

MAHARASHTRA POLLUTION CONTROL BOARD

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Kalpataru Point, 3rd & 4th floor, Sion- Matunga
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Sion Circle, Sion (E),
Mumbai - 400 022

Consent order No: -Format 1.0/BO/AS(T)/TN-6019-15/CC Cell/A/CC- 2768

Date-24/02/2016

To,
M/s Calyx Chemicals and Pharmaceuticals Pvt. Ltd.,
Plot No. N-102/91, MIDC Tarapur,
Tal. & Dist. Palghar, Pin - 401 506.

Subject: Renewal of Consent to Operate under Red/LSI category.

Ref.: 1. Earlier Consent to Operate granted vide Consent no. BO/JD-PAMS/EIC No.
TN-2994-11/R/CC-194 dtd. 25/10/2011.
2. Minutes of CC meeting held on 03/12/2015.

Your application No. CR1509000096

Dated: 16/07/2015

For: Grant of Consent to Operate (150911FT0114)
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 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 upto 30/08/2020.
2. The capital investment of the industry is Rs. 36.80 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	UOM
Refer Annexure-I			

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	53	As per Schedule -I	into CETP
2.	Domestic effluent	11	As per Schedule -I	Recycle for gardening only

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	1	As per Schedule -II
3	Process Vents	5	As per Schedule -II
4	DG Sets (415 x 2 & 500 KVA)	3	As per Schedule -II

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

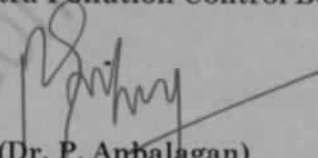
1) The Industry shall handle hazardous wastes as specified below.

Sr. No.	Type Of Waste	Category	Quantity	UOM	Treatment	Disposal
1	Sludge and filters contaminated with oil	3.3	500	Kg/5 Years	--	CHWTSDF
2	Used/ Spent Oil	5.1	100	Kg/M	--	Sale to Auth. Party
3	Waste/ residue containing oil	5.2	100	Kg/M	--	CHWTSDF
4	Discarded Asbestos	15.2	10	Kg/A	--	CHWTSDF
5	Contaminated aromatic, aliphatic or naphthenic solvents	20.1	30	MT/M	--	Sale to Auth. Party
6	Spent Solvents	20.2	2	Kg/M	--	Sale to Auth. Party
7	Distillation residues	20.3	20	Kg/M	--	CHWTSDF
8	Residues & Wastes	28.1	30	Kg/M	--	CHWTSDF
9	Spent Charcoal	28.2	1000	Kg/M	--	CHWTSDF
10	Spent Catalyst	28.2	100	Kg/M	--	CHWTSDF
11	Date Expired Products	28.4	10	Kg/M	--	CHWTSDF
12	Discarded Barrels	33.3	500	Nos./M	--	Sale after decontamination
13	Discarded Carboys	33.3	50	Nos./M	--	
14	Discarded Glass Bottles	33.3	100	Nos./M	--	
15	Discarded Polybags/ Liners	33.3	20	Kg/M	--	
16	Used ion exchange material (resin)	34.2	2000	Ltrs/2 Years	--	CHWTSDF
17	ETP sludge	34.3	600	Kg/M	--	CHWTSDF
18	Contaminated Filters Cloth/ Bags	35.1	100	Kg/M	--	Sale to Auth. Party after decontamination

7. The Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.
8. This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government authorities.
9. The applicant shall ensure that their production shall be restricted to the generation of effluent as promised by you to the TEPS-CETP by reducing total daily generation of TEPS-CETP with voluntary closure in a staggered manner so as to restrict total generation of TEPS-CETP in a time bound manner to 25 MLD each day. The validity of the bank guarantee of Rs. 5.0 lakh furnished towards compliance of this condition in the Board shall be extended upto 31/12/2020 after its expiry.
10. The applicant shall not carry out any excess production or produce new products without Consent of the Board and without Environmental Clearance wherever it requires. The validity of the bank guarantee of Rs. 5.0 lakh furnished towards compliance of this condition in the Board shall be extended upto 31/12/2020 after its expiry.
11. The applicant shall not discharge any effluent in any other source other than the CETP sewerage drain for further treatment and disposal. The validity of the bank guarantee of Rs. 2.5 lakh furnished towards compliance of this condition in the Board shall be extended upto 31/12/2020 after its expiry.
12. The applicant shall operate and maintain existing ETP effectively. The validity of the bank guarantee of Rs. 5.0 lakh furnished towards compliance of this condition in the Board shall be extended upto 31/12/2020 after its expiry.

