

MAHARASHTRA POLLUTION CONTROL BOARD

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Mumbai - 400 022

Consent order No: - format 1.0/B.O/AS (T)/EIC.RD-2564-13/CAC-144 Date- 06/01/2014

To,
M/s. Rashtriya Chemicals and Fertilizers Ltd,
Thal unit, Vill-Thal-Vaishet,
Tq-Alibag, Dist-Raigad

Subject: Consent to Operate RED category.

- Ref : 1. Earlier Consent granted vide No: - BO/JD-PAMS/EIC.No.RD-2492-12/R/CAC-1312 Dated: 13/02/2013.**
2. Minutes of CAC meeting held on 04/12/2013.
3. Your application Dated: 27/05/2013.

For: 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 under Rule 5 of the Hazardous Wastes (M, H & T M) Rules 2008 is considered and the consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I, II, III & IV annexed to this order:

1. The consent is granted for a period up to 31/12/2017.
2. The capital investment of the industry is Rs.1773.3868 Crores (As per C.A certificate submitted by industry)
3. The Consent is valid for the manufacture of -

Sr. No.	Product Name	Maximum Quantity
1.	Ammonia	3600 MT/day
2.	Urea	3060 MT/day
3.	Neem Coated Urea	3060 MT/day
	Total Urea	6120 MT/Day
4.	Steam Generation Power (T.G.)	(2 + 1) x 275 MT/Hr. 2 x 15 MW
5.	Auxiliary Boiler	2 x 80 MT/Hr
6.	Heavy Water Plant	110 MT/Y
7.	Di-methyl Fomamide & Formic Acid Plants	12500 MT/Y
8.	Methyl Amines Plants	11400 MT/Y
9.	Di-methyl Acetamide Plants	5000 MT/Y
10.	Carbon Monoxide Plant	1200 Nm ³ /Hr.
11.	Chickton	1 MT/day
12.	Argon	52 MT/day

4. Conditions under Water (P&CP), 1974 Act for discharge of effluent:

Sr. no.	Description	Permitted quantity of discharge (CMD)	Standards to be achieved	Disposal
1.	Trade effluent	12000	As per Schedule -I	Discharge into deep sea through

				marine outfall at disposal point suggested by NIO.
2.	Domestic effluent	480.00	As per Schedule -I	

5. Conditions under Air (P& CP) Act, 1981 for air emissions:

Sr. no.	Description of stack / source	Number of Stack	Standards to be achieved
1	Boiler (operating on gas)	1	SO ₂ NO _x
2	TPM from Prilling Tower	3 Nos.	NH ₃ & SPM
3	NO _x from Process	4 Nos.	NO _x
4	NH ₃ from Process	3 NOs.	NH ₃

6. Conditions about Non Hazardous Wastes:

Sr. no.	Type Of Waste	Quantity in MT/Year	Disposal
1.	Waste Bags	200.00 No/Day	By Sale
2.	Civil / Misc. Waste	12.00 MT/A	Land filling
3.	Metal Scrap	15.00 MT/A	By sale
4.	HDPE Container/Drums	1750.0 Nos /Year	By sale
5.	Metal Drums	1000 Nos. / Year	By sale

7. Conditions under Hazardous Waste (MH & TM) Rules, 2008 for treatment and disposal of hazardous waste:

Sr. No.	Type Of Waste	Categor.	Quantit.	UCM	Disposal
1	Spend catalyst	18.1	1000	MT/A	Send to registered Recycler / Reprocess.
2	Used /spend oil	5.1	75.0	MT/A	Send to registered Recycler / Reprocess.
3	Scrap Batteries		7.5	MT/A	Send to registered Recycler / Reprocess.

8. The Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.
9. This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government authorities.

For and on behalf of the
Maharashtra Pollution Control Board

(Rajeev Kumar Mital IAS)
Member Secretary

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	100	469728	03 August 2012	SBI Bank
2	17733368	469688	29 August 2013	SBI Bank

Copy to:

1. Regional Officer -Raigad and Sub-Regional Officer-Raigad-II MPCB, They are directed to ensure the compliance of the consent conditions.
2. Chief Accounts Officer, MPCB, Mumbai.
3. CC/CAC desk- for record & website updation purposes.

