

MAHARASHTRA POLLUTION CONTROL BOARD

Phone : 4010437/4020781
/4037124/4035273

Fax : 24044532/4024068 /4023516

Email : enquiry@mpcb.gov.in

Visit At : <http://mpcb.gov.in>



Kalpataru Point, 3rd & 4th floor, Sion- Matunga
Scheme Road No. 8, Opp. Cine Planet Cinema, Near
Sion Circle, Sion (E),

Mumbai - 400022

Red/L.S.I

Date: 17/06/2014.

Consent No: B.O/AST/EIC.NO-RD-2593-13/R/Gen- 5750

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

Coromandel International Ltd,
(Formerly known as Liberty Phosphate Limited)
Survey No-129, Village-Rasal
Tal- Sudhagad-Pali, Dist-Raigad.
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: 30/09/2015
2. The Consent is valid for the manufacture of -

Sr. No.	Product Name	Maximum Quantity	UOM
1	Single Super Phosphate	6000	MT/M
2	Granulated Single Super Phosphate	4500	MT/M
	OR		
3	NPK(mixed fertilizers)	4500	MT/M

3. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of trade effluent from the factory shall not exceed 12.00M3.
[Shall be completely reused in process]
- (ii) The daily quantity of sewage effluent from the factory shall not exceed 6.00M3.

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. **Scrubber** of sufficient capacity shall be provided to control the gases emissions.
2. **Dust collector** of sufficient capacity shall be operated to control particulate emission from all sources of particulate emissions and shall be kept in good working condition.
3. There shall not be any secondary (fugitive) 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 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

(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	BOD 3days 27 deg.C	Not to exceed	100 mg/l
3	COD	Not to exceed	250 mg/l
4	Oil & Grease	Not to exceed	10 mg/l
5	Suspended Solids	Not to exceed	100 mg/l
6	Total Dissolved Solids	Not to exceed	2100 mg/l
7	Sulphate	Not to exceed	1000 mg/l
8	Chlorides	Not to exceed	600 mg/l
9	Phosphates as P	Not to exceed	05 mg/l
10	Fluorides as F	Not to exceed	10 mg/l
11	Hexavalant Chromium	Not to exceed	0.1 mg/l
12	Total Chromium	Not to exceed	02 mg/l

(iv) **Trade Effluent Disposal:** The treated effluent shall be completely reused in the process. There shall not be any discharge outside the factory 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 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 Waste	Quantity	UOM	Treatment	Disposal
---------	------------	----------	-----	-----------	----------

.....NIL.....

(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 | ... | 10.00 CMD |
| (ii) Water gets Polluted & Pollutants are Biodegradable | ... | 46.00 CMD |
| (iii) Water gets Polluted, Pollutants are not Biodegradable & Toxic | ... | 0.00 CMD |
| (iv) Industrial Cooling, spraying in mine pits or boiler feed | ... | 0.00 CMD |
| (v) Gardening/Tree plantation | ... | 10.0 CMD |

b. Standards for Stack Emissions:

1	SPM/TPM	Not to exceed	150 mg/Nm ³
2	SO ₂	Not to exceed	41.0 Kg/day
3	Fluorides	Not to exceed	20.0 Mg/Nm ³
4	Acid Mist	Not to exceed	35.0 mg/Nm ³

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

Sr. No.	Type Of Fuel	Quantity	UOM
1	Coal for GSSP	206	Kg/Hrs
2	Coal for R-dyer	120	Kg/Hrs

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

r. No.	Chimney Attached To	Height in Mtrs.
1	SSP scrubber	40.00
2	GSSP Dryer	30.00
3	Rock Dryer	25.00

(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.

(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	36.1 Sludge from wet scrubbers	270.0	Kg/day	Used as filler in SSP (Fertilizer)
2	D2-Sch-II H ₂ SiF ₆	12.0	KL/day	Recycled back in the process [SSP plant mixing with rock phosphates, Sulphuric acid & water in reactor/sale

(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 pre 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. The consent should not be construed as any exemption from obtaining necessary NOC from other Govt. agencies as may deemed fit necessary.
 9. The industry shall also comply with the Industry specific standards notified under Environment Protection Act.
 10. This Board reserves the right to amend or add any conditions in this consent and the same shall be binding on the Applicant.
 11. Industry shall comply the following Conditional Directions issued vide-letter No-BO/P&L DIVN/B-2221 dated-10/06/2014.
 - A] You shall carry out study for preparing feasibility report to finalise the design needs for further improvement on the basis of it's mass balance and load assessment through accredited consultant/expert in the field within 2 months time, for which, a bank guarantee of Rs.2 Lakh shall be submitted, which shall be valid for a period of one year or till the compliance is secured, to be submitted within 15 days time.
 - B] As recommended by NEERI, a pilot arrangement to be undertaken with a combination of chemical dust pollution control system as well as automated water sprinkler for fugitive emissions within 60 days i.e. by 30th June, 2014, for which, you shall submit bank guarantee of Rs.1 Lakh, which shall be valid for a period of one year or till the compliance is secured, whichever is earlier, to be submitted within 15 days time in favour of Regional Officer, MPCB, Raigad.
 - C] You shall take inplant measures with the upgradation of internal system after load assessment by 31/7/2014, so as to prevent escaping of fluoride containing dust and also acidic dust particulate, for which, you shall submit a bank guarantee of Rs.1 Lakh, which shall be valid for a period of one year or till the compliance is secured, whichever is earlier, to be submitted within 15 days time in favour of Regional Officer, MPCB, Raigad.
 - D] You shall regularly monitor air pollution through an expert / accredited lab and health based reputed NGO to be appointed to do periodical check up of villages, for which, you shall submit a bank guarantee of Rs.2 Lakhs, which shall be valid for a period of one year or till the compliance is secured, whichever is earlier, to be submitted within 15 days time, in favour of Regional Officer, MPCB, Raigad.

- E] You shall carry out an upgradation after the feasibility study within 3 months, for which, you shall submit a bank guarantee of Rs.2.5 Lakhs, which shall be valid for a period of one year or till the compliance is secured, whichever is earlier, to be submitted within 15 days time, in favour of Regional Officer, MPCB, Raigad.

12. The Capital investment of the industry is Rs.13.82 Cr.

P.K. Mirashe
15/8/14

(P.K.Mirashe)
Assistant Secretary (Technical)

To,
Coromandel International Ltd,
(Formerly known as Liberty Phosphate Limited)
Survey No-129, Village-Rasal
Tal- Sudhagad-Pali, Dist-Raigad.
Maharashtra, India

Copy for information to:-

Regional Officer MPCB Raigad/Sub-Regional Officer MPCB, Raigad-II-Shall check the Compliance of Conditional Directions issued vide-letter No-BO/P&L DIVN/B-2221 dated-10/06/2014.

Chief Account Officer MPCB Mumbai.

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	150100	641255	01 Aug 2013	SBI Bank