



**ANDHRA PRADESH POLLUTION CONTROL BOARD**

**Paryavaran Bhavan, APIIC Colony Road,  
Gurunanak Colony, Autonagar, Vijayawada-  
520007**

Website : <https://pcb.ap.gov.in/>



**CONSENT TO OPERATE & HAZARDOUS WASTE AUTHORIZATION ORDER**

**02-03-2026**

**Consent Order No : 1485442/APPCB/VSP/RJY/285/CFO/HO/2026-**

CONSENT is hereby granted for Operation under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21 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 Limited,  
(Expansion)**

**Vakalapudi (V), Beach Road,  
Kakinada Rural, Kakinada District**

**Email :**

[jagank@coromandel.murugappa.com](mailto:jagank@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:**

<b>Outlet No.</b>	<b>Outlet Description</b>	<b>Max Daily Discharge (KLD)</b>	<b>Point of Disposal</b>
1.	Process (clarifier blow down) – 114 KLD + Boiler blow down – 72 KLD + Cooling tower bleed off – 480 KLD + Softener & DM Plant regeneration 110 KLD	776.0	Shall be treated in ETP, the treated waste water shall be recycled and reused within the DAP/NPK plants, PAP plant Process, without outside discharge.
2.	Domestic	8.5	After treatment in STP, the treated wastewater shall be used on land for irrigation, within the industry premises duly meeting the Board's discharge standards (BOD-30 mg/l).

**ii) Emissions from chimneys:**

<b>Chimney No.</b>	<b>Description of Chimney</b>	<b>Quantity of Emissions in m3/hr. at peak flow</b>
1.	Attached to Reactor (Rock Phosphate & Sulphuric Acid) & Filtration unit.	80000 Nm3/Hr
2.	Attached to Rock Phosphate grinding (Ball mill) -120TPH	49500 Nm3/Hr
3.	Attached to SAP Plant	144695 Nm3/Hr
4.	Attached to 1 x 1010 KVA DG Set	--
5.	Attached to 1 x 910 KVA DG Set	--

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

**M/s. Coromandel International Limited, Vakalapudi (V), Beach Road, Kakinada Rural, Kakinada District**, is hereby granted an authorization to operate a facility for collection, reception, storage, treatment, transport and disposal of Hazardous Wastes namely:

- HAZARDOUS WASTES WITH RECYCLING OPTION/DISPOSAL OPTION:**

<b>S.No</b>	<b>Name of the Hazardous waste</b>	<b>Stream</b>	<b>Quantity After expansion</b>	<b>Disposal Option</b>
1.	Used lubricating oil/Waste oil	5.1 of Schedule-I	1500 LPA	Shall be routed through M/s. APEMCL to send to authorized agencies for re-processors / recyclers (as recyclable waste).
2.	Waste oil* (*One time permission for disposal within a year)	5.1 of Schedule-I	7000 Litres	Shall be routed through M/s. APEMCL to send to authorized agencies for re-processors / recyclers (as recyclable waste).
3.	Acid Residues (Tank Bottom Sludge)	26.1 of Schedule-I	50 TPA	Shall Recycle into phosphoric acid Reactor/ shall be routed through APEMCL to TSDF, Parawada / Pre-processing units/Cement plants for Co-processing.
4.	Sulphur muck (Sulphur Sludge)	26.1 of Schedule - I	750 TPA	Shall Recycle into the process as filler material in the granulation plant/shall be routed through APEMCL to TSDF, Parawada/pre-processing units/ Cement plants for co- processing.

5.	Spent catalyst	28.1 of Schedule-I	65 TPA	Shall be routed through APEMCL through Authorized recyclers.
6.	Detoxified Containers and container liners	33.1 of Schedule-I	1200 Nos. Per Annum	Shall be routed through APEMCL to authorized agencies, after complete detoxification for re-use/recycle.
7.	Spent Ion Exchange resin from DM plant	35.2 of Schedule-I	7 TPA	Shall be routed through M/S APEMCL to TSDF, Parwada.
8.	ETP Sludge containing Phosphate	35.3 of Schedule-I	10 TPD	Shall recycle back in to process