Maharashtra Pollution Control Board

Schedule-I

Terms & conditions for compliance of Water Pollution Control:

- 1) A] As per your application, you have provided the Effluent Treatment Plant (ETP) with the design capacity of 36000 CMD. (1500 M³/Hr.)
- B] The Applicant shall operate the effluent treatment plant (ETP) to treat the trade effluent so as to achieve the following standards prescribed by the Board or under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

Sr No.	Parameters	Standards prescribed by Board (If any)
	I. Compulsory Parameters	Limiting Concentration in mg/l, except for pH
01	pH	6.5 to 9.0
02	Suspended Solids	100 mg/l
03	BOD 3 days 27 Deg. C	100 mg/l
04	COD	250 mg/l
05	Oil & Grease	10 mg/l
06	Ammonical Nitrogen	50 mg/l
07	Free Ammonical Nitrogen	100 mg/l
08	Total Kjeldhal Nitrogen	150 mg/l
09	Nitrate Nitrogen	20 mg/l
10	Cyanide	0.2 mg/l
11	Vanadium (as V)	0.2 mg/l
12	Phosphates (as P)	5 mg/l
13	Arsenic (as AS)	0.2 mg/l
14	Fluoride	10 mg/l
15	Hexavalent Chromium as Cr	0.1 mg/l
16	Total Chromium as Cr	2 mg/l
17	Mercury	0.01 mg/l
18	Lead	2 mg/l
19	Copper	3 mg/l
20	Nickel	5 mg/l
21	% Sodium	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.

01	pH	6.5 to 9.0
02	Dissolved Oxygen	4 mg/l or 50% saturation whichever is higher
03	Colour & odour	No noticeable colour or offensive odour
04	Floating Matters	Nothing obnoxious or detrimental for use purpose
05	Turbidity	30 NTU (Nephelo Turbidity unit)
06	Fecal Coliform	100/100 ml (MPN)
07	BOD 3 days 27 Deg. C	3 mg/l
08	Mercury	0.01 mg/l

09	Lead	2	mg/l
10	Copper	3	mg/l
11	Nickel	5	mg/l
12	Total Chromium as Cr	2	mg/l
13	Bio assay test on fish shall show 90% survival in 96 hours in 100 %effluent		

C) 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.

*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.

D) In case the treatment system is combined for trade effluent and sewage then the standards and disposal path prescribed at sr. no.1 B & C of schedule I shall be applicable.

- 2) The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or and extension or addition thereto.
- 3) The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.
- 4) The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Cess Act, 1977 and as amended, by installing water meters, filing water cess returns in Form-I and other provisions as contained in the said act.

Sr. no.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Industrial Cooling, spraying in mine pits or boiler feed	55000
2.	Domestic purpose	10000
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	00
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	00

- 5) The Applicant shall provide Specific Water Pollution control system as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance / CREP guidelines.

Schedule-II

The applicant shall observed the following fuel pattern:-

Sr. No.	Type of Fuel	Quantity	UOM
1.	Natural Gas	4.9	MMSCMD
2.	Naphtha	2200	MTPD

Terms & conditions for compliance of Air Pollution Control:

- As per your application, you have proposed to install/ provided the Air pollution control (APC) system and erected following stack (s) and to observe the following fuel pattern-

Sr. No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity & UoM	S %	SO ₂ ppm
1	Urea Plant - Prilling tower (3 nos)	Tall Prilling Tower	87.00	Nil	Nil	Nil	Nil
2	Heavy water plant - Mini Cracker	Mini Cracker Stack	30.00	Natural Gas	0.02 MMSCMD	3	ppm
3	Urea plant blow down stack (3 nos)	Tall Blow Stack	94.00	Nil	Nil	Nil	Nil
4	Ammonia plant - Flare stack	Tall Flare Stack	98.00	Nil	Nil	Nil	Nil
5	Ammonia plant - Storage	Flare Stack	67.00	Nil	Nil	Nil	Nil
6	Ammonia plant - pre desulphurization	Flare Stack	30.00	Nil	Nil	Nil	Nil
7	Ammonia plant - final desulphurization	Flare Stack	52.60	Nil	Nil	Nil	Nil
8	Di methyl Formamide plant Flare stack	Flare Stack	35.00	Nil	Nil	Nil	Nil
9	Argon plant vent stack	Vent Stack	45.00	Nil	Nil	Nil	Nil
10	Steam generation plant boiler	Tall Chimney	150.00	Natural Gas	1.0 MMSCMD	3	ppm
11	Urea plant vent (3 nos)	Tall Vent Stack	93.40	Nil	Nil	Nil	Nil
12	Ammonia plant - Auxiliary Boiler line I & II	Auxiliary Boiler stack	35.00	Natural Gas	0.23 MMSCMD	3	ppm
13	Ammonia plant - Reformer line I & II	Reformer Stack	30.00	Natural GAS	1.1 MMSCMD	3	ppm
14	CO Plant - Auxiliary Boiler	Auxiliary Boiler stack	30.00	Nil	Nil	Nil	Nil
15	CO Plant - Reformer	Reformer stack	40.00	Natural Gas	0.008 MMSCMD	3	ppm
16	Heavy water plant - Process stack	Process Stack	65.00	Nil	Nil	Nil	Nil

