

MAHARASHTRA POLLUTION CONTROL BOARD

Phone : 4010437/4020781
/4037124/4035273
Fax : 24044532/4024068 /4023516
Email : enquiry@mpcb.gov.in
Visit At : <http://mpcb.gov.in>



Kalpataru Point, 3rd & 4th floor, 100ft wide
Scheme Road No.18, 100ft wide, 100ft wide
Sion Circle, Sion (E),
Mumbai - 400 022

Red/L.S.I

Consent No: BO/AS(T)/R/EIC NO.PN-16189-12/CAC-3015 Date: 04/04/2013

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 & Transboundary Movement) Rules 2008

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

CONSENT is hereby granted to

**M/s. National Chemical Laboratory
Dr. Homi Bhabha Road, Pashan, Pune-411 008**

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 thereof 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: 31/12/2013**
- 2. The Consent is valid for the Research and Development Lab in the area of Organic, Inorganic, Physical and Polymer Chemistry by using Chemicals and Organic Solvents to the tune of approximately 5000 Liters / Month.**

3. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of trade effluent from the factory shall not exceed 300.0 M³.**
- (ii) The daily quantity of sewage effluent from the factory shall not exceed 300.0 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	5.5 to 9.0	
02	Suspended Solids	Not to exceed	200	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	Sulphates	Not to exceed	1000	mg/l
08	Chlorides	Not to exceed	600	mg/l
09	Bioassay test on fish should show 90% survival in 96 hours			

- (iv) **Trade Effluent Disposal:** The treated effluent should be treated in the Box C Ponds and treated effluent connected to sewer line of Pune Municipal Corporation.
- (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 should be got cleaned periodically. Overflow, if any, should be connected to the Municipal Sewerage system provided by Pune Municipal Corporation.
- (vii) **Non-Hazardous Solid Wastes:**

Sr. No.	Type Of Wast	Quantity	UOM	Disposal
				-----N.A----

(viii) **Other Conditions:** Industry should monitor effluent quality regularly.

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	600.0	CMD
(ii) Industrial Processing	400.0	CMD
(iii) Industrial Cooling	--	CMD
(iv) Agriculture / Gardening	--	CMD

The applicant shall regularly submit to the Board the returns on 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 air pollution control system of sufficient capacity shall be provided at all dust generating locations and operated properly.
- 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/Nm ³
(ii) SO ₂	Not to exceed	65.0 Kg/day

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

Sr. No.	Type Of Fuel	Quantity	UOM
01	HSD	3200.00	Ltr/hr

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

Sr. No.	Chimney Attached To	Height in Mtrs.
1	D.G.set (125 KVA)	3.45*
2	D.G.set (125 KVA)	2.65*
3	D.G.set (125 KVA)	5.00*
4	D.G.set (50 KVA)	2.80*
5	D.G.set (50 KVA)	4.40*
6	D.G.set (50 KVA)	2.50*
7	D.G.set (50 KVA)	2.70*
8	D.G.set (160 KVA)	3.50*
9	D.G.set (250 KVA)	3.10*
10	D.G.set (82.5 KVA)	2.40*

* (above the roof)

- (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.

6. 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 D.G. 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.

7. 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
1	20.2 Wastes / Solvents	50	Kg/Day	Sale to authorized party
2	34.3 ETP sludge	50	Kg/Day	CHWTSDF, Ranjangaon

(ii) Treatment: - NIL

8. Whenever due to any accident or gas leakage or other unforeseen act or event such emissions occur or is apprehended to occur in excess of standards laid down, the 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, taking all necessary safety measures. The industry shall also monitor the emissions, 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.

9 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 of 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, an Environmental Statement Report for the financial year ending 31st March of the prescribed Form-V as per the provisions of rule 14 of the Environment Protection Act, (Second Amendment) Rules, 1992.
- ix. An 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.
10. This consent shall not be construed as exemption from obtaining necessary NOC from any other Government agencies as may demand fit necessary.
11. The industry shall submit the Bank Guarantee of Rs. 1 Lakh towards the provision of ETP & STP of adequate capacity within 15 days from issue of this consent at Regional Office, Pune.
12. This is issued as per the decision taken in the meeting of the Consent Appraisal Committee of the Board held on 19/08/2013.
13. The Capital investment of the industry is Rs. 236.66 Cr.
(Existing C.I. Rs. 224.99 Cr - Increased C.I. Rs. 11.67 Cr)

(Rajeev Kumar Mittal)
Member Secretary

To,
M/s. National Chemical Laboratory.
Dr. Homi Bhabha Road, Pashan, Pune 411 008

Copy to
RO, Pune /SRO, Pune 1.

- They are directed to collect the Bank Guarantee of Rs. 1 Lakh within 15 days from issue of this consent, towards the provision of ETP / STP within six months period & ensure the compliance of consent conditions.

CAO/Cess Branch/Master file.

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
01	4,73,412/-	591456	12 Dec 2012	State Bank of India