**This consent order is valid to manufacture the following products along with quantities indicated only:**

S.No.	Products	Quantity
1.	Phosphoric Acid Plant	750 TPD
2.	Sulphuric Acid	2000 TPD
3.	Captive Power (Waste Heat Recovery)	23 MW
	<b>By-Products:</b>	
1.	Dry Gypsum	4050 TPD
2.	Hydrofluorosilicic acid	10 TPD

The issue of CTO&HWA (Expansion) to the industry was placed in the Consent Management Committee meeting held on 25.02.2026. The committee has agreed to issue CTO & HWA (CPM) subject to following conditions:

1. The industry shall take all necessary measures to avoid frequent exceedances of stack emissions (A, B and C trains) and improve the existing pollution control equipment to meet the Board standards stipulated by the Board, in-case the emissions from the stack exceeds more than stipulated standards, Environmental Compensation will be levied against the industry.
2. The industry shall conduct the HAZOP Study, as the Fishermen habitation at a distance of about 300 mtrs towards North - East direction.
3. The industry shall comply with all the conditions stipulated in existing CTO&HWA orders.
4. The industry shall comply with the recommendations of Team constituted by APPCB on 19.2.2026 .

5. 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 & Hazardous Waste Authorisation shall be valid for a period ending with the **31<sup>st</sup> day of January, 2027.**

**I.F.S**

**S SRISARAVANAN,  
MEMBER SECRETARY**

**To  
M/s. Coromandel International Limited,  
Vakalapudi (V), Beach Road,  
Kakinada Rural, Kakinada District**

**Copy to:**

1. The Chairman, APPCB, Vijayawada for information.
2. The JCEE, Zonal Office, **Visakhapatnam** for information and necessary action.
3. The Environmental Engineer, Regional Office, **Kakinada** for information.

#### **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. 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.
4. 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.
5. 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.

6. 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.
7. 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.
8. The conditions stipulated are without prejudice to the rights and contentions of this Board in any Hon'ble court of law.
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**

**The issue of CTO & HWA (Expansion) to the industry was placed in the CTO committee meeting held on 25.02.2026. The industry shall comply with the following conditions:**

1. The industry shall take all necessary measures to avoid frequent exceedances of stack emissions (A, B and C trains) and improve the existing pollution control equipment to meet the Board standards stipulated by the Board, in-case the emissions from the stack exceeds more than stipulated standards, Environmental Compensation will be levied against the industry.
2. The industry shall conduct the HAZOP Study, as the Fishermen habitation at a distance of about 300 mtrs towards North - East direction.
3. The industry shall comply with all the conditions stipulated in existing CTO&HWA orders.

4. The industry shall comply with the recommendations of Team constituted by APPCB.

#### **WATER POLLUTION:**

5. The source of water is Summer Water Reservoir tank at Samalkot. The following is the permitted water consumption:

S.No	Purpose	Quantity (KLD)
1.	Process & Washings	5090
2.	Boiler feed	880
3.	Cooling makeup	2500
4.	Gardening/ Fire hydrant	105
5.	Domestic	15
	Total	8590

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

Outlet	Parameter	Limiting Standards
2	pH	6.5 – 9.0
	Total Suspended Solids (TSS at 1030-105° C)	<100mg/l
	Total Dissolved Solids	2100mg/l
	Oil and Grease	10mg/l
	Chemical Oxygen Demand	250mg/l
	Biochemical Oxygen Demand (BOD at 270C 3 days)	30mg/l
	Fecal Coliform (FC) (Most Probable Number per 100 milliliter, MPN/100ml)	<1000

7. Digital flow meters with totalizers with necessary pipelines shall be provided so as to assess the water used for different purposes and maintain them properly and also maintain the records of the readings.
8. The industry shall provide online continuous effluent monitoring system at outlet of STP and shall connect to APPCB website.

