



ANDHRA PRADESH POLLUTION CONTROL BOARD
D.No.33-26-14D/2, Near Sunrise Hospital, Pushpa Hotel Centre,
Chalamalavari Street, Kasturibaipet, Vijayawada – 520 010
Phone. No.0866-2463200, Website : <https://pcb.ap.gov.in>

**RED CATEGORY
RENEWAL OF CONSENT TO OPERATE & AUTHORISATION ORDER**

Consent Order No : APPCB/VSP/RJY/285/HO/CTO/2021-

Date: 07/03/2023

CONSENT is hereby granted to Operate under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21 /22 of Air (Prevention & Control of Pollution) Act 1981 and amendments thereof and Authorisation under Rule 6 of the Hazardous & Other Wastes (Management and Transboundary, Movement) Rules, 2016 and the rules and orders made there under (hereinafter referred to as 'the Acts', 'the Rules') to:

**M/s. Coromandel International Ltd,
Vakalapudi(V), Beach Road, Kakinada Rural,
East Godavari District – 533 003
E-mail: srinivasaraoch@coromandel.murugappa.com;**

(Hereinafter referred to as 'the Applicant') authorizing to operate the industrial plant to discharge the effluents from the outlets and the quantity of emissions per hour from the chimneys as detailed below:

i. Out lets for discharge of effluents:

Outlet No.	Outlet Description	Max Daily Discharge KLD	Point of Disposal
1.	Clarifier blow down - 10.0 KLD + Boiler Blow down – 10 KLD + Cooling tower bleed off – 12 KLD + Softener regeneration - 24 KLD	56.0	Shall be recycled in the DAP/NPK Plant.
2.	Domestic wastewater	60.0	After treatment in STP, the treated wastewater shall be used onland for irrigation, within the industry premises duly meeting the Board's discharge standards (BOD-30 mg/l).

ii. Emissions from chimneys:

Chimney No.	Description of Chimney	Quantity of Emissions in m3/hr. at peak flow
1.	Attached to DAP Plant – A Train	2,38,360 Nm3/hr
2.	Attached to DAP Plant – B Train	2,38,360 Nm3/hr
3.	Attached to DAP - C Train	3,23,000 Nm3/Hr
4.	Attached to Natural Gas Fired Boiler 1 x 12 TPH	---

	and *1X 7 TPH (standby boiler)	
5.	Attached to Bagging Plant 1	---
6.	Attached to Screen house - 2 & Bagging Plant -2	---
7.	Attached to Bagging Plant -3	---
8.	Attached to 2 X 1000 KVA DG Set	--

* The industry use the 7.0 TPH boiler as standby as committed during CFE Committee meeting held on 17.04.2012

iii. HAZARDOUS WASTE AUTHORISATION (FORM – II) [See Rule 6 (2)]:

M/s. Coromandel International Ltd., Beach Road, Kakinada, East Godavari District., is hereby granted an authorisation to operate a facility for collection, reception, storage, transport and disposal of the following wastes with quantities as below:

● HAZARDOUS WASTES WITH RECYCLE OPTION:

S. No	Name of the Hazardous Waste	Stream	Quantity of Hazardous Waste	Disposal Option
1.	Used oil	5.1 of Schedule-I	3000 LPA	Shall be routed through M/s. APEMC so as to send to authorized agencies for re-processors / recyclers (as recyclable waste).
2.	ETP Sludge	34.3 of Schedule – I	4TPD	Shall be received through M/s. Andhra Pradesh Environment Management Corporation from M/s. Parry Sugars Refinery India Pvt Ltd., Kakinada for utilization as filler material in granulation plant along with Dolomite (as utilizable waste)
3.	Calcium Phosphate Sludge	36.1 of Schedule – I	17 TPD	

Bulk Chemical Storage Tanks:

S. No	Name of the Chemical	Existing Capacities	Total Capacity
1	Anhydrous Liquified Ammonia	2 x 5,000 MT + 1 x 10,000 MT + 1 x 12,500 MT	32, 500 MT
2	Phosphoric Acid (54% P ₂ O ₅)	1x10,000 MT, 2x5,000 MT, 2 x 12,500 MT, 2x 7,500 MT & 2 x 12,000 MTs	84,000 MT
3	Sulphuric Acid	2 x 2,400 & 2 x 5,000 MTs	14,800 MT
4	HSD Storage	1 x 20 KL	20 KL

