



F. No. J-11011/241/2017-IA II(I)
Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

By Speed Post/Online

Indira Paryavaran Bhawan
 Jorbagh Road, New Delhi - 110003

Dated: 23rd September, 2020

To

M/s Shogun Organics Limited
 Plot No. D- 18, Kurkumbh MIDC
 Taluka Daund, District Pune
 Maharashtra

Email: mvhande@shogunorganics.com

Sub: Expansion of Pesticide Manufacturing and Formulation Unit at Plot No. D- 18, Kurkumbh MIDC, Taluka Daund, District Pune (Maharashtra) by M/s Shogun Organics Limited – Environmental Clearance- reg.

Sir,

This has reference to your proposal No. IA/MH/IND2/64652/2017 for environmental clearance to the project for expansion of Pesticide manufacturing (27.95 TPM to 56.75 TPM) and formulation (113.6 TPM) unit by M/s Shogun Organics Ltd in an area of 106384 sqm located at Plot No. D- 18, Kurkumbh MIDC, Taluka Daund, District Pune (Maharashtra), as per the provisions of Ministry's Notification S.O.804 (E) dated 14th March, 2017. The project also involves production of 25000 nos heater machines.

2. The Ministry's Notification dated 14th March, 2017 provides for appraisal of projects for grant of terms of reference/environmental clearance, which have started the work on site, expanded the production beyond the limit of environmental clearance, or changed the product mix without obtaining prior environmental clearance under the EIA Notification, 2006.

3. Details of products and by-products are as under:

S.No.	Product	Existing (TPM)	Additional (TPM)	Total (TPM)
A. Technical				
1	d-trans Allethrin Tech	2.5	2.5	5
2	Allethrin Tech.	1	1	2
3	Prallethrin Tech.	1	5	6
4	Transfluthrin Tech.	1.2	4.8	6
5	Deltamethrin Tech	---	2	2
6	Imidacloprid Tech	---	5	5
7	Bifenthrin Tech.	---	1.5	1.50
8	Fipronil Tech.	---	2.5	2.50
9	Cypermethrin Tech.	---	4.5	4.50

10	Permethrin Tech.	---	1.5	1.50
11	DEET Tech.	---	1.5	1.50
12	Renofluthrin Tech.	---	4	4
13	Dimefluthrin Tech.	---	3	3
	Total (A)	5.7	38.8	44.5
B. Intermediates				
1	Chrysanthemic Acid Chloride	2.25	---	2.25
2	Allethlone Alcohol	10*	---	---
3	Prallethrolone Alcohol	10*	---	---
4	R-Cypermethric Acid Chloride	---	4	4
5	Cypermethric Acid Chloride	---	6	6
	Total (B)	22.25	10	12.25
	Total (A+B)	27.95	48.8	56.75
<i>*Production will be discontinued</i>				

Formulations

S.No.	Product	Quantity (TPM)
1	LV with 0.88% Transfluthrin (35 ML & 45 ML)	9 (200,000 bottles)
2	LV with 1.6% Transfluthrin (35 ML & 45 ML)	9 (200,000 bottles)
3	Imidacloprid 2.15% Gel	1.25(50,000 tubes)
4	Imidacloprid 17.8% SL	1.25 (50,000 tubes)
5	Imidacloprid 30.5% SC	1.25 (50,000 tubes)
6	Fipronil 5% Gel	1.25 (50,000 tubes)
7	Transfluthrin 1% FU	3 (75000 sachets)
8	Renofluthrin 5% MUP	30
9	Solvent Mix	3
10	DEP with Perfume	3
11	Renofluthrin 0.025% Coil	5
12	Renofluthrin 0.03% Coil	5
13	Transfluthrin 12% AE	10 (100,000 Cans)
14	Renofluthrin 0.17% Insence Sticks (Agarbatti)	4.2
15	Renofluthrin 0.20% Insence Sticks (Agarbatti)	4.2
16	Renofluthrin 0.125% Insence Sticks (Agarbatti)	4.2
17	Renofluthrin 0.75% Liquid Vaporiser	9 (200,000 Bottles)
18	Transfluthrin 0.06% + Cypermethrin 0.11% AE	10 (100,000 Cans)
	Total	113.6

By-products

S.No.	By-Product	Total (TPM)
1	Hydrochloric Acid	1.9
2	Sodium Sulphate	4.9
3	S-Cypermethric Acid	7
	Total	13.8

4. Existing land area is 106384 sqm. No additional land will be required for proposed expansion. Industry will develop greenbelt in an area of 35124.35 sqm, covering 33% of total project area. The estimated project cost is Rs.14.5 crores. Total capital cost earmarked towards environmental pollution control measures is Rs.41.27 lakhs and the recurring cost (O&M) will be about Rs.16.73 lakhs per annum. The project will provide employment to 68 persons.

5. Total water requirement is estimated to be 62.43 cum/day, which includes fresh water requirement of 37.55 cum/day, proposed to be met from MIDC Kurkumbh water supply.

Industrial effluent of 16.78 cum/day will be treated in Effluent Treatment Plant and treated water OF 15.81 cum/day will be reused in the process. Domestic water will be treated in STP and treated effluent will be used for gardening. There will be no discharge of treated/untreated waste water from the unit, and thus ensuring Zero Liquid Discharge.

Power requirement of 225 KW will be met from Maharashtra State Electricity Distribution Co Ltd (MSEDCL). The unit will have boiler (1250 Kg/hr), Thermic Fluid Heater (4 Lakh Kcal/hr) and DG set of 320 KVA. The unit will also have 25000 nos heater machines. Stack height will be provided as per CPCB norms to the boiler and DG set.

