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File No: J-11011/158/2016-IA-II(I)
Government of India
Ministry of Environment, Forest and Climate Change
IA Division
****

Date **10/08/2025**

To,

CH SRINIVAS RAO
COROMANDEL INTERNATIONAL LIMITED
Coromandel International Limited, Door No. 3-15/1, Vakalpudi Beach Road, Rural, East Godavari District, Andhra Pradesh-533003, Vakalpudi, KAKINADA, ANDHRA PRADESH, 533003
srinivasaraoch@coromandel.murugappa.com

Subject: Grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 -regarding.

Sir/Madam,

This is in reference to your application submitted to MoEF&CC vide proposal number IA/AP/IND3/539895/2025 dated 24/06/2025 for grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 and as amended thereof.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC25A1907AP5156589N
(ii) File No.	J-11011/158/2016-IA-II(I)
(iii) Clearance Type	Fresh EC
(iv) Category	A
(v) Project/Activity Included Schedule No.	5(a) Chemical fertilizers ,1(d) Thermal Power Plants
(vi) Sector	Industrial Projects - 3
(vii) Name of Project	Expansion of Fertilizer Plants in Coromandel Kakinada Plant at Vakalapudi (V), Beach Road, Kakinada Rural, Kakinada District, Andhra Pradesh- 533003 by M/s Coromandel International Limited
(viii) Name of Company/Organization	COROMANDEL INTERNATIONAL LIMITED
(ix) Location of Project (District, State)	KAKINADA, ANDHRA PRADESH
(x) Issuing Authority	MoEF&CC
(xi) Applicability of General Conditions as per EIA Notification, 2006	No

3. The Ministry of Environment, Forest and Climate Change has examined the proposal seeking environmental clearance for Expansion of Fertilizer Plants in Coromandel Kakinada Plant at Vakalapudi (V), Beach Road, Kakinada Rural, Kakinada District, Andhra Pradesh- 533003 by M/s Coromandel International Limited.

4. The project is covered under the Category A of item 5(a) of the Schedule of Environment Impact Assessment (EIA) Notification, 2006 (amended from time to time) as all chemical fertilizer projects are categorized as category A and hence the proposal is appraised at the Central Level by the Expert Appraisal Committee (EAC).

5. The unit was granted Environmental Clearance for "Expansion Project of NPK Grade Fertilizers' vide File No. J-110011/381/2006-IA.II(I) dated 11.05.2007. Further the unit was granted Environmental Clearance from MoEF&CC vide File No. J-110011/1303/2007-IA.II(I) dated 11.06.2008 for "Enhancement of Complex fertilizer capacity for 3200 TPD to 4500 TPD" in the existing facility at Kakinada. Extension to EC Letter dated 11.05.2007 was granted on 07.06.2013 followed by grant of EC for "Installation of LPG facilities in the existing fertilizer plant" under Modernization category dated 10.09.2016. The plant is operational as per Consent & Authorization Order (CC&A) from APPCB vide Consent Order No. APPCB/VSP/RJY/285/HO/CTO/2021- dated 07.03.2023 (valid till 30.09.2026) for production capacity of 20.5 Lakh Tonnes per annum of NP/NPK/DAP.

6. It is reported that the recent amalgamation of Environmental Clearances and the amendment/ expansion of fertilizer manufacturing facilities was obtained for the production of Nano-Urea/Nano-DAP fertilizers (30,000 KL per annum), enhancement of NP/NPK/DAP production capacity from 20.5 to 30 lakh tonnes per annum, and the development of a 12 MW coal-based captive power plant. This approval was granted by the Ministry of Environment, Forest and Climate Change (MoEF&CC) vide letter no F. No. J-11011/158/2016-IA-II(I) dated 25/04/2024. Subsequently, Consent for Establishment (CFE) was secured from the Andhra Pradesh Pollution Control Board (APPCB) under Order No. 65/APPCB/CTE/RO-KKD/HO/2010 dated 09.07.2024. The construction is ongoing for H-Train, Phosphoric Acid Plant, Sulphuric Acid Plant as per Environmental clearance or CFE granted to the project. As part of this expansion, commercial operations for the production of 30,000 KL per annum of Nano-Urea/Nano-DAP fertilizers and an additional 2 lakh metric tonnes per annum (LMTPA) of NP/NPK/DAP fertilizers have commenced. The necessary Consent for Operation (CFO) was secured from APPCB, with Order No. APPCB/VSP/KKD/97/HO/CTO/2024 dated 05.06.2024 for Nano-Urea/Nano-DAP production and Order No. APPCB/VSP/RJY/285/HO/CTO/2024 dated 29.08.2024 for additional NP/NPK/DAP production.

