

MAHARASHTRA POLLUTION CONTROL BOARD

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Mumbai - 400 022

Red/L.S.I

Date: 29/Jan/2013

Consent No: BO/PAMS/R/EIC NO.RD-2196-11/CC - 882

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 Sadhana Nitro Chem Ltd
Plot No. 47, Roha, Dhatay
Tal: Roha, Raigad, Maharashtra

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: 31/12/2013.
2. The Consent is valid for the manufacture of -

Sr. No.	Product Name	Maximum Quantity	UOM
1	Nitrobenzene	2500.00	MT/M
2	Metanilic Acid	200.00	MT/M
3	Resist Salt	50.00	MT/M
4	3, 3 Dinitrodiphenyl Sulphone	10.00	MT/M
5	Meta Amino Phenol	180.00	MT/M
6	Aniline 2, 5 Disulphonic Acid	75.00	MT/M
7	Aniline 2, 4 Disulphonic Acid	50.00	MT/M
8	P-Acid	20.00	MT/M
9	4 Nitro M-Tolnic Acid	20.00	MT/M
10	SND-45	15.00	MT/M
11	3, 3 Diaminodiphenyl Sulphone	10.00	MT/M
12	Acitamidophenol	25.00	
13	1, 2, 3, 4, Butane Tetra Carboxylic Acid	75.00	MT/M
14	Acitamide Butryl Phenol	15.00	
15	SND-54	15.00	MT/M
16	Diethyl Meta Amino Phenol	75.00	MT/M
17	Diethyl Meta Phenetidine	25.00	MT/M
18	Meta isopropoxy Aniline	30.00	MT/M
19	Dibutyl Keto Acid (SNK-1)	30.00	MT/M

20	Diethyl Keto Acid (SNK-2)	30.00	MT/M
21	Mead Green (SNG-36)	20.00	MT/M
22	SND-9 (OBD-1)	30.00	MT/M
23	SND-27 (OBD-2)	50.00	MT/M
24	SND-18 (Black-15)	20.00	MT/M
25	DBMAP	30.00	MT/M
26	White Sol	10.00	MT/M

3. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of trade effluent from the factory shall not exceed **120.00M³**.
(ii) The daily quantity of sewage effluent from the factory shall not exceed **20.0M³**.

(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	6.5 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	Nitrate as N	Not to exceed	10 mg/l
07	Arsenic	Not to exceed	0.2 mg/l
08	Hexavalent Chromium	Not to exceed	0.1 mg/l
09	Total Chromium	Not to exceed	1.0 mg/l
10	Lead	Not to exceed	0.1 mg/l
11	Cyanide as CN	Not to exceed	0.2 mg/l
12	Zinc	Not to exceed	0.5 mg/l
13	Mercury	Not to exceed	0.01 mg/l
14	Copper	Not to exceed	2.0 mg/l
15	Nickel	Not to exceed	2.0 mg/l
16	Phenolics as C ₆ H ₅ OH	Not to exceed	5.0 mg/l
17	Sulphide	Not to exceed	2.0 mg/l
18	Bioassay test 90 % survival of fish after first 96 hours in 100 % effluent		

(iv) **Trade Effluent Disposal:** The treated effluent should be recycled / reused to the maximum extent and remaining should be disposed into CETP..

(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 Waste	Quantity	UOM	Disposal
NIL				

(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 purpose	...	30.00 CMD
(ii) Water gets Polluted & Pollutants are Biodegradable	...	261.00 CMD
(iii) Water gets Polluted, Pollutants are not Biodegradable & Toxic	...	0.00 CMD
(iv) Industrial Cooling, spraying in mine pits or boiler feed	...	100.00CMD

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. The Sulphonation, Nitration reactor and Oleum, Nitric Acid storage tanks should be operated with scrubber of sufficient capacity to limit emission to following standards.
- II. Dust collector of sufficient capacity should be provided to Pulverisor section be operated and maintain properly.
- III. 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 (Boiler)	Not to exceed	990.0	Kg/day
(iii) SO ₂ (Process)	Not to exceed	50.0	ppm
(iv) NO _x	Not to exceed	50.0	ppm
(v) NH ₃	Not to exceed	50.0	ppm

