# MAHARASHATRA POLLUTION CONTROL BOARI

# Phone : 4010437/4020781

Fax

Visit At :

/4037124/4035273

: 24044532/4024068 /4023516

http://mpcb.gov.in

Email : enquiry@mpcb.gov.in



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

Mumbai - 400 022

Red/L.S.I

Consent No: BO/PAMS/E/EIC NO.RD-2229-12/CC- 2927

Consent to Establish under Section 25 of the Water (Prevention & Contro of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Contro of Pollution) Act, 1981 and Authorization / Renewal of Authorization und Rule 5 of the Hazardous Wastes (Management, Handling & Transpound Movement) Rules 2008

[To be referred as Water Act, Air Act and HW (M&H) Rules respective!

CONSENT is hereby granted to

M/s Hindustan Insecticides Ltd. Village – Rasayani, Tal- Panvel Dist- Raigad, Maharastra

located in the area declared under the provisions of the Water Act. Air accand Authorization under the provisions of HW(MCH) Rules and amendments thereto subject to the provisions of the Act and the Rules and the Orders that may be made further and subject to the following terms and conditions:

- 1. The Consent to Establish is granted for a period up to: commission in the unit or 5 years which ever is earlier.
- 2. The Consent is valid for the manufacture of-(After change in produ

Sr.	Product Name	Maximum	UOM
No.		Quantity	
		(After product	1
		mix)	
1	Monocrotophos Technical	41.66	MT/M
2	Butachlor Technical or Pretilachlor (Technical)	25.00	MTM
811	DDT (Technical)	345.00	MT/M
4	Malathion or Acephate (Technical)	150.00	MTM
5	Carboxin Technical	NIL	MT/M
6	Phosphamidon Technical	NIL	MT/M
7	DDVP (Technical )	8.00	MT/M
8	Bacillus Thuringiensis Varkurstaki	2.0	o/Thill
9	Acephate (Technical)		MAM
10	Buprofezin (Technical)	33.00	
11	Imidachloprid or Acetamiprid or Chlorpyriphos		
	or Triazophos (All Technical)		
		The second	Berftetikeren et aleret Bilde für Bil

## 3. CONDITIONS UNDER WATER ACT:

(i) The daily quantity of trade effluent from the factory shall not exceed 1900 m (# there is reduction in effluent load from 2000 CMD CMD change in product mix.)

(ii) The daily quantity of sewage effluent from the factory shall n

(iii) Trade Effluent :

Treatment: The applicant shall provide comprehensive treatment system of primary / secondary and/or tertiary treatment as is warranted with influent quality and operate and maintain the same continuously so the quality of the treated effluent to the following standards:

1	рН	Between	5.5 10 90
2	Temperature	Shall not ex	ceed 5 deg Cabove the
		receiving	water temperature
3	BOD 3 days 27 deg C	Not to exceed	30 mg/1
4	COD	Not to exceed	250 mg/l.
5	Oil & Grease	Not to exceed	10 mg/l
6	Total Suspended Solids	Not to exceed	100 mg/l
7	Bioassay test on fish should sho	w 90% survival in	96 hrs.
	(A) SPECIFIC PESTICIDES		
8	Benzenl Hexachloride	Not to exceed	10 mg/l.
9	Carbonyl	Not to exceed	10 mg/l
10	DDT	Not to exceed	
11	Endosulfan	Notio exceed	i i i i i i i i i i i i i i i i i i i
12	Diamethoate	Not to exceed	4.50 mg/
13	Fenitrothion	Not to exceed	nomoji al la
14	Malathion	Not to exceed	10 mg/
15	Phorate	Not to exceed	10 mg/l
16	Methyl Parathion 🔨 🔿	Not to exceed	10 mg/l.
17	Phenathoate	Not to exceed	10 mg/I.
18	Pyrethrums	Not to exceed	10 mg/i
19	Copper Oxyghloide	Not to exceed	9600 mg/
20	Copper Sulphate	Not to exceed	50 mg/l
21	Ziram	Not to exceed	1000 mg/l.
22	Sulphur	Not to exceed	30 mg/I
23	Paraquat	Not to exceed	2300 mg/l.
24		Not to exceed	7300 mg/l.
25	Nitrogen	Not to exceed	780 mg/l.
	(B) HEAVY METALS		
26	Copper	Not to exceed	1.0 mg/l.
27	Manganese	Not to exceed	1.0 mg/l
28	Zinc	Not to exceed	1.0 mg/l
29	Mercury	Not to exceed	0.0.mg/
30	Tin	Not to exceed	
31	Any other metal like Nickel etc	Not to exceed	Shell Forexceed
			the drinking
			standards of also
L	(C) Organics		
i			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

