

MAHARASHTRA POLLUTION CONTROL BOARD

Tel: 24010437/24020781/24014701

Fax: 24024068 /24023515

Website: <http://mpcb.gov.in>

E-mail: ast@mpcb.gov.in



Kalpataru Point, 2nd - 4th Floor,

Opp. Cine Planet Cinema,

Near Sion Circle, Sion (E)

Mumbai - 400 022

Red/LSI

Date: 21.09.2015

Consent No: Format 1.0/BO/AST/EIC NO.PN-24290-15/CC/12242

To,

M/s. Venkateshwara hatcheries Pvt. Ltd.

(Ventri Bio. Vaccine Division),

Plot No. 20, Rajiv Gandhi ITBT Park,

Hinjewadi, Villge Mann,

Tal.- Mulshi, Dist.- Pune.

Subject : Consent to Operate under RED category.

Ref : 1. Earlier Consent to operate granted vide No. BO/AST/EIC NO. PN-22961-14 /AMG/CC-12186, dated 20.12.2014.
2. Minutes of Consent Committee meeting held on 28.08.2015.

Your application: CR1503000013.

Dated: 02.03.2015.

For: 1st Consent to Operate for expansion and amalgamation 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 up to 31/01/2018.
2. The actual capital investment of the industry is Rs. 72.12 Cr. (As per C. A. Certificate submitted by industry).
3. The Consent is valid for the manufacture of -

Sr. No.	Product Name	Maximum Quantity	UOM
1	Poultry Vaccine	560	Million Doses /Month

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	50.0	As per Schedule -I	On land for gardening
2.	Domestic effluent	8.0	As per Schedule -I	On land for gardening

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.	Incinerator	2	As per Schedule II
2.	Boiler	1	As per Schedule II
3.	DG Set 2 Nos.(500 KVA)	1	As per Schedule II

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

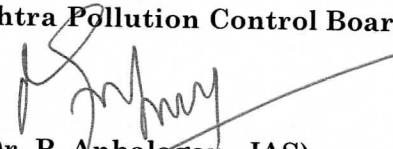
Sr. No.	Type of Waste	Category	Quantity	UOM	Disposal
1	Used / Spent Oil	5.1	0.5	KL/A	Sale to authorized re-processor

7. **Non-Hazardous Solid Wastes:**

Sr. No.	Type of Waste	Quantity	UOM	Treatment	Disposal
1	ETP Sludge	3.00	MT/Month	---	Use as manure
2	Paper waste	1.00	MT/Month	---	Sale

8. This Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.
9. The industry shall comply with industry specific standards notified under Environment protection Act.
10. This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government agencies.

For and on behalf of the
Maharashtra Pollution Control Board


(Dr. P. Anbalagan, IAS)
Member Secretary

Received Consent fee of -

Sr. No.	Amount (Rs.)	DD. No.	Date	Drawn On
1	1,00,100/-	002863	07/01/2015	IDBI Bank

(Balance Fees Rs.2 lakh mentioned in Consent granted on 20/12/2014
(Consider during renewal of consent)

Copy to:

1. Regional Officer - MPCB Pune.-directed to forfeit Bank Guarantee of Rs. 2.5 Lakh out of Bank Guarantee Rs. 5 lakh towards exceeding JVS report (Air) and obtain fresh bank guarantee of Rs.7.5 lakh (i.e Rs. 2.5 lakh + double BG of Rs. 5 lakh)
2. Sub -Regional Officer - MPCB Pune II; They is directed ensure the compliance of consent conditions.
3. Chief Accounts Officer, MPCB, Mumbai.
4. CC/CAC desk- for record & website updation purposes.

Schedule-I

Terms & Conditions for compliance of Water Pollution Control

- 1) A] As per your application, you have provided Effluent Treatment Plant (ETP) with the design capacity of 50.0 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
		Limiting Concentration in mg/l, except for pH
01	pH	5.5-9.0
02	Oil & Grease	10
03	BOD (3 days 27°C)	100
04	Sulphate	1000
05	Suspended Solids	100
06	COD	250
07	Chloride	600
08	Total Dissolved Solids	2100

- C] The treated effluent shall be recycled / reused to the maximum extent and remaining shall be disposed on land for gardening.
- 2) A] The Applicant shall install 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.
- B] The treated sewage effluent shall be used on land for gardening purpose.
- 3) The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of water, works 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, boiler feed etc.,	17.0
2.	Domestic purpose	9.00
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	70.0
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	—

- 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 uidelines.