6. Standards for Stack Emissions:

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

Sr. No.	Type Of Fuel	Quantity	UOM
1	Furnace Oil OR	10.00 OR	KL/Day OR

	Briguettes	12.00	MT/Day
2	LDO	2.50	MT /Day

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

Sr. No.	Chimney Attached To	Height in Mtrs.
1	IAEC & JNM Boiler Thermax	30.00
2	Thermic Fluid heater (2 Nos.)	30.00 Each
3	Incinerator (2 nos.) (One Standby)	30.00 (Common Chimney)
4	ANDS Plant Scrubber	20.00
5	MAP Plant Scrubber	15.00
6	BTCA Plant Scrubber	20.00

Standards for emission of VOC Pollutants

Sr. No.	Petrochemical Process / Compounds	Maximum emission limit (mg/Nm ³), dry basis
01	MA, PA, Phenol	20
02	Ethyl benzene (EB), Styrene, Toluene, Xylene, Aromatics, EG, PG	100
03	Non-methane HC (Paraffin), Acetone, olefins	150

The industry shall phase out the Ozone Depleting Substances (ODS) as per ODS Rules 2000 and shall be informed to MPCB within a period of 3 months.

GUIDELINES FOR FUGITIVE EMISSION CONTROL

1. Fugitive emissions over reactors, formulation areas, centrifuges, chemicals loading, transfer areas etc. are yet to be collected through hoods and ducts by induced drafts and controlled by scrubber / dust collector.
2. Usually scrubbers installed for channelized emissions are used for fugitive emissions to control also & sometimes dedicated scrubbers are provided. This practice may be permitted as long as tail gas concentrations are within the prescribed limits.
3. In addition, organic gaseous emissions (odour & toxic) be routed to activated carbon beds (absorption) or to thermal oxidizer and for dust emissions cyclones / bag filters are to be provided.
4. Emphasis be given to solvent management / solvent loss prevention.
5. Enclosures to chemical storage area, collection of emissions from loading of raw materials. In particulars, solvents through hoods and ducts by induced draft , and control by scrubber / dust collector or to be ensured.
6. Vapour balancing, nitrogen blanketing ISO tanks etc. to be provided, besides special care needs to be taken for control in respect of odorous chemicals.

- (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.

7. 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 55 dB(A) during day time and 45 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.

8. 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	26.1 Process waste sludge/residues	6.00	MT/M	CHWTSDf
2	26.1 Process waste sludge/residues	1500.00	MT /M	CHTSDf/ Sale to cement industry authorized MPCB/CPCB
3	25.2 Chemical sludge from waste water treatment	10.00	MT	CHWTSDf
4	20.3 Distillation residues	0.00	MT	CHWTSDf

(ii) Treatment: - NIL

a. The unit has to display and maintain the data online outside the factory main gate in Marathi & English both on a 6'x4' display board in the manner and the report of the compliance along with photograph shall be submitted to this office & concerned Regional Office/ Sub Regional Office.

9. 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.

10. 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.
11. This consent shall not be construed as any exemption from obtaining necessary No Objection Certificate from other Government agencies as may deemed fit necessary.
12. If CETP does not operate efficiently and problem of pollution occurs, industry should voluntarily stop the production or total effluent should be reused.
13. Industry shall submit Bank Guarantee of Rs 5.0 Lakhs within 15 days, for a period of one year in favour of "Regional Officer, MPCB, Raigad", towards not to take effective steps for change in product mix / increase in production.
14. This consent is issued as per the decision taken in the meeting of the Consent Committee of the Board held on 11-01-2013 and with the approval of Hon'ble Chairman of the Board.
15. The Capital investment of the industry is Rs. 84.48 Cr.
(Existing C.I. Rs 57.67 Cr + Increased C.I. Rs. 26.81 Cr)

(Rajeev Kumar Mital)
Member Secretary

To,
M/s Sadhana Nitro Chem Ltd
Plot No. 47, Roha Dhatav
Tal: Roha, Raigad, Maharashtra

Copy to :
RO, Raigad /SRO Raigad II

They are directed to obtain BG of Rs 5.00 lakhs valid for a period of one year within 15 days towards not to take effective steps for change in product mix / increase in production and ensure the compliance of consent conditions.

CAO/Cess Branch/Master file.

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	375000/-	584852	28 Sep 2011	Indian Overseas Bank