ISO 9001, 14001 & 45001
CERTIFIED COMPANY

E-442, 443, 444, RIICO Industrial Area
Chopanki (Bhiwadi) 301707 (Raj.)
Tel. : 01493 - 298189 - 91

insecticides (INDIA) LIMITED

Date: 11-05-2023

To,

The Member Secretary

Rajasthan Pollution Control Board

4, Institutional Area,

Jhalana Doongri Road,

JAIPUR (Rajasthan)

Sub: Environmental Statement Report of Insecticides (India) Limited, Chopanki, Bhiwadi (Raj.) for the period from April 2022 to March 2023

Ref: Consent to Operate Letter No.: F(PLG)/Alwar(Tijara)/5(1)/2012-2013/6101-6103

Dear Sir,

We are submitting herewith Environmental Status Report for the period from April, 2022 to March, 2023 for M/s Insecticides (India) Limited, Chopanki, Bhiwadi (Raj.).

This is for your kind information please

Rajasthan State Pollution Control Board Dt. 12/05/23 Rec. Bhiwadi

Thanking You,

Yours Faithfully,

For Insecticides (India) Limited,

For INSECTICIDES INDIA LTD

Dr. Mukesh Kumar Authorised Signatory

VP (R&D)

# ENVIRONMENTAL STATEMENT
# M/S INSECTICIDES (INDIA) LIMITED

## FINANCIAL YEAR ENDING 31ST MARCH 2023
## [FORM – V]
## [See rule 14]

**Dated 11-05-2023**

## PART – A

| | | | |
|---|---|---|---|
| 1. | Name and address of the owner/ Occupier of the industry operation Or process: | : | Mr. Rajesh Aggarwal<br>Insecticides (India) Ltd.<br>401-402, Lusa Tower,<br>Azadpur Commercial Complex,<br>Azadpur, New Delhi |
| 2. | Industry category<br>Primary (STC code)<br>Secondary (SIC Code) | : | Red Category |
| 3. | Production capacity | : | 9350 TPA (Pesticides Technical)<br>20000 TPA (Formulation) |
| 4. | Year of establishment | : | 2007 |
| 5. | Date of the last environmental Statement submitted | : | 20-09-2022 |

## PART – B

## WATER AND RAW MATERIAL CONSUMPTION

### 1. WATER CONSUMPTION

Process : 1.0 KLD
Cooling/Boiler etc : 21.0 KLD
Domestic : 3.0 KLD

| Name of Product | Process Water Consumption per Unit of Product Output | |
|---|---|---|
| | During Previous Financial Year | During Current Financial Year |
| Pesticide Technical | 1.550 KL/MT | 1.540 KL/MT |
| Pesticide Formulations | 0.100 KL/MT | 0.110 KL/MT |

### 2. RAW MATERIAL CONSUMPTION

| Name of products | Name of raw materials | Consumption of raw material per unit of output | |
|---|---|---|---|
| | | During the previous financial year | During the current financial year |
| Lambda cyhalothrin | Lambda cyhalothric acid | 0.570 | 0.568 |
| | Thionyl chloride | 0.301 | 0.303 |
| | Metaphenoxy Benzaldehyde | 0.442 | 0.441 |
| Thiamethoxam | 2 Chloro 5chloro methyl Thiazole | 0.715 | 0.710 |
| | 3-Methyl4 Nitroimio pe hydo1,3.5,oxidazine | 0.730 | 0.721 |
| | Di methyl Formamide | 0.520 | 0.510 |
| Bifenthrin | Lambda cyhalothric acid | 0.610 | 0.605 |
| | Thionyl chloride | 0.327 | 0.325 |
| | Bifenthrin alcohol | 0.470 | 0.465 |
| Dinotefuran | 3-HMTHF | 0.540 | 0.540 |
| | Thionyl chloride | 0.635 | 0.635 |
| | MMNCl | 0.700 | 0.700 |
| Probenazole | Saccharine Amide | 0.915 | 0.915 |
| | Allyl Alcohol | 0.290 | 0.290 |
| | Thionyl Chloride | 0.620 | 0.620 |
| Clodinafop | RHPPA | 0.550 | 0.550 |
| | 5-chloro-2,3-DFP | 0.450 | 0.450 |
| | Propargyl chloride | 0.175 | 0.175 |