7. The industry proposes to enhance the production capacity of NP/NPK/DAP fertilizers by an additional 2.5 Lakh Metric Tonnes Per Annum (LMTPA) through modifications in raw material usage and upgradation of existing machinery in Trains A, B, and C. This expansion aims to improve production efficiency and optimize resource utilization. Upon implementation of the proposed enhancements, the total installed capacity for NP/NPK/DAP fertilizers will increase from 30.0 LMTPA to 32.5 LMTPA. This application is being submitted under para 7(ii) of EIA Notification further amended as per MoEF&CC OM dated 11.04.2022 as project only involves increase in production capacity of one product by 8.33% (scenario 5(II)). Project being applied under para 7(ii) of EIA Notification, 2006, scoping and public consultation is exempted for the project.

8. The project proposal was considered by the Expert Appraisal Committee (Industry-3) in its 105th meeting held on 15th July 2025 wherein the Project Proponent and the accredited Consultant namely M/s EQMS Global Private Limited (NABET Accreditation Number: NABET/EIA/2225/RA0303 dated 18.09.2023 (Valid till 23.11.2025) made a detailed presentation on the salient features of the project.

9. PP reported that existing land area is 562.32 Acres. The proposed expansion is planned within the existing premises only. Details/Status of Land Ownership/Land Possession:

Table: Details of Land Ownership/Land Possession

S No	Plot no./Survey no./Gat no.	Plot area (sq. m.)	Date of land allotment (if applicable)	Date of land Possession (if applicable)	Date of lease /sale deed / land transfer (if applicable)	Validity of lease/sale deed or possession certificate	Name on the lease/sale deed Or allotment/possession certificate

1.	Multiple Khasra Number	562.32 Acres	=	-	-	-	M/s Coromandel International Limited

10. The details of products and capacity as under:

S. No.	Product	CAS No.	Unit	As per EC	Proposed/ Additional	After Expansion	Remarks
PRODUCTS							
1.	Nano-Urea/ Nano-DAP	-	KL per annum	30,000	0	30,000	No Change
2.	NP/ NPK Fertilizer/Di-ammonium Phosphate (DAP)	68917-51-1 7783-28-0	Lakhs Tonnes per annum	30	2.5	32.5	Increase (Increase of production volume of 2.5LMTPA in ABC trains put together (8.33% increase)
3.	Captive Power Plant	-	MW	12	0	12	No Change
4.	Phosphoric Acid (100% P2O5)	7664-38-2	MTPD	750	0	750	No Change
BY-PRODUCTS							
1.	Dry-Gypsum	13397-24-5	TPD	4050	0	4050	CFE received from APPCB vide Order No. 65/APPCB/CFE/RO-VSP/HO/2010 dated 09.11.2022.
2.	Hydrofluorosilicic Acid	16961-83-4	TPD	10	0	10	

11. Certified Compliance Report of previous Environmental Clearance has been granted by IRO, MoEF&CC, Vijaywada vide E-File No. SO/VIJ/EPA/EC-A/101/E-GOD-02/2025/28 dated 10.02.2025. Site visit was carried out on 08.01.2025. Summary of Compliance Status as per CCR dated 10.02.2025 is given below:

S. N.	Title	Number
1	Complied	31
2	Partially Complied	0
3	Agreed to comply by the project proponent	4
4	Noted by the unit	0
5	Condition not applicable to the unit	0
6	Being complied	0
7	Can’t be ascertained	0
Total Conditions		35

