



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

CONSENT TO ESTABLISH ORDER

Order No.65/APPCB/CTE/RO-VSP/HO/2010

23/02/2023

Sub: APPCB – CTE - **M/s. Coromandel International Limited, D.No.3-15/1, Beach Road, Vakalapudi Village, Kakinada Rural, Kakinada District** – Consent to Establish of the Board **for Expansion** under Sec.25 of Water (P & C of P) Act, 1974 and Under Sec.21 of Air (P & C of P) Act, 1981 - Issued - Reg.

Ref: 1. Industry's CTE(exp) application received through APOCMMS on 03.02.2023.
2. R.O's inspection report dt.08.02.2023.
3. CTE Committee meeting held on 16.02.2023.

1. **M/s. Coromandel International Limited**, vide reference 1st cited, submitted an application to the Board seeking Consent to Establish (CTE) for **expansion**, with no increase in pollution load by modification of raw materials, with an additional investment of Rs.0.05 Crore.

As per CTE order dt.09.11.2022:

S. No.	Name of the Products	Capacity as per CTO order dt.01.10.2021 for 'A, B & C' trains	Proposed capacity*	Total capacity after CTE expansion
1.	Di-Ammonium Phosphate	19.25 Lakhs Tons Per Annum (All the three trains (A, B & C) put together).	--	19.25 Lakhs Tons Per Annum (All the three trains (A, B & C) put together).
2.	NPK Fertilizer			
3.	Phosphoric Acid (100% P ₂ O ₅)	---	750 TPD	750 TPD
4.	Co-Generation of Power	--	4.8 MW* (as per Ir.dt.18.10.2022 of the industry)	4.8 MW*

By-Products:

1.	Dry Gypsum	--	4050 TPD	4050 TPD
2.	Hydrofluorosilicic acid	--	10 TPD	10 TPD

*It is reported that the construction of expansion project is not yet started.

After CTE(expansion) :

S. No.	Name of the Products	Consented capacity as per CTO order dt.01.10.2021 for 'A, B & C' trains	Proposed capacity	Total capacity after CTE expansion
1.	Di-Ammonium Phosphate	19.25 Lakhs Tons Per Annum (All the three trains (A, B & C) put together).	1.25 lakhs Tonnes / Annum**	20.5 Lakhs Tons Per Annum (All the three trains (A, B & C) put together).
2.	NPK Fertilizer			

** The industry shall use Ammonium Sulphate directly as raw material to reduce the consumption of Ammonia and Sulphuric acid, as mentioned below:

S. No.	Name of the Raw materials and Chemicals	Existing capacity in MTA	Proposed capacity in MTA	Total After Expansion in MTA
1.	Ammonia	368902	-63118	305784
2.	Defoamer	2	---	2
3.	Filler Material i.e., Sand / Dolomite / Dried ETP Sludge and Calcium Phosphate sludge from M/s. Parry Sugars Refinery India Pvt Ltd, Kakinada	67610	4390	72000
4.	Murate of Potash	269235	17483	286718
5.	Phosphoric Acid	505508	32825	538333
6.	Sulphuric Acid	473400	-191630	281770
7.	Urea	52446	3406	55852
8.	Zinc Oxide	330	--	330
9.	Ammonium Sulphate	0	258250	258250

2. As per the application, the proposed activity is to be located within the existing Plant premises located at D.No.3-15/1, Beach Road, Vakalapudi Village, Kakinada Rural, Kakinada District in an area of 562.5 acres.

3. The above site was inspected by the Environmental Engineer, Regional office, Kakinada, A.P Pollution Control Board on 06.02.2023 and observed that the site is surrounded by

North : Road
South : M/s. NFCL
East : Kakinada Sea Port road followed by Sea
West : Vacant Land and houses followed by road.

4. The Board, after careful scrutiny of the application, verification report of Regional Officer and recommendations of CTE committee, hereby issues **CONSENT TO ESTABLISH FOR EXPANSION** under Section 25 of Water (Prevention & Control of Pollution) Act 1974 and Section 21 of Air (Prevention & Control of Pollution) Act, 1981 and the rules made there under. **This order is issued to manufacture the products as mentioned at para (1) only.**

5. This Consent Order now issued is subject to the conditions mentioned in Annexure.

6. This order is issued from pollution control point of view only. Zoning and other regulations are not considered.
7. This order is valid for period of 7 years from the date of issue.

Encl: Annexure

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

To

**M/s. Coromandel International Limited (Exp),
D.No.3-15/1, Beach Road, Vakalapudi Village,
Kakinada Rural, Kakinada District
srinivasaraoch@coromandel.murugappa.com**

- Copy to:** 1. The JCEE, Z.O: Visakhapatnam for information and necessary action.
2. The E.E., R.O: Kakinada for information and necessary action.

