

MAHARASHTRA POLLUTION CONTROL BOARD

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Sion Circle, Sion (E),

Mumbai - 400 022

Red/L.S.I

Date: 10/06/2013

Consent No: BO/AS(T)/EIC No-AD-12628-13/R/CC-CAE-5032

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

Balaji Amines Ltd
Gut No, 197, Tamalwadi
Tal- Tuljapur, Dist:-Osmanabad,
Maharashtra, India

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: 28/02/2016
2. The Consent is valid for the manufacture of -

Sr. No.	Product Name	Maximum Quantity	UOM
1	Mono Methyl Amine(MMA)	240	MT/M
2	Di Methyl Amine HCL(DMAHCL)	600	MT/M
3	Di Methyl Acetamide(DMAC)	125	MT/M
4	Di Methyl Urea(DMU)	300	MT/M
5	Mono Methyl Urea(MMU)	150	MT/M
6	Di Methyl Amino Ethanol(DMAE)	125	MT/M
7	Di Ethyl Amino Ethanol(DEAE)	100	MT/M
8	Methyl Di Ethanol Amine (MDEA)	125	MT/M
9	Choline Chloride (CC)	150	MT/M
10	Tri Ethyl Benzyl Ammonium Chloride (TEBAC)	100	MT/M
11	Morpholine	150	MT/M
12	Choline Chloride 50% on corn cobs (C.C.50%)	500	MT/M
13	Absolute Alcohol(AA)	3000	KL/M
14	Choline Chloride 60% on corn cobs (C.C.60%)	500	MT/M
15	Di Methyl Amine(DMA)	800	MT/M
16	N-Methyl-2-Pyrrolidone (NMP)	300	MT/M
17	Tri Methyl Amine(TMA)	160	MT/M
18	Mono Ethyl Amine(MEA)	40	MT/M
19	Di Ethyl Amine(DEA)	80	MT/M
20	Tri Ethyl Amine(TEA)	180	MT/M
21.	Electricity Generation(Captive Power Plant)	1 x 2.5	MW

3. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of trade effluent from the factory shall not exceed 182.43M³. (from stream -I-112.7 M³ & stream -II-69.73M³)
- (ii) The daily quantity of sewage effluent from the factory shall not exceed 16.4M³.
- (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

S.No	Parameters		Limits
1	pH	Between	5.5 to 9.0
2	Suspended Solids	Not to exceed	100 mg/l
3	BOD 3 days 27 Deg. C	Not to exceed	30 mg/l
4	COD	Not to exceed	250 mg/l
5	Oil & Grease	Not to exceed	40 mg/l
6	T.D.S.	Not to exceed	2100 mg/l
7	Chlorides	Not to exceed	600 mg/l
8	Sulphates	Not to exceed	1000 mg/l
9	TAN	Not to exceed	50 mg/l

The industrial effluent arising from various section of power plant shall be given such treatment either collectively or individually as the site condition permits that the final quality of effluent shall have following character standards:-

a	Condenser cooling Water		
1	pH	Between	5.5 to 8.5
2	Temperature	Not to exceed	5 degree C higher than the intake Temperature
3	Free available chlorine	Not to exceed	0.5 mg/l.

b	Boiler Blow down		
1	Suspended Solids	Not to exceed	100 mg/l
2	Oil & Grease	Not to exceed	10 mg/l
3	Copper (Total)	Not to exceed	1 mg/l
4	Iron (Total)	Not to exceed	1 mg/l

c	Cooling Tower Blow down		
1	Free available Chlorine	Not to exceed	0.5 mg/l
2	Zinc	Not to exceed	1 mg/l
3	Chromium (Total)	Not to exceed	0.2 mg/l
4	Phosphate	Not to exceed	5 mg/l

d	D.M.Plant effluent		
1	pH	Between	5.5 to 9
2	BOD 3 days 27 ° C	Not to exceed	30 mg/l
3	COD	Not to exceed	250 mg/l
4	Suspended solids	Not to exceed	100 mg/l
5	Oil & Grease	Not to exceed	10 mg/l
6	TDS	Not to exceed	2100 mg/l