12. Details / Chronology of existing EC, CTO, CTE:

S. No.	Particulars	Details
1.	Establishment of Coromandel International Limited Kakinada Plant	1988
2.	Environmental Clearance for Expansion of NPK Grade Fertilizers. (Production Capacity- 6.10 Lakh Tons per annum).	11th May,2007
3.	Enhancement of Complex Fertilizer Plant Capacity (Production Capacity- 3200 MTPD to 4500 MTPD)	11th June,2008
4.	Expansion of Project of NPK Grade Fertilizers – Extension of Validity of Environmental Clearance	7th June,2013

5.	Installation of LPG Facilities in the existing plant premises. – Under Modernization	10th September,2016
7.	Exemption for Environmental Clearance for Establishment of New Phosphoric Acid Plant (PAP) of 750 MTPD P2O5 in existing plant at Kakinada.	21st April,2022
8.	CFE for Phosphoric Acid 750 MTPD P2O5 & 4.8 MW of Captive Power Plant	9th November,2022
9.	CC&A for Production Capacity-20.5 Lakh Tons per annum vide Order No. APPCB/VSP/RJY/285/HO/CTO/2021 (valid up to 30.09.2026)	7th March,2023
10.	Consent to Establish for 2000 TPD Sulphuric Acid and 23 MW CPP (WHRS) vide Order No. 65/APPCB/CTE/RO-VSP/HO/2010	16th April, 2024
11.	Amalgamation of Environmental Clearances and the amendment/expansion of fertilizer manufacturing facilities was obtained for the production of Nano-Urea/Nano-DAP fertilizers (30,000 KL per annum), enhancement of NP/NPK/DAP production capacity from 20.5 to 30 lakh tonnes per annum, and the development of a 12 MW coal-based captive power plant. This approval was granted by the Ministry of Environment, Forest and Climate Change (MoEF&CC) under F. No. J-11011/158/2016-IA-II(I)	25th April, 2024
12.	Consent to Establish for 30,000 KLPA Nano DAP/Nano Urea vide Order No. 65/APPCB/CTE/RO-VSP/HO/2010	8th May, 2024
13.	Latest CCA for 30,000 KLPA Nano DAP/Nano Urea vide Order No. APPCB/VSP/KKD/97/HO/CTO/2024	5th June, 2024
14.	Consent to Establish for NP / NPK Fertilizer/ Di-Ammonium Phosphate (DAP) enhancement by 9.5 LMTPA & Ammonia storage Tank of 12,500 MT vide Order No. 65/APPCB/CTE/RO-KKD/HO/2010	9th July, 2024
15.	Latest CCA for 2.0 LMTPA of NP / NPK Fertilizer/ Di-Ammonium Phosphate (DAP), 10,000 MT of Sulphuric Acid Tank and 5,000 MT of Phosphoric Acid tank vide Order No. APPCB/VSP/RJY/285/HO/CTO/2024	29th August, 2024

13. PP reported that there is an ecologically or environmentally sensitive areas/protected area located within 10 km of the project i.e., Coringa Wildlife Sanctuary at 8.36 km away in south direction. As per Coringa Wildlife Sanctuary notification S.O. 3922 (E) dated 21st September 2021 issued by MoEF&CC, project site is well far away from demarked Eco-Sensitive Zone (ESZ) (i.e., more than 50 meters away in the Northern side of Coringa Wildlife Sanctuary -ESZ). The nearest distance from ESZ Boundary of the Coringa Wildlife Sanctuary is approximately 3.53 km from the project site. There are 2 no. of reserved forests located in the 10 km study area of unit. The nearest protected forest is located 7.09 km, E from the plant. The project is situated 0.81 km away from Bay of Bengal in the East direction. Eleru River is flowing 8.82 km away from the project in west direction from project. There are following Schedule-I species recorded within 10 km study area Felis chaus (Jungle Cat), Prionailurus viverrinus (Fishing Cat), Canis aureus (Golden Jackals), Lutrogale perspicillata (Smooth- coated Otters), Lepidochelys olivacea (Olive Ridley Turtle), Daboia russellis (Russell's Viper) and Ptays mucosa (Rat Snake). The species recorded are in Coringa Wildlife Sanctuary. The area being a protected/restricted area, no activities are allowed within the sanctuary. However, the industry conducts several awareness, and protection drives by collaborating with Forest Department for conservation of animals around the project. Reserved Forest (7.09 km, E) and Reserved Forest (7.99 km, S) are located within 10 km distance.

