

MAHARASHTRA POLLUTION CONTROL BOARD

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Mumbai - 400 022

Consent order No :- Formate I.0/ BO/CAC-Cell/ EIC No RD-2692-14/15thCAC - 9420
Date- 13/10/2014

To,
M/s. Aquapharm Chemicals Pvt. Ltd.,
K- 3/1-2-3, Addl. MIDC Mahad
Tal. Mahad, Dist. Raigad.

Subject: Renewal of Consent to Operate RED category.
Ref : 1. Earlier Consent granted vide no. BO/JDPAMS/O/EIC.NO.RD-1830-
10/CC-121dtd. 04/08/2011
2. Minutes of CAC meeting held on 09.09.2014

Your application: CO1401000261
Dated: 22.01.2014

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 01.01.2014 to 31.01.2017.
2. The actual capital investment of the industry is Rs.89.21 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 in MT/D
1	Phosphorus Trichloride 100 %	30
2	Hydroxy Ethylene Di-phosphonic Acid 100 %	40
3	Diethylene Triamine Penta Phosphoric Acid 100 %	8
4	Ethylene Diamine Tetramethylene Phosphoric Acid	0.5
5	Di-Bromo Nitrilo Propion Amide	1
6	Amino Trimethylene Phosphoric Acid	3
7	Salt of HEDP	12
8	Salt of Amine Organophosphonates	5
9	Powder of HEDP salts	7
10	Methylene Bio-thiocynate	1
11	Sodium Bromide	1.5
12	Acetyl Chloride (By product)	5
13	Hydrochloric Acid (30-33%)(By product)	90

7	Oil Soaked cotton waste	--	500	Kg/A	--	CHWTSDF
8	Filter & Filter material which have organic contamination	35.1	0.5	MT/A	--	CHWTSDF
9	Paint contaminated empty drums/buckets/tiffins	--	500	Nos./A	--	CHWTSDF
10	Boiler Soot	--	2	MT/A	--	CHWTSDF
11	Discarded Asbestos	15.2	1	MT/A	--	CHWTSDF
12	ETP Sludge	34.3	124	MT/A	--	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 carry out treatability study of ETP from NEERI/IIT and submit report within 3 months. Also submit BG of Rs 2 lakhs for the compliance of the same.
11. Industry shall not start any activity in warehouse before the obtaining EC and submit BG of Rs 10 lakhs for the compliance of the same.
12. Industry shall submit Board Resolution from Company's Board by 08.11.2014 that they have constructed without valid consent to operate from the Board and Environmental Clearance and violated the provisions of Environmental Laws and in future, they will not do such violations and submit BG of Rs 2 lakhs immediately towards the compliance of the same.

For and on behalf of the
Maharashtra Pollution Control Board

(Rajeev Kumar Mital IAS)
Member Secretary

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	3,75,000	144743	29/10/2013	Bank of Baroda
2	75,000	095130	06/11/2013	SBI
3	50,000	988433	02/12/2013	SBI
4	100000	144941	29.01.2014	Bank of Baroda
5	10416	582064	30.09.2014	SBI

Copy to:

1. Regional Officer -Raigad and Sub-Regional Officer-Mahad, MPCB They are directed to ensure the compliance of the consent conditions. Forfeit 2.5 lakh out of 5 lakh towards O & M of PCS as the JVS results are exceeding and top-up BG of Rs 5 lakh. Hence the total BG will be Rs 7.5 lakh (2.5+5).

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	31	As per Schedule -I	CETP
2.	Domestic effluent	4	As per Schedule -I	CETP

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 3 nos	2	As per Schedule -II
2.	Process vents	4	As per Schedule -II
3.	DG set	1	As per Schedule -II

6. Conditions about Non Hazardous Wastes:

Sr. no.	Type Of Waste	Quantity & UoM	Treatment	Disposal
1	Wooden Scrap	10 kg/day	-	Sale
2	Metallic Scrap	50 kg/day	-	Sale
3	Waste Cotton	5 kg/day	-	Sale
4	Bottles & Plastic Bags	25 kg/day	-	Sale
5	Coal ash from boiler	10 MT/day	-	Sale

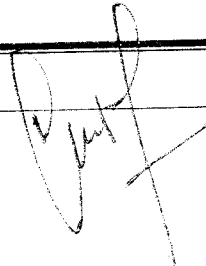
7. Conditions under Hazardous Waste (MH & TM) Rules, 2008 for treatment and disposal of hazardous waste:

Sr. No.	Type Of Waste	Category	Quantity	UOM	Treatment	Disposal
1	Tank bottom sludge & filter contaminated with oil	3.3	3.12	MT/M		CHWTSDF
2	Spent Solvents	20.2	24	MT/A	--	CHWTSDF
3	Distillation residue	20.3	24	MT/A	--	CHWTSDF
4	Discarded Barrels/Liners	33.3	18000	Nos./A	--	Sale
5	Waste oil & Used oil	5.1	2.0	MT/A	--	Sale
6	MS Drums	33.3	1	MT/day	--	Sale

The BG of Rs 2.5 lakh each submitted towards provision of acid proof tilling to HEDP plant and catch storage pit of capacity 16 CMD for collection of spillages, leakages, if any against the restart order dated 20.05.2014 shall be returned back as industry has complied the same as per the visit report dated 05.08.2014.