SRO Raigad I/I/R/L/74932000

32	Phenol and Phonolic and I		
	Phenol and Phenolic compounds as $C_6H_5OH$	Not to exceed	1 0 mg/l
	(D) Inorganics		
34	Arsenics (As As)	Not to exceed	DI2 mg/
35		Not to exceed	02107
36		Not to exceed	50 0 mo/
37			50 mg/
			三三、人を必要をして

(iv) Trade Effluent Disposal: The industry should dispose effluent qua CMD for Solar Evaporation Pond. The Solar Evaporation System should following conditions as laid down by Ministry of Environment and Fo of India. The treated effluent should be evaporated in an tan capacity so as even in rainy season the effluent should not find. The treated trade effluent should be recycled to the maximum extent should be pumped into saline zone of Patalganga Creek upto a point as ap 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 atleast one meter above ground level.
- Solar Evaporation Pans should be 2) leak proof and on impe construction and as per IS : 7290 The Solar Evaporation Ponds should be designed on
- evaporation rate matching to the output of waster
- During the rainy season, storm water should not heallowed process waste and enter the pans. The waste water should outflow from the evaporation pans. Alternative arrangement made to hold the water in proper impervious tall necessary, force evaporated.
- 5) In no circumstances, the liquid effluent should be dischare conforming to the minimal national standards or stored in a didi arrangement, which is likely to cause pollution.
- 6) The studge from the solar evaporation pans should be inc disposed off as per guidelines for management and handing hazardous waste, published by the Ministry of Environment & Hore Covt. of India, after obtaining authorization from the State I Control Board under the Hazardous Waste (Management & Handling
- Rules, 1989
  - For the preparation of embankment in soil for all four sides 1:2 slope is to be maintained. Minimum free board of 1.5 meters should be provided.
- Flat bricks lining over HDPE sheet for bottom and slopes in 8) cement mortar 1:5 with two layers of 250 micron thick HDPE sheet.
- Construction of the wall to avoid under scouring of the emband 9) during heavy rains.
- 10) Two coats of coal tar epoxy paint (120 micronitoral)
- 11) Provision of fencing around the lagoon to p
- and stray animals.
- 12) If any leachate generated, the BOD / COD should acceptable limits before disposing the same.

13) Forced evaporation system should be provided in place evaporation. Sewage Effluent Treatment: The applicant treatment system as is warranted with reference to influent and maintain the same continuously so as to achieve the qual to the following standards. (1)Suspended Solids Not to exceed (2)BOD 3 days 27o C. Not to exceed 100 (vi) Sewage Effluent Disposal: The treated domestic effluent soak pit, which shall be got cleaned periodically. Overflow, if a land for gardening / plantation only. (vii) Non-Hazardous Solid Wastes: Sr. No. Type Quantity UOM **Treatment Disposal** Waste (viii)Other Conditions: Industry should monitor effluent quality regularly The applicant shall comply with the provisions of the Water (Prev entio Control of Pollution) Cess Act, 1977 (to be referred amendment Rules, 2003 there under C The daily water consumption for the lowing category

- Domestic purpose (i)
- (ii) Water gets Polluted & Pollutants are Biodegradable
- (iii) Water gets Polluted Vollutants are not Biodegradable & Toxic ...
- (iv) Industrial Cooling spraying
- in mine pite of boiler feed (v) Agricultural (Gardening

The applicant shall regularly submit to the Board the return consumption in the prescribed form and pay the Cess as specified under Se said Act.

### **ONS UNDER AIR ACT :**

ii.

The applicant shall install a comprehensive control system consisting of control equipments as is warranted with reference to generation of emission and operate and maintain the same continuously so achieve the level of pollutants to the following standards

41.00

5805.00

0.00

0 00 300.00

idjuste

#### **Control Equipment:** a.

- A continuous monitor of chlorine with ar a an i.
  - shall be installed.