14. PP reported Ambient air quality monitoring was carried out at eight locations during October, 2022 to December, 2022 and the baseline data indicates the ranges of concentrations as: PM10 (42 µg/m3 to 136 µg/m3), PM2.5 18 µg/m3 to 65 µg/m3), SO2 (5.2 µg/m3 to 10.80 µg/m3) and NOx (7.6 µg/m3 to 32.2 µg/m3). As there is no change in the stack, thus no increase in GLC is anticipated. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS). As per earlier GLC prediction in earlier Environmental clearance, the maximum GLC was PM10: 4.67 µg/m3, PM2.5: 3.31 µg/m3, NOx:0.936 µg/m3, SO2: 0.978 µg/m3, NH3: 0.327 µg/m3 and F: 0.438 µg/m3

15. PP reported that as per EC granted, the total water requirement is 14,153 KLD out of which 13,504 KLD is freshwater consumption. The fresh water is being met through the Public Health Engineering Department (PHED) while the rest of water requirement is being sufficed by reusing process wastewater and STP treated water. Total water requirement of project after expansion will be increased to 14,403 KLD. Freshwater requirement will be increased to 13749.5 KLD after

expansion that will be sourced from existing water supply. Remaining water requirement of 653.5 KLD will be met from recycled/reuse water.

16. PP reported that wastewater generation will be increased from 635.5 KLD to 658 KLD. Out of which, 392 KLD (from boiler feed 350 KLD + Cooling Tower make up 42 KLD) will be treated and reused for processing + washing floor etc. 177.5 KLD process effluent will be treated in the ETP and recycled for process and cooling tower make up. Unit will maintain zero liquid discharge facility. Domestic sewage generated from the plant is treated in a dedicated Sewage Treatment Plant (STP) and treated sewage is reused for horticultural purposes within the plant and during rainy season treated STP water will be used for process.

17. PP reported as per the earlier Environmental Clearance (EC), the total power requirement of Coromandel International Limited's Kakinada Plant was 26.5 MW, sourced from a combination of: Eastern Power Distribution Company of Andhra Pradesh Limited (APEPDCL), Andhra Pradesh Gas Power Corporation Limited (APGPCL), and In-house Captive Power Generation. With the proposed 2.5 LMTPA NPK/DAP expansion, there is an incremental power demand of 0.4 MW, bringing the total power requirement to 26.9 MW. Initially, the plan included a 12 MW Captive Power Plant (CPP) linked with the Phosphoric Acid Plant. However, considering the significant steam availability from the exothermic reaction in the 2000 TPD Sulphuric Acid Plant, a revised strategy was adopted. A 23 MW Captive Power Plant (CPP) based on Waste Heat Recovery System (WHRS) has been planned and received Consent to Establish from APPCB (Order No. 65/APPCB/CTE/RO-VSP/HO/2010 dated 16.04.2024). Power Balance Overview (Total Power Requirement: 26.9 MW, TG Power Generation from WHRS: 18.7 MW (with steam also directed to both evaporators), Grid Power Import (Balance): 8.2 MW).

18. PP reported the existing unit has two Natural Gas based boilers (1 x 12 TPH & 1 x 7 TPH (S/B)). However, 1 x 45 TPH FBC Boiler is proposed in the plant for 12 MW Captive power plant. Approval for the same has already been received.

