

# MAHARASHTRA POLLUTION CONTROL BOARD

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**Red/L.S.I**

**Date: 30/01/2012**

**Consent No:** BO/JD PAMS/RO-KP/EIC No.KP-7588-11/R/CC-177

**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 / Renewal of Authorization under Rule 5 of the Hazardous Wastes (Management, Handling & Transboundary Movement) Rules 2008**

[To be referred as Water Act, Air Act and HW (M&H) Rules respectively].

**CONSENT is hereby granted to**

**Dow Agrosciences India Pvt Ltd  
Plot No. A-1, MIDC Lote Parshuram  
Tal. Khed, Dist. Ratnagiri-415722**

located in the area declared under the provisions of the Water Act, Air act and Authorization under the provisions of HW(M&H) 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 Operate is granted for a period up to: 30/06/2016.**
2. **The Consent is valid for the manufacture of -**

Sr. No.	Product Name	Maximum Quantity	UOM
1	Chlorpyrifos Technical	4875	MT/Yr.
2	Chlorpyrifos Formulations	5000	KL/Yr.
3	Thifluzamide Formulations	150	KL/Yr.
4	Fenbuconazole Formulations	75	KL/Yr.
5	Penoxsulam Formulations	250	KL/Yr.
6	Mixed Chlorpyrifos Cypermetherin Formulations	2000	KL/Yr.
7	Acetamiprid Formulations	500	MT/Yr.
8	Cyhalofop Butyl Formulations	500	KL/Yr.
9	Chlorpyrifos + Spiopsad Formulations	100	KL/Yr.
10	Spiopsad Formulations	700	KL/Yr.
11	Tricentanol Formulations	500	KL/Yr.
12	Tricyclazole Formulations	50	MT/Yr.
13	Mixed Tricyclazole Formulations	50	MT/Yr.
14	Trifluralin Formulations	50	MT/Yr.
15	Carbendazim Formulations	200	MT/Yr.
16	Atrazin Formulation	50	MT/Yr.

17	Imidacloprid Formulations	100	KL/Yr.
18	Mancozeb Formulation	2500	MT/Yr.
19	Oxyfluorfen Formulations	500	KL/Yr.
20	Humic Acid Formulations	500	KL/Yr.
21	Dinocap Formulations	200	KL/Yr.
22	Dicofol Formulations	500	KL/Yr.
23	Miclobutanil Formulations	200	MT/Yr.
24	Glyphosate Formulations	800	MT/Yr.
25	Chlorpyrifos RTU	1500	MT/Yr.
26	Chlorpyrifos Dusting powder	300	MT/Yr.
27	Chlorpyrifos Granules	800	MT/Yr.
28	Chlorpyrifos MEC TRU	500	MT/Yr.
29	Chlorpyrifos formulation ULV	500	KL/Yr.
30	Haloxypop methyl formulations	300	KL/Yr.
31	Meptyl Dinocop formulations	200	KL/Yr.
32	Spinetoram Formulations	200	KL/Yr.
33	Sulfoxaflor formulations	500	KL/Yr.

### 3. CONDITIONS UNDER WATER ACT:-

- (i) The daily quantity of trade effluent from the factory shall not exceed 660.00 m<sup>3</sup>.  
(ii) The daily quantity of sewage effluent from the factory shall not exceed 100.00 m<sup>3</sup>.

#### (iii) Trade Effluent :

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

1	pH	Between	6.5 to 8.5
2	Suspended Solids	Not to exceed	100 mg/l.
3	BOD 3 days 27°C	Not to exceed	100 mg/l
4	COD	Not to exceed	250 mg/l.
5	Oil & Grease	Not to exceed	10 mg/l
6	Residual chlorine	Not to exceed	5.0 mg/l.
7	Copper (as Cu)	Not to exceed	1.0 mg/l.
8	Nitrates (as NO <sub>3</sub> )	Not to exceed	50.0 mg/l
9	Phosphates (as P)	Not to exceed	5.0 mg/l
10	Pesticides	Not to exceed	0.10 mg/l
11	Bioassay Test	90 % survival of Fish after 96 hrs. in 100 % effluent.*	

- Bioassay Test shall be carried out as per IS:6582-1971.

(iv) **Trade Effluent Disposal:** The treated industrial effluent shall be reused/recycled back to the maximum extent and remaining shall be discharged to CETP for further treatment and disposal. There shall not be any discharge outside the factory premises.

