

MAHARASHTRA POLLUTION CONTROL BOARD

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Kalpataru Point, 3rd & 4th floor, Sion- Matunga
Scheme Road No. 8, Opp. Cine Planet Cinema, Near
Sion Circle, Sion (E),
Mumbai - 400 022

Red/L.S.I

Consent No: BO/PAMS/O/EIC NO.PN-15545-12/CC-750 Date:23/01/2013

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 / Renewal of Authorization under Rule 5 of the Hazardous Wastes (Management, Handling & Transboundry Movement) Rules 2008

[To be referred as Water Act, Air Act and HW (M&H) Rules respectively].

CONSENT is hereby granted to

M/s. Advinus Therapeutics Ltd.
Plot No9, 4th to 8th floor, Quantum Towers
Rajiv Gandhi infotech Park
Tal- Mulshi , Dist- Pune.

located in the area declared under the provisions of the Water Act, Air act and Authorization under the provisions of HW(M&H) Rules and amendments thereto subject to the provisions of the Act and the Rules and the Orders that may be made further and subject to the following terms and conditions:

1. The Consent to Operate is granted for a period up to: 31/08/2013
2. The Consent is valid for the manufacture of -

a)

Sr. No.	Activity	Maximum Quantity	UOM
01	R & D development in the area of drug discovery (Medicine) including Molecular & Cell Biology, Protein Biology, Medical Chemistry, ADME & Preclinical studies & analytical chemistry	----	MT/M

b) The activity of the industry is restricted for Research work only and no commercial production on the basis of Research and development and Laboratory work is permitted as per letter from MIDC vide ROP/MIDC/9898/07, dt.5th November 2007.

c) The above activity is restricted to be carried out with the chemicals / solvents with the following specified quantities:-

Sr.No.	Name of Chemicals / Solvents	Specified Quantity / Annum
01	Methanol	550 Ltrs
02	Acetone	3000 Ltrs
03	Hexane	4300 Ltrs
04	Ethyl Acetate	1250 Ltrs
05	Sodium Chloride	7.00 kg
06	Silica Gel	160.00 kg

07	Dichloro Methane	1100 Ltrs
08	Sodium Sulphate	100 Ltrs
09	1,2-Dichloro Ethane	10 Ltrs
10	Isopropyl Alcohol	200 Ltrs
11	Carbon Tetra Chloride	25 Ltrs
12	Diethyl Ether	60 Ltrs
13	Tetra Hydrofuran	15 Ltrs
14	Acetone Nitrite	250 Ltrs

3. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of trade effluent from the factory shall not exceed 10.0 M³
(ii) The daily quantity of sewage effluent from the factory shall not exceed 8.0 M³.
(iii) **Trade Effluent :-**

Treatment: The applicant shall provide comprehensive treatment system consisting of primary / secondary and /or tertiary treatment as is warranted with reference to influent quality and operate and maintain the same continuously so as to achieve the quality of the treated effluent to the following standards :-

01	pH	Between	6.0 to 8.5	
02	Suspended Solids	Not to exceed	100	mg/l
03	BOD 3 days 27° C	Not to exceed	100	mg/l
04	COD	Not to exceed	250	mg/l
05	Oil & Grease	Not to exceed	10	mg/l
06	Total Dissolved Solids	Not to exceed	2100	mg/l
07	Chlorides	Not to exceed	600	mg/l
08	Sulphates	Not to exceed	1000	mg/l
09	Dissolved Phosphates	Not to exceed	5	mg/l
10	Sulphide	Not to exceed	2	mg/l
11	Phenolics	Not to exceed	1	mg/l
12	Bioassay test 90% survival of fish after first 96 hours in 100 % effluent			

- (iv) **Trade Effluent Disposal:** 8 CMD of the treated effluent shall be recycled / reused to toilet flushing and remaining 2 CMD shall be used on land for gardening in a own premises.
- (v) **Sewage Effluent Treatment:** The applicant shall provide comprehensive treatment system as is warranted with reference to influent quality and operate and maintain the same continuously so as to achieve the quality of treated effluent to the following standards.
- (1) Suspended Solids Not to exceed 100 mg/l.
(2) BOD 3 days 27o C. Not to exceed 100 mg/l.
- (vi) **Sewage Effluent Disposal:** The treated domestic effluent shall be soaked in a soak pit, which shall be got cleaned periodically. Overflow, if any, shall be used on land for gardening / plantation only.
- (vii) **Non-Hazardous Solid Wastes:**

Sr. No.	Type Of Waste	Quantity	UOM	Disposal
01	Packing Material	0.1	MT/M	Sale to authorized dealer

(viii) **Other Conditions:** Industry should monitor effluent quality regularly from MoEF approved Laboratory.

4. The applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Cess Act, 1977 (to be referred as Cess Act) and amendment Rules, 2003 there under

The daily water consumption for the following categories is as under:

(i) Domestic purpose	...	10.00 CMD
(ii) Water gets Polluted & Pollutants are Biodegradable	...	15.00 CMD
(iii) Water gets Polluted, Pollutants are not Biodegradable & Toxic	...	0.00 CMD
(iv) Industrial Cooling, spraying in mine pits or boiler feed	...	5.00 CMD

The applicant shall regularly submit to the Board the returns of water consumption in the prescribed form and pay the Cess as specified under Section 3 of the said Act.