The Consent Order No. APPCB/VSP/RJY/285/HO/CTO/2021, dt 01.10.2021, which is valid up to 30.09.2026 stands cancelled from date of issue of this order. This consent order is valid to manufacture the following products along with quantities indicated only:

S. No.	Products	Quantity
1	Di-Ammonium Phosphate	20.5 Lakhs tons per Annum (All the three trains (A,B,C) put together)
2	NPK Fertilizer	

This order is subject to the provisions of 'the Acts' and the Rules' and orders made thereunder and further subject to the terms and conditions incorporated in the schedule A, B & C enclosed to this order.

This combined order of consent to operate & Hazardous Waste Authorisation shall be valid for a period ending with the **30th day of September, 2026.**

PRAVIN KUMAR IAS, MS(PK), O/o MEMBER SECRETARY-APPCB

To

M/s. Coromandel International Ltd,

Beach Road, Kakinada,

East Godavari District – 533 003

Copy to:

1. The JCEE, Zonal Office, **Visakhapatnam** for information and necessary action.
2. The EE, Regional Office, **Kakinada** for information and necessary action.

SCHEDULE-A

1. Any up-set condition in any industrial plant / activity of the industry, which result in, increased effluent / emission discharge and/ or violation of standards stipulated in this order shall be informed to this Board, under intimation to the Collector and District Magistrate and take immediate action to bring down the discharge / emission below the limits.
2. The industry should carryout analysis of waste water discharges or emissions through chimneys for the parameters mentioned in this order on quarterly basis and submit to the Board.
3. Notwithstanding anything contained in this consent order, the Board hereby reserves the right and powers to review / revoke any and/or all the conditions imposed herein above and to make such variations as deemed fit for the purpose of the Acts by the Board.
4. The industry shall ensure that there shall not be any change in the process technology, source & composition of raw materials and scope of working without prior approval from the Board.
5. The applicant shall submit Environment statement in Form V before 30th September every year as per Rule No.14 of E(P) Rules, 1986 & amendments thereof.
6. The applicant should make applications through Online for renewal of Consent (under Water and Air Acts) and Authorization under HWM Rules at least 120 days before the date of expiry of this order, along with prescribed fee under Water and Air Acts and detailed compliance of CFO conditions for obtaining Consent & HW Authorization of the Board.
7. The industry should immediately submit the revised application for consent to this Board in the event of any change in the raw material used, processes employed, quantity of trade effluents & quantity of emissions. Any change in the management shall be informed to the Board. The person authorized should not let out the premises / lend / sell / transfer their industrial premises without obtaining prior permission of the State Pollution Control Board.
8. Any person aggrieved by an order made by the State Board under Section 25, Section 26, Section 27 of Water Act, 1974 or Section 21 of Air Act, 1981 may within thirty

days from the date on which the order is communicated to him, prefer an appeal as per Andhra Pradesh Water Rules, 1976 and Air Rules 1982, to Appellate authority constituted under Section 28 of the Water(Prevention and Control of Pollution) Act, 1974 and Section 31 of the Air(Prevention and Control of Pollution) Act, 1981.

9. The industry shall be liable to pay Environmental Compensation / Other Environmental Taxes, if any environmental damage caused to the surroundings, as fixed by the Collector & District Magistrate or any other competent authority as per the Rules in vogue.
10. The industry may explore the possibility of tapping the solar energy for their energy requirements.
11. The industry should educate the workers and nearby public of possible accidents and remedial measures.

SCHEDULE – B

1. The industry shall store the Filler such as river sand and dolomite material in closed shed;
2. The industry shall develop remaining green belt 55 acres by maintaining minimum green belt in an area of 350 acres.
3. The industry shall provide mechanical road sweeping machine by 30.06.2023
4. The industry shall install permanent water sprinklers on either side of the road by November, 2023;

