

MAHARASHTRA POLLUTION CONTROL BOARD

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Kalpataru Point, 3rd & 4th floor, Sion- Matunga
Scheme Road No. 8, Opp. Cine Planet Cinema, Near
Sion Circle, Sion (E),
Mumbai - 400 022

Consent order No :- Formate 1.0/ BO/CAC-Cell/ EIC No RD-7809-15 /3rd CAC/ 9786
Date- 16/08/2016

To,
M/s Hindustan Insectides Ltd,
At-Rasayani, Tal-Panvel,
Dist-Raigad-410207

Subject: Renewal of consent to operate under RED category.

Ref: 1. Existing Consent granted vide no Formate 1.0/BO/AST/EIC No RD-2613-13/R/CC-920 dtd 30.01.2014.

2. Your application approved in CAC meeting held on 08.07.2016.

Your application: CR1512000422

Dated: 03.11.2015

For: Renewal of consent to operate.

under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization under Rule 5 of the Hazardous Wastes (M, H & T M) Rules 2008 is considered and the consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I, II, III & IV annexed to this order:

1. The consent is granted for a period from 01.01.2016 to 31.07.2020.
2. The actual capital investment of the industry is Rs.78.7 Crs. (As per C.A.Certificate submitted by industry).
3. The Consent is valid for the manufacture of -

Sr. No.	Product / By-Product Name	Maximum Quantity	UOM
1	Monocrotophos (Technical)	41.66	MT/M
2	Butachlor Technical or Pretilachor (T)	25.00	MT/M
3	DDT Technical	345.00	MT/M
4	Malathion Technical or Acephate Technical	150.00	MT/M
5	Buprofezin (Technical)	133.00	MT/M
6	Imidacloprid(Technical) Or Acetamiprid(Technical) Or Chloropyriphos(Technical) Or Triazofos(Technical)	150.00	MT/M
7	DDVP(Technical)	8.00	MT/M
8	Bacillus Thuringiensis Varkurstaki	65.75	KG/Day
9	Atrazine(T) (for import)	Import as per requirement	
FORMULATION PRODUCTS			
1	Atrazine 50%WP	10.00	MT/Day
2	Malathion 5 %	10.00	MT/Day
3	Thiamethoxam 25%WG	10.00	MT/Day

4	Cartap Hydrochloride 4% GR	10.00	MT/Day
5	Lambdacyhalothrin 2.5% EC	10.00	KL/Day
6	Neem Oil based EC containing Azadirachtin 0.03% W/W Min	10.00	KL/Day
7	Neem Seed kernel based EC (Triterpenoids containing Azadirachtin 0.15% EC)	10.00	KL/Day
8	Pretilachlor 50% EC	10.00	KL/Day
9	Endosulphan 50% EC	10.00	KL/Day
10	Pendimethalin 30 % EC	10.00	KL/Day
11	Endosulphan 35% + Cypermethrin 5% EC	10.00	KL/Day
12	Acephate 75% SP	4.50	MT/Day
13	BTK(F)	300	KG/Day
14	Hilgrow (A seaweed extract)	As per requirement subject to optimum utilization of approved plant capacity	
15	Cypermethrin 10% EC	10.00	KL/Day
16	Lambdacyhalothrin 5% EC	10.00	KL/Day
17	Dicofol 18.5% EC (for indigenous manufacture only)	10.00	KL/Day
18	Sulfosulfuron 70% SWG	10.0	MT/Day
19	Cartap Hydrochloride 50% SP	10.0	MT/Day
20	Sulphur 80% WDG	10.0	MT/Day
21	Tricyclazole 75% WP	10.0	MT/Day
22	Indoxacarb 14.50% SC	10.0	KL/Day
23	Chlorpyrifos 2 % RTU	10.0	KL/Day
24	Monocrotophos	21.25	MT/M
25	Butachlor	71.67	MT/M
26	DDT 50% WDP & 75% WDP	As per requirement subject to optimum utilization of approved plant capacity	
27	Malathion 25% WDP & 50 % WDP		
28	Malathion 50 % WP & 57 % EC		
29	DDT 25% EC		
30	Phosphamidon 85% SL		
31	Quinalphos 25% EC		
32	Chlorpyrifos 20 % EC		
33	Cypermethrin 20% EC		
34	Fenvalerate 20% EC		
35	Malathion 50 % EC		
36	Dimethoate 30% EC		
37	Endosulphan 35% EC		
38	Mancozeb 75% WDP		
39	Carboxin 75% WP	100.00	MT/A
40	Dichlorvos 76% EC	10.00	KL/Day
41	Thiophenate Methyl 70% WP	10.00	MT/Day
42	Deltamethrin 2.5% WP	10.00	MT/Day
43	Ethion 50% EC	300.00	KL/M
44	Phosphamidon 40 % SL (liquid formulation)	10.00	KL/Day
45	Carbendazim 50% WP	10.00	MT/Day

