

MAHARASHTRA POLLUTION CONTROL BOARD

Tel: 24010437/24020781/24014701

Fax: 24024068 / 24023516

Website: <http://mpcb.mah.nic.in>

E-mail: pci2@mpcb.gov.in



Kalpataru Point, 2nd - 4th Fl.

Opp. Cine Planet Cinema,

Near Sion Circle, Sion (E)

Mumbai-400 022.

RED/LSI

Consent no: BO/ JDPAMS /RO-KP/EIC-KP-10398-12/Amnd/CAC- 531

Date: 19/07/2012

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 & Transboundry) 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 Ltd.,

Plot No. D-1/2 & B-1/7

MIDC Lote Parshuram,

Tal. Khed, Dist. Ratnagiri -415722.

Located in the area declared under the provision of the Water Act, Air Act and Authorization under the provision of HW (M&H) Rules and amendment thereto subject to the provisions of the Act and 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 31.12.2015**
(The cumulative quantum of technical pesticides manufacture & technical pesticide required for the formulation (captive consumption) shall not exceed quantum as Anilofos -100 Mt/M, Cypermethric Acid Chloride, Cypermethrin, Permethrin, Alphamethrin & Deltamethrin - 510 MT/M, Temephos - 18 Mt/M, Chlorpyrifos - 1200 Mt/M).
2. **The consent is valid for the manufacture of**

S.No.	PRODUCTS	Production Quantity in MT/M
1	Anilofos	100
	Or	
	Alpha Naphthoxy-N-N-Diethyl Propionamide (ANDPA)	50
	Or	
	Triclopyr (TCP)	25
	And	
	Meta Phenoxy Benzoyl Alcohol (MPBA)	10
2	Cypermethric Acid Chloride, Cypermethrin, Permethrin, Alphamethrin, Deltamethrin	510
	And	
	Dicamba	150
	OR	
	Fipronil	50
	OR	
	Cypermethric Acid Chloride & Cypermethrin & Alphamethrin	100
And		

	Vanillin & or its intermediate Oxalic acid & Glyoxylic acid	225
3	Diflubenzuron & Metazachlor Or it's intermediate Pyrazole	30 30
	Or	
	Metamitron & Deltamethrin	100 10
	Or	
	Oryzalin	40
	Or	
	Indoxacarb (S Isomer)	17
4	Temephos	18
5	Mepiquat Chloride	3.4
6	Polymer	
	a) PMMA	25
	b) Co Polymer of Methyl Styrene & Acrylonitrile	25
	Or	
	a) Poly Ether Ketone (PEK)	15
	b) Poly Ether Nitrile (PEN)	15
7	Cartap hydrochloride	18
	Or	
8	Chlorpyrifos	1200
	Or	
	Chlorpyrifos Methyl	
	Or Triclopyr Ester	
9	Acephate	17
	Or	
	Indoxacarb (S Isomer)	10
	Or	
	Ethyl Chloride	15
	OR Phase Transfer Catalyst (PTC)	20
10	Poly Ether Sulfone & Poly Sulfone	42
	Or	
	Poly Aryl Ketone (PAEK) Acid	10
11	5 - Amino Salicylic Acid (5 ASA)	8
12	R & D Activities	--
13	Pesticide Formulation (Liquid & Solid)	770
14	Pilot plant to demonstrate less polluting novel route for producing following metals from their ores.	
	a) Aluminium	60
	b) Titanium	60

LIST OF BY-PRODUCTS

Sr. No.	BY-PRODUCTS	CAPACITY, (M ³ /M or MT/ M)
1	Sodium Sulphide & Sodium Bisulphide (From Methanalysis Process)	25
2	Potassium Chloride (From Methylation Process)	134
3	Spent H ₂ SO ₄ (From Diazo process)	1220
4	Bromom Benzene (from Deltamethrin Process)	416
5	Hydrochloric Acid (From Chlorination Process)	1288
6	Acetic Acid (From CAC Process)	49
7	Impure Solvent	25
8	AlCl ₃ Solution (From Halex/Lewis/Friedal Kraft Process)	130
09	Dichloro Phenol Coupling Product (From Diazo Process)	40
10	Unreacted NaTCPOL (From Condensation Process)	30
11	Sodium Bisulphite/Sodium Sulphite/ Sodium Sulphate- Solution (from Chlorination process)	1000
12	Inorganic salt mixture (Mainly NaCl & Na ₂ SO ₄)	210

3. CONDITIONS UNDER WATER ACT :

- (i) The daily quantity of trade effluent from the factory shall not exceed 848.0 M³. (Combined quantity for plots.No. D-1/2 and B-1/7)
- (ii) The daily quantity of sewage effluent from the factory shall not exceed 86.0 M³.
- (iii) **Trade Effluent :**

Treatment : The applicant shall provide comprehensive treatment system consisting of primary / secondary and /or tertiary treatment system 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 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) Phenolic Compounds	Not to exceed	5 mg/l
7) Sulphates	Not to exceed	5 mg/l
8) Total Ammonical Nitrogen	Not to exceed	50 mg/l
9) Cyanide	Not to exceed	0.2 mg/l
10) Free NH ₃	Not to exceed	5 mg/l
11) Pesticide	Shall be Nil	
12) Bioassay Test	90 % survival of fish after 96 hours in	

- (iv) **Trade Effluent Disposal:** The treated trade effluent shall be disposed into 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 27 Deg. C.	Not to exceed	100	mg/l

(vi) **Sewage Effluent Disposal:** Treated effluent shall be disposed into sewage system provided by MIDC.

