

MAHARASHTRA POLLUTION CONTROL BOARD

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Kalwa - E, 3rd & 4th floor, Sion, Malunga
 Scheme Plot No. 5, Opp. Cine Planet Cinema, Near
 Durgam Chawl, Mumbai - 400 022



Consent under No :- *Format 1.0/ BO/CAC-Cell/MIC No. RD-2009-14/14 CAC-7101*

Date: 09.02.2015

To,

Embio Ltd.

Plot No E-21, E-22/2/3,

M.I.D.C. Mahad,

Dist.-Raigad

Subject: 1st Consent to Operate for coal fired boiler of 4 TPH and amalgamation with existing consent under REF category.

Ref: 1. Existing Consent granted vide no. *Format 1.0/BO/CAC-Cell/EIC No RD-2009-14/6th CAC-7101* dtd 25.07.2014

2. Earlier Consent granted vide no. *Format 1.0/BO/CAC-Cell/EIC No RD-2878-14/22nd CAC-12568* dtd 30.12.2014

3. Amendment letter granted vide letter dated 07.10.2014.

4. Your application approved in CAC meeting held on 15.04.2015

Your application: CO1502000277

Dated: 09.02.2015

For: 1st Consent to Operate for coal fired boiler of 4 TPH and amalgamation with existing consent

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 date of issue of consent upto 30.04.2017.
2. The actual capital investment of the industry is Rs. 99.89 Crs. (As per C.A.Certificate submitted by industry)
3. The Consent is valid for the manufacture of -

Sl. No.	Product / By-Product Name	Maximum Quantity in MTA
1	Ephedrine Hydrochloride salts	315.00
2	Hydroxyamphetamine hydrobromide	0.01
3	Clobenzorex Hydrochloride	1.50
4	Phentermine Hydrochloride	0.50
5	Pseudoephedrine Hydrochloride salts	280.00
6	Norephedrine	100.00
7	N-Methylephedrine	30.00
8	DMIC	15.00
9	Selegiline Hydrochloride	1.00
10	Oxazolidinones	0.50
11	Octopamine	30.00
12	Dronabinol	0.03

14	Wastewater	1000	1000
15	Wastewater	1000	1000
16	Wastewater	1000	1000
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18	Wastewater	1000	1000
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100	Wastewater	1000	1000

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	550	As per Schedule -I	315 CMD is recycled & 235 CMD is disposed to CETP
2.	Domestic effluent	35	As per Schedule -I	Overflow of soak pit on land for gardening/plantation OR to 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	02	As per Schedule -II
2.	Process vents	01	As per Schedule -II
3.	DG set	02	As per Schedule -II

6. Conditions about Non Hazardous Wastes:

Sr. no.	Type Of Waste	Quantity & UoM	Treatment	Disposal
1	Char	700 KG/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	Discarded containers/barrels/liners	33.3	7	MT/A	--	Sale after decontamination
2	Used/spent oil	5.1	0.80	MT/A	--	Send to Auth. Recycler/representor / CHWTSDF
3	Residues and Wastes	28.1	1.40	MT/A	--	CHWTSDF
4	Spent mother liquor	28.4	3.50	MT/A	--	CHWTSDF

6	Off specification Products, Spent Carbon	28.2	0.20	MT/A	---	CHWTSDF
7	Quantity of waste water	34.2	0.20	MT/A	---	CHWTSDF
7	Toxic metal containing residue from water purification	34.2	0.20	MT/A	---	CHWTSDF
8	Filters and filter Material which have organic liquid	35.1	0.40	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. This consent is granted by overriding consent no Formate.0/BO/CAC-Cell/EIC No RD-2699-14/6th CAC-7101 dated 25.07.2014.
11. The applicant shall install online continuous stack emission monitoring system and online effluent quality monitoring systems at the outlet of effluent treatment plant for measurement of consented parameters by 30.06.2015 & to connect and upload the online emissions and effluent monitoring data at MPCB and CPCB server in time bound manner. Industry shall submit BG of 100 % of the cost of the online monitoring systems (emissions and effluent which ever applicable) for ensuring timely installation of online monitoring systems by 30.06.2015. BG shall be discharged if industry installs the same. If the industry fails to install the same by 30.06.2015, the consent to operate will be withdrawn and the BG will be forfeited. This is in accordance with the CPCB directions dated 02.03.2015.

For and on behalf of the
Maharashtra Pollution Control Board

(Dr. P. Anbalagan, IAS)
Member Secretary

Received Consent fee of -

Sl. No.	Amount (Rs.)	DD. No.	Date	Drawn On
1	50100	208805	14.01.2015	SBI Bank
2	50000	991798	21.04.2015	SBI Bank
Previous consent fees				
1	500100	179842	2.12.2013	S.B.I.
2	41666	216060	17.07.2014	S.B.I.