19. Details of fuel:

Particular	Unit	As per EC/CFE	Proposed	Total after Expansion
POWER REQUIREMENT AND BACKUP				
Contract Demand (Power)	MW	26.5	0.4	26.9
Source	-	APEPDCL/ APGPCL/ Captive	-	APEPDCL/ APGPCL/ Captive
Power Backup-DG Set	KVA	1x750; 5x1010	-	1x750; 5x1010
Captive power plant (From Sulphuric acid plant - WHRS)- CFE Received	MW	23	-	23
FUEL REQUIRMENTS				
LNG (Liquified Natural Gas)	Sm3/ day	52754	-	52754
High Speed Diesel	KL	20	-	20
Coal (Fuel)	TPD	312	-	312

20. Details of Flue Gas and Process emissions generation and its management:

S. No	Stack	Stack Height (m)	APCS	Type of Pollutant	Diameter (m)	Velocity (m/s)	Temperature (°C)

As per EC							
Utilities							
1.	Common Stack attached to Natural Gas fired boiler (1x12 TPH & 1x 7 TPH-standby boiler)	30	--	PM-115 mg/ Nm3 Max.	0.8	6.3	150
2.	DG Sets (2 x 1010 kVA)	13	Muffler cum Silencers	PM-115 mg/ Nm3 Max.	0.8	5.8	120
3.	DG Sets (1x1010 kVA)	30	Acoustic Enclosure and Silencer	PM-115 mg/ Nm3 Max.	Recent CFE approval received. Yet to initiate the project		
4.	1x45 TPH FBC Boiler*	60	Electrostatic Precipitator	PM-115 mg/ Nm3 Max.	Recent CFE approval received. Yet to initiate the project		
Process Emission							
5.	Attached to DAP-Train A	50	Venturi/ Cyclone Scrubber + Fumes Scrubber (Dry/Wet Scrubber) + Tail Gas Scrubber with Mis Eliminator	PM-115 mg/ Nm3 Max. Ammonium as NH3-300 mg/ Nm3 Max. Total Fluoride - 10 mg/m3	2.15	18	75
6.	Attached to DAP-Train B	50		PM-115 mg/ Nm3 Max. Ammonium as NH3-300 mg/ Nm3 Max. Total Fluoride - 10 mg/m3	2.15	18	75
7.	Attached to DAP-Train C	65		PM-115 mg/ Nm3 Max. Ammonium as NH3-300 mg/ Nm3 Max. Total Fluoride - 10 mg/m3	3	12	75
8.	Attached to Bagging Plant -1	34	Wet Scrubber	PM-115 mg/ Nm3 Max. Total Fluoride - 10 mg/Nm3	1	14	45
9.	Attached to Bagging Plant -2 & Screen House-2	45	Wet Scrubber	PM-115 mg/ Nm3 Max. Total Fluoride - 10 mg/Nm3	1.2	16	50
10.	Attached to Bagging Plant -3	33	Wet Scrubber	PM-115 mg/ Nm3 Max. Total Fluoride - 10 mg/Nm3	1	16	50
11	Attached to Screen house -3	33	Wet Scrubber	PM-115 mg/ Nm3 Max. Total Fluoride - 10 mg/Nm3	1.5	14	50

12	Attached to Screen house-1	33	Wet Scrubber	PM-115 mg/ Nm3 Max. Total Fluoride - 10 mg/Nm3	1	14	45
13	Scrubber attached to Reactor (Rock Phosphate & Sulfuric Acid & Filtration Unit	35	Muti-stage Wet Scrubber	PM-115 mg/ Nm3 Max. Total Fluoride - 10 mg/Nm3	Recent CFE approval received. Yet to initiate the project		
14	Stack attached to Rock Phosphate Grinding (Ball Mill)-120 TPH	35	Bag Filter	PM-115 mg/ Nm3 Max. Total Fluoride - 10 mg/Nm3	Recent CFE approval received. Yet to initiate the project		
15	Nano (3 Stacks)	30	Wet Scrubber	NH3-300 mg/ Nm3 Max.	0.4	0.3	40
16	Train-H	65	Venturi/Cyclone Scrubber + Fumes Scrubber (Dry/Wet Scrubber) + Tail Gas Scrubber with Mis Eliminator	PM-115 mg/ Nm3 Max. NH3-300 mg/ Nm3 Max. Total Fluoride – 10 mg/Nm3	3.2	14	65
17	Bagging Plant -4	45	Wet Scrubber	PM-115 mg/ Nm3 Max. Total Fluoride -10 mg/Nm3	1	14	50
18	Screen House Plant -4	43	Wet Scrubber	PM-115 mg/ Nm3 Max. Total Fluoride - 10 mg/Nm3	1.5	14	50
19	DG Set (2x1010 kVA)	30	--	PM-115 mg/Nm3 Max.	0.8	5.8	120
20	1x 65 TPH Boiler	60	Electrostatic Precipitator with Bag filter	PM- 30 mg/ Nm3 SO2 – 100 mg/ Nm 3 NOx – 100 mg/ Nm 3	1.5	16	130