46	Decamethrin 2.8% EC	10.00	KL/Day
47	Hexaconazole 5% EC	10.00	KL/Day
48	Profenofos 50% EC	10.00	KL/Day
49	Deltamethrin 0.75% + Endosalphan 29.75% EC	10.00	KL/Day
50	Ethepon 39% SL	10.00	KL/Day
51	Glyphosate 41%SL	10.00	KL/Day
52	Alphamethrin 10% EC	10.00	MT/Day
53	Phorate 10%CG	10.00	MT/Day
54	Carbendazim 12 % +Mancozeb 63% WP	10.00	MT/Day
55	Triazofos 40% EC	10.00	KL/Day
56	Imidachloprid 17.8% S.L.	10.00	KL/Day
57	Metribuzin 70%WP	10.00	MT/Day
58	Imidacloprid 70%WS	10.00	MT/Day
59	Chlorpyriphos 50% EC	10.00	KL/Day
60	Alphnaphthyl Acitic acid 4.5% SL	10.00	KL/Day
61	Chlorpyriphos50%+Cypermethrin 5% EC	10.00	KL/Day
62	Neem Extract Concentrate containing Azadirachtin 5% W/W min	10.00	KL/Day
63	Mancozeb 64% +Metalaxyl 8% WP	10.00	MT/Day
64	Mancozeb 80% WP (For Export)	10.00	MT/Day
65	Temephos 50%EC	10.00	KL/Day
66	Alphacypermethrin 5% WP	10.00	MT/Day
67	Acetamiprid 20% SP		
	By Product		
1	Sodium Acetate	62.35	MT/M

4. Conditions under Water (P&CP), 1974 Act for discharge of effluent:

Sr. no.	Description	Permitted quantity of discharge (CMD)	Standards to be achieved	Disposal
1.	Trade effluent	1900	As per Schedule -I	Maximum recycle and remaining and remaining pumped to saline zone of Patalganga creek upto a point as approval of NIO
2.	Domestic effluent	111	As per Schedule -I	Discharge into saline zone of Patalganga creek upto a point as approval of NIO

5. Conditions under Air (P& CP) Act, 1981 for air emissions:

Sr. no.	Description of stack / source	Number of Stack	Standards to be achieved
1.	Boiler	1	As per Schedule -II
2.	Supper Heater	1	As per Schedule -II
3.	Process stacks	5	As per Schedule -II
	DG set 320 KVA	1	As per Schedule -II

6. Conditions about Non Hazardous Wastes: NA

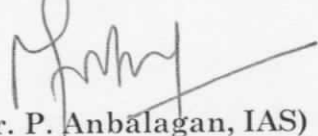
7. Conditions under Hazardous Waste (MH & TM) Rules, 2008 for treatment and disposal of hazardous waste:

