



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 ORDER FOR ESTABLISHMENT

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

09/11/2022

Sub: APPCB – CFE - **M/s. Coromandel International Limited, D.No.3-15/1, Beach Road, Vakalapudi Village, Kakinada Rural, Kakinada District** – Consent for Establishment 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 CFE(exp) application received through APOCMMS on 06.10.2022.
2. R.O's inspection report dt.13.10.2022.
3. Industry's mail dt.18.10.2022.
4. CFE Committee meeting held on 19.10.2022.
5. T. O Ir.dt.29.10.2022.
6. Industry's mail dt.31.10.2022 submitting copy of undertaking on Rs.100/- stamp paper.

1. **M/s. Coromandel International Limited**, vide reference 1st cited, submitted an application to the Board seeking Consent for Establishment (CFE) for **expansion**, with an additional investment of Rs.525.0 Crores.

S. No.	Name of the Products	Capacity as per CFO order dt.01.10.2021 for 'A, B & C' trains	Proposed capacity	Total capacity after CFE 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*	4.8 MW*

*As per Ir.dt.18.10.2022 submitted by the industry

By-Products:

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

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 and JSO, Regional office, Kakinada, A.P Pollution Control Board on 11.10.2022 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 CFE committee, hereby issues **CONSENT FOR ESTABLISHMENT 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

**VIJAY KUMAR GSRKR IAS, MEMBER SECY(GSRKRVK), 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 (CFO) 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 CFO Order dt.01.10.2021	Qty for Expansion	Total qty after CFE Expansion
1.	Process and Washing	1210 KLD	4750 KLD	8210 KLD
2.	Boiler feed	160 KLD	1450 KLD	1610 KLD
3.	Cooling makeup	40 KLD	690 KLD	730 KLD
4.	Gardening /Fire hydrant	175 KLD	100 KLD	275 KLD
5.	Domestic	100 KLD	10 KLD	110 KLD
	Total	1685 KLD	7000 KLD	8685 KLD

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

S. No.	Source	Qty as per CFO Order dt.01.10.2021	Qty for Expansion	Total qty after CFE Expansion
1.	Process (Clarifier blow down)	10 KLD	104 KLD (Process: Washing & Cleaning)	114 KLD
2.	Boiler Blow down	10 KLD	72 KLD	82 KLD
3.	Cooling Tower Bleed off	12 KLD	28 KLD	40 KLD
4.	Softener & DM Plant regeneration	24 KLD	36 KLD	60 KLD
5.	Domestic	60 KLD	4.5 KLD	64.5 KLD
	Total	116 KLD	244.5 KLD	360.5 KLD

ETP Details & Mode of Disposal:

Effluent Source	Treatment facilities	Mode of Disposal
Process (Washing & Cleaning), Cooling tower & Boiler blow downs and DM Plant (2 x 35 m ³ /hr) regeneration (240 KLD)	ETP -75 m ³ / hr (Two stage Lime Neutralization)	To recycle back into process
Domestic (4.5 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)

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. Process effluents shall be recycled / reused within factory premises to achieve zero discharge except during the rainy season.
8. During rainy season, the treated waste water shall meet the water discharge standards.
9. The industry shall provide magnetic flow meters with totalisers at the inlet and outlet of ETP.
10. 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 11. the following for controlling air pollution after expansion:

As per CFO order dt.01.10.2021:

S. No.	Source of Pollution	Control equipment	Flow rate	Stack height above GL
1	Attached to DAP – A Train	Tail Gas Scrubber	2,38,360 Nm ³ /hr	50 m
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	---	6,450	30 m

	(standby boiler)		Nm ³ /hr	
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	---	15m

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

Expansion:

S. No.	Source of Pollution	Control equipment	Stack height above GL
1.	1 x 45 TPH FBC Boiler	ESP	60m
2.	Scrubber attached to Reactor (Rock Phosphate & Sulfuric Acid) & Filtration unit.	Multi Stage Wet Scrubber	35m
3.	Stack attached to Rock Phosphate grinding (Ball mill) -120 TPH	Bag filter	35m
4.	1 x 1010 KVA DG Set	Acoustic enclosure and silencer	30m

12. The industry shall properly maintain 400 MTPD evaporation system for Phosphoric Acid including Fluorine recovery system as stipulated in the earlier EC order.
13. 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.
14. The industry shall properly maintain online pH measuring facility with auto recording system to the scrubbers provided to treat the process emissions.
15. The industry shall implement adequate measures to control all fugitive emissions from the plant.
16. 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.

Solid / Hazardous Waste:

17. The industry shall comply with the following for disposal of Solid Waste after expansion of Sulphuric acid plant:

S. No.	Solid Waste generated from	Quantity			Method of Disposal
		Existing	Expansion	Total after CFE Expansion	
1.	Used Oil	3000 LPA	1000 LPA	4000 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	
3.	ETP Sludge containing Phosphate from the present proposal	--	10 TPD	10 TPD	To recycle back into process
4.	Coal Ash	--	80 TPD	80 TPD	To send to Cement industries.

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

- Hazardous waste and other wastes (Management and Transboundary Movement) Rules, 2016.
- Plastic Waste Management Rules, 2016.
- Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989.
- Fly Ash Notification, 2016.
- Batteries (Management & Handling) Rules, 2010.
- E-Waste (Management) Rules, 2016.
- Construction and Demolition waste Management Rules, 2016.
- Solid Waste Management Rules, 2016.
- The Public Liability Insurance Act, 1991 and its amendments thereof.

Other Conditions:

19. The industry has proposed to establish coal based power plant of Capacity 9MW along with Phosphoric Acid Plant. Subsequently, the industry vide undertaking dt.31-10-2022 reduced its capacity to 4.80 MW, that does not attract the provisions of EIA Notification, 2006 and its amendments thereof. The industry submitted a copy of the Ir. dt. 21.04.2022 of the MoEF&CC, GoI, New Delhi stating that "Establishment of Phosphoric Acid plant of 1000 MTPD

P₂O₅”in the existing plant at Kakinada, may not be considered to be covered under entant provisions of EIA notification,2006, and thus does not require prior EC.

20. 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.
21. **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.**
22. **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.**
23. **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.**
24. **The industry shall obtain PESO clearance & policy under PLI Act before applying for CFO of the Board.**
25. **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.**
26. 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.
27. The industry shall submit compliance to the conditions stipulated in the EC and CFE 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_CFE_CFO_Direction.aspx
28. 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.
29. The industry shall submit a report on recycling of treated effluent into the process to achieve zero discharge except during rainy season.
30. 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.

31. 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.

32. 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.

33. 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.

**VIJAY KUMAR GSRKR IAS, MEMBER SECY(GSRKRVK), 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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