

# MAHARASHTRA POLLUTION CONTROL BOARD

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Mumbai-400 022.

**Red/L.S.I**

Date: 08/04/2014

**Consent No. BO/JD-PAMS/RO-KN/EIC No KN-6455-13 /Amnd/CAC-2013**

**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**

M/s. Gharda Chemicals limited.

Plot no. B 22 to 24, 27 to 29 & A 81 to 83

MIDC Phase-I, Dombivli

Dist. Thane-421 203.

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: 31.12.2014.**
2. **The Consent is valid for the manufacture of -**

Sr. No.	Product Name	Maximum Quantity (MT/M)
1	Oxyclozanide (condensation & Purification) OR Sulfosulfuron OR Acetamiprid* OR Rafoxanide OR Mepiquat Chloride	8  3  6  8  10
2	Isoproturon*	400
3	Cypermethric Acid / Cypermethric Acid Chloride OR Cypermethric Acid / Cypermethric Acid Chloride, And Vanillin Technical OR Cypermethric Acid / Cypermethric Acid Chloride, And Pigment Red	200 (55 for captive use in Cypermethrin)  50 + 500 80 +
4	Clodinafop Propargyl (CDFP)*	6
5	Cypermethrin* / Alphamethrin* / Lamda	92

	Cyhalothrin*	+
	And	8
	Diflubenzuron*	+
	And	26
	Chloro Hydroxy Benzo Phenone (CHBP) / Poly Ether Ketone (PEK) Monomer and its Polymer	
	OR	OR
	ABPBI	9
	And	+
	DPSO2	10
	And	+
	PTC	15
6	Fipronil*	4
7	Hexaconazole	15
8	Profenofos	2
9	R&D Activities	-
10	Insecticide Formulations	250

Note: (\*) Product along with its formulations.

#### List of By-products

Sr. No.	By-Products	Quantity Generation
1	Spent Acid	570 Mt/month
2	Ortho Nitro Cumene	163 Mt/month
	OR	OR
	Ortho Cumidine	84 Mt/month
3	Cupric Chloride Solution	75 KI/month
4	Sodium Sulphite/ Sodium Bisulphite Solution	1620 KI/month
5	Ammonium Chloride Solution	720 KI/month
6	Liquor Ammonia Solution	90 KI/month
7	Aluminum Chloride Solution (From CHBP Process) / OR Sodium Sulphite/ Sodium Bisulphite Solution + HCL solution from ABPBI process	560.7 Mt/month OR 51 Mt/month + 42 Mt/month
8	Spent HCl Solution	19.4 Mt/month
9	Spent Dimethyl Amine	75 Mt/month
10	Ethyl Alcohol (From Profenofos)	0.3 Mt/month

### 3. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of trade effluent from the factory shall not exceed 525.00 m<sup>3</sup>.  
(ii) The daily quantity of sewage effluent from the factory shall not exceed 95.00 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	5.5 to 9.0
2	Suspended Solids	Not to exceed	100 mg/l
3	BOD 3days 27 °C	Not to exceed	100 mg/l

4	COD	Not to exceed	250 mg/l
3	Oil & Grease	Not to exceed	10 mg/l
4	Cyanide (as 'CN')	Not to exceed	0.2 mg/l
5	Copper (as Cu)	Not to exceed	3.0 mg/l
6	Phenol	Not to exceed	1 mg/l
7	Pesticide	Shall be	NIL
8	TAN	Not to exceed	50 mg/l

(iv) **Trade Effluent Disposal:** The treated trade effluent shall be recycled to maximum extent and remaining shall be discharged into sewerage system provided by M.D. for further treatment to Dombivli CETP.

(v) **Sewage Effluent Treatment:** The applicant shall provide comprehensive treatment system as is warranted with reference to influent quality and operate and maintain the same continuously so as to achieve the quality of treated effluent to the following standards.

(1)	Suspended Solids	Not to exceed	200	mg/l
(2)	BOD 3 days 27o C.	Not to exceed	100	mg/l

(vi) **Sewage Effluent Disposal:** The treated domestic effluent shall be soaked in a soak pit, which shall be got cleaned periodically. Overflow, if any, shall be used on land for gardening / plantation only.

(vii) **Non-Hazardous Solid Wastes:**

Sr. No.	Type Of Waste	Quantity	Treatment and Disposal
1	Metallic Scrap	840.00 Kg/d.	Sale
2	Waste Insulation Material	30.00 Kg/d.	Sale to recycle
3	Civil Debris	330.00 Kg/d.	Land filling
4	Stationary Paper Waste	160.00 Kg/d.	Incineration / Sale to recycle
5	Non Metallic Scrap	30.00 Kg/d.	By sale

(viii) **Other Conditions:** Industry should monitor effluent quality regularly.

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	...	100.00 CMD
(ii) Water gets Polluted & Pollutants are Biodegradable	...	400.00 CMD
(iii) Water gets Polluted, Pollutants are not Biodegradable & Toxic	...	0.00 CMD
(iv) Industrial Cooling, spraying in mine pits or boiler feed	...	645.00 CMD
(v) Agriculture/Gardening	...	30.00 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 sufficient capacity shall be provided to –
  - a) Isoproturon process b) Cyermetherin process c) Sulfosulfuron/Acetamiprid d) Cypermethrin Acid Chloride process shall be kept in good working conditions.
2. Dust collector of sufficient capacity shall be provided to –
  - a) Pulveriser b) Ball mill shall be kept in good working condition.

