

MAHARASHTRA POLLUTION CONTROL BOARD

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Mumbai - 400 022

Red/L.S.I

Date: 13/02/2013

Consent No: BO/JD-PAMS/EIC.No-RD-2492-12/R/CAC-1312

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

Rashtriya Chemicals and Fertilisers Ltd
Thal Unit, Vill: Thal-Vaishet, Tal: Alibag
Raigad, Maharashtra
Alibag-402208
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: 31/12/2017.
2. The Consent is valid for the manufacture of -

Sr. No.	Product Name	Maximum Quantity	UOM
1	Urea	6120	MT/Day
2	Di Methyl Acetamide	5000	MT/A
3	Carbon Monoxide	1200	Nm ³ /Hr
4	Chikton	1	MT/Day
5	Argon	52	MT/Day
6	Ammonia	3600	MT/Day
7	Steam Generation	(2+1)x275	MT/Hr
	Power (TG)	2x15	MW
8	Auxiliary Boilers	2x80	MT/Hr
9	Heavy Water Plant	110	MT/A
10	Di Methyl Formamide & Formic Acid	12500	MT/A
11	Methyl Amine	11400	MT/A

- | | | |
|--|---------------|---|
| 3) Colour & odour | Not to exceed | No noticeable colour or offensive odour . |
| 4) Floating Matters | Not to exceed | Nothing obnoxious or detrimental for use purpose. |
| 5) Turbidity | Not to exceed | 30 NTU (Nephelo Turbidity unit) |
| 6) Fecal Coliform | Not to exceed | 100/100 ml (MPN) |
| 7) BOD 3 days 27 Deg. C | Not to exceed | 3 mg/l |
| 8) Mercury | Not to exceed | 0.01 mg/l |
| 9) Lead | Not to exceed | 2 mg/l |
| 10) Copper | Not to exceed | 3 mg/l |
| 11) Nickel | Not to exceed | 5 mg/l |
| 12) Total Chromium as Cr | Not to exceed | 2 mg/l |
| 13) Bio assay test on fish shall show 90% survival in 96 hours in 100 %effluent. | | |

***Industry should monitor the water quality of the receiving body at the at the dispersal point of the outfall in the sea once in a month.**

- (iv) **Trade Effluent Disposal:** Treated effluent shall be reused /recirculated to the maximum extent. Excess if any, shall be discharged in to the deep sea through Marine Outfall line at a disposal point suggested by NIO.
- (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	Waste Bags	200.00	No/D	By sale
2	Civil/Misc. Waste	12.00	MT/A	Landfilling
3	Metal Scrap	15.00	MT/A	By sale
4	HDPE Containers/Drums	1750.00	Nos./Y	By sale
5	Metal drums	1000	Nos./Y	By sale

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

3. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of trade effluent from the factory shall not exceed **12000.00M³**.
(ii) The daily quantity of sewage effluent from the factory shall not exceed **480.00M³**.

(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:

1)	pH	Between	6.5 to 9.0
2)	Suspended Solids	Not to exceed	100 mg/l
3)	BOD 3 days 27 Deg. C	Not to exceed	100 mg/l
4)	COD	Not to exceed	250 mg/l
5)	Oil & Grease	Not to exceed	10 mg/l
6)	Ammonical Nitrogen	Not to exceed	50 mg/l
7)	Free Ammonical Nitrogen	Not to exceed	100 mg/l
8)	Total Kjeldhal Nitrogen	Not to exceed	150 mg/l
9)	Nitrate Nitrogen	Not to exceed	20 mg/l
10)	Cyanide	Not to exceed	0.2 mg/l
11)	Vanadium (as V)	Not to exceed	0.2 mg/l
12)	Phosphates (as P)	Not to exceed	5 mg/l
13)	Arsenic (as AS)	Not to exceed	0.2 mg/l
14)	Fluoride	Not to exceed	10 mg/l
15)	Hexavalent Chromium as Cr	Not to exceed	0.1 mg/l
16)	Total Chromium as Cr	Not to exceed	2 mg/l
17)	Mercury	Not to exceed	0.01 mg/l
18)	Lead	Not to exceed	2 mg/l
19)	Copper	Not to exceed	3 mg/l
20)	Nickel	Not to exceed	5 mg/l
21)	% Sodium	Not to exceed	60% mg/l

22) Bio assay test on fish shall show 90% survival in 96 hours in 100 % effluent.