Sr. No.	Type Of Waste	Categor.	Quantit	UOM	Treatment	Disposal
1	Chemical sludge	29.2	300	MT/A	NA	CHWTSDF
2	Discarded container/Barrels/ Liners used for HW Chemicals	33.3	300	MT/A	NA	Sale to authorized party after decontamination
3	By product Spent Sulphuric acid from product DDT Technical	20.3	583.33	MT/M	NA	Sale to authorized party
4	Residue from the product- Pretilachlor(T), Buprofezin (T), Chlorpyriphos (T), Acetamiprid(T), Chloropyriphos(T) & Triazofos (T)	20.3	12.5	MT/M	NA	Sale to authorized party
5	Process waste/Residues containing pesticides	29.1	300	MT/A	NA	CHWTSDF
6	Discarded asbestos Rope & Waste Hessian (Jute) Bags	15.2/33.3	1050	Kg/A	NA	CHWTSDF
7	Waste ATFE Solvents residue after recovery from Monocrotophos (T) plant	20.3	6	MT/A	NA	Sale to authorized reprocessor/ recycler
8	Phosphorus pentasulphide process waste/residues material	20.2	3.6	MT/A	NA	
9	Waste solvent after by product recovery from	20.2	10	MT/A	NA	

	Butachlor (T)plant					
10	By product spent caustic from product Malathion Technical	20.3	125	MT/M	NA	Sale to authorized party
11	Used/Spent oil	5.1	5	MT/A	NA	Sale to authorized reprocessor/recycler
12	Waste/residue containing Oil	5.2	100	Kg/M	NA	Sale to authorized reprocessor/recycler
13	Date expired & off specification pesticides	29.3	As & when generated	MT/A	NA	CHWTSDF

8. The Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.
9. This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government authorities.
10. Industry shall install and operate the online continuous system along with linking to website of CPCB on or before 31.03.2017 as per the CPCB letter dated 21.06.2016.

For and on behalf of the
Maharashtra Pollution Control Board


(Dr. P. Anbalagan, IAS)
Member Secretary

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1.	625100	360139	30.10.2015	Bank of Baroda
2.	97816	058754	19.07.2016	Bank of Baroda

Copy to:

1. Regional Officer -Raigad and Sub-Regional Officer-Raigad-1, MPCB: They are directed to ensure the compliance of the consent conditions.
2. Chief Accounts Officer, MPCB, Mumbai.
3. CC/CAC desk- for record & website updation purposes.

Schedule-I

Terms & conditions for compliance of Water Pollution Control:

1) A) As per your application, you have provided the Effluent Treatment Plant (ETP) with the design capacity of 2000 CMD.

B) The Applicant shall operate the effluent treatment plant (ETP) to treat the trade effluent so as to achieve the following standards prescribed by the Board or under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

Sr No.	Parameters	Standards prescribed by Board (If any)
		Limiting Concentration in mg/l, except for pH
01	pH	5.5 to 9.0
02	Temperature	Shall not exceed 5°C above the receiving water temperature
03	Oil & Grease	10
04	COD	250
05	BOD (3 days 27°C)	100
06	Suspended Solids	100
	Bioassay	90% survival of fish after first 96 hrs in 100% effluent
	A. Specific Pesticides	
1	Benzenl Hexachloride	10
2	Carbonyl	10
3	DDT	10
4	Endosulfan	10
5	Diamethoate	450
6	Fenitrothion	10
7	Malathion	10
8	Phorate	10
9	Methyl Parathion	10
10	Phenathoate	10
11	Pyrethrums	10
12	Copper Oxychloride	9600
13	Copper sulphate	50
14	Ziram	1000
15	Sulphur	30
16	Paraquat	2300
17	Proponil	7300
18	Nitrogen	780
	B. Heavy Metals	
1	Copper	1.0
2	Manganese	1.0
3	Zinc	1.0
4	Mercury	0.01

5	Tin	0.1
6	Any other metal like Nickel etc	Shall not exceed 5 times the drinking water standards of BIS
C. Organics		
1	Phenol and Phenolic compounds as C ₆ H ₂ OH	1
D. Inorganics		
1	Arsenics (As As)	0.2
2	Cyanide (as CN)	0.2
3	Nitrate (as NO ₃)	50
4	Phosphate (as P)	5