**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. An 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.
- 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 55 dB(A) during day time and 45 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

**Standards for Emissions of Air Pollutants:**

(i)	SPM/TPM	Not to exceed	150mg/Nm <sup>3</sup>
(ii)	SO <sub>2</sub>	Not to exceed	1980 Kg/day
(iii)	Chlorine (Cl <sub>2</sub> )	Not to exceed	3 ppm
(iv)	HCl	Not to exceed	35 ppm
(v)	Ammonia (NH <sub>3</sub> )	Not to exceed	50 ppm
(vi)	NO <sub>x</sub>	Not to exceed	50 ppm
(vii)	H <sub>2</sub> S	Not to exceed	10 ppm

**Standards for Stack Emissions:**

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

Sr. No.	Type Of Fuel	Quantity
1	Furnace Oil	22.00 T/day.
2	HSD	0.95 T/hr (Only in case of power failure)

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

Sr. No.	Chimney Attached To	Height in Mtrs.
1	Steam Boiler- 2 Nos (1 stand by)	54.00
2	DG SET 1250 KVA	12.8
3	DG SET 1000 KVA	11.8
4	DG SET 1000 KVA	11.8
5	DG SET 1000 KVA	11.8
<b>Process Vents</b>		
1	CMAC/CMA filling point. (plant 3)	37.00
2	Process vent plant 1	36.00
3	Process vent plant 2	36.00
4	Process vent plant 3	36.00
5	Process vent plant 4	15.00

- (iii) 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.

- (iv) 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 Schedule I/II	Type of waste	Quantity MT/Yr.	Disposal
1	20.1	Contaminated aromatic, aliphatic or naphthenic solvents not fit for originally intended use.	1000	Incineration at their Lote unit/Sale as a by-product.
2	20.3	Distillation residue	80	Incineration at Lote
3	29.2	Chemical sludge including calcium Sulphate from Waste Water Treatment	3480	Sent to CHWTSDF
4	36.2	Ash from Boiler	12	Sanitary land fill on their own premises /sent to CHWTSDF
5	33.3	Discarded containers / barrels.	3000 Nos.	Sale to party after decontamination.
6	5.2	Contaminated Cotton waste	4.8	Incineration at Lote
7	29.1	Contaminated Saw Dust	4.8	Incineration at Lote

8	29.3	Date expired & off-specification pesticides	10	Incineration at Lote
9	5.1	Used / Spent Oil	7.5	Incineration at Lote / Sale as Byproduct
10	28.2	Spent Activated Carbon	48	Incineration at Lote / Sale as Byproduct
11	Schedule IV	Electronic Waste	0.25	Sent to MPCB/ CPCB authorized recycler

(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) Rules, 2008.
7. Whenever due to any accident or release of gases or other unforeseen factors 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. **Industry shall comply with following additional conditions:**
- i. The applicant shall maintain good housekeeping and take adequate measures for control of pollution from all sources so as not to cause nuisance to surrounding area / inhabitants.
  - ii. The applicant shall bring minimum 33% of the available open land under green coverage/ tree plantation.
  - iii. Solid waste – The non hazardous solid waste arising in the factory premises, sweepings, etc., be disposed of scientifically so as not to cause any nuisance or pollution. The applicant shall take necessary permissions from civic authorities for disposal to dumping ground.
  - iv. The applicant shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by he 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.
  - v. 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.
  - vi. 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.
  - vii. The applicant shall make an application for renewal of the consent at least 60 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 year, 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.
  - 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 of energy for operation of domestic and industrial effluent treatment plants separately.

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 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.
- xii. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.

09. If CETP dose not work for achieving standards & problem of pollution occurs industry shall voluntarily stop the production or total effluent shall be raised.
10. The consent should not be construed as any exemption from obtaining necessary NOC from other Govt. agencies as may deemed fit necessary.
11. The industry shall also comply with the Industry specific standards notified under Environment Protection Act.
12. This consent is issued by overriding earlier consent no. BO/JB-PAMS/RO/KN/EIC No. KN-8824-11/Amnd/R/CC-335 Dt. 13/03/2012.
13. Industry has proposed product mix change within consented limits; hence the consent is issued as per MoEF circular dt. 14.12.2006.
14. Industry shall submit Bank Guarantee of Rs. 5 Lakhs with in 15 days to RO Kalyan towards O & M of pollution control system, which shall be valid for one year.
15. This Consent is issued pursuant to the decision of 12<sup>th</sup> CAC meeting of 2012-2013 held on 22.03.2013 of the Board.
16. The Capital investment of the industry is Rs. 136.28 Crores.

(Rajeev Kumar Mhatre) IA  
Member Secretary

To,  
M/s. Gharda Chemicals limited.  
Plot no. B 22 to 24, 27 to 29 & A 81 to 83,  
MIDC Phase-I, Dombivali  
Dist. Thane-421 203.

Copy to:

- 1) Regional Officer, MPCB, Kalyan / 2) Sub-Regional Officer, MPCB, Kalyan-I. They are requested to ensure compliance of consent conditions & report the same.  
3) Chief Accounts Officer, MPCB, Mumbai  
4) Cess Wing/Master file.

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	Rs. 5,83,250	477442	9.9.2009	Canara Bank
2	Rs. 10,000	162743	6.1.2012	Canara Bank
3	Rs. 1,90,000	843914	17.2.2012	Canara Bank
4	Rs. 45,000	229030	7.11.2012	Canara Bank