Water Pollution

5. The effluent discharged shall not contain constituents in excess of the tolerance limits mentioned below:

Outlet	Parameter No.	Limiting Standards
2	pH	6.5 – 8.5
	Total Suspended Solids (TSS at 103 ⁰ – 105 ⁰ C)	100 mg/l
	Total Dissolved Solids	2100 mg/l
	Oil and Grease	10 mg/l
	Chemical Oxygen Demand	250 mg/l
	Biochemical Oxygen Demand (BOD at 270C 3 days)	30 mg/l
	Ammonical Nitrogen as N	50 mg/l
	Total Kjeldhal Nitrogen (TKN) as N	75 mg/l
	Free Ammoniacal Nitrogen as N	4.0 mg/l
	Nitrate Nitrogen as N	20 mg/l
	Dissolved Phosphate as P	5.0 mg/l
	Fluoride as F	10 mg/l

Note:

- a. Chromium salt shall not be used in cooling tower as algicide
- b. The effluent shall be analysed for Vanadium and Arsenic once in a year and analysis report shall be submitted to the concerned State Pollution Control Board / Pollution Control Committee.

6. The water consumption shall not exceed the quantities mentioned below:

S.No	Purpose	Quantity (KLD)
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1.	Process and Washing	1210
2.	Boiler feed	160
3.	Cooling makeup	40
4.	Gardening / Irrigation	175
5.	Domestic	100
	Total	1685

The industry shall maintain separate meters with necessary pipe-line for assessing the quantity of water used for each purpose.

7. The effluent discharged shall comply with the tolerance limits mentioned as per MoEF notification dated 29.12.2017 prescribed for Fertilizer industry.
8. The industry shall maintain digital flow meters with totalizer for water consumption, waste water generation mentioned in CFO Order; quantity of effluents being used for recycling in the process; for onland plantation separately and maintain records.
9. The industry shall maintain digital flow meters with totalizer and web camera as per CPCB directions dated 05.02.2014 and 02.03.2015.
10. The industry shall maintain and operate STP properly for treatment and disposal of domestic effluents and maintain records.
11. Rain water shall not be allowed to mix with either trade or domestic effluents. Industry shall maintain storm water drains properly.
12. The industry shall regularly monitor the ground water quality. The consolidated monitoring reports on the trend analysis of the ground water quality shall be furnished to RO, Kakinada every six months.
13. Effluents shall not be discharged onland or any water bodies or aquifers or outside under any circumstances.

Air Pollution

14. The emissions shall not contain constituents in excess of the prescribed limits mentioned below.

Chimney No.	Parameter	Emission Standards
1 to 3	Particulate Matter	115 mg/Nm ³
	Ammonium as NH ₃	300 mg/Nm ³
	Total Fluoride	<10 mg/m ³
4 to 7	Particulate Matter	115 mg/Nm ³
	Total Fluoride	10 mg/m ³

15. The emission standards shall comply with the tolerance limits as per MoEF notification dated 29.12.2017 prescribed for Fertilizer industry.
16. The industry shall comply with emission limits for DG sets upto 800 KW as per the Notification G.S.R.520 (E), dated 01.07.2003 under the Environment (Protection) Amendment Rules, 2003 and G.S.R.448(E), dated 12.07.2004 under the Environment (Protection) Second Amendment Rules, 2004. In case of DG sets more than 800 KW shall comply with emission limits as per the Notification G.S.R.489 (E), dated 09.07.2002 at serial no.96, under the Environment (Protection) Act, 1986.
17. The industry shall comply with ambient air quality standards of PM₁₀(Particulate Matter size less than 10mm) - 100 mg/ m³; PM_{2.5}(Particulate Matter size less than 2.5 mm) - 60 mg/ m³; SO₂ - 80 mg/ m³; NO_x - 80 mg/m³, outside the factory premises

at the periphery of the industry.

Standards for other parameters as mentioned in the National Ambient Air Quality Standards CPCB Notification No.B-29016/20/90/PCI-I, dated 18.11.2009 shall be complied. Following standards prescribed for noise shall be complied.

Noise Levels: Day time - (6 AM to 10 PM) - 75 dB (A)

Night time - (10 PM to 6 AM) - 70 dB (A).