ANNEXURE

1. The proponent shall obtain Consent for Operation (CTO) from APPCB, as required Under Sec.25/26 of the Water (P&C of P) Act, 1974 and under sec. 21/22 of the Air (P&C of P) Act, 1981, before commencement of the trial runs.
2. The applicant shall properly maintain separate energy meters for Effluent Treatment Plant (ETP) and Air pollution Control equipments to record energy consumed. An alternative electric power source sufficient to operate all pollution control systems shall be provided.
3. The industry shall properly maintain separate storm water drains. No effluents shall be discharged in to the storm water drains.

Water:

4. The source of water is Ground water. The maximum permitted water consumption is as following:

S. No.	Purpose	Qty as per CTO Order dt.01.10.2021	Expansion (KLD)	Total qty (KLD)
1.	Process and Washing	1210 KLD	---	1210 KLD
2.	Boiler feed	160 KLD	----	160 KLD
3.	Cooling makeup	40 KLD	----	40 KLD
4.	Gardening /Fire hydrant	175 KLD	---	175 KLD
5.	Domestic	100 KLD	---	100 KLD
	Total	1685 KLD	---	1685 KLD

5. The maximum waste water generation shall not exceed the following:

S. No.	Source	Qty as per CTO Order dt.01.10.2021	Expansion (KLD)	Total qty (KLD)
1.	Process (Clarifier blow down)	10 KLD	---	10 KLD
2.	Boiler Blow down	10 KLD	----	10 KLD
3.	Cooling Tower Bleed off	12 KLD	----	12 KLD
4.	Softener & DM Plant regeneration &	24 KLD	---	24 KLD
5.	Domestic	60 KLD	---	60 KLD
	Total	116 KLD	----	116 KLD

ETP Details & Mode of Disposal:

Effluent Source	Quantity of Effluent	Treatment Facility	Mode of Disposal
Process (Clarifier), Cooling Tower & Boiler blow down and Softener regeneration	56 KLD	---	Recycle in the DAP / NPK Plant.

Domestic	60 KLD	100 KLD STP	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)
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6. All the units of the ETP & STP systems shall be impervious to prevent ground water pollution. The ETP & STP systems shall be maintained properly to achieve the standards.
7. The industry shall provide magnetic flow meters with totalisers at the inlet and outlet of ETP; and to assess the quantity of wastewater recycled in the industry.
8. Floor washing shall be admitted into the effluent collection system only and shall not be allowed to find their way in storm drains or open areas. All pipe valves, sewers, drains shall be leak proof.

Air:

The Air pollution Control equipment shall be maintained properly and shall comply with

9. the following for controlling air pollution after expansion:

As per CTO order dt.01.10.2021:

S. No.	Source of Pollution	Control equipment provided	Flow rate in m³/hr	Stack height in Mts - above GL
1	Attached to DAP – A Train	Tail Gas Scrubber	2,38,360 Nm ³ /Hr	50m
2	Attached to DAP – B Train	Tail Gas Scrubber	2,38,360 Nm ³ /Hr	50 m
3	Attached to DAP – C Train	Tail Gas Scrubber	3,23,000 Nm ³ /Hr	62 m
4.	Common stack attached to Natural Gas Fired Boiler 1 x 12 TPH and *1 X 7 TPH (standby boiler)	---	6,450 Nm ³ /Hr	30 m
5	Attached to Bagging Plant 1	Wet scrubber	---	30 m
6	Attached to Screen house - 2 & Bagging Plant 2	Wet scrubber	---	30 m
7	Attached to Bagging Plant 3	Wet scrubber	---	30 m
8	Common attached to 2 x 1000 KVA DG Sets	Muffler cum silencers	---	15 m

* The industry shall use the 7.0 TPH boiler as stand-by as committed during CTE Committee meeting held on 17.04.2012

Expansion: Nil

10. A sampling port with removable dummy of not less than 15 cm diameter shall be provided 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.
11. The industry shall properly maintain online pH measuring facility with auto recording system to the scrubbers provided to treat the process emissions.
12. The industry shall implement adequate measures to control all fugitive emissions from the plant.
13. The proponent shall ensure compliance of the National Ambient Air quality standards notified by MoEF, GoI vide notification No. GSR. 826 (E), dated. 16.11.2009 during construction and regular operational phase of the project at the periphery.

The generator shall be installed in a closed area with a silencer and suitable noise absorption systems. The ambient noise level shall not exceed 75 dB(A) during day time and 70 dB(A) during night time.

