area of 33% i.e., 33402 sqm out of total area of the project. The estimated project cost is Rs 353.43 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs 20.62 Crores, and the recurring cost (O&M) will be about Rs 3.53 Crores per annum. Total Employment will be 595. persons as direct & 510 persons indirect after expansion.

5. There are no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors, Rivers etc. within 10 km from the project site. Narmada River flows at a distance of 7.5 km in North.

6. Total fresh water requirement is estimated to be 4757 cum/day proposed to be met from GIDC supply. Effluent of 1273 cum/day will be treated through Effluent Treatment Plant (ETP) having Primary, Secondary & Tertiary Treatments & Discharged to Final Effluent Treatment Plant (FETP) Operated by Narmada Clean Tech (NCT) for Further treatment and disposal.

Power requirement after expansion will be 32653 kW proposed to be met from Dakshin Gujarat Vij Company Limited (DGVCL). Existing unit has two DG sets of 1250 kVA 500 kVA capacity. One more DG set of 1250 kVA will be required under proposed expansion.

Existing unit has 3 Natural Gas/FO fired boilers of 10 TPH capacity each the same will be replaced with two Natural Gas/FO boilers of 30 TPH capacity each and one boiler of 35 TPH capacity. Multi cyclone separator/ bag filter with a stack of height of 30 m will be installed to control the particulate emissions within the statutory limit of 115 mg/Nm³ for the proposed boilers.

7. The project/activities are covered under category A of item 5(b) 'Pesticides industry and Pesticide specific intermediates' of the Schedule to the Environment Impact Assessment Notification, 2006, and requires appraisal/ approval at central level in the Ministry.

8. Standard ToR for the project was granted on 10th February, 2018. Public Hearing is exempted as per the para 7.III.Stage (3)(i)(b)the project site is located inside the notified industrial area.

9. The proposal was considered by the Expert Appraisal Committee (Industry-2) in its meetings held on 26-28 February, 2019. The project proponent and their consultant M/s Shivalik Solid Waste Management Limited presented the EIA/EMP report. The Committee found the EIA/EMP report to be satisfactory, complying with the ToR, and recommended the project for grant of environmental clearance.

10. Based on the proposal submitted by the project proponent and recommendations of EAC (Industry-2), the Ministry of Environment, Forest and Climate change hereby accords environmental clearance to the project for **expansion of pesticides (1520 to 4720 TPM) and Pesticide specific intermediate (1120 to 2100 TPM)** by M/s UPL Limited (Unit 1) at Plot No.117/118, GIDC Industrial Estate, Ankleshwar, District Bharuch (Gujarat), under the provisions of the EIA Notification, 2006, subject to the compliance of terms and conditions as below:-

(a) CTE/CTO for the project shall be obtained from the SPCB as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974, and the SPCB shall follow the mechanism/protocol issued by the Ministry vide letter no. Q-16017/38/2018-CPA dated 24th October, 2019 while issuing the CTE/CTO for the project, for improvement of environmental quality in the area.

(b) Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016, Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.

(c) National Emission Standards for Pesticides Manufacturing Industry issued by the Ministry vide G.S.R.446(E) dated 13th June, 2011, as amended from time to time, shall be followed.

(d) No pesticides/chemicals banned by the Ministry of Agriculture and Farmers Welfare, or having LD₅₀<100 mg/kg shall be produced. Also, no raw material/solvent prohibited by the concerned regulatory authorities from time to time, shall be used for production of pesticides.

(e) To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.

(f) Solvent management shall be carried out as follows:

- (i) Reactor shall be connected to chilled brine condenser system.
- (ii) Reactor and solvent handling pump shall have mechanical seals to prevent leakages.
- (iii) The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 95% recovery.
- (iv) Solvents shall be stored in a separate space specified with all safety measures.
- (v) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done.
- (vi) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses.
- (vii) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.