(iv) **Sewage Effluent Treatment & disposal:** The applicant should use entire sewage effluent generated from the plant in the existing ETP/Bioreactor for keeping the biomass in healthy condition and thereafter subject the same to treatment with trade effluent so as to meet above norms before disposal to CETP.

(v) Non-Hazardous Solid Wastes:

Sr. No.	Type Of Wast	Quantity	UOM	Treatment	Disposal
1	M.S.Scrap	76764.50	Kg/Yr.	}	Sale
2	Puttha	91630.00	Kg/Yr.		Sale
3	Empty Drums	13230.00	Kg/Yr.		Sale
4	Cut Drums	18620.00	Kg/Yr.		Sale
5	Wood in Scrap	20800.00	Kg/Yr.		Sale

(vi) **Other Conditions:**

1. Industry should monitor effluent quality regularly from MoEF approved laboratory.
2. The condition stipulated by Ministry of Environment & Forest, Govt. of India New Delhi vide its Environmental Clearance letter No. J-11011/8096 A-II(I) dated 9<sup>th</sup> April 1997 should be strictly adhere to.

**4. The applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Cess Act, 1977 (to be referred as Cess Act) and amendment Rules, 2003 there under**

The daily water consumption for the following categories is as under:

- |   |     |            |
|---|-----|------------|
| (i) Domestic purpose  | ... | 110.00 CMD |
| (ii) Water gets Polluted & Pollutants are Biodegradable             | ... | 672.00 CMD |
| (iii) Water gets Polluted, Pollutants are not Biodegradable & Toxic | ... | 0.00 CMD   |
| (iv) Industrial Cooling, spraying in mine pits or boiler feed       |     | 73.00 CMD  |
| (v) Agriculture/Gardening   |     | 100.00 CMD |

The applicant shall regularly submit to the Board the returns of water consumption in the prescribed form and pay the Cess as specified under Section 3 of the said Act.

**5. CONDITIONS UNDER AIR ACT:**

- (i) 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 as to achieve the level of pollutants to the following standards:

**A) Control Equipment:**

1. Scrubber of adequate capacity shall be provided to a) Chlorination destruction facility, b) Chlopyrifos plat vent system, c) Chlopyrifos plant chlorinosis unit & operate the same to limit the process emissions.
2. The continuous chlorine monitoring system with alarm adjusted to 3 ppm should be installed.

**B) Conditions for D.G. Set**

- 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 enclsure/ 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.

- c. The industry shall take adequate measures for control of noise levels from its own sources within the premises in respect of noise to less than 75 dB(A) during day time and 70 dB(A) during the night time. Day time is reckoned between 6 a.m. to 10 p.m and night time is reckoned between 10 p.m to 6 a.m.
- d. 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.
- e. Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
- f. 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
- 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

**C) Standards for Stack Emissions:**

(i)	SPM/TPM	Not to exceed	150 mg/Nm <sup>3</sup>
(ii)	SO <sub>2</sub>	Not to exceed	450 Kg/Day.
(iii)	Acid mist	Not to exceed	35 mg/Nm <sup>3</sup>
(iv)	Chlorine	Not to exceed	3 ppm

**(ii) The applicant shall observe the following fuel pattern:-**

Sr. No.	Type Of Fuel	Quantity	UOM
1	Furnace Oil	5.00	MT
2	LSD	12.00	MT

**(iii) The applicant shall erect the chimney(s) of the following specifications:-**

Sr. No.	Chimney Attached To	Height in Mtrs.
1	Chlorpyrifos Process Vent	35.00
2	Chlorpyrifos Process Vent	35.00
3	Boiler	33.00
4	D.G.Set (500 KVA)	6.00 *

above the roof of the building/enclosure in which it is installed.

(iv) 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.

(v) 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.

**(vi) Other Conditions:**

- 1) The industry should not cause any nuisance in surrounding area.
- 2) The industry should monitor stack emissions and ambient air quality Regularly.

**6. CONDITIONS UNDER HAZARDOUS WASTE (MANAGEMENT, HANDLING & TRANSBOUNDRY MOVEMENT) RULES, 2008:**

(i) The Industry shall handle hazardous wastes as specified below.

