

MAHARASHTRA POLLUTION CONTROL BOARD

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Mumbai - 400 022

Red/L.S.I

Date: 22/06/2012

Consent No: BO/PAMS/E/EIC NO-RD-2367-12/CAC- 472

Consent to Establish under Section 25 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 Rashtriya Chemicals & Fertilizers Limited.
Thal Unit, Village-Thal vaisher, Tal- Alibaug
Dist- Raigad

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 Establish for expansion is granted for a period up to: Commissioning of the unit or 5 years whichever is earlier
2. The Consent is valid for the manufacture of -

Sr. No.	Product Name	Existing Quantity	After Expansion Quantity	UOM
1	Ammonia	2 x 1800	2 x 1750	MT/D
2	Urea	3 x 2000	3 x 2040	MT/D

3. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of trade effluent from the factory shall not exceed 200.0 M³.
- (ii) The daily quantity of sewage effluent from the factory shall not exceed NIL 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:

1	pH	Between	5.5 to 9.0
2	BOD 3 days 27 deg C	Not to exceed	100 mg/l
3	Oil & Grease	Not to exceed	10 mg/l
4	Suspended Solids	Not to exceed	100 mg/l.
5	COD	Not to exceed	250 mg/l.
6	Total Dissolved Solids	Not to exceed	2100 mg/l.
7	Chlorides	Not to exceed	600 mg/l.
8	Sulphates	Not to exceed	1000 mg/l.
9	% Sodium	Not to exceed	60 % mg/l.

10	Bio Assay test on fish shall show 90 % survival in 96 hours in 100 % effluent.
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The Primary water quality criteria for class SW-II wants shall meet following standards at the dispersal point of outfall in the sea.

1	pH	Between	5.5 to 8.5
2	Dissolved Oxygen	Not to exceed	4 mg/l or 50 % saturation value whichever is higher
3	Colour & Odour	Not to exceed	No noticeable colour or offensive colour
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 mg/l. (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(Cr)	Not to exceed	2 mg/l.
13	Bio Assay test on fish shall show 90 % survival in 96 hours in 100 % effluent.		

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

- (iv) **Trade Effluent Disposal:** The treated effluent shall be reused / re-circulated to the maximum extent. Excess if any, shall be discharged into the deep sea through closed pipelines at a 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 27o C. | Not to exceed | 100 | mg/l. |
- (vi) **Sewage Effluent Disposal:** The treated domestic effluent shall be discharged into the deep sea through closed pipelines or on land for gardening / irrigation purpose only.
- (vii) **Non-Hazardous Solid Wastes:**

Sr. No.	Type Of Waste	Quantity	UOM	Disposal
	----NA----			

- (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	...	----	CMD
(ii) Water gets Polluted & Pollutants are Biodegradable	...	----	CMD
(iii) Water gets Polluted, Pollutants are not Biodegradable & Toxic	...	00.00	CMD
(iv) Industrial Cooling, spraying in mine pits or boiler feed / DM Plant	...	1200.00	CMD
(v) Plantation / Gardening	...	----	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. Inbuilt Purge Gas recovery unit to Ammonia Synthesis section.
- II. Inbuilt Hydrogen Gas recovery unit to Ammonia Synthesis section.
- III. Inbuilt Dust collection system to prilling towers (3Nos).
- IV. Inbuilt gases absorption system to Methyl Amine Plant.
- V. There shall not be any secondary (fugitive) emissions.

b. Standards for Emissions of Air Pollutants:

(i) SPM/TPM	Not to exceed	150 mg/Nm ³
(ii) SO ₂ Boiler (Operating on gas)	Not to exceed	5.0 ppm
(iii) SO ₂	Not to exceed	2.4 MT/Day
(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

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

Sr. No.	Type Of Fuel	Quantity	UOM
1	Natural Gas (If operated on Gas)	4.90	MMSCMD
2	Naptha	2200.00	MT/Day
3	Natural Gas	3.2	MMSCMD
4	Naptha		

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

Sr. No.	Chimney Attached To	Height in Mtrs.
1	Urea Plant Prilling tower (3 Nos)	87.0
2	Urea Plant Vent Stack (3 Nos) (for process safety)	93.4
3	Urea Plant blow down stack (3 Nos) (for process safety)	94.0
4	Ammonia Plant Reformer Line I & II	30.0

5	Ammonia Plant Auxiliary Boiler line I &II	35.0
6	Ammonia Plant Flare stack (for process safety)	98.0
7	Ammonia Plant Storage (for process safety)	67.0
8	Ammonia Plant Pre Desulphurization Section	30.0
9	Ammonia Plant final Desulphurization Section	52.6
10	Heavy water plant process vent stack	65.0
11	Heavy water plant main cracker stack	30.0
12	Heavy water plant Mini Cracker stack	30.0
13	CO Plant Reformer Stack	40.0
14	Co Plant Auxiliary Boiler Stack	30.0
15	MAP & DMF Plant Flare Stack(for process safety)	35.0
16	Steam Generation Plant Chimney	150.0
17	Argon Plant vent Stack	45.0
18	D G set (6 Nos) (Standby arrangement)	10.0

- (iv) 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.
- (v) 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 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.

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
01	18.1 Spent Catalyst	900.0	T/A	Sale to authorized party
02	5.1 Used Oil	75.0	T/A	Sale to authorized party
03	-- Scrap batteries	7.5	T/A	Sale to authorized party buyback

- (ii) Treatment: - NIL

- 8. 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.

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, 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

- 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. 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.
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. The applicant shall obtain consent to operate before starting actual commercial Production.
14. This consent is issued as per Environmental Clearance granted by MoEF vide their letter No. F.NO. J-II011/862/2008-IA-II(I), dated 10.06.2009.
15. Industry shall comply the conditions mentioned in Environmental Clearance of MoEF, GoI, dated 10.06.2009.
16. This consent is issued as per the decision taken in the meeting of the Consent Appraisal Committee of the Board held on 29/05/2012.
17. The Capital investment of the industry is 1914.37 Cr.
(Existing C I Rs 1439.37 Cr + Increased CI Rs 475.00 Cr)


(Milind Mhaskar)
Member Secretary

To,
M/s Rashtriya Chemicals & Fertilizers Limited.
Thal Unit, Village-Thal vaishet, Tal- Alibag
Dist- Raigad

Copy to :

RO, Raigad /SRO, Raigad II

-- They are directed to 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	950000/-	468089	11/11/2011	State Bank of India
2	100/-	468542	19/01/2012	State Bank of India