(iv) **Trade Effluent Disposal:** The total treated trade effluent shall be recycled /reused to maximum extent and remaining shall be used for ash handling, coal handling, dust suppression etc and on land for gardening /plantation within 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 27° 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
1	Fly Ash (80 %)	20	MT/Day	Shall be send to cement manufactures, disposed as per Govt of India guidelines notification vide no-SO 763 (E) dtd-14-09-1999.
2	Bottom Ash (20 %)	4.00	MT/Day	Leveling & backfilling of Low lying areas within the premises.
3	Boiler Ash (chemical plant)	17.4	MT/Day	Shall be send to cement & brick manufactures, disposed as per Govt of India guidelines notification vide no-SO 763 (E) dtd-14-09-1999.
4	Corn cob Waste (chemical plant)	16.0	MT/Day	By sale or shall be used as a fuel

(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 | ... | 22.00 | CMD |
| (ii) Water gets Polluted & Pollutants are Biodegradable | ... | 418.40 | CMD |
| (iii) Water gets Polluted, Pollutants are not Biodegradable & Toxic | ... | 0.00 | CMD |
| (iv) Industrial Cooling, spraying in mine pits or boiler feed | ... | 460.0 | CMD |
| (v) Gardening/Agriculture | ... | 20.0 | 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:** Industry shall provide dust collector/scrubber of sufficient capacity to control the emissions.

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.

b. Standards for Emission of AIR Pollutants:-

1) SPM/TPM	Not to exceed	100 mg /Nm ³ . (for Captive Plant)
2) SPM/TPM	Not to exceed	150 mg/ Nm ³ (for chemical plant).
3) SO ₂	Not to exceed	1850 kg/day. (for Captive Plant)
4) SO ₂	Not to exceed	1490 kg/day.(for Chemical Plant).
5) HCL	Not to exceed	35 mg/ Nm ³ .
6) Chlorine	Not to exceed	3 ppm.
7) NO _x	Not to exceed	150 ppm.
8) Ammonia	Not to exceed	50 ppm

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

Sr. No.	Type Of Fuel	Quantity	UOM
1	Coal (chemical plant)	146.60	MT/day
2	HSD (chemical plant)	578.00	Ltrs/hr
3	Coal (captive plant)	184.8	MT/day

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

Sr. No.	Chimney Attached To	Height in Mtrs.
1	Boiler-I	38.00
2	DG Set-I 300 KVA	3.50
3	DG Set-II 600 KVA	5.00
4	DG Set-III 750 KVA	5.50
5	Boiler-II	38.00
6	Thermic Fluid Heater-1	31.00
7	Thermic Fluid Heater-2	30.00
8	Thermic Fluid Heater-3	12.00
9	Thermic Fluid Heater-4	30.00
10	Thermic Fluid Heater-5	12.00
11	Boiler (power plant)	49.00

- (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.
- (v) **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 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	34.3 Chemical sludge from waste water treatment	200	MT/A	CHWTSDF
2	33.1 Chemical-containing residue			
3	33.2 Sludge from treatment of waste water			
4	20.3 Distillation residues			
5	35.1 Filters and filter material which have organic liquid	0.50	MT /A	Sale to authorized reprocessor/ CHWTSDF
6	35.2 Spent catalyst	2.80	MT /A	
7	5.1 used /spent oil	200	Ltrs /Year	

- (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.

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 the 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. 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.
9. This consent shall not be construed as any exemption from obtaining necessary No Objection Certificate from other Government agencies as may deemed fit necessary.
10. If CETP does not operate efficiently and problem of pollution occurs, industry should voluntarily stop the production or total effluent should reuse.
11. **This is issued as per the decision taken in the meeting of the Consent Appraisal Committee held on 24/05/2013.**
12. Industry shall submit BG of Rs. 2 lakhs valid for one year towards submission of all returns such as Water Cess, Hazardous Waste, Env. Statement in one month from the date of issue of the consent within 15 days & extending existing BG of Rs 5 lakh towards O &M of pollution control system so as to achieve the consented standards
13. The Total Capital investment of the industry is Rs. 119.47 Cr
(Existing CI Rs 118.11 Cr + Increased CI Rs 1.36 cr)

(Rajeev Kumar Mital IAS)
Member Secretary

To,
Balaji Amines Ltd
Gut No, 197, Tamalwadi
Tal, Tuljapur, Dist:-Osmanabad,
Maharashtra, India.

Copy for information to:-
Regional Officer MPCB Aurangabad-
Sub-Regional Officer MPCB Latur

They shall ensure the compliance of above consent condition No. 12 and submit the compliance.

Chief Account Officer MPCB Mumbai
Received Consent fee of -

Sr. No.	Amount (Rs.)	DD. No.	Date	Drawn On
1	716475/-	998432	01 Jan 2013	State Bank of Hyderabad