C) The industry shall dispose effluent quantity of 8.10 CMD for solar evaporation Pond. The solar evaporation System should meet the following conditions as laid down by Ministry of Environment and Forests, Govt. of India. The treated effluent should be evaporated in a tank of sufficient capacity so as even in rainy season the effluent should not find its way outside. The treated trade effluent should be recycled to the maximum extent & remaining shall be discharged into saline zone of Patalganga creek upto a point as approved by National Institute of Oceanography. (NIO)

Conditions of Solar Evaporations System:

1. Solar evaporation pans should be constructed in such a way that the bottom in at least one meter above ground level
2. Solar evaporation pans should be leak proof and on impervious construction and as per IS: 7290
3. The solar Evaporation Ponds should be designed on the basis of the evaporation rate matching to the output of the waste water.
4. During the rainy seasons, storm water should not be allowed to mix with process waste and enter the pans. The waste water should not be allowed to mix with process waste and enter the pans. The waste water should in no case outflow from the evaporation pans. Alternative arrangements should be made to hold the waste water in proper impervious tans and if necessary, force evaporated.
5. In no circumstances, the liquid effluent should be discharged without conforming to the minimal national standards or stored in holding arrangements, which is likely to cause the pollution.
6. The sludge from the solar evaporation pans should be incinerated or disposed off as per guidelines for management and handling of hazardous waste, published by the Ministry of Environment & Forests, Govt. of India, after obtaining authorization from the State Pollution Control Board under the Hazardous Waste (Management & Handling) Rules, 1989.
7. For the preparation of embankment in soil for all four sides 1:2 slope is to be maintained. Minimum free board of 1.5 mtrs should be provided.
8. Flat bricks lining over HDPE sheet for the bottom and slopes in cement mortar 1:5 with two layers of 250 micron thick HDPE sheet.
9. Construction of toe wall to avoid under scouring of the embankment during heavy rains.
10. Two coats of coal tar epoxy paint (120 micron total)
11. Provision of fencing around the lagoon to prevent entry of tress-passers and stray animals.

12. If any leachate is generated, the BOD/COD should be to the acceptable limits before disposing the same.
13. Forced evaporation should be provided in place of solar evaporation.
- 2) A.] As per your consent application, you have provided the sewage treatment system with the design capacity of 120 CMD.

B] The Applicant shall operate the sewage treatment system to treat the sewage so as to achieve the following standards/ prescribed under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

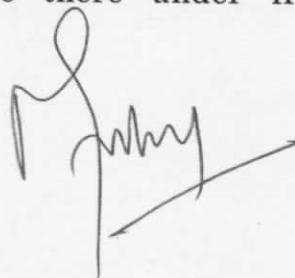
(1)	Suspended Solids.	Not to exceed	50	mg/l.
(2)	BOD 3 days 27°C.	Not to exceed	30	mg/l.
(3)	COD	Not to exceed	100	mg/l.

C] The treated sewage shall be discharged into saline zone of Patalganga creek upto a point as approved by National Institute of Oceanography. (NIO).

- 3) The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or /and extension or addition thereto.
- 4) The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.
- 5) The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Cess Act, 1977 and as amended, by installing water meters, filing water cess returns in Form-I and other provisions as contained in the said act.

Sr. no.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Industrial Cooling, spraying in mine pits or boiler feed	0
2.	Domestic purpose	141
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	5805
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	0
5.	Agricultural/Gardening	300

The Applicant shall provide Specific Water Pollution control system as per the conditions of EP Act,1986 and rule made there under from time to time/ Environmental Clearance / CREP guidelines.