21. Details of Solid waste/ Hazardous waste generation and its management:

Sr. No	Type of waste	Category	Generation As per EC/CFE/CFO	Proposed	After Expansion	Disposal Method
Hazardous Waste						
1	Used/Spent Oil	5.1	8000 LPA	4500 LPA	12500 LPA	Collection, storage and selling to disposed to authorized reprocess or M/s Sri Laxminarayan Industries, Pidingoyyi, Rajahmundry Rural, East Godavari Dist.
2	ETP Sludge from Phosphoric acid	35.3	10 TPD	0	10 TPD	Recycle in Process

	plant					
3	ETP Sludge*	34.3	4 TPD	0	4 TPD	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)
4	Calcium Phosphate Sludge*	36.1	17 TPD	0	17 TPD	
Non-Hazardous/Industrial						
1	Filter Sludge (Nano Plant)	-	30 Kg/Day	0	30 Kg/Day	Mixed with water and reused for horticulture purpose or will be used as filler in bulk phosphatic fertilizer manufacturing facility.
2	Ash from coal Based boiler	-	165 TPD	0	165 TPD	Sent to cement industries
3	Empty barrels (used for non-hazardous material)	-	330 No/Annum	0	330 No/Annum	Sent to Authorized Recycler

*ETP Sludge & Calcium Phosphate Sludge is not being generated from Coromandel International Limited Kakinada Complex but from M/s Parry Sugars Refinery India Pvt. Ltd which is located abutting Coromandel Kakinada. As mentioned in CFO, ETP Sludge & Calcium Phosphate Sludge are being received by Coromandel Kakinada via M/s Andhra Pradesh Environment Management Corporation for utilization as filler material in existing granulation plants along with Dolomite

22. Public Hearing is exempted as per Para 7(ii)(a) of the EIA Notification, 2006, through F. No. IA3-22/10/2022-IA.III [E 177258], dated April 11, 2022.

23. PP reported details of Best Technology Adopted: The capacity enhancement in Train A and B will be achieved through the raw material route of Ammonium Sulphate. This approach will result in significant production as well as environmental benefits. Reduction in Ammonia Usage: Approximately 25% reduction, leading to a lower environmental impact and Reduction in Sulphuric Acid Usage: Approximately 75% reduction, minimizing the handling and associated risks of Sulphuric Acid.

24. PP reported that earlier, industry was having 295 acres of Green belt which has been reduced to 265 acres after taking prior EC from MoEF&CC and Forest Department. About 2102 nos of trees have been felled in 30 acres of land for installation of Phosphoric Acid plant, Sulphuric acid plant and Granulation plant. As per proposal compensatory plantation has started in four acres at the existing facility, approx. 5045 nos of trees have already been planted at site. Currently, plant is having 265 acres (47.13% of plot area) of Green belt. The same will be maintained after expansion.

25. PP reported the total manpower after Expansion will remain the same i.e., 2799 nos. Industry proposes to allocate Rs 4.49 crores towards CER.