5. CONDITIONS UNDER AIR ACT :

(i) The applicant shall install a comprehensive control system consisting of control equipments as is warranted with reference to generation of emission and operate and maintain the same continuously so as to achieve the level of pollutants to the following standards:

a. Control Equipment:

- I. Adequate fume extraction system, scrubber of sufficient capacity should be provided to the reaction vessels are operated properly & regularly.
- II. There shall not be any secondary (fugitive) emissions.

b. Standards for Emissions of Air Pollutants:

- (i) SPM/TPM Not to exceed 150.0 mg/Nm³
- (ii) SO₂ Not to exceed 60.0 Kg/day

(i) **The applicant shall observe the following fuel pattern:-**

Sr. No.	Type Of Fuel	Quantity	UOM
01	H.S.D	120	Ltrs /hrs

(ii) **The applicant shall erect the chimney(s) of the following specifications:-**

Sr. No.	Chimney Attached To	Height in Mtrs.
01	Scrubber	5 mtrs
02	DG set (600 KVA-4 Nos)	5.5 mtrs *

* (install at above the roof of the building)

(iii) 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.

- (iv) 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.
- (vi) **Other Conditions:**
- 1) The industry should not cause any nuisance in surrounding area.
 - 2) The industry should monitor stack emissions and ambient air quality Regularly.

C. 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. The industry shall take adequate measures for control of noise levels from its own sources within the premises in respect of noise to less than 75 dB(A) during day time and 70 dB(A) during the night time. Day time is reckoned between 6 a.m. to 10 p.m and night time is reckoned between 10 p.m to 6 a.m.
- d. 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.
- e. Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
- f. 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
- g. D.G. Set shall be operated only in case of power failure
- h. The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.

6. CONDITIONS UNDER HAZARDOUS WASTE (MANAGEMENT, HANDLING & TRANSBOUNDRY MOVEMENT) RULES, 2008:

- (i) The Industry shall handle hazardous wastes as specified below.

Sr. No.	Type Of Waste	Quantity	UOM	Disposal
01	28.5 Spent Organic solvents	2800.00	Ltrs /M	CHWTSDF
02	28.1 Residues and waste	15.0	Kg/M	

03	34.3 Chemical sludge from waste water treatment	20.00	Kg/m	
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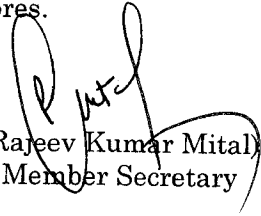
(ii) Treatment: - NIL

7. Whenever due to any accident or gas leakage 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 Collector, Directorate of Industry, Safety and Health, Police Station, Fire Brigade, Directorate of Health Services, Department of Explosives, Board and Local Body and the production process should be stopped by taking all necessary safety measures. The industry shall also monitor the emission and ensure that the emissions do not cause any harm or nuisance in the surrounding. The industry should not restart the process without permission of the Board and other statutory organization as require under the law.

8 Industry shall comply with following additional conditions:

- i. The applicant shall maintain good housekeeping and take adequate measures for control of pollution from all sources so as not to cause nuisance to surrounding area / inhabitants.
- ii. The applicant shall bring minimum 33% of the available open land under green coverage/ tree plantation.
- iii. Solid waste – 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 to dumping ground.
- iv. The applicant shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by he applicant 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 & conditions of this consent regarding pollution levels.
- v. The applicant shall not change or alter 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.
- vi. The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous wastes to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
- vii. The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.
- viii. 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 pre the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
- ix. As inspection book shall be opened and made available to the Board's officers during their visit to the applicant.

- x. The applicant shall install a separate electric 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.
- xi. Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes / sewers down- stream of the terminal manholes. No effluent shall find its way other than in designed and provided collection System.
- xii. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
09. The industry should not involve in any ban chemical by Government of India, in carrying R & D activities
10. The consent is issued with the condition that "all the outcome of R & D activities will be disposed off to the Common Hazardous Waste Treatment, Storage and Disposal Facility (CHWTSDF), and the said products are classified as "Off Specifications".
11. This consent shall not construed as exemption from obtaining necessary NOC from any other Government agencies as may deemed fit necessary.
12. The industry should follow the guidelines specified for the Manufacture, Use, Import, Export and Storage of Hazardous Micro Organisms Genetically Engineered Organisms or Cells as per the Notification of the Ministry of Environment and Forests, Government of India, New Delhi, dated 5th December, 1989.
13. This consent is issued as per the decision taken in the Consent Committee meeting held on 11 /01/2013.
14. The Capital investment of the industry is Rs. 33.90 Crores.
(Existing CI Rs 33.24 Cr + Increased CI Rs 66 lacs)


(Rajeev Kumar Mital)
Member Secretary

To,
M/s. Advinus Therapeutics Ltd.
Plot No9, 4th to 8th floor, Quantum Towers
Rajiv Gandhi infotech Park
Tal- Mulshi , Dist- Pune.

Copy to :

1) RO,Pune /SRO, Pune II.

-- They are directed to ensure the compliance of consent conditions.

2) CAO/Cess Branch/Master file.

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
01	225100/-	003365	23 Aug 2012	YES BANK