The balance fees of Rs 50100/- shall be considered at the time of next renewal

Copy to:

1. The Secretaries, Zonal and Sub-Regional Offices Mahad. They are required to ensure the compliance of the contract conditions with regard to the payment of 100% in 8 months.
2. The Secretaries, Zonal and Sub-Regional Offices.
3. The Director, Mahad & website updation purposes.

(Signature)
(Name)
(Designation)

Terms & conditions for approval of Consent to Discharge Control:

1) A] As per your application, you have provided the Effluent Treatment Plant (ETP) with the design capacity of 200 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	6.5 to 8.5
02	Oil & Grease	10
03	BOD (3 days 27°C)	100
04	Total Dissolved Solids	2100
05	Bioassay Test	90% survival of fish after first 96 hrs in 100% effluent
06	TAN	50
07	Suspended Solids	100
08	COD	250
09	Chloride	600
10	Sulphate	1000

C) The treated effluent shall be discharge to the CETP -235 CMD. Remaining treated 315 CMD shall be recycled further in the cooling tower-200 CMD, vacuum pump-100 CMD, toilet flushing -15 CMD

2) A.] As per your consent application, you have provided the septic tank 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 50 mg/l.
- (2) BOD 3 days 27°C. Not to exceed 30 mg/l.
- (3) COD Not to exceed 100 mg/l.

C] The overflow of the soak pit shall be mixed intermittently with the trade effluent before reverse osmosis or else shall be used on land for gardening/plantation.

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.

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.

The applicant shall comply with the provisions of Environment Protection Act, 1986 and as amended by installing water meter, fitting water cess returns in Form 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	375.00
2.	Domestic purpose	60.0
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	562.00
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	---
5	Agriculture/Gardening	30

- 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.

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Schedule II

Terms & conditions for grant of Air Pollution Control:

- As per your application you have provided the Air pollution control (APC) system and also listed following stack (s) and to observe the following fuel pattern:

Stack No.	Stack Name	Equipment	Height (mtrs)	Fuel	Capacity (M ³ /D)	SO ₂ (ppm)	PM ₁₀ (mg/Nm ³)
1	Boiler	Multi-cyclone dust collector with bag filters	35	Coal	15 M ³ /D	0.5	150
2	Boiler	Stack	35	Biogas (MAIN FUEL)	12000 M ³ /D	Nil	Nil
3	DC sets (250 KVA X 2 nos)	Stack	3.2 mtrs each above the roof	HSD	160 Lit/Hr	1	65
4	Process stack for acid mist.	Wet Scrubber	8	—	—	—	—

- 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.
- 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 .
HCl	Not to exceed	35 mg/Nm ³

- 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.
- 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

Sl. No.	Condition	Amount of Guarantee	Submission Period	Compliance Period	Validity Period	
1	C to R	Imposed Rs 10 lakhs	Submitted	W & M of pollution control systems	30.01.2017	30.08.2017
2	C to R	100 % of the cost of the online monitoring systems (emissions and effluent which ever applicable;	Within 15 days from the date of issue of consent	The applicant shall install online continuous stack emission monitoring system and online effluent quality monitoring systems at the outlet of effluent treatment plant for measurement of consented parameters by 30.06.2015 & to connect and upload the online emissions and effluent monitoring data at MPCB and CPCB server time bound manner	30.06.2015	30.10.2015

M. Jay

Schedule-IV

General Conditions:

- 1) The applicant shall make facility for collection of rainwater and effluent treatment plant facilities for effluent treatment. The Board staff at the demand or designated points and shall pay to the Board for the services rendered in this behalf.
- 2) If the MIDC pipeline is full/overflowing chamber, in such cases industry shall not discharge their treated effluent into MIDC drain, it shall be sent to CHTP by tanker.
- 3) Industry should monitor effluent quality, stack emissions and maintain an audit 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
- 9) /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.
- 10) 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.
- 11) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 12) **The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.**
- 13) 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).
- 14) 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.
- 15) 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.

- 16) Neither storm water nor discharge from the premises shall be allowed to mix with the effluents from the factory.
- 17) The applicant shall install a system meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. The system meter shall be maintained.
- 18) 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
- 19) The industry should not cause any nuisance in surrounding area.
- 20) 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.
- 21) The applicant shall maintain good housekeeping.
- 22) 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.
- 23) 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.
- 24) 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.
- 25) 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.
- 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 dtd. 16.11.2009 as amended.

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