26. PP reported the estimated project cost is Rs 2108.01 Crores including existing investment. Coromandel International Limited has spent Rs. 1504 Lakhs (Capital Cost) & Rs. 369 Lakhs/yr (Recurring Cost) in the last 2-3 years. Further in proposed expansion it is proposed to spend 3.35 crores (Excluding CER) towards capital Environmental Expenditure. The breakup of capital and recurring cost is as follows:

S. N.	Activity	Approximate capital cost (Rs. in Lakhs)	Approximate recurring cost per annum (Rs. in Lakhs)
1	Air pollution control schemes	265	36
2	Water pollution control schemes	-	-
4	Solid Waste Management	-	-

5	Environment monitoring and management	20	10
6	Occupational health	-	-
7	Greenbelt development	50	3
8	CER Activity	449	-
Total		784	49

27. Deliberations of the EAC:

The following points were discussed in the meeting:

(i) PP informed the pointwise compliance to the provisions under 7(ii) clause as per O M dated 11th April, 2022.

Sr. No.	Condition as per OM dated 11th April 2022	Compliance by the proposed proposal
i.	The project should have gone through the public hearing process, at least once, for its existing EC capacity on which expansion is being sought, except those categories of project which have been exempted as per para 7 III (i) of EIA notification 2006 and its amendments.	Complied. The latest public hearing for the project was carried out on 23.08.2023.
ii.	There should not be change in Category of the project from B2 to B1 or A due to proposed modernization or expansion.	Complied. The project falls under category A of schedule Item No 5(a) of the EIA notification. Post expansion it remains to be A category project under schedule Item No 5(a).
iii.	There is no additional land acquisition or forest land diversion involved for the proposed expansion or there is no increase in lease area with regards to mining vis-à-vis the area mentioned in the EC, based on which public hearing has been held earlier.	Complied. Proposed expansion is proposed within the existing plant premises. No additional land acquisition or forest land diversion is involved.
iv.	The proposed expansion shall not be more than 50% of the production capacity as mentioned in the prior EC, issued on the basis of public hearing held and the same shall be allowed in minimum three phases.	Complied. Proposed expansion is only 8.33%
V	Predict environmental quality parameters arising out of proposed expansion/modernization as per prescribed norms.	Complied. After proposed expansion, the environmental quality parameters will be within the prescribed norms.
vi	The project should have gone through the public hearing process, at least once, for its existing EC capacity on which expansion is being sought, except those categories of project which have been exempted as per para 7 III (i) of EIA notification 2006 and its amendments.	Complied. The latest public hearing for the project was carried out on 23.08.2023.
vii.	There should not be change in Category of the project from B2 to B1 or A due to proposed modernization or expansion.	Complied. The project falls under category A of schedule Item No 5(a) of the EIA notification. Post expansion it remains to be A category project under schedule Item No 5(a).
viii.	There is no additional land acquisition or forest land diversion involved for the proposed expansion or there is no increase in lease area with regards to mining vis-à-vis the area mentioned in the EC, based on which public hearing has been held earlier.	Complied. Proposed expansion is proposed within the existing plant premises. No additional land acquisition or forest land diversion is involved.
ix.	The proposed expansion shall not be more than 50% of the production capacity as mentioned in	Complied. Proposed expansion is only 8.33%

the prior EC, issued on the basis of public hearing held and the same shall be allowed in minimum three phases.

(ii) PP informed that the industry now proposes further expansion by increasing the production capacity of NP/NPK/DAP fertilizers by an additional 2.5 LMTPA in the existing A, B & C Train. This proposed expansion aims to enhance operational efficiency, optimize resource utilization, and support sustainable and energy-efficient production. This enhancement is distributed as follows:

- Train A: +0.75 LMTPA
- Train B: +0.75 LMTPA
- Train C: +1 LMTPA

Proposed Modification/Upgradation and Equipment Installation in A, B & C Train
Modification in Raw material usage in Train A & B
The capacity enhancement in Train AB will be achieved through the raw material route of Ammonium Sulphate. This approach will result in significant production as well as environmental benefits:

- Reduction in Ammonia Usage: Approximately 25% reduction, leading to a lower environmental impact.
- Reduction in Sulphuric Acid Usage: Approximately 75% reduction, minimizing the handling and associated risks of Sulphuric Acid.