Maharashtra Pollution Control Board

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) to observe the following fuel pattern-

Sr. No.	Stack Attached to	APC System	Height in meter	Type of Fuel	Quantity	SO ₂ Kg/ Day
1.	Incinerator	Ventury Scrubber	30.0	LDO	50.00 Ltr/Hr.	43
2.	Incinerator	Ventury Scrubber				
3.	Boiler	Stack	30.0	LDO	80.00 Ltr/Hr	70
4.	DG Set (500 KVA)	Stack	10.0	Diesel	80.00 Ltr/Hr.	38
5	DG Set (500 KVA)	Stack	10.0	Diesel		

2. The Applicant shall operate and maintain Wet scrubber & Multicyclone Dust Collector provided to the boilers as an Air Pollution control equipments OR 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
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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).
6. **Standards for Incinerator as per CPCB guidelines :**
Applicant shall provide and/or upgrade the existing incinerator so as to comply the following standards and conditions.
- A) Emission limit of Incineration while operating properly at 100 % rated capacity, shall have an emission limit from the discharge stack to atmosphere of less than or equal to :

Parameter	Emission limit (mg/Nm ³)
Particulate Matter	50
HCl	50
SO ₂	200
CO	100
Total Organic Carbon	20
HF	4
NO _x	400

All values corrected to 11% oxygen on a dry basis.

B] Hydro carbons 10 ppm over an hourly rolling average dry basis measured as propane.

C] Capacity : While operating properly at 100% rated capacity, the system shall have a visible emission rate of less than or equal to 10% except for condensed water vapour from the discharge stack to atmosphere (one hour rolling averages).

D] Dioxin Furans : While operating properly at 100% rated capacity, the system shall be an emission of dioxins and furans of less than or equal to 0.1 manogram TEQ/NM3 corrected to 10% oxygen, Sampling period shall be minimum 5 hours and maximum 8 hours. Analysis at dioxin and furans as well as reference measurement methods to calibrate automated measurementsystem shall be carried out as given by CEN standards. II CEN standards are not available, ISO Standards, National or International standards which will ensure the provision of data of an equivalent scientific quality shall apply.

E] Metals: While operating properly at rated capacity, the system shall have an emission rate from the discharge of stack to atmosphere less than or equal to:

Metal	
Cd+Th (and its compounds)	0.05Mg/NM3
Hg (and its compounds)	0.05
Sb+As+Pb+Cr+Co+Mn+Nr+V (and their compounds)	0.5

All values corrected to 11% oxygen on a dry volume basis.

F] Operating Standards:

1. Combustion efficiency (CE) shall be at least 99.9% and shall be computed as follows-
 $CE = \% CO_2 / [\% CO_2 + \% CO] \times 100$
2. Temperature of the primary chamber shall be at least 850°C.
3. Secondary chamber gas residence time shall be at least 2 (two) second at 1100°C will minimum 3% oxygen in the stack gas.
4. Destruction and Removal Efficiency (DRE) for each principal Organic hazardous constituent (POHC) in the waste lead shall be at least 99.99%.
4. DRE for hazardous waste containing PCBs, PCTs and other chlorinated compounds shall be 99.9999%.

G] Air pollution control devices: The emission control system shall be installed for cleaning and removal of air pollutants. The system shall comprises of following equipment. Singly or in combination with design efficiencies to meet the emission norms:

- i) Waste heat boiler/heat exchange/quench
- ii) Bag filters (ESP)/Cyclone
- iii) Dry/wet scrubber with hydrated lime or sodium hydroxide injection.
- iv) Chimney/stack of minimum 30 m height or as per formula $14 (Q)^{0.1}$ [Where Q is emission rate of SO₂ in Kg hr] whichever is more and designed as per GEP.
[Note Dry/wet ESP, spray dryer, dediex filter and mist eliminator shall also be considered as may be required.]

H] Operating Conditions: Incineration plants shall be operated in order to achieve a level of incineration such that the slag and bottom ashes Total Organic Carbon (TOC) content is less than 3% or their loss on ignition is less than 5 of the dry weight of the material. If necessary, appropriate techniques of waste pre-treatment shall be used. Incineration plants shall be designed, equipped, built and operated in such a way that the gas resulting from the process is raised after the last injection of combustion air, in a controlled and homogenous fashion and even under the most unfavorable conditions to a temperature of 850°C as

measured near the inner wall or at another representative point of the combustion chamber as authorized by the Competent Authority for two seconds. If hazardous wastes with a content of more than 1% of halogenated organic substances, expressed as chlorine, are incinerated, the temperature has to be raised to 1200°C + 100 for at least two seconds.