Sr. No.	Item No. as per Sch-I & Sch-II	Type of Waste	Quantity	Disposal
1	29.1	Pesticide residue	30 Mt./Yr	CHWTSDF
2	sch-II B-12	Organo Phosphorous Compounds		
3	29.2	Sludge from waste water	1 Mt./Yr	CHWTSDF
4	29.3	Date Expired & Off specification pesticides	35 Mt./Yr	CHWTSDF
5	33.3	Disposal of Barrels/Containers used for handling of HW/Chemical	50 MT/Yr	Sale to authorized party after decontamination or CHWTSDF
6	Sch-II, B-21	Asbestos sheets	As & when generated	CHWTSDF
7	5.1	Used/Spent Oil	3 Kl/vr.	Send to registered reproprocessors
8	34.1	Flue gas cleaning residue	2 Mt/yr.	CHWTSDF

(ii) Treatment: - NIL

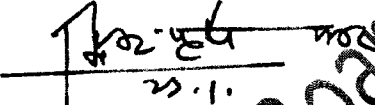
1. The authorization is hereby granted to operate a facility for collection, storage, transport & disposal of hazardous waste.
2. The industry should comply with the Hazardous Waste (M,H&TM) Rules, 2008.
3. Authorisation of solar pond for treatment of aqueous effluent stream and disposal of residue as hazardous waste. Solar evaporation pans should be operated during summer & winter season and may not be operated during rainy season. Flushing water generated during the rainy season should be stored at covered waste storage facility with full containment & should be sent to solar evaporation pans after the monsoon. Solar evaporation pans system should be operated as per guidelines given in the Environment (Protection) Rules, 1986 under SCHEDULE-I, for Pesticide Industry, point no. 4 in notes.

7. Whenever due to any accident or release of gases 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 and the production process should be stopped by taking all necessary safety measures. The industry shall also monitor the emissions and ensure that the emissions do not cause any harm or nuisance in the surrounding. The industry should not restart the process without permission of the Board and other statutory organizations as require under the law.

**8. General conditions:**

- (i) The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a yearly statement by 30<sup>th</sup> September every year on available open plot area, no. of trees surviving as on 31<sup>st</sup> March of the year and no. of trees planted by September end.
  - (ii) The applicant shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by he applicant and operate the same in case of power failure to maintain compliance with the terms and conditions of the consent. In the absence of same, the applicant shall stop, reduce or otherwise, control production to abide by terms & conditions of this consent regarding pollution levels.
  - (iii) The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent. The applicant shall not change or alter 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.
  - (iv) The firm shall submit MPCB, the Environmental Statement Report for the financial year ending 31<sup>st</sup> March in the prescribed Form V as pre the provisions of rule 14 of the Environment (Protection) (Second amendment) Rules, 1992 before 30<sup>th</sup> September every year.
  - (v) 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. The applicant shall also submit a comparative statement of designed power and chemical consumptions vis-a vis actual power and chemical consumption along with Environmental statement.
  - (vi) Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers down- stream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
  - (vii) The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous wastes to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf. An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
  - (viii) 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.
  - (ix) The applicant shall maintain good house keeping and take adequate measures for control of pollution from all sources so as not to cause nuisance to surrounding area / inhabitants.
10. If CETP dose not work for achieving standards & problem of pollution occurs, industry shall voluntarily stop the production or total effluent shall be reused.
11. The consent should not be construed as any exemption from obtaining necessary NOC from other Govt. agencies as may deemed fit necessary.

12. The industry shall also comply with the Industry specific standards notified under Environment Protection Act.
13. Industry has proposed product mix change within consented limits; hence the consent is issued as per MoEF circular dt. 14.12.2006.
14. This consent is issued as per the "No increase in Pollution Load Certificate" issued by Institute of Chemical Technology, Matunga, Mumbai dt. 21.10.2011.
15. This Consent is issued pursuant to the decision of 18<sup>th</sup> CC meeting held on 12.01.2012 of the Board & with the approval of Hon'ble Chairman of the Board.
16. The capital investment for expansion is ₹ 75.16 Crore.

  
 (Milind Mhaikar, IAS)  
 Member Secretary

To,  
 Dow Agrosiences India Pvt Ltd  
 Plot No. A-1 , M.I.D.C Lote Parshuram,  
 Tal. Khed, Dist. Ratnagiri -415 722

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	2,25,100	838239	22.04.2011	SBI
2	4,00,000	462382	02.10.2011	SBI