Schedule-II

Terms & conditions for compliance of Air Pollution Control:

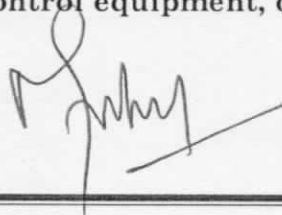
1. As per your application, you have installed the Air pollution control (APC) system and also erected following stack and to observe the following fuel pattern-

Sr. No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity & UoM	S %	SO ₂ Kg/Day
1	Boiler	Stack	42.4	FO/NG	12.69 KL/D	4.5	1142
2	Supper heater	Stack	15		/ 6900 M3/D		
3	HCl Gas absorption Vent 1	Scrubber	11.5	NA	NA	NA	NA
4	Process Vent I	Dust Collector	25.5	NA	NA	NA	NA
5	Process Vent II	Dust Collector	25.5	NA	NA	NA	NA
6	Process Vent III	Dust Collector	19.50	NA	NA	NA	NA
7	Process vent	H2S Scrubber	21.9	NA	NA	NA	NA
8	DG set 320 KVA	Stack	3.6	HSD	57 Kg/Hr	1	1.14

2. The Applicant shall provide Specific Air Pollution control equipments as per the conditions of EP Act, 1986 and rule made there under from time to time / Environmental Clearance / CREP guidelines.
3. The applicant shall operate and maintain above mentioned air pollution control system, so as to achieve the level of pollutants to the following standards:

Particulate matter	Not to exceed	150 mg/Nm ³ .
HCl	Not to exceed	35 mg/Nm ³ .
H2S	Not to exceed	10 ppm
Chlorine	Not to exceed	3 ppm

4. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.
5. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).



Schedule-III
Details of Bank Guarantees

Sr. No.	Consent (C to E/O/R)	Amt of BG Imposed	Submissi on Period	Purpose of BG	Compliance Period	Validity Date
1	C to R	Rs 5 lakhs	Submitted *	O & M of PCS	31.07.2020	30.11.2020

*The BG of Rs 5 lakh obtained towards O & M of PCS shall be extended for a period upto 30.11.2020.



Maharashtra Pollution Control Board

Schedule-IV

General Conditions:

- 1) The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
- 2) Industry should monitor effluent quality, stack emissions and ambient air quality monthly.
- 3) The applicant shall provide ports in the chimney/(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
- 4) Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipments, the production process connected to it shall be stopped.
- 5) The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms and conditions of this consent.
- 6) The firm shall submit to this office, the 30th day of September every year , the Environmental Statement Report for the financial year ending 31st March in the prescribed Form-V as per the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
- 7) The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the HW(MH&TM) Rules 2008, which can be recycled/processed/reused/recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/reprocessed etc should go for that purpose, in order to reduce load on incineration and landfill site/environment.
- 8) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 9) The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.
- 10) Industry shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act, 1981 and Environmental Protection Act, 1986 and industry specific standard under EP Rules 1986 which are available on MPCB website(www.mpcb.gov.in).
- 11) The industry should comply with the Hazardous Waste (M, H & TM) Rules, 2008 and submit the Annual Returns as per Rule 5(6) & 22(2) of Hazardous Wastes (M,H &TM) Rules, 2008 for the preceding year April to March in Form-IV by 30th June of every year.
- 12) The industry shall constitute an Environmental cell with qualified staff/personnel/agency to see the day to day compliance of consent condition towards Environment Protection.
- 13) Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
- 14) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.

- 15) The applicant shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemicals used for treatment shall be maintained.
- 16) Conditions for D.G. Set
- Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
 - Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.
 - Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper siting and control measures.
 - Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
 - A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use
 - D.G. Set shall be operated only in case of power failure.
 - The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
 - The applicant shall comply with the notification of MoEF dated 17.05.2002 regarding noise limit for generator sets run with diesel
- 17) The industry should not cause any nuisance in surrounding area.
- 18) The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 dB (A) during day time and 70 dB (A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.
- 19) The applicant shall maintain good housekeeping.
- 20) The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a yearly statement by 30th September every year on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end.
- 21) The non-hazardous solid waste arising in the factory premises, sweepings, etc. be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal of solid waste.
- 22) The applicant shall not change or alter the quantity, quality, the rate of discharge, temperature or the mode of the effluent/emissions or hazardous wastes or control equipments provided for without previous written permission of the Board. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.
- 23) The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
- 24) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
- 25) The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dtd. 16.11.2009 as amended.

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