The following machines / equipments shall be hooding system connected to dust collector of sufficient limit the emissions to the following standards.

- 1. DDT Plant- (i) Grinder, (ii) Mixer (iii) mixer
  - Products hooper, (v) Hopping balance

2. Malathion Plant- (i) Feeding booth, (ii) Blende Elevator

Pillos

3. Any other source of particulate mat The following equipments shall be provide w of sufficient capacity to limit the emission standards.

i) formulation reactor, ii) Chlorination, iii) reactor iv) carboxin plant v) Hydrolysis section.

#### b. Standards for Emissions of Air Pollutants:

i) SPM/TPM	Not to exceed	150.0 me/Nm8
ii) SO <sub>2</sub>	Not to exceed	856.0 Kelda
iii) HCL	Not to exceed	35.0 mg/Nm34
iv) $H_2S$	Not to exceed	10.0 ppm
v)Chlorine	Not to exceed	3.0 ppm

### 6. Conditions for D.G. Set

iii.

- a. Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
- b. 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 of for meeting the ambientenoise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided at the measurement of insertion loss with be done and different points and there are provided at the measurement of insertion loss with be done and different points.
- measurement of insertion tost will be done all different point meters from acoustic enclosure from and there we meet c. The industry shall take adequate measures for contralevels from its own sources within the premises in respect of less than 55 dB(A) during day time and 45 dB(A) during to time. Day time is reckened between 6 a.m. to 10 p m and night reckoned between 10 p.m to 6 a.m.
- d. Industry should make efforts to bring down noise level due to Different outside industrial premises, within ambient noise requirements proper sitting and control measures.
  - . Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
- f. A proper routine and preventive maintenance procedure for Die 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
- g. D.G. Set shall be operated only in case of power failure
- h. The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set

#### 7. Standards for Stack Emissions:

#### The applicant shall observe the following

Sr. No.	Type Of Fuel	Quantity	UOM
1	Furnace Oil OR	12.69	KL /Dav
	Natural Gas	3600	KL/Day m3/day

The applicant shall erect the chimney(s) specifications:-

(ii)

Sr. No.	Chimney Attached To	Height in Mtrs.
1	Boiler	42.00
2	Supper Heater	
3	HCL Gas absorption Vent I	
1	Dust Collector Vent	25.50
5	Dust Collector Vent II	25.50
	Dust Collector Vent III	19.50
7	H2S scrubber	21.90
3	D.G. Set 320 KVA	3.60

The applicant shall provide ports in the chimney/(s) and ladder, platform etc. for monitoring the air emissions and the s be open for inspection to/and for use of the Board's Staff The vents attached to various sources of emission shall be numbers such as S-1, S-2, etc. and these shall be particed facilitate identification.

(iv) The industry shall take adequate measures for control of noise levels 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 1 p.m. and 6 a.m.

(vi) Other Conditions:

(iii)

- The industry should not cause any nuisance
  The industry should monitor stark emissions 2) Regularly.
- 8. CONDITIONS UNDER HAZARDOUS ASTE (MA AGEME TRANSBOUNDRY MOVEMEN (i) The Industry

	U)	The Industry shart handle hazard	ous wastes	as speaifi	
$\mathbf{Sr}$	. No.	Type Of Waste	Quantity	UOM	Disposal
1		29.2 Chemical sludge from waste	300.00	MT/A	CHWIGDRU HE
		water treatment	00000	11111	
2		33.3 Discarded containers /	300.00	MT /A	Sale to authorised
		barrels / liners used for HW chemicals			party alternation
		<u> </u>		1	decontamination
3		20.3 By Product spent Sulphuric acid	583.33	MT/M	Sale to autroprised
		from product DDT Technical			party
4		20.3 Besidues from the products		MT/M	
1	$\mathbb{N}$	Pretilachlor (T), Buprofezin (T),	12.5		
9		Imidacloprid (T), Acetamiprid (T),			
5	1.00	Chlorpyriphos(T) and Triazophos (T)			
10		20.3 By Product Dichlorobenzene	NIL	MT/M	
6		from product DDT Technical.			
		20.3 By product Hydrochloric Acid	NIL	MT/M	
7		from product DDT Technical 29.1 Process wastes/residues	1 1		
	1947. 1	containing pesticides	300.00	MT/A	CHWIEDR LINE
8		140 5			
		33.3 Waste Hessian (Jute) Bags	1050.00		
	(::)	Treate ANN			