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

	<u>Type of waste</u>	<u>Quantity</u>	<u>Treatment</u>	<u>Disposal</u>
1.	Boiler Ash	6.5 MT/Day	--	Sale to Brick Manufacturer.
2.	Packing material (Paper & wood).	0.1 MT/Day	--	Incineration/Sale to the party
3.	Civil debris	0.3 MT/Day	--	Land filling inside the factory
4.	Reusable Insulation Material	0.05 MT/Day	--	Sale to the party
5.	M.S. Scrap	0.5 MT/Day	--	Sale

(viii) **Other conditions :**

- 1) The conditions for transportation of high COD effluents M/s PRIA CETP, Patalganga, Dist Raigad.
 - a) Total quantity of effluent to be transported shall not exceed 20 KLD.
 - b) The transportation of effluent by road is full responsibility of industry.
 - c) Proper manifest records of the transportation shall be maintained. The industry shall maintain all the necessary records and submit it to board regularly , along with copy to Regional Officer- Kolhapur/ Sub Regional Officer Chiplun.
 - 2) The 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 Rules there under:

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

Domestic	187 CMD
Industrial processing generating Bio-Degradable waste water	390 CMD
Industrial processing generating Non-Bio-Degradable waste water	Nil
Industrial Boiler/Cooling etc.	1160CMD
Any other and gardening.	25CMD

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 which is also available on MPCB website at <http://mpcb.mah.nic.in/images/cessform1.pdf>

5. **CONDITIONS UNDER AIR ACT:**

- (i) The applicant shall install a comprehensive control system consisting of control Equipment 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:

(ii) **Control Equipment:**

1. Scrubbing system should be provided to following process unit/s with sufficient capacity to limit the emission: a) Bromination, b)

- Chlorination, c) Sulphonation d) Hydrolysis, e) Cypermethrin Preparation and f) Methylation.
2. Dust collection devices should be provided to following units/sections with sufficient capacity to limit the emission: a) Mixing, b) Pulveriser, c) Packing Section and Any other source of particulate matter.
 3. Multi Cyclone dust collector should be provided to Bagasse fired boiler.

(iii) Conditions for DG Set

1. Noise from D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
2. 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.
3. 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. Daytime is reckoned between 6 a.m. to 10 p.m. and nighttime is reckoned between 10 p. m. to 6 a.m.
4. Industry should make effort to bring down noise level due to D. G. Set, outside industrial premises, within ambient noise requirements by proper siting and control measures.
5. Installation of D.G. set must be strictly in compliance with recommendations of D.G. set manufacturers.
6. A proper routine and preventive maintenance procedure for D.G. set should be set and followed in consultation with the S.G. manufacturer which would help to prevent noise levels of D.G set from deteriorating with use.
7. D.G. set shall be operated only in case of power failure.
8. The applicant should not cause any nuisance in the surrounding area due to operation of D.G. set.

(iv) Standards for Emissions of Air Pollutants :

a) From the Process stacks

(i)	HCl/HBr	Not to exceed	35 ppm
(ii)	Cl/Br	Not to exceed	3 ppm
(iii)	SO ₂ /NO _x /NH ₃	Not to exceed	50 ppm
(iv)	H ₂ S	Not to exceed	10 ppm
(v)	Cyanide	Not to exceed	5 ppm
(vi)	Methyl Chloride	Not to exceed	50 ppm

b) From the Boiler stack

(i)	SPM/TPM	Not to exceed	100 mg/Nm ³
(ii)	SO ₂ from boiler	Not to exceed	1500 Kg/Day
(iii)	Nox	Not to exceed	50 ppm

c) From Incinerator stack

			Conc in mg/Nm ³	Sampling Duration/Min
(i)	TPM	Not to exceed	50 mg/Nm ³	30
(ii)	SO ₂	Not to exceed	200 mg/Nm ³	30

(iii)	HCl	Not to exceed	50 mg/Nm ³	30
(iv)	CO	Not to exceed	100 mg/Nm ³	30
(v)	TOC	Not to exceed	20 mg/Nm ³	30
(vi)	HF	Not to exceed	4 mg/Nm ³	30
(vii)	NOx	Not to exceed	400 mg/Nm ³	30
(viii)	Total dioxins & Furans	Not to exceed	0.1 ug TEQ/Nm ³	8 Hours
(ix)	Heavy metals			
	Cd+Th	Not to exceed	0.05 mg/Nm ³	2 Hours
	Hg	Not to exceed	0.05 mg/Nm ³	2 Hours
	Sb+As+Pb+Cr+	Not to exceed	0.05 mg/Nm ³	2 Hours
	Co+Cu+Mn+Ni+V			

