

MAHARASHTRA POLLUTION CONTROL BOARD

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Mumbai - 400 022

RED/L.S.I

Date: 27/02/2013

Consent No: BO/PAMS/R/EIC NO.PN-13095-12/CC-1702

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 Rama Krushi Rasayan,
(Div. Of Rama Phosphate Ltd.),
G.No.43,Loni-Kalbhori,Tal-Haveli,Dist-Pune.

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	Sulphuric Acid (including Oleum 1800MT)	4,500.00	MT/M
2	Single Super Phosphate (Powder)	12,000.00	MT/M
3	Single Super Phosphate (Granulated)	5,000.00	MT/M
4	NPK grade 18:18:10, 20:20:20, 20:20:10, 10:20:20 (Alternate product to granulated super phosphate one at a time)	5,000.00	MT/M

3. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of trade effluent from the factory shall not exceed 130.0 M³.
- (ii) The daily quantity of sewage effluent from the factory shall not exceed 7.0M³.
- (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:

1	pH	Between	6.5 to 8.5
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	T.D.S	Not to exceed	2100
7	Fluoride	Not to exceed	2.00
8	Phosphate	Not to exceed	5.00
9	Chromium(Hexavalent)	Not to exceed	0.1
10	Total Chromium	Not to exceed	2.00
11	Bio-assay test in fish shall show 90% survival in 96hrs		

(iv) **Trade Effluent Disposal:** The treated effluent shall be used on land for gardening within the 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	200 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 Of Waste	Quantity	UOM	Treatment	Disposal
			N.A.		

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

- Adequate treatment for removal of oil, chromium (till non chromate based cooling system is in place) and fluoride will be provided to meet prescribed standards at the source (end of respective process unit) itself.
- Ground water monitoring around the storage facilities and beyond the factory premises will be carried out at regular intervals particularly pH, Fluoride.
- No effluent arising from process plants and associated facilities will be discharged to the storm water drain. The quality of storm water will be regularly monitored by the industry.
- The industries, where waste / effluent flows through the storm water drains even during the dry season will install continuous system for monitoring the storm water quality for pH, ammonia and fluoride. If required, storm will be routed through ETP before discharging.

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	...	18.3	CMD
(ii) Water gets Polluted & Pollutants are Biodegradable	...	376.7	CMD
(iii) Water gets Polluted, Pollutants are not Biodegradable & Toxic	...	-----	CMD
(iv) Industrial Cooling, spraying in mine pits or boiler feed	...	0.00	CMD
(v) Agriculture / 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. Scrubber of sufficient capacity should be provided to scrub gaseous emission and fumes from the process (alkali scrubber is provided in Sulphuric Acid Plant and high efficiency Mist eliminator should be installed).
- II. Jej scrubbers and cyclone scrubber should be attached to SSP plant. Dry scrubbers to GSSP and NPK section.
- III. Dust collector of sufficient capacity shall be provided to limit the emissions.
- IV. There shall not be any secondary (fugitive) emissions.

b) Standards for Emissions of Air Pollutants:

(i) SPM	Not to exceed	150 Mg/Nm ³
(ii) SO ₂	Not to exceed	100 mg/day
(iii) SO ₂ (process)	Not to exceed	50 ppm
(iv) SO ₂ from Sulphuric/oleum plant	Not to exceed	1.8 kg/Ton of product
(v) Fluoride	Not to exceed	20 mg/Nm ³
(vi) NO _x	Not to exceed	50 ppm
(vii) Acid Mist	Not to exceed	25 mg/Nm ³

Standards for Stack Emissions:

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

Sr. No.	Type Of Fuel	Quantity	UOM
1.	Coal(GSSP) Furnace	10	MT / Day
2	HSD	60	Ltr/ Day

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

Sr. No.	Chimney Attached To	Height in Mtrs.
1	D.G Set (500 KVA)	4.5

2	Alkali scrubber of SAP Section	50
3	Scrubber to SSP Section	52
4	Dry Scrubber of GSSP Section	30
5	Dry Scrubber of NPK Section	30

- (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 with regard to SO₂, NO_x, PM, SO₃, Fluoride and acid mist will be carried out.
 - 3) Continuous SO₂ emission monitoring systems will be installed in sulphuric acid plant (Having capacity 200 TPD and above)

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 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.