- 18.The industry shall provide a sampling port with removable dummy of not less than 15 cm diameter in the stack at a distance of 8 times the diameter of the stack from the nearest constraint such as bends etc. A platform with suitable ladder shall be provided below 1 meter of sampling port to accommodate three persons with instruments. A 15 AMP 250 V plug point shall be provided on the platform.
- 19.The industry shall operate bulk handling mechanism like telescopic chute system at all raw material storage warehouses and ensure that there shall not be any fugitive emissions from the raw material handling warehouses.
- 20.The industry shall explore the possibility of reducing the inventory of Ammonia in the plant premises.
- 21.The industry shall provide energy meters to STP and air pollution control equipment and maintain records.
- 22.The industry shall maintain online stack analyzers to all the process stacks for monitoring ammonia, PM and total Fluoride with online connectivity to CPCB/APPCB as per CPCB directions dated 05.02.2014 and 02.03.2015.
- 23.The industry shall maintain 3 CAAQ monitoring stations in three directions for the parameters i.e., PM10, PM2.5, Ammonia, SO₂, and NO_x data transmitted to APPCB website, without interruption. The industry shall regularly carryout calibration of online analyzers both emission and ambient regularly and submit the calibration reports to RO, Kakinada.
- 24.The industry shall not cause any air / odour pollution problems to the surrounding Environment.
- 25.The industry shall take all necessary steps to control Fugitive emissions generated from the process plants.
- 26.The industry shall monitor work place online ammonia levels with online sensors in process area and maintain records.
- 27.The industry shall take all the measures to ensure no leakages of Ammonia at the work area.

General:

- 28.The industry shall not manufacture new products and not exceed the individual products mentioned in this order.
- 29.The industry shall store the hazardous waste in closed shed with dyke wall and leachate collection system.
- 30.The drums containing chemicals / solvents shall be stored under a roof on elevated platform with a provision to collect leakages / spillages in the collection pit.
- 31.The industry shall take all safety measures and provide firefighting equipment in the plant.
- 32.The industry shall maintain good housekeeping within the industry premises.
- 33.The industry shall maintain the following records and the same shall be made available to the inspecting officers of the Board:
 - a. Daily production details.
 - b. Quantity of Effluents generated, treated, recycled/reused and disposed.
 - c. Log Books for pollution control systems.

- d. Characteristics of effluents and emissions.
 - e. Hazardous/non hazardous solid waste generated and disposed.
 - f. Inspection book.
 - g. Manifest copies of effluents / hazardous waste.
34. There shall not be any change in waste water, solid waste and air pollution (emission loads F, NH₃, SPM) and the following measures shall be implemented in NPK plant in order to reduce the pollution loads:
- a. Improved pipe reactors technology with change in the design of internals for increase absorption of ammonia during reaction with Phosphoric acid, to reduce ammonia emissions from the reaction system.
 - b. Usage of increased proportion of evaporated (concentrated) Phosphoric acid having low Fluorine content along with weak Phosphoric acid, to reduce Fluorine input to process plant and hence to reduce Fluorine emissions.
 - c. Usage of granulation aide to improve granule strength to reduce dust generation from the plant.
35. The industry shall comply with the Plastic Waste Management Rules, 2016 and amendments thereof.
36. The industry shall maintain valid PLI policy which includes Environmental Relief Fund (ERF) and submit copy to RO, Kakinada on yearly base.
37. The industry shall comply with the Regulation of Persistent Organic Pollutants Rules, 2018 notified by the MoEF&CC Notification vide G.S.R. 207 (E) dated 30.05.2018. As per the notification, the following 7 chemicals are prohibited to manufacturer, trade, use, import and export:
- i. Chlordecone,
 - ii. Hexabromobiphenyl,
 - iii. Hexabromodiphenyl ether and heptabromodiphenyl ether (commercial octa-BDE),
 - iv. Tetrabromodiphenyl ether and pentabromodiphenyl ether (commercial penta-BDE),
 - v. Pentachlorobenzene,
 - vi. Hexabromocyclododecane and
 - vii. Hexachlorobutadine.
38. The industry shall submit the information regarding usage of Ozone Depleting Substance once in six months to the Board.
39. The industry shall submit AAQ monitoring reports conducted by authorised agency every month.
40. The industry shall comply with SoPs issued by CPCB time to time for all the wastes.
41. The industry shall install digital display boards at publicly visible places at the main gate indicating the products manufactured Vs permitted quantities, Treated effluent concentrations Vs discharge standards, Stack emission & AAQ concentrations Vs standards, hazardous waste generation, disposed, stock Vs permitted quantities and validity of CTO; and exhibit the CTO order at a prominent place in the factory premises, as per Hon'ble Supreme Court order.
42. The industry shall submit Half yearly compliance reports to all the stipulated conditions in Environmental Clearance (EC), Consent to Establishment (CTE) and Consent to Operation (CTO) through website i.e., <https://pcb.ap.gov.in> by 1st of January and 1st July of every year. The first half yearly compliance reports shall be furnished by the industry and second half yearly compliance reports shall be the audited through MoEF&CC recognized and National Accreditation Board for Laboratory Testing (NABL) accredited third party.
43. The industry shall comply with conditions stipulated in EC, CFE orders and Taskforce directions issued by the Board from time to time.

44. Any other directions / circulars / notices issued by CPCB, MoEF&CC and APPCB shall be followed from time to time.
45. The conditions stipulated are without prejudice to the rights and contentions of this Board in any Hon'ble Court of Law.

Special conditions:

46. The industry shall possess a valid NOC issued by the Andhra Pradesh State Disaster Response and Fire Service Dept., (APSDRFSD) at concerned Regional Office, APPCB.
47. The industry shall prepare a safety report and carry out an independent safety audit report of the respective industrial activities including chemical storages / isolated storages by an expert not associated with such industrial activity as required under Rule 10 of MSIHC Rules, 1989 and get it approved by the Factories Dept., and submit the compliance along with copy of the safety report, safety audit report and safety certificate at concerned Regional Office, APPCB.
48. The industry shall extend training to the working personnel for the prevention of accidents and necessary antidotes to ensure safety, as per the MSIHC Rules, 1989.
49. The industry shall carry out calibration of safety equipment and leak detection systems at regular intervals and shall certify the same with the Factories Department. That certified copy shall be submitted to the APPCB, Regional Office.
50. The industry shall install fluorescent Wind Vane at the highest point in the industry premises.
51. The industry shall submit Risk analysis and risk assessment covering worst scenario clearly describing impact within the industry premises and outside the industry premises and emergency response system.
52. The industry shall submit the copy of the safety audit report and On-Site / Off Site Emergency Plans as applicable after being certified by the Factories Department to the APPCB, Regional Office from time to time, if the storage quantity of hazardous chemicals is equal to or, in excess of the threshold quantities specified in schedule 2 & 3 of MSIHC Rules, 1989.

SCHEDULE – C

[See rule 6(2)]

**[CONDITIONS OF AUTHORISATION FOR OCCUPIER OR OPERATOR
HANDLING HAZARDOUS WASTES]**

1. The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
2. The authorisation shall be produced for inspection at the request of an officer authorised by the State Pollution Control Board.
3. The person authorised shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorisation.
4. Any unauthorised change in personnel, equipment or working conditions as mentioned in the application by the person authorised shall constitute a breach of his authorisation.
5. The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time;
6. The person authorised shall comply with the provisions outlined in the Central Pollution Control Board guidelines on “Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty”.

7. It is the duty of the authorised person to take prior permission of the State Pollution Control Board to close down the facility.
8. An application for the renewal of an authorisation shall be made as laid down under these Rules.
9. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.

Specific Conditions:

10. The industry shall comply with the provisions of HWM Rules, 2016 in terms of interstate transport of Hazardous Waste and manifest document prescribed Under Rule 18 and 19 of the HWM Rules, 2016.
11. The industry shall not store hazardous waste for more than 90 days as per the Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016.
12. The industry shall store Used / Waste Oil and Used Lead Acid Batteries in a secured way in their premises till its disposal to the manufacturers / dealers on buyback basis.
13. The industry shall maintain 7 copy manifest system for transportation of waste generated and a copy shall be submitted to concerned Regional Office of APPCB. The driver who transports Hazardous Waste should be well acquainted about the procedure to be followed in case of an emergency during transit. The transporter should carry a Transport Emergency (TREM) Card.
14. The industry shall maintain proper records for Hazardous and Other Wastes stated in Authorisation in Form-3 i.e., quantity of Incinerable waste, land disposal waste, recyclable waste etc., and file annual returns in Form-4 as per Rule 20 (2) of the Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016.
15. The industry shall route all the hazardous waste through M/s. APEMC.

PRAVIN KUMAR IAS, MS(PK), O/o MEMBER SECRETARY-APPCB

To

**M/s. Coromandel International Ltd,
Beach Road, Kakinada,
East Godavari District – 533 003**