- (g) Total fresh water requirement shall not exceed 4757 cum/day to be met from GIDC water supply. Prior permission in this regard shall be obtained from the concerned regulatory authority.
- (h) Effluent of 1273 cum/day shall be treated through Effluent Treatment Plant (ETP) having primary, secondary & tertiary treatment units and then taken Final Effluent Treatment Plant (FETP) operated by M/s Narmada Clean Tech (NCT) for further treatment and disposal. The project proponent will submit plan for achieving Zero Liquid Discharge with its techno-economic feasibility within 3 months from issue of this letter to the Ministry for further decision on the same.
- (i) In case, domestic waste water generation is more than 10 cum/day, the industry may install Sewage Treatment Plant.
- (j) Process effluent/any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system.
- (k) Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm, and solvent transfer through pumps.
- (l) Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.
- (m) The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act, 1989.
- (n) The company shall undertake waste minimization measures as below:-
(i) Metering and control of quantities of active ingredients to minimize waste.
(ii) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
(iii) Use of automated filling to minimize spillage.
(iv) Use of Close Feed system into batch reactors.
(v) Venting equipment through vapour recovery system.
(vi) Use of high pressure hoses for equipment clearing to reduce wastewater generation.
- (o) The green belt of at least 5-10 m width shall be developed in more than 40% (in place of EAC recommended 33%) of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.
- (p) In addition, the project proponent shall develop greenbelt outside the plant premises such as avenue plantation, plantation in vacant areas, social forestry etc.
- (q) At least 1.5% (2 times the amount recommended by the EAC) of the total project cost shall be allocated for Corporate Environment Responsibility (CER) and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.
- (r) Safety and visual reality training shall be provided to employees.

(s) For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.

(t) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms.

(u) Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

(v) Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.

(w) Process safety and risk assessment studies shall be further carried out using advanced models, and the mitigating measures shall be undertaken accordingly.

11. The project proponent shall strictly comply the sector specific conditions as mentioned in the Ministry's Office Memorandum No. 22-34/2018-IA.III, dated 9th August, 2018. The said OM is available at the Ministry's website. The grant of Environmental Clearance is further subject to compliance of other generic conditions as under:-

(i) The project authorities must strictly adhere to the stipulations made by the state Pollution Control Board (SPCB), State Government and/ or any other statutory authority.

(ii) No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. 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 locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations each is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.

(iv) The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be complied with.

(v) The overall noise levels in and around the plant area shall be kept well within the standards 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).

(vi) The Company shall harvest rainwater from the roof tops of the buildings to recharge ground water, and to utilize the same for different industrial operations within the plant.



(vii) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis.

(viii) The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing shall be implemented.

(ix) The company shall undertake all measures for improving socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villagers, administration and other stake holders. Also eco-developmental measures shall be undertaken for overall improvement of the environment.

(x) A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.

(xi) The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/pollution control measures shall not be diverted for any other purpose.

(xii) A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal.

(xiii) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.

(xiv) The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional offices of MoEF&CC by e-mail.

(xv) 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/Committee and may also be seen at Website of the Ministry at <http://moef.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 concerned Regional office of the Ministry.


12. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.

13. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.

14. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

15. The above conditions will 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, the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 read with subsequent amendments therein.

16. This issues with the approval of the competent authority.


(Dr. R. B. Lal)

Scientist 'E'/Additional Director

Copy to: -

1. The Principal Secretary, Forests & Environment Department, Sachivalaya, 8th Floor, **Gandhi Nagar** - 382 010 (Gujarat)
2. The Additional Principal Chief Conservator of Forests (Western Zone), MoEF&CC, Regional Office, E-5, Arera Colony, Link Road -3, Ravishankar Nagar, **Bhopal** - 462 016 (MP)
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, **Delhi** -32
4. The Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhawan, Sector 10 A, **Gandhi Nagar**-382 043 (Gujarat)
5. District Collector, **Bharuch, (Gujarat)**
6. Monitoring Cell, MoEF&CC, Indira Paryavaran Bhawan, Jor bagh Road, New Delhi
7. Guard File/Record File/Monitoring File
8. Parivesh Portal


(Dr. R. B. Lal)

Scientist 'E'/Additional Director