Modification/Upgradation in Train C
To facilitate the proposed production increase, modifications and capacity enhancements in C Train will involve the installation of advanced process equipment to improve operational efficiency, process stability, and material handling. The key equipment additions are as follows:

- Pipe Reactor Feed Pump: Enhances the controlled feeding of phosphoric acid slurry into the reaction section, ensuring uniform processing and improved reaction efficiency.
- PST Pump (Pre-Scrubber Transfer Pump): Facilitates efficient transfer of the pre-neutralized phosphate-ammonia slurry from the reactor to downstream processing units.
- Fumes Fan: Optimizes the ventilation system to efficiently manage process emissions, reduce gas accumulation, and maintain safe operating conditions in the reactor and granulation sections.
- C&DD Fan (Cooler and Dedusting Fan): Improves airflow within the drying and coating sections, enhancing dust control and maintaining consistent product granule quality.
- Exit Dryer Conveyor: Enhances material flow and drying efficiency by ensuring uniform transport of granulated fertilizers from the drying unit to the screening and cooling sections.
- Recycle Conveyor: Facilitates controlled recirculation of oversized and undersized granules back into the granulation unit, optimizing particle size distribution and improving overall process efficiency.
- PA Pumps (Phosphoric Acid Pumps): Enhances precision in phosphoric acid metering and dosing into the reactor, ensuring controlled reaction kinetics and improved fertilizer composition.
- MST Pumps (Main Scrubber Transfer Pumps): Ensures efficient transfer of molten sulphur within the acidulation section, optimizing sulphuric acid utilization in the reaction process.

(iii) The following is the details after expansion:

S. No.	Particular	Unit	Details			Remarks
			As per EC	Proposed	Total after Expansion	
A.	AREA DETAILS					
1.	Total Plot Area	Acres	562.32			-
2.	Green Area	Acres	265 (47.13% of Total Plot Area)			-
B.	MANPOWER					
3.	Staff (Permanent)	No.	559	0	559	
4.	Staff (Contractual)	No.	2240	0	2240	No Change
5.	Total Manpower	No.	2799	0	2799	

	PLANT (GENERAL & SERVICE) DETAILS					
6.	Total Water Requirement	KLD	14153	250	14403	Increase
7.	Freshwater Requirement	KLD	13504	245.5	13749.5	Increase
8.	WASTEWATER GENERATION					
a.	Domestic Sewage	KLD	88.5	0	88.5	No Change
b.	Industrial Effluent	KLD	565	4.5	569.5	Increase
c.	Total Wastewater Generation	KLD	653.5	4.5	658	Increase

S. No.	Particular	Unit	As per EC	Proposed	Total after Expansion	Remarks
9.	Wastewater Treatment Unit	KLD	ETP- 1800** & STP- 100	0	ETP- 345 & STP- 100	Reduction in ETP Size
10.	Recycled Water	KLD	649	4.5	653.5	Increase
11.	Contract Demand (Power)	MW	26.5	0.4	26.9	Increase
12.	Power Backup (Emergency)	KVA	1x750; 5x1010	0	1x750; 5x1010	No Change
13.	Project cost including Environmental controlling equipment	Rs. (Crores)	2097.71	10.3	2108.01	Increase

(iv) PP informed that the existing scrubber will be upgraded by upgrading the scrubber pumps and its components. It was informed that no fuel will be increased.
(v) The Committee suggested that 30 m stack height will be provided to DG set 2 x 2020 KVA.
The committee was satisfied with the response provided by PP on above information.

The EAC constituted under the provisions of the EIA Notification, 2006 comprising expert members /domain experts in various fields, examined the proposal submitted by the PP in desired format along with the EIA/EMP reports prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the PP.

The EAC noted that the PP has given an undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP reports. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the PP.

The EAC noted that the EIA reports are in compliance with the ToR issued for the project, reflecting the present environmental status and the projected scenario for all the environmental components. The EAC deliberated on