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

<u>Sr.No.</u>	<u>Type of Fuel</u>	<u>Quantity</u>
1	LSHS/FO OR	750 MT/M
2	LSHS/FO + Bagasse Briquetted solid fuel or Wood or Coal.	316 MT/M + 1944 MT/M

(The industry should use power and steam generated from Captive Co-generation plant at plot F-1/1 and existing boilers shall be kept as stand by units. Shall be operated only in case of emergency or annual shut down of Co-generation plant)

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

<u>Sr.No.</u>	<u>Chimney attached to</u>	<u>Heights in Mtrs.</u>
1.	Boiler (RF - 3 - 60)	50.0 Common Stack.
2.	Boiler (IAEC)	
3.	Boiler (Transparent Energy)	
4.	Incinerator + Calcinator	
5.	Thermax No. TPA 10	28.4
6.	D.G. Set (750 KVA) 1Nos.	6.3 *
7.	D.G. Set (1000 KVA) 3Nos.	6.3 *
8.	D.G. Set (750 KVA) 1Nos.	7.0 *
9.	D.G. Set (1250 KVA) 1Nos.	7.0 *

(* Above the roof of the building in which it is to be installed)

(vii) The applicant shall provide ports in the chimney/(s) and facilitates 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.

(viii) The industry shall take adequate measures for control for 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 p.m.

(ix) Other Conditions :

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

6. CONDITIONS UNDER HW (M,H & TM) RULES, 2008

(i) The applicant shall handle hazardous wastes as specified below :

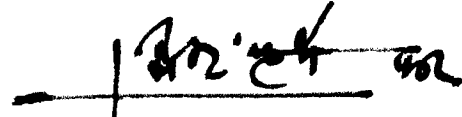
Sr. No	Item No. of process substance generating HW as per Schedule - I/II	Type of waste	Quantity MT/Yr.	Disposal
1	20.3	Residue of fluid or pasty organic material made with halogen containing hydrocarbon. From Dombivli Site	500 100	Own Incinerator (Rotary Kiln Type) within premises/ Sale as a by-product. OR Incineration @ CHWTSDF
2	20.1	Residue of fluid or pasty organic material made with aromatic, aliphatic or naphthenic hydrocarbon. From Dombivli Site	400 1000	
3	36.4	Residue from organic material	150	
4	29.2	Sludge from Wastewater treatment.	750	Secured landfill at CHWTSDF
5	36.1	Sludge from incineration of exclusively chemical waste.	200	
6	36.2	Fly Ash from Incinerator of hazardous waste except exclusively communal sewage sludge flue gas cleaning residues	250	
7	5.1	Spent Oil	250	Sale to Authorized re processor
8	33.3	Discarded containers / barrels	8000 Nos	Sale to party after decontamination
9	5.2	Contaminated Cotton Waste From Dombivli Site	3.5 4.8	Incineration
10	29.1	Contaminated Saw Dust From Dombivli Site	5 4.8	Incineration
11	29.3	Date- Expired & Off Specification Pesticides	400 Mt/A	Own Incinerator (Rotary Kiln Type) within premises
12	Schedule IV	Electronic Waste	3.0	To MPCB authorized recycler

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. **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 / 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 30th day of September every year, the Environmental Statement Report for the financial year ending 31st 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 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 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 reused.
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/ ZOPAMS /RO- KP/EIC-AKP-6100-10/R/ CC- 89 Date:19/05 /2011

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 for O & M of ETP so as to achieve treated effluent standards.
15. This consent is issued pursuant to the decision taken in the 3rd Consent Appraisal Committee meeting of the board held on 03/07/2012
16. Capital investment of the industry is Rs. 361.76 Crores.



(Milind Mhaiskar, IAS)
Member Secretary

To,
M/S Gharda Chemicals Ltd,
Plot No. D-1/2 & B-1/7, MIDC Lote Parshuram,
Tal : Khed, Dist: Ratnagiri. 415722.

Copy to:

1. RO- Kolhapur /SRO-Chiplun-They shall ensure the compliance of consent conditions.
2. CAO/Cess Branch/Master File

Consent Fees paid

Sr. No.	Amount	DD/Cheque No.	Date	Bank
1	Rs. 8,64,760/-	836869	18.11.2010	Canara Bank
2	Rs. 50,000/-	837403	19.12.2010	Canara Bank
3	Rs. 10,000/-	645706	11.02.2011	Oriental Bank of Commerce
4	Rs. 5,76,440/-	092857	26.03.2011	Canara Bank
5	Rs. 500100/-	578955	15.05.2012	Canara Bank