## PART - C
## POLLUTION DISCHARGED TO ENVIRONMENT/UNIT OF OUTPUT
## (PARAMETER AS SPECIFIED IN THE CONSENT ISSUED)

| Pollutants | Quantity of pollutants discharged (mass/day) | Concentrations of pollutants in discharges (mass/volume) March 2023 | Percentage of variation from prescribed standards with reasons |
|---|---|---|---|
| (a) Water | 9.0 KLD (The waste water is treated in ETP and the final effluents are used for Cooling Tower inside the factory premises) | Description =Clear liquid<br>pH = 6.87<br>TSS mg/lit = 31.9mg/ltr<br>Oil and Grease = 5.2<br>BOD = 23.80<br>Bio-test = 93%<br>Temperature = 27°C | No variation from prescribed standards |
| (b) Air | Please refer Annexure – I & II | Please refer Annexure – I & II | No variation from prescribed standards |

## PART – D
## HAZARDOUS WASTES
**(As specified under Hazardous Waste Management and Handling Rules, 1989)**

| Hazardous Waste | Total Quantity Generated (Kg.) | |
|---|---|---|
| | During the Previous Financial year 2021-22 | During the current Financial year 2022-23 |
| Process Waste Solid 29.1 | 3445 | 2295 |
| Process Waste Liquid 29.1 | 54100 | 21300 |
| ETP Sludge 29.2 | 3310 | 2685 |
| Date Expired pesticides 29.3 | 0 | 2009 |
| Drum/Container/Bag/Linear 33.1 | 0 | 536 |
| Ash from Incinerator 37.2 | 1600 | 1199 |
| MEE Salt 37.3 | 0 | 4855 |
| Used/Spent Oil 5.1 | 140 | 180 |

## PART – E
## SOLID WASTES

| | | Total Quantity | |
|---|---|---|---|
| | | **During Previous Financial Year** | **During Current Financial Year** |
| (a) | From Process | Nil | Nil |
| (b) | From Pollution Control Facility | Dust collected in Bag Houses and Bag Filters are used for land fill. | Dust collected in Bag Houses and Bag Filters are used for land fill. |
| (c) | 1. Quantity rejected or re-utilized within the unit | Nil | Nil |
| | 2. Solid | Nil | Nil |
| | 3. Disposed | Nil | Nil |

## PART – F

## PLEASE SPECIFY THE CHARACTERIZATIONS (IN TERMS OF COMPOSITION OF QUANTUM) OF HAZARDOUS AS WELL AS SOLID WASTES AND INDICATE DISPOSAL PRACTICE ADOPTED FOR BOTH THESE CATEGORIES OF WASTES:

**HAZARDOUS WASTE:**

| S. No. | Type of Hazardous Waste | Category | | Hazardous Waste Disposal Practice |
|---|---|---|---|---|
| | | Schedule | Code | |
| 1. | Process Waste Solid 29.1 | 1 | 29.1 | Incineration |
| 2. | Process Waste Liquid 29.1 | 1 | 29.1 | Incineration |
| 3. | ETP Sludge 29.2 | 1 | 29.2 | Incineration |
| 4. | Date Expired pesticides 29.3 | 1 | 29.3 | Incineration |
| 5. | Drum/Container/Bag/Linear 33.1 | 1 | 33.1 | Send to recycler |
| 6. | Ash from Incinerator 37.2 | 1 | 37.2 | Sent to UCCI Udaipur |
| 7. | MEE Salt 37.3 | 1 | 37.3 | Sent to UCCI Udaipur |
| 8. | Used/Spent Oil 5.1 | 1 | 5.1 | Send to recycler |

**SOLID WASTE:** Not Applicable

## PART – G

## IMPACT OF THE POLLUTION ABATEMENT MEASURES TAKEN ON CONSERVATION OF NATURAL RESOURCES AND ON THE COST OF PRODUCTION

M/s Insecticides (India) Limited is being operated on clean process technology, which is cost effective and environmentally clean technology. The stack emissions from boiler are controlled by equipment like Bag Houses and Bag Filters. The particulate matter collected in the pollution control equipment is used for land filling and hence no cost impact on the production cost. Treated effluents are used for Cooling Tower only. Plantation is done inside and outside of the factory.

## PART – H

## ADDITIONAL MEASURES/INVESTMENT PROPOSAL FOR ENVIRONMENTAL PROTECTION INCLUDING ABATEMENT OF POLLUTION, PREVENTION OF POLLUTION

1. Green belt development and tree plantation is our ongoing process. Every year we are growing new tree plantation.
2. This year we planted 100 trees near factory area.