Each line of the incineration plant shall be equipped with at least one auxiliary burner. This burner must be switched on automatically when the temperature of the combustion gases after the last injection of combustion air falls below 850°C or 1100°C as the case may be is maintained at all times during these operations and as long as unburned wastes is in the combustion chamber.

During the start up and shut down or when temperature of the combustion gas falls below : 850°C or 1100°C as line the case may be, the auxiliary burner shall not be fed with fuels emissions than those permitted.

- I] Monitoring requirements: Continuous monitoring and recording system for opacity CO, SO₂ and NO_x shall be installed and reported shall be sent to the State Pollution Control Boards on regular basis. Interlocking arrangements for CO and temperature controls (in primary and secondary chamber) with feeding devices shall also be provided waste feed has also to be terminated on loss of ignition in the after burner safety valve in case of high pressure development in the furnace.
- J] Notification of Compliance: The operator of the incinerator shall undertake comprehensive performance test. Within 90 days of completion of comprehensive performance test. The operator shall issue a notification of compliance documenting compliance or non compliance, as the case may be, for public information.

Standards for Emissions of Air Pollutants from Process and Boiler :

(i)	SPM	Not to exceed	150 mg/Nm ³ .
(ii)	SO ₂	Not to exceed	3052 kg/day
(iii)	SO ₂ (Process)	Not to exceed	50 ppm
(iv)	Acid Mist	Not to exceed	35 mg/Nm ₃
(v)	Nox from process	Not to exceed	50 ppm.

Standards for Emissions due to Incineration of Industrial effluent:

Sr. No.	Pollutants	Limit
1.	Particulate	30 mg/Nm ³
2.	HCl	50 mg/Nm ³
3.	SO ₂	200 mg/Nm ³
4.	CO	100 mg/Nm ³
5.	HBr	60 mg/Nm ³
6.	Dioxin/Furan	0.1 µg TEQ/Nm ³
7.	Opacity	10%
8.	Cadmium (Cd)	0.05 mg/Nm ³
9.	Thallium (TI)	0.05 mg/Nm ³
10.	Mercury (Hg)	0.05 mg/Nm ³
11.	Antimony (Sb)	0.5 mg/Nm ³
12.	Arsenic (As)	0.5 mg/Nm ³
13.	Lead (Pb)	0.5 mg/Nm ³
14.	Chromium (Cr)	0.5 mg/Nm ³
15.	Cobalt (Co)	0.5 mg/Nm ³
16.	Copper (Cr)	0.5 mg/Nm ³
17.	Manganese (Mn)	0.5 mg/Nm ³
18.	Nickel (Ni)	0.5 mg/Nm ³
19.	Vnadium (V)	0.5 mg/Nm ³
20.	Tin (Sn)	0.5 mg/Nm ³

**Schedule-III
Details of Bank Guarantees**

Sr. No	Consent (C to E/O/R)	BG Guarantee Amount	Submission Period	Consent conditions	Compliance period	Validity
1	C to O	Rs.7.5 lakh	15 days	O & M of pollution control system	31.01.2016	31.05.2016

History of Bank Guarantees

Sr. No	Consent (C to E/O/R)	Amt of BG forfeited	Reason for forfeiture
1	C to R	Rs. 2.5 lakh	For exceeding JVS results

(Handwritten Signature)

Maharashtra Pollution Control Board

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) Industry should monitor effluent quality, stack emissions and ambient air quality monthly.
- 3) 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.
- 4) 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.
- 5) 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.
- 6) 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.
- 7) 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.
- 8) 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.
- 9) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 10) The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.**
- 11) 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).
- 12) 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.
- 13) 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.
- 14) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
- 15) 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.
- 16) 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.
- 17) The industry should not cause any nuisance in surrounding area.
- 18) 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.
- 19) The applicant shall maintain good housekeeping.
- 20) 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.
- 21) 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.
- 22) 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.
- 23) 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.
- 24) 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).
- 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 dt. 16.11.2009 as amended.
- 27) 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 an extension or addition thereto.
- 28) 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.

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