(ii) Treatment: - NIL

9. Whenever due to any accident or gas leakage or other unforeseen emissions occur or is apprehended to occur in excess of standards

information shall be forthwith Reported to Collector, Directorate of Industry. Health, Police Station, Fire Brigade, Directorate of Health Services Hepairm Explosives, Board and Local Body and the production process show taking all necessary safety measures. The industry shall also more than ensure that the emissions do not cause any harm or puisance in the Surjoy in industry should not restart the process without permission of the Baard and statutory organization as require under the law.

# 10 Industry shall comply with following additional conditions:

- The applicant shall maintain good housekeeping and take adequate mean i. for control of pollution from all sources so as not to cause nuisable
- surrounding area / inhabitants.
- The applicant shall bring minimum 33% of the available open land ii. green coverage/ tree plantation.
- iii. Solid waste The non hazardous solid waste arising in the factory of sweepings, etc., be disposed of scientifically so as not to cause any ouisance pollution. The applicant shall take necessary permission **U**from civic authorities for disposal to dumping ground.
- iv. The applicant shall provide for an alternate electric pover source sufficient to operate all pollution control facilities installed by in applicant 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 & conditions of this consent regarding pollution levels,
- The applicant shall not change or alter quantity discharge, temperature or the mode of the effluent semissions or wastes or control equipments provided for writions previous permission of the Board

- permission of the Board. vi. The applicant shall provide facility for collection of environmentation and samples of trade and severage effluents, air emissions and anz ad Jaiza wastes to the Board staff at the terminal or designated points and ana to the Board for the services rendered in this behalf.
- vii. The applicant shall make an application for renewal of the consent arle days before the date of the expiry of the consent.
- viii. The firm shall submit to this office, the 30<sup>th</sup> day of September every
  - Environmental Statement Report for the financial year ending 31 Mark in the prescribed Form-V as pre the provisions of rule 14 of the Environment
  - (Protection) (Second Amendment) Rules, 1992.
- ix. As inspection book shall be opened and made available to the Board's officers during their visit to the applicant.

x. The applicant shall install a separate electric meter showing the consumption frenergy 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.

Xi. Separate drainage system shall be provided for collection of trade and s effluents. Terminal manholes shall be provided at the end of system with arrangement for measuring the flow the efficient she admitted in the pipes / sewers down- stream of the error a married effluent shall find its way other than in designed and provided sale

System.

Neither storm water nor discharge from other premises ha lle mix with the effluents from the factory.

dii.

- This consent shall not be construed as any exemption in necessary No Objection Certificate from other Government as deemed fit necessary.
- This consent is granted as per decision taken in Consent com following conditions
- a. Industry shall submit Bank Guarantee of Rs 5.0 Bakis wi in favour of "Regional Officer, MPCB, Raigad" undertake production of Endosulfan..
- b. There is reduction in pollution load after producting
- The applicant shall obtain consent to operate before stan commercial Production.
- This consent is issued as per the decision taken in the meeting 14. Committee of the Board held on 18/01/2013 with the approval of Chairman of the Board.

The Capital investment of the industry is ₹ 58.81, 15. (Existing CI Rs 41.81 Cr + Proposed CI Rs 17.0

To.

11.

12

13.

M/s Hindustan Insecticides Ltd Village – Rasayani, Tal- Panye Dist-Raigad, Maharastra

Copy to :

RO, Raigad /SRO Raigad

- They are directed to obtain Bank Guarantee of Rs 5.0 Lakhs toward a) not to rudertake production of Endosulfan, within 15 days and ensure the compliance of consent conditions. b)
- are directed to issue the directions to industries to which The consents are granted in past for production of Endosulfan, Ion ble Supreme Court Order. CAO/Cess Branch/Master file.

Received Consent fee of -

1			nsent fee of –	1 W. Ar of R.		
1	Sr.	No.	1001		Date	Drawn On
100 B			50000/-	517980	29 Nov 2011	SIL
	2		100/-	517980	02 Dec 2011	SBI BENRE