14. **The industry shall provide mechanical road sweeping machine and install permanent water sprinklers on either side of the road.**

Solid / Hazardous Waste:

15. The industry shall comply with the following for disposal of Solid Waste after expansion:

S. No.	Solid Waste generated from	Quantity (TPD)			Method of Disposal
		Existing	Expansion	Total After Expansion	
1.	Used Oil	3000 LPA	---	3000 LPA	To be routed through M/s. APEMC so as to send to authorized agencies for re-processors / recyclers (as recyclable waste).
2.	ETP Sludge	4 TPD	---	4 TPD	To 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	17 TPD	---	17 TPD	

16. The following rules and regulations notified by the MoEF&CC, GoI shall be implemented.

- a) Hazardous waste and other wastes (Management and Transboundary Movement) Rules, 2016.
- b) Plastic Waste Management Rules, 2016.
- c) Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989.

- d) Fly Ash Notification, 2016.
- e) Batteries (Management & Handling) Rules, 2010.
- f) E-Waste (Management) Rules, 2016.
- g) Construction and Demolition waste Management Rules, 2016.
- i) Solid Waste Management Rules, 2016.
- j) The Public Liability Insurance Act, 1991 and its amendments thereof.

Other Conditions:

17. **The industry shall comply with the following conditions immediately as stipulated in the CTO order dt.01.10.2021:**
 - The industry shall develop balance green belt of 55 acres and maintain minimum green belt in an area of 350 acres as mentioned in the earlier orders.
 - The industry shall not store raw materials such as filler etc., openly and shall store in the closed shed.
 - 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.
 - The industry shall take all necessary steps to control fugitive emissions generated from the process plants.
 - The industry shall not manufacture new products and not exceed the production quantity mentioned in this order, without CTE and CTO order of the Board.
18. The industry submitted a copy of acknowledgement of MoEF & CC, dt.02.02.2023 on No increase in pollution load.
19. The industry shall display online data outside the main factory gate on quantity and nature of hazardous chemicals being used in the plant, water & air emissions and solid waste generated within the factory premises, as per Hon'ble Supreme Court order.
20. **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.**
21. **The industry shall submit a copy of the NOC issued by the Andhra Pradesh State Disaster Response and Fire Service Dept., (APSDRFSD) at concerned Regional Office, APPCB.**
22. **The industry shall submit risk assessment report covering worst scenario clearly describing impact within the industry premises and outside the industry premises and emergency response system.**

23. **The industry shall obtain PESO clearance & policy under PLI Act before applying for CTO of the Board.**
24. **The industry shall comply with the Technical suggestions at Chapter No. 7.3 & 7.4 for Hazardous Chemical handling industries by High Power Committee (HPC) of Govt. of Andhra Pradesh. The HPC report is available at www.ap.gov.in.**
25. The industry shall utilize DG power for captive consumption only & power shall not be supplied to grid and shall follow the amendments issued by MoEF & CC/CPCB from time to time on DG sets in respect of conditions & standards.
26. The industry shall submit compliance to the conditions stipulated in the EC and CTE orders to the concerned Regional Officer of APPCB every six months and shall upload the same at APPCB website viz., https://pcb.ap.gov.in/UI/Submission_Compliance_of_EC_CTE_CTO_Direction.aspx
27. The industry shall submit the information regarding usage of Ozone Depleting Substance once in six months to the Regional Office and Zonal Office of the Board.
28. The industry shall submit a report on recycling of treated effluent into the process to achieve zero discharge except during rainy season.
29. Green belt shall be developed all along the boundary & vacant spaces with tall growing trees with good canopy and it shall not be less than 33% of the total area.
30. Concealing the factual data or submission of false information / fabricated data and failure to comply with any of the conditions mentioned in this order attracts action under the provisions of relevant pollution control Acts.
31. Notwithstanding anything contained in this conditional letter or consent, the Board hereby reserves its right and power Under Sec. 27(2) of Water (Prevention and Control of Pollution) Act, 1974 and Under Sec.21(4) of Air (Prevention and Control of Pollution) Act, 1981 to revoke the order, to review any or all the conditions imposed herein and to make such modifications as deemed fit and stipulate any additional conditions
32. 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 such authority (hereinafter referred to as the Appellate Authority) constituted under Section 28 of Water (Prevention and Control of Pollution)Act,1974 and Section 31 of the Air (Prevention and Control of Pollution) Act, 1981.

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

To

**M/s. Coromandel International Limited (Exp),
D.No.3-15/1, Beach Road, Vakalapudi Village,
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