

MAHARASHTRA POLLUTION CONTROL BOARD

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Sion Circle, Sion (E),
Mumbai - 400 022

Consent order No :- BO/AST/O/EIC NO.PN-19692-14/CC - 1962
Date- 03/03/2014

To,
Intervet India Pvt.Ltd.
Brihnagar off Pune-Nagar Road,
Wagholi,Pune.

Subject: Renewal of Consent to Operate RED category LSI
Ref : Minutes of CC meeting held on 24.02.2014.

Your application :- : CR1311000108
Dated: :16.11.2013

For: Renewal of Consent to Operate with increase in Capital investment 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 : 30.04.2016
2. The capital investment of the industry is Rs. 55.43 Crs. (Previous 45.22 Cr + Increase Rs. 10.21 Cr As per CA certificate submitted by industry)
3. The Consent is valid for the manufacture of -

Sr. No.	Product / By-Product Name	Maximum Quantity	UOM
1.	Vaccines (FMDV and bacterial Vaccines)	150	Million Doses /Y

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	100.00	As per Schedule -I	On land for gardening
2.	Domestic effluent	16.00	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.	Boiler	01	As per Schedule -II
2.	Incinerator	01	As per Schedule -II
3.	DG set (500 KVA,380 KVA ,200 KVA,160 KVA)	04	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	Treatme	Disposal
1	3.3 Sludge and filters contaminated with oil	0.50	MT/Y	---	Disposed to CHWTSDF.
2	5.1 Used /spent oil	2.00	MT/Y	---	Sale to Auth Party
3	5.2 Wastes/residue containing oil	0.50	MT/Y	---	Disposed to CHWTSDF
4	21.1 Wastes and residues	2.00	MT/Y	---	Disposed to CHWTSDF
5	27.1 Silicone-containing residues	0.50	MT/Y	---	Disposed to CHWTSDF
6	28.1 process Residues and wastes*	2.00	MT/Y	---	Disposed to CHWTSDF
7	28.2 Off specification products	5.00	MT/Y	---	Disposed to CHWTSDF
8	28.3 Date expired discarded medicin	5.00	MT/Y	---	Disposed to CHWTSDF
9	33.3 Discarded containers / barrels / liners	10.00	No/Y	---	Sale to Auth Party after disinfection
10	34.3 Chemical sludge from waste water treatment	10.00	MT/Y	---	Disposed to CHWTSDF
11	B-21 (Sch-2) Asbestos	5.0	MT/Y	---	Disposed to CHWTSDF
12	C-1 (Sch-2) Ammonia & Ammonia Compound	0.5	MT/Y	---	Disposed to CHWTSDF
13	Category 2 (BMW) – Animal Waste	60	MT/Y	---	Incinerator
14	Category 3 (BMW) – Microbiology & Bio Technolgy waste	50	MT/Y	---	Incinerator
15	Category 4 (BMW) – Waste Sharp	0.5	MT/Y	---	Autoclave
16	Category 5 (BMW) – Discarded medical Cytotoxic Drug	0.5	MT/Y	---	Incinerator
17	Category 6 (BMW) – Solid waste	5.0	MT/Y	---	Incinerator
18	Category 9 (BMW) – Incineration Ash	5.0	MT/Y	---	CHWTSDF
19	E -wate	10	MT/Y	---	Authorized e-waste disposal facility

7. Conditions under Non - Hazardous Solid Wastes for treatment and disposal of hazardous waste:

Sr. No.	Type of Waste	Quantity	UOM	Treatment	Disposal
1	Corrugated Boxe, Scrap	2500	Kg/M	---	By Sale

8. The applicant shall comply the conditions imposed in Bio- medical Rule 1998 & amendments thereto.

9. This Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.
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

(Rajeev Kumar Mittal, IAS)
Member Secretary

Copy to:

1. Regional Officer MPCB, Pune : He is directed to forfeit existing EC of Rs. 5 lakh for exceeding JVS reports & top up with 10 lakh towards O & M of pollution control system.
2. Sub-Regional Officer - MPCB, Pune-II .They are directed to ensure the compliance of the consent conditions.
3. Chief Accounts Officer, MPCB, Mumbai.
4. CC/CAC desk- for record & website updation purposes

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	5,25,100/-	288706	18/10/2013	Union Bank of India

(Balance Fees Rs. 66,666 /- will be consider during next renewal of consent)

Schedule-I

Terms & conditions for compliance of Water Pollution Control:

- 1) A] As per your application, you have provided combine Effluent Treatment Plant of capacity 120 CMD consisting of primary/secondary and tertiary treatment.
B] The Applicant shall operate the effluent treatment plant (ETP) to treat the trade effluent so as to achieve the following standards/ prescribed under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

Sr.no	Parameter	Standards as per EP Act 1986	Standards prescribed by Board
1	pH	5.5 to 9.0	5.5 to 9.0
2	Oil & Grease	10 mg/l	10 mg/l
3	Suspended Solids	100 mg/l.	100 mg/l.
4	BOD 3 days 27 ° C	100 mg/l.	30 mg/l
5	COD	250 mg/l.	250 mg/l.
6	TDS	2100 mg/l.	2100 mg/l.
7	Sulphate	1000 mg/l	1000 mg/l
8	Chloride	600 mg/l	600 mg/l
9	Phosphate (asP)	5.0 mg/l	50mg/l
10	Murcury	0.01 mg/l	0.01 mg/L
11	Phenolic compound	5 mg/l	5 mg/l
12	TAN	50 mg/l	50 mg/l

- C) The treated effluent shall be disposed
i. The treated effluent shall be recycle/reused to the maximum extend & remaining should be disposed of own land for gardening (25 Acre) ,toilet flushing etc.
2) A] 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.

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 and boiler feed	20.00
2.	Domestic purpose	20.00
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	100.00
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	Nil
5.	Gardening	190.00

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.

Maharashtra Pollution Control Board

Schedule-II

Terms & conditions for compliance of Air Pollution Control:

1. As per your application, you have proposed to erect following stack (s) and to observe the following fuel pattern-

Sr. No.	Stack Attached To	Height in Mtrs.	Type of Fuel	Quantity	UoM	APCS	S %	SO ₂ Kg/Day
1	Boiler -I (3 TPH)	30.00 (Combin e)	Furnac e oil	150	Lit/Hr	Stack	4.5	324
2	Boiler -II (2 TPH)		Furnac e oil	150 (standby)	Lit/Hr	Stack	4.5	
3	Incinerator	30.00	HSD	30	Lit/Hr	Ventury Scrubber	0.1%	14.4
4	D.G. Set (500 KVA)	4.4 (on the roof)	HSD	88	Lit/Hr	Stack	0.1%	44
5	D.G. Set (380 KVA)	3.8 (on the roof)	HSD	67	Lit/Hr	Stack	0.1%	20.48
6	D.G. Set (200 KVA)	2.8 (on the roof)	HSD	35	Lit/Hr	Stack	0.1%	16.8
7	D.G. Set (160 KVA)	2.5 (on the roof)	HSD	30	Lit/Hr	Stack	0.1%	14.4

2. 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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3. Industry shall provide adequate capacity of HCL, Bromine & NH₃ Scrubber.
4. 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. (Concern section shall mention specific control equipments)
5. 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 equipments.
6. 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)
7. 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	150

HCl	50
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 measurement system shall be carried out as given by CEN standards. If 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	Limit
Cd+Th (and its compounds)	0.05 Mg/NM3
Hg (and its compounds)	0.05 Mg/NM3
Sb+As+Pb+Cr+Co+Mn+Ni+V (and their compounds)	0.5 Mg/NM3

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-

$$CE = \frac{100 - \% CO_2 - \% CO}{100} \times 100$$
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%.
5. 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) ⁰¹ [Where Q is emission rate of SO₂ in Kg hr] which ever 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 pretreatment 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 1000°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.

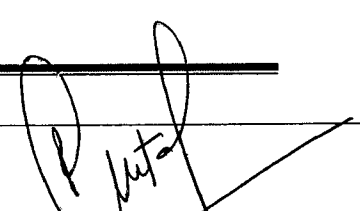
Schedule-III

Details of Bank Guarantees

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. 10 Lakh	15 days From date of consent issued	O & M of pollution control system	30.04.2016	30.08.2016

History of Bank Guarantees

Sr. No	Consent (C to E/O/R)	Amt of BG forfeited	Reason for forfeiture
1	C to R	Rs. 5 lakh	For exceeding JVS results



Schedule-IV

General Conditions:

The following general conditions apply as per type of the industry

- 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) 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.
- 3) Whenever due to any accident or other unforeseen act or event, 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.
- 4) 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.
- 5) 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.
- 6) 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
- 7) /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 obtain Consent to Operate from Maharashtra Pollution Control Board before actual commencement of the Unit/ Activity (in case of Consent to establish).
- 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 (in case of Renewal of 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 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 dtd. 16.11.2009 as amended.

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