17	Heavy water plant - Main Cracker	Main cracker Stack	30.00	Nil	0.06 MMSCMD	3 ppm	
18	D.G. Sets (6 Nos)	D. G. Set stack	10.0 above the roof in which it is installed.	Nil	Nil	Nil	

- The Applicant shall provide Specific Air Pollution control equipments as per the conditions of EP Act, 1986 and rule made there under from time to time / Environmental Clearance / CREP guidelines.
- The applicant shall operate and maintain above mentioned air pollution control system, so as to achieve the level of pollutants to the following standards:

Particulate matter	Not to exceed	150 mg/Nm ³ .
SO ₂	Not to exceed	2.4 T/day
SO ₂ Boiler (operating on gas)	Not to exceed	5 ppm
NO _x (from process)	Not to exceed	50 ppm
NH ₃ (from process)	Not to exceed	50 ppm
TPM from prilling tower	Not to exceed	50 ppm

- The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement well before its life come to an end or erection of new pollution control equipment.
- The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).

Schedule-III
Details of Bank Guarantees

Sr. No.	Consent (C to E/O/R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1NIL.....					

Maharashtra Pollution Control Board

Schedule-IV

General Conditions:

- 1) This consent is issued by overriding the earlier consent granted vide No-BO/ JD-PAMS/EIC.No-RD2492-12/R/CAC-1312 Dated: 13/02/2013 and as per the details submitted by industry for No increase in pollution load for Neem Coated Urea in the prescribed format of Board.
- 2) The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
- 3) If the pipeline is broken/ overflowing chamber, in such cases industry shall not discharge their treated effluent, it shall be sent to CETP by tanker.
- 4) Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
- 5) 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 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.
- 6) 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.
- 7) The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed 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 and conditions of this consent.
- 8) 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.
- 9) The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the HW(MH&TM) Rules 2008, which can be recycled/processed/reused/recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/reprocessed etc should go for that purpose, in order to reduce load on incineration and landfill site/environment.
- 10) The industry should comply with the Hazardous Waste (M, H & TM) Rules, 2008 and submit the Annual Returns as per Rule 5(6) & 22(2) of Hazardous Waste (M, H & TM) Rules, 2008 for the preceding year April to March in Form-IV by 30th June of every year.
- 11) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 12) The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent (in case of Renewal of consent).
- 13) Industry shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act, 1981 and Environmental Protection Act, 1986 and industry specific standard under EP Rules 1986 which are available on MPCB website (www.mpcb.gov.in).
- 14) The industry shall constitute an Environmental cell with qualified staff/personnel/agency to see the day to day compliance of consent condition towards Environment Protection.
- 15) Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
- 16) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.

- 17) The applicant shall install a separate 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.
- 18) **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. 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.
 - d. Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
 - e. 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
 - f. D.G. Set shall be operated only in case of power failure.
 - g. The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
 - h. The applicant shall comply with the notification of MoEF dated 17.05.2002 regarding noise limit for generator sets run with diesel
- 19) The industry should not cause any nuisance in surrounding area.
- 20) 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.
- 21) The applicant shall maintain good housekeeping.
- 22) The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a statement on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end, with the Environment Statement.
- 23) 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 of solid waste.
- 24) The applicant shall not change or alter the 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. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.
- 25) The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
- 26) The industry shall submit quarterly statement in respect of industries' obligation towards consent and pollution control compliance's duly supported with documentary evidences (format can be downloaded from MPCB official site).
- 27) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
- 28) The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dt. 16.11.2009 as amended.

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