## PART – I

## ANY OTHER PARTICULARS FOR IMPROVING THE QUALITY OF THE ENVIRONMENT

1. We have full-fledged Environment Management cell with monitoring and testing facilities.
2. Monitoring of stack emission, ambient air, noise and water quality is being done regularly.
3. Maintenance department is doing regular checking and scheduled maintenance of all the pollution control devices.
4. Civil dept is taking care of Housekeeping and water supply department is taking care of operation of STP. Administration Department is taking care of tree plantation and green belt development.

On support of above, we are enclosing herewith following:-

Annexure – I: Stack Emission Level Report

Annexure – II: Ambient Air Quality Report

Annexure – III: Noise Level Report

For INSECTICIDES INDIA LTD.

Authorised Signatory

**ANNEXURE-I**

**STACK EMISSION LEVEL FOR YEAR, 2022-23**

| Month | Ambient Temperature | Temperature of Stack Gases | Velocity of Stack Gases | Flow rate of PM | Particulate Matter |
|---|---|---|---|---|---|
| | Ta($^0$C) | Ts($^0$C) | (m/sec) | LPM | Mg/Nm$^3$ |
| **BOILER** | | | | | |
| June 2022 | 43°C | 138°C | 7.6m/sec | 24.0 | 124.4 |
| Dec. 2022 | 22°C | 142°C | 7.7m/sec | 28.0 | 76.2 |

| Month | Ambient Temperature | Temperature of Stack Gases | Velocity of Stack Gases | $NO_2$ | $SO_2$ | CO | HCl |
|---|---|---|---|---|---|---|---|
| | Ta($^0$C) | Ts($^0$C) | (m/sec) | mg/Nm$^3$ | mg/Nm$^3$ | mg/Nm$^3$ | mg/Nm$^3$ |
| **INCINERATOR** | | | | | | | |
| June 2022 | 43°C | 85°C | 7.1m/sec | 9.4 | BDL | NA | NA |
| Dec. 2022 | 22$^0$C | 88°C | 6.2m/sec | NA | 23.3 | 74.6 | 6.7 |

## ANNEXURE-II
## AMBIENT AIR QUALITY

| Location | Near Garden Area | | | Near Main Gate | | | Near ETP Area | | | Near Solvent Tank | | | Near Caustic Soda Tank | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Month | SPM | $SO_2$ | NOx | SPM | $SO_2$ | NOx | SPM | $SO_2$ | NOx | SPM | $SO_2$ | NOx | SPM | $SO_2$ | NOx |
| June 2022 | 91.6 | 32.8 | 36.1 | 94.8 | 35.9 | 38.3 | 95.1 | 33.4 | 38.2 | 94.1 | 32.3 | 36.9 | 93.2 | 34.9 | 38.7 |
| Sep. 2022 | 94.3 | 33.5 | 37.9 | 95.2 | 36.4 | 40.8 | 93.6 | 34.2 | 38.4 | 91.5 | 34.4 | 38.5 | 92.3 | 35.2 | 39.5 |
| Dec. 2022 | 95.5 | 34.6 | 38.7 | 96.4 | 34.3 | 41.6 | 96.4 | 32.3 | 37.5 | 94.6 | 35.3 | 37.6 | 95.2 | 37.6 | 38.2 |
| March. 2023 | 95.1 | 34.8 | 38.3 | 96.1 | 37.4 | 41.2 | 94.7 | 35.3 | 39.6 | 92.6 | 35.1 | 39.3 | 93.6 | 36.9 | 40.1 |

**ANNEXURE-III**

**NOISE LEVEL FOR YEAR 2022-2023**

| Month | Near Process Plant | |
|---|---|---|
| | Day Time | Night Time |
| April 2021 | 72.94 dB | 62.84 dB |
| May 2022 | 73.05 dB | 62.78 dB |
| June 2022 | 72.78 dB | 62.89 dB |
| July 2022 | 72.78 dB | 62.89 dB |
| August 2022 | 73.10 dB | 63.15 dB |
| September 2022 | 73.05 dB | 62.94 dB |
| October 2022 | 72.84 dB | 63.10 dB |
| November 2022 | 73.00 dB | 62.84 dB |
| December 2022 | 72.78 dB | 63.00 dB |
| January 2023 | 72.94 dB | 62.78 dB |
| February 2023 | 72.46 dB | 62.84 dB |
| March 2023 | 73.10 dB | 62.84 dB |