13. The applicant shall make provision for operation & maintenance of flow meter and online pH meter/separate energy meter to pollution control devices. The validity of the bank guarantee of Rs. 2.5 lakh furnished towards compliance of this condition in the Board shall be extended upto 31/12/2020 after its expiry.
14. The applicant shall operate & maintain air pollution control system effectively so as to achieve standards laid down under Environment (Protection) Rules 1986. The validity of the bank guarantee of Rs. 2.5 lakh furnished towards compliance of this condition in the Board shall be extended upto 31/12/2020 after its expiry.
15. The applicant shall properly collect, transport & regularly dispose off the hazardous waste to CHWTSDF, in compliance of the Hazardous Wastes (Management, Handling & Transboundry Movement) Rules, 2008 and keep proper manifest thereof. The validity of the bank guarantee of Rs. 2.5 lakh furnished towards compliance of this condition in the Board shall be extended upto 31/12/2020 after its expiry.
16. The applicant shall provide lock & key arrangement for treated industrial effluent.
17. The applicant shall install online continuous monitoring system for effluent parameters at the outlet of ETP and shall furnish bank guarantee as per CPCB's directives.
18. This Consent is issued pursuant to the decision of the Consent Committee meeting held on 03/12/2015.

For and on behalf of the
Maharashtra Pollution Control Board


(Dr. P. Anbalagan)

Member Secretary, I.A.S.

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	Rs. 75,100/-	472924	23/06/2015	SBI
2	Rs. 3,00,000/-	474928	06/01/2016	SBI

Copy to:

1. Regional Officer/ Sub-Regional Officer-Tarapur-I, M.P.C.B., Thane.
- They are directed to ensure the compliance of the consent conditions.
2. Chief Accounts Officer, MPCB, Mumbai.
3. CC/CAC desk - for record & website uploading purpose.

Schedule-I

Terms & conditions for compliance of Water Pollution Control:

1) A] As per your application, you have provided Effluent Treatment Plant (ETP) of designed capacity 60 CMD consisting of primary, secondary & tertiary level treatment for the treatment of industrial effluent. After treatment, treated effluent is discharged into CETP for further treatment and disposal.

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)
	I. Compulsory Parameters	Limiting Concentration in mg/l, except for pH
01	pH	6.5 to 8.5
02	Oil & Grease	10 mg/l.
03	BOD (3 days 27oC)	100 mg/l.
04	Total Dissolved Solids	2100 mg/l.
	II Additional Parameters	
05	Suspended Solids	100 mg/l.
06	COD	250 mg/l.
07	Chloride	600 mg/l.
08	Sulphate	1000 mg/l.
09	TAN	50 mg/l.

C] The treated effluent shall be reused/ recycled upto maximum extent in the process and remaining shall be discharged into CETP for further treatment & disposal. There shall not be any discharge outside the factory's premise.

2) A] As per your consent application, you have provided the septic tank followed by soak pit for the treatment of sewage. Overflow, if any shall be applied on land for gardening purpose within premise.

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 27oC. Not to exceed 100 mg/l.

C] In case the treatment system is combined for trade effluent and sewage then the standards and disposal path prescribed at Sr. No. (1) (B) & (C) of schedule-I shall be applicable.

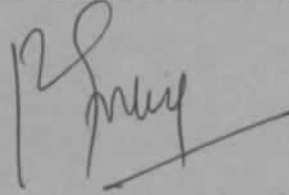
3) The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system and/ or 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	99
2.	Domestic purpose	19
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	82
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	--
5.	Others	--
	i) Gardening	04

- 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:

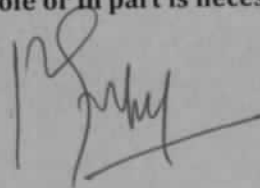
1. As per your application, you have proposed to install/ provided the Air pollution control (APC) system and also proposed to erect / erected following stack (s) and to observe the following fuel pattern-

Sr. No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Qty. & UoM	S %	SO ₂ Kg/Day
1	D.G. Set (415 KVA - 2 Nos.)	--	4.0 (above the roof)	LDO	500 Ltrs/day	9	18
2	D.G. Set (500 KVA)	--	5.0 (above the roof)				
3	Boiler (3.0 TPH)	--	35	FO	70 Kg/Hr	75.6	151.2
4	Artemether Reactor Stage II	HCl Scrubber	17	-	-	-	-
5	Clopi Reactor Stage I	HCl Scrubber	17	-	-	-	-
6	Clopi Reactor Stage IV	HCl Scrubber	17	-	-	-	-
7	Cetirizine Hydrochloride Reactor Stage II	HCl Scrubber	17	-	-	-	-
8	Isoniazid Reactor Stage II	NH ₃ Scrubber	17	-	-	-	-

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 (Boiler)	Not to exceed	151.2 Kg/day
NO _x	Not to exceed	50 ppm
NH ₃	Not to exceed	35 ppm
Acid Mist/ HCl	Not to exceed	35 mg/Nm ³ .