The primary water quality criteria for class SW- II waters shall meet following standards at the dispersal point of outfall in the sea.

1)	pH	Between	6.5 to 9.0
2)	Dissolved Oxygen	Not to exceed	4 mg/l or 50% saturation whichever is higher

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	...	10000.00	CMD
(ii) Water gets Polluted & Pollutants are Biodegradable	...	0.00	CMD
(iii) Water gets Polluted, Pollutants are not Biodegradable & Toxic	...	0.00	CMD
(iv) Industrial Cooling, spraying in mine pits or boiler feed	...	55000.0	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:

- (1) Inbuilt Purge Gas recovery unit to Ammonia Synthesis section.
- (2) Inbuilt Hydrogen Gas recovery unit to Ammonia Synthesis Section.
- (3) Inbuilt Dust collection system to Prilling Towers (3Nos)
- (4) Inbuilt Gas absorption system to Methylamines plants.

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.

b. Standards for Emissions of Air Pollutants.

i) SPM/TPM	Not to exceed	150 mg/Nm ³
ii) SO ₂	Not to exceed	2.4 T/day
iii) SO ₂ Boiler (operating on gas)	Not to exceed	5 ppm
iv) NO _x (from process)	Not to exceed	50 ppm
v) NH ₃ (from process)	Not to exceed	50 ppm
vi) TPM from prilling tower	Not to exceed	50 ppm

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

Sr. No.	Type Of Fuel	Quantity	UOM
i)	Natural Gas	4.9	MMSCMD
ii)	Naphtha	2200	MTPD

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

Sr. No.	Chimney Attached To	Height in Mtrs.
1	Urea Plant- Prilling tower (3 nos)	87.00
2	Heavy water plant- Mini Cracker	30.00
3	Urea plant blow down stack (3 nos)	94.00
4	Ammonia Plant- Flare stack	98.00
5	Ammonia Plant- storage	67.00
6	Ammonia Plant- pre desulphurization	30.00
7	Ammonia Plant- final desulphurization	52.60
8	Dimethyl Formamide Plant Flare stack	35.00
9	Argon Plant Vent Stack	45.00
10	Steam generation Plant boiler	150.00
11	Urea Plant- Vent (3 nos)	93.40
12	Ammonia Plant- Auxiliary Boiler line I & II	35.00
13	Ammonia Plant- Reformer line I & II	30.00
14	CO Plant- Auxiliary Boiler	30.00
15	CO Plant- Reformer	40.00
16	Heavy water plant- Process stack	65.00
17	Heavy water plant- Main Cracker	30.00
18	D.G Sets (6 Nos)	10.0 above the roof in which it is installed.

- (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 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	18.1 Spent catalyst	1000.00	MT/A	Sale to Authorised party
2	5.1 Used /spent oil	75.00	MT/A	Sale to Authorised party
3	Scrap Batteries	7.5	MT/A	Sale to Authorised party

(ii) **Treatment: - NIL**

1. The authorization is hereby granted to operate a facility for collection, storage, transport & disposal of hazardous waste.
2. The industry should comply with the Hazardous Waste (M&H) Rules, 2003.
 - a. Whenever due to any accident 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 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.
 - b. 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.
 - c. It shall be ensured that the Hazardous waste is handled, managed & disposed of strictly in accordance with the Hazardous Waste (Management & Handling) Rules, 1989 as amended on 2003 and shown & submitted to the Board as & when asked for.

7. 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 per 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.

8. This Consent is issued pursuant to the decision of Consent Committee meeting of the Board held on 31/01/2013. *Appraisal*

9. Industry shall not undertake operation of neem coated urea till amendment in EC is obtained & submit BG of Rs. 5 lakh towards the compliance of the same.

10. The B.G shall be submitted at Regional Office Raigad, within 15 days period.

11. The Capital investment of the industry is Rs. 177338.68 Lacs

(Signature)
(Rajeev Kumar Mital IAS)
Member Secretary

To,
Rashtriya Chemicals and Fertilisers Ltd
Thal Unit, Vill: Thal-Vaishet, Tal: Alibag
Raigad, Maharashtra
Alibag-402208
India

Copy for information to:-
Regional Officer MPCB Raigad.
Sub-Regional Officer MPCB Raigad-II
Chief Account Officer MPCB Mumbai
Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	100	469728	03 Aug 2012	SBI Bank
2	17733868	469688	29 Aug 2012	SBI Bank