2. Chief Accounts Officer, MPCB, Mumbai.
3. CC/CAC desk- for record & website updation purposes.

Maharashtra Pollution Control Board



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 50 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	6.0-8.5
02	Oil & Grease	10
03	BOD (3 days 27oC)	100
04	Total Dissolved Solids	2100
05	Suspended Solids	100
06	COD	250
07	Chloride	600
08	Sulphate	1000
09	Iron	3
10	Zinc	3

C) The treated effluent shall be discharged to the CETP.

2) A.] As per your consent application, you have provided the septic tanks and soak pits.

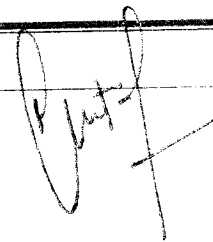
B] The Applicant shall operate the sewage treatment system to treat the sewage so as to achieve the following standards/ prescribed under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

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

C] The treated sewage shall be discharged to the CETP.

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.

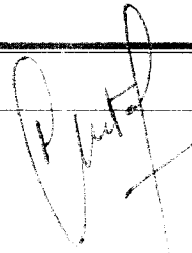
4) The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.



- 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	272
2.	Domestic purpose	5
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	171
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	0
5.	Agriculture/Gardening	40

- 6) 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 provided the Air pollution control (APC) system and also erected following stack (s) 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 No.1 (12 TPH)	Cyclone & bag filter	40	Coal	1500 Kg/Hr	0.1	72
2	Boiler No.2 (6 TPH)	Air Preheater	40	FO	370 Kg/Hr	1.5	266
3	Boiler No.3 (3 TPH)	Air Preheater		FO	190 Kg/Hr	1.5	136
4	D.G.Set (380 KVA)	Cooling	7	Diesel	80 kg/Hr	1	38
5	CL ₂ Scrubber	Packing & scrubber	15	--	--	--	--
6	HCL scrubber	Absorption System	12	--	--	--	--
7	Spray dryer	Scrubber & Demister pad	33	--	--	--	--
8	PCL ₃ Scrubber	Scrubber	15	--	--	--	--

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 .
SO ₂ /NO _x	Not to exceed	50 ppm
Acid Mist/ HCL	Not to exceed	35 mg/Nm ³

4. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement 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**

History of BG

Sr. No.	Consent (C to E/O/R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	C to R	Rs 2.5 lakh out of Rs 5 lakh	To be forfeited	JVS results of sample dated 05.07.2014 and 09.04.2014 are exceeding	To be forfeited	To be forfeited

Proposed BG

Sr. No.	Consent (C to E/O/R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	C to R	Rs 5 lakh (Top-up). Hence total BG shall be 7.5 lakh (2.5+5)	Within 15 days from the date of issue of consent	O & M of PCS	30.01.2017	30.05.2017
2	C to R	Rs 2 lakh	Within 15 days from the date of issue of consent	Industry shall carry out treatability study of ETP from IIT/NEERI and submit the report	30.12.2014	30.04.2015
3	C to R	Rs 10 lakh	Within 15 days from the date of issue of consent	Industry shall not start any activity in warehouse before the obtaining EC	30.01.2017	30.05.2017
4	C to R	Rs 2 lakh	Immediately	Industry shall submit Board Resolution from Company's Board by 08.11.2014 that they have constructed without valid consent to operate from the Board and Environmental Clearance and violated the provisions of Environmental Laws and in future, they will not do such violations	08.11.2014	08.03.2015

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) If the MIDC pipeline is broken/ overflowing chamber, in such cases industry shall not discharge their treated effluent into MIDC drain, it shall be sent to CETP by tanker.
- 3) Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
- 4) 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.
- 5) 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.
- 6) 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.
- 7) 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.
- 8) 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.
- 9) 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 Waste (M,H & TM) Rules, 2008 for the preceding year April to March in Form-IV by 30th June of every year.
- 10) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 11) **The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.**
- 12) 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).
- 13) 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.
- 14) 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.

- 15) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
- 16) 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.
- 17) 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
- 18) The industry should not cause any nuisance in surrounding area.
- 19) 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.
- 20) The applicant shall maintain good housekeeping.
- 21) The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a statement on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end, with the Environment Statement.
- 22) 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.
- 23) 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.
- 24) 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.
- 25) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
- 26) 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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