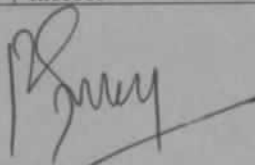
4. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.
5. The Board reserves its 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 in force

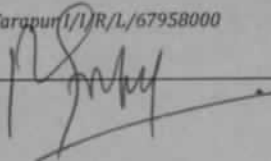
Sr. No	BG Imposed for C to O/ Directions	Amt. of BG Imposed	Submission Period	Purpose of BG	Compliance period	Validity Date
1	Restart Directions issued vide letter No. MPCB/AS(T)/DIR/B-4982 dtd. 30/10/13	Rs. 5.0 lakh	Existing	Condition (a) towards reducing total daily effluent generation in a staggered manner	Continuous	Extend upto 31/12/2020 after expiry
2		Rs. 5.0 lakh	Existing	Condition (b) towards not to carry any excess production or produce new products without Consent of the Board and without an Environmental Clearance wherever it requires	Continuous	Extend upto 31/12/2020 after expiry
3		Rs. 2.5 lakh	Existing	Condition (c) towards not to discharge any effluent in any other source other than the CETP sewerage drain for further treatment and disposal	Continuous	Extend upto 31/12/2020 after expiry
4		Rs. 5.0 lakh	Existing	Condition (d) towards operation and maintenance of existing ETP effectively	Continuous	Extend upto 31/12/2020 after expiry
5		Rs. 2.5 lakh	Existing	Condition (e) towards provision for operation & maintenance of flow meter and online pH meter/separate energy meter to pollution control devices	Continuous	Extend upto 31/12/2020 after expiry
6		Rs. 2.5 lakh	Existing	Condition (f) towards operate and maintain air pollution control system effectively so as to achieve standards laid down under Environment (Protection) Rules, 1986	Continuous	Extend upto 31/12/2020 after expiry
7		Rs. 2.5 lakh	Existing	Condition (g) towards properly collect, transport, regularly dispose off the hazardous waste and to keep proper manifest thereof	Continuous	Extend upto 31/12/2020 after expiry



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

- 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 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) 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.
- d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
- e) 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
- f) D.G. Set shall be operated only in case of power failure.
- g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
- h) 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 yearly statement by 30th September every year on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end.

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.

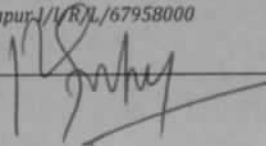
24) The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.

25) The industry shall submit quarterly statement in respect of industries obligation towards consent and pollution control compliance's duly supported with documentary evidences (format can be downloaded from MPCB official site).

26) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.

27) The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dt. 16.11.2009 as amended.

28) **The industry shall recycle/reprocess/reuse/recover hazardous waste as per the provision contained in the HW(M,H & 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 cannot 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.**



List of Products

Annexure-I

Sr. No.	Type of Product	Product Names	Consented Qty(MT/Yr)
1	Antitubercular	Pyrazinamide	580
2		Isoniazid	
3		Rifampicin	
4		Rifambutin	
5		Etanmbutanol	
6	Antihypertensive	Losartan Potassium	65
7		Peridopeil Erbumine	
8		Benazepril Hydrochloride	
9		Ramipril	
10		Lisinopril Dihydrate	
11		Valsartan	
12		Eprosartan	
13		Telmisartan	
14		Enalaprin	
15		Carvedilol	
16		Isradipine	
17		Irbesartan	
18		Felodipine	
19	Antiosteoporetic	Alendronate Sodium	2
20		Pamidronate Sodium	
21		Zolendronic Acid	
22		Residronic Acid	
23	Sedative / Hypnotic	Zopiclone	3
24		Eszopiclone	
25	Antidepressant	Venlafaxine Hydrochloride	5
26		Desvenlafaxine	
27	Antihistaminic	Cetirizine Dihydrochloride	5
28		Meclizine	
29		Levocetirizine	
30		Levocetirizine	
31	Antithrombotic	Clopidogrel Bisulphate	5
32	Antimalarial	Artemether	150
33		Arteether	
34		Artesunate	
35		Dihydroartemisinin	
36		Lumefantrine	
37		Chloroquine	
38	Macrolides	Erythromycin Oxime	30
39		Erythromycin Base	
40		Erythromycin Estolate	
41		Erythromycin Ethylsuccinate	
42		Azithromycin	
43		Erythromycin Phosphate	
44		Erythromycin Propionate	
45		Erythromycin Stearate	
46		Roxithromycin	
47		Silyl Ester	
48		Clarithromycin	
49	Antiepileptic	Valproic Acid	37
50		Sodium Valproate	
51		Sodium Divalproate	

52	Gabapentin	
53	Lamotrigine	
54	Felbamate	
Total		882

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