6. 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.

7. Terms of Reference for the project was granted on 23rd January, 2018. Public Hearing for the project was conducted by the State Pollution Control Board on 5th September, 2018.

8. The proposal for environmental clearance was considered by the Expert Appraisal Committee (EAC) for projects related to violation of the EIA Notification, 2006 in its meetings held on 19-20 April, 2018, 17-18 May, 2018, 27-29 November, 2018, 29-31 January, 2019, 28-29 March, 2019 and 25-26 June, 2019 in the Ministry, wherein the project proponent and their consultant presented the EIA/EMP report as per the ToR. The committee found the EIA/EMP report satisfactory and in consonance with the ToR, and recommended the proposal for environmental clearance with certain conditions in terms of the provisions of the Ministry's Notification dated 14th March, 2017.

9. Based on recommendations of the EAC and finalization/approval of the bank guarantee for an amount of Rs.7705000 by the competent authority, towards Remediation Plan and Natural and Community Resource Augmentation Plan, the project proponent has submitted the desired bank guarantee with the Maharashtra Pollution Control Board (MPCB). The MPCB vide letter No. MPCB/B-200903-FTS-0090 dated 3rd September, 2020 has informed the Ministry regarding receipt of the bank guarantee.

10. Considering the proposal submitted by the project proponent, recommendations of the EAC (Industry-2) and submission of the desired bank guarantee, the Ministry of Environment, Forest and Climate Change hereby accords environmental clearance to the project for **Expansion of Pesticide manufacturing (27.95 TPM to 56.75 TPM) and formulation (113.6 TPM) unit by M/s Shogun Organics Ltd** at Plot No. D- 18, Kurkumbh MIDC, Taluka Daund, District Pune (Maharashtra), under the provisions of the EIA Notification, 2006 and the amendments made therein read with Ministry's Notification dated 14th March, 2017, subject to the compliance of terms and conditions, as under:-

- (i) The bank guarantee shall be released after successful implementation of the Remediation Plan and Natural and Community Resource Augmentation Plan, and after recommendation by Regional Office of the Ministry, EAC and approval of the Regulatory Authority. In case of failure to complete the remediation plan within stipulated time line, the fresh bank guarantee shall be submitted.
- (ii) Rs 77,05,000/- towards Remediation plan and Natural and Community Resource Augmentation plan to be spend within a span of three years.
- (iii) Fund allocation for Corporate Environment Responsibility (CER) of Rs. 32,00,000/- to be implemented.
- (iii) Approval/permission of the CGWA/SGWA shall be obtained before drawing ground water for the project activities, if applicable. State Pollution Control Board (SPCB) shall not issue Consent to Operate (CTO) till the project proponent obtains such permission.
- (iv) Action plan to be implemented in case of reactor failure or damage.
- (v) 5195 numbers of trees to be planted (native/fast growing/pollution abating species) under green belt plan in an area of 35,124.3 sq.m (it includes existing and proposed).
- (vi) 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.
- (vii) 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.
- (viii) 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.
- (ix) Solvent management shall be carried out as follows:
 - (a) Reactor shall be connected to chilled brine condenser system.
 - (b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages.
 - (c) The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 95% recovery.
 - (d) Solvents shall be stored in a separate space specified with all safety measures.
 - (e) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done.
 - (f) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses.
 - (g) All the solvent storage tanks shall be connected with vent condensers with chilled

brine circulation.

- (x) Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- (xi) 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.
- (xii) Persons working in the industry shall be provided with safety equipment's to avoid personal exposure to hazardous chemicals.
- (xiii) Proper safety and disaster management plan shall be implemented to avoid catastrophic effect.
- (xiv) Action plan submitted by the project proponent should be implemented in case of reactor failure or damage.
- (xv) Attempt shall be made by proponent to minimize the water uses and maximize the water recycling.

10.1. The grant of environmental clearance is subject to compliance of other general conditions, as under:-

- (i) The project authorities shall adhere to the stipulations made by the State Pollution Control Board, Central Pollution Control Board, State Government and 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 station 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 followed.
- (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 and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.
- (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. Training to all employees on handling of chemicals shall be imparted.
- (viii) The company shall also 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, and risk mitigation measures relating to the project shall be implemented.

- (ix) The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. ESC activities shall be undertaken by involving local villages and administration.
- (x) The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- (xi) A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- (xii) 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.
- (xiii) A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.
- (xiv) 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.
- (xv) 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.
- (xvi) 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.
- (xvii) 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.
- (xviii) This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.

11. 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.

12. 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 the Environment (Protection) Act, 1986.

13. 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.

14. 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, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.

15. This issues with approval of the competent authority.

23/09/2020
(Dr. R. B. Lal)

Scientist 'E'/Additional Director

(Dr. R. B. LAL)
वैज्ञानिक 'ई' / Scientist 'E'
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Copy to: -

1. The Deputy DGF (C), MoEF&CC Regional Office(WCZ), Ground Floor, East Wing, New Secretariat Building, Civil Line, Nagpur - 1
2. The Secretary, Environment Department, Government of Maharashtra, 15th Floor, New Administrative Building, Mantralaya, Mumbai - 32
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 32
4. The Member Secretary, Maharashtra Pollution Control Board, Kalpataru Point, 3rd and 4th Floor, Opp. Cine Planet, Sion Circle, Mumbai - 22
5. The District Collector, District Pune (Maharashtra)
6. Guard File/Monitoring File/Website/Record File

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