7. CONDITIONS UNDER HAZARDOUS WASTE (MANAGEMENT, HANDLING & TRANSBOUNDARY MOVEMENT) RULES, 2008:

- (i) The Industry shall handle hazardous wastes as specified below.

Sr. No	Item no.	Type Of Waste	Quantit	UOM	Disposal
1	17.1	Residue dust or filter cakes	250	Kg/Day	Reuse in process
2	17.2	Spent eatalyst	0.63	Kg/Day	CHWTSDF
3	18.5	ETP Sludge	4.16	Kg/Day	Reuse in process

- (ii) Treatment: - NIL

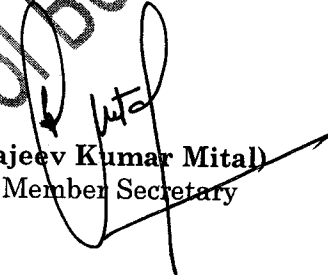
- 9 Whenever due to any accident or gas leakage or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Collector, Directorate of Industry, Safety and Health, Police Station, Fire Brigade, Directorate 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 general 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. 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. The consent should not be construed as any exemption from obtaining necessary NOC from other Government agencies as may be deemed fit necessary.
12. The industry shall carry out assessment of impact of emission on crops and cattle's during critical season of June to September, when the wind direction is towards agriculture fields and residential areas, so carry out comprehensive Risk Assessment Studies and Environment Audit of H₂SO₄ plant, SSP, and GSSP.
13. An action plan for proper handling, storage and disposal of spent catalyst having toxic metals shall be submitted. The industry shall also explore recovery/buy-back of spent catalyst.
14. This consent is issued as per No increase in pollution load certificate of BATU, Lonere vide No. DBATU/Chem/CW/RKR/PVB dtd 30/9/2011, submitted by industry.
15. This consent is granted as per decision taken in Consent committee meeting with following conditions
- i. **Industry shall submit operational Bank Guarantee of Rs 5.0 Lakhs towards O & M of air pollution control system within 15 days, for a period of one year in favour of "Regional Officer, MPCB, Pune"**

- ii. Use of raw material shall be restricted to 22309 MT/M against 22819 MT/M and submission of Bank Guarantee of Rs 5 lakh for the same.
- iii. Use of imported coal having sulphur content 0.4 – 0.5 % in place of Indian coal having sulphur 1 % and submission of Bank Guarantee of Rs 5 lakh for the same.
16. This consent is issued with an overriding effect to the earlier consent issued by Board vide No *BO/JDPAMS/EIC NO.PN-7372-10/CC-119, dated 04/08/2011.*
17. This consent is issued as per the decision taken in the meeting of the Consent Committee of the Board held on 15/02/2013.
18. The Total Capital investment of the industry is Rs. 35.65 Cr.
(Existing CI Rs 35.59 cr + Increased CI Rs 6.0 lakhs)


(Rajeev Kumar Mital)
Member Secretary

To,
M/s Rama Krushi Rasayan,
(Div. Of Rama Phosphate Ltd.)
G.NO.43,Loni-Kalbhori,Tal-Haveli, Dist-Pune.

Copy to:

- 1) Regional Officer, MPCB, Pune, 2) Sub Regional Officer, MPCB, Pune-II
They are directed to obtain BG from industry as per condition No 14 and to ensure the compliance of consent conditions.
- 3) Chief Account Officer, MPCB, Mumbai, 4) Cess Branch, MPCB, 5) Master File.

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	2100/-	660170	08 Feb 2012	Bank of Maharashtra