#### **AIR POLLUTION:**

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

Chimney No.	Parameter	Emission Standards

1 and 2	PM Total Fluoride -	115 mg/Nm <sup>3</sup> <10mg/m <sup>3</sup>
3	SO <sub>2</sub> Acid Mist/ Sulphur Trioxide	950 mg/m <sup>3</sup> 50 mg/m <sup>3</sup>

10. The industry shall comply with emission limits for DG sets of capacity upto 800 KW as per the Notification G.S.R. 804(E), dated 03.11.2022 under the Environment (Protection) Act Rules. In case of DG sets of capacity 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.
11. The industry shall comply with ambient air quality standards of PM<sub>10</sub> (Particulate Matter size less than 10 microns) - 100 micro gram/ m<sup>3</sup>; PM<sub>2.5</sub> (Particulate Matter size less than 2.5 microns) - 60 micro gram/ m<sup>3</sup>; SO<sub>2</sub> - 80 micro gram/ m<sup>3</sup>; NO<sub>x</sub> - 80 micro gram/m<sup>3</sup>, 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).

12. The industry shall operate bulk handling mechanism like telescopic chute system at all raw material storage ware houses and ensure that there shall not be fugitive emissions from the raw material handling warehouses.
13. The industry shall properly maintain Ammonia, Phosphoric Acid and Sulphuric Acid storage tanks with dyke walls. Ammonia sensors shall be provided with alarm facility at all necessary places.
14. The industry shall maintain on-line pH meters with auto recording facility for Scrubbing units and online SO<sub>2</sub>analysers to Sulphuric acid plant to measures the acid mist emissions from the process and connect the same to APPCB server.
15. The industry shall provide and maintain the online analyzer facility for monitoring of Fluoride in the Phosphoric Acid plant immediately.

**GENERAL:**

16. The industry shall comply with the conditions stipulated in CTE (expansion) order dated 26.08.2024.

17. The industry shall comply with EC orders dt.25.04.2024 & 10.08.2025.
18. The industry shall comply with their letter dt: 26.11.2025 submitted to the Board.
19. The industry shall comply with the conditions stipulated in CTO order dt.05.06.2024 & 29.08.2024.
20. The industry shall not increase the capacity beyond the permitted capacity mentioned in this order. There shall not be increase in the permitted quantities of the products.
21. The industry shall maintain greenbelt of at least 10 m width over an area of 265 Acres within the industry premises. Compensatory plantation of 5045 tree saplings selected for the plantation should be of sufficient height, preferably 6-ft shall be planted against loss of green cover of 30 acres of current expansion within the existing facility in an area of 4 acres.
22. The industry shall annually submit the audited statement along with proof of activities viz. photographs (before & after with geo-location date & time), details of expert agency engaged, details of species planted, number of species planted, survival rate, density of plantation etc. to the APPCB, 1<sup>st</sup> July of every year for the activities carried out during previous year.
23. The industry shall provide online pH measuring facility with auto recording system to the alkali scrubbers provided to treat the sulfuric acid plant emissions.
24. The industry shall maintain and monitor piezo wells and submit trends every 3 months to RO, Kakinada.
25. The following rules and regulations (as amended and upgraded from time to time) notified by the MoEF&CC, GoI shall be implemented.
  - a. Regulation of Persistent Organic Pollutants Rules, 2018.
  - b. Hazardous waste and other wastes (Management and Transboundary Movement) Rules,2016.
  - c. Plastic Waste Management Rules, 2022.
  - d. Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989
  - e. Fly Ash Notification, 2016.
  - f. Battery Waste Management Rules, 2022.
  - g. E-Waste (Management) Rules, 2022.
  - h. Construction and Demolition waste Management Rules, 2016.
  - i. Solid Waste Management Rules, 2016.
  - j. The Public Liability Insurance Act, 1991 and its amendments thereof.
  - k. Bio Medical Waste Management Rules, 2016
26. The industry shall not start-up the Sulfuric acid plants during night time i.e. between 6.00 PM to 8: 00 AM.

27. The industry shall recover fluorine from phosphoric acid process to maximum extent possible.
28. The industry shall dispose High Chrome forged grinding media solid waste to authorized agencies and submit half yearly reports to RO, Kakinada.
29. The industry shall operate bag filters at hopper i.e. rock phosphate unloading point at wharf to arrest the fugitive emissions.
30. The industry shall update the Disaster Management Plan regularly.
31. The industry shall monitor work place online ammonia levels with online sensors in complex fertiliser plant and maintain records.
32. The industry shall store fresh gypsum on HDPE lining at the wagon loading area.
33. The industry shall submit concentration levels of Ammonia monitored by industry through sensors every month.
34. The industry shall ensure that there are no leaks in any unit operations and unit processes.
35. The industry shall take proper measures to ensure the trucks with proper leak proof bodies are used for transportation of gypsum from the industry.
36. The industry shall develop green belt in all the vacant places. In future, excess green belt over and above 33 % of total area can be utilized for industrial activity as per requirement of industry.
37. The industry shall develop relocation of existing greenbelt as per EC dt.25.04.2024.
38. Any other directions / circulars / notices issued by CPCB, MoEF&CC and APPCB shall be followed from time to time.
39. The conditions stipulated are without prejudice to the rights and contentions of this Board in any Hon'ble Court of Law.
40. The Board reserves its right to modify above conditions or stipulate any further conditions and to take action including revoke of this order in the interest of protection of public health and environment.

**Special conditions:**

41. The industry shall operate with valid NOC issued by the Andhra Pradesh State Disaster Response and Fire Service Dept., (APSDRFSD) and submit a copy at concerned Regional Office, APPCB.
42. The industry shall operate with valid PESO permission.
43. The industry shall maintain valid PLI policy which includes Environmental Relief Fund (ERF) and submit copy to RO, Kakinada on yearly base.
44. 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.
45. 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
  46. The industry shall carryout 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.
  47. The industry shall install fluorescent Wind Vane at the highest point in the industry premises.
  48. 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.
  49. 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.
  50. The industry shall submit Half yearly compliance reports to all the stipulated conditions in Environmental Clearance (EC), Consent to Establish (CTE) and Consent to Operate (CTO) through website i.e., <https://pcb.ap.gov.in> by 1st of January and 1<sup>st</sup> 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.**
  51. The industry shall comply with CPCB guidelines for Management, Handling, Utilisation and disposal of Phosphogypsum generated from Phosphoric Acid plants issued in October, 2014.
  52. The industry shall maintain HDPE lined Phosphogypsum yard properly to handle / storage of Phosphogypsum and the leachate generated shall be properly collected and recycled back on to process.
  53. The industry shall maintain Tarpaulin cover/sheet to cover the material after loaded in wagon/truck to avoid the fugitive emission in transit and shall operate covered belt conveyors for transfer of gypsum from plant to gypsum stack yard.
  54. The industry shall maintain on-line pH meters with auto recording facility for Scrubbing units and online SO<sub>2</sub>analysers to sulphuric acid plant to measures the acid mist emissions from the process and connect the same to APPCB server.
  55. The industry shall install piezometer wells around the gypsum storage yard for periodic monitoring of groundwater quality, in order to assess any impact due to possible leaching of residues from the gypsum storage yard.

### **SCHEDULE - C**

***[ see rule 6(2)]***

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

1. The authorized person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
2. The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the State Pollution Control Board.
3. The person authorized shall not rent, lend, sell, transfer or otherwise transport the Hazardous and other wastes except what is permitted through this authorization.
4. Any un authorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.
5. The person authorized shall implement Emergency Response Procedure (ERP) for which this authorization 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 authorized 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 authorized person to take prior permission of the State Pollution Control Board to close down the facility.
8. An application for the renewal of an authorization 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.
10. The authorized person shall submit annual returns in Form- 4 as per Rule 6(5) of the Hazardous & Other Wastes (Management & Transboundary Movement) Rules, 2016 and amendments thereof to APPCB by 30<sup>th</sup> day of June of every year for the preceding period April to March. Hazardous Wastes quantities in Form- 4 shall be submitted in terms of Metric Tones/annum.
11. The authorized person shall not store hazardous waste for more than 90 days as per the Hazardous & Other Wastes (Management and Transboundary Movement) Rules, 2016.
12. The authorized person 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 buy back basis.
13. The authorized person 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 authorized person shall maintain proper records for Hazardous & other wastes stated in Authorization 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 6 (5) of the Hazardous & Other Wastes (Management & Transboundary Movement) Rules, 2016 and amendments thereof by June 30<sup>th</sup> for the period ensuring 31<sup>st</sup> March of the year.

**S SRISARAVANAN, I.F.S**  
**MEMBER SECRETARY**

**To**  
**M/s. Coromandel International Limited,**  
**Vakalapudi (V), Beach Road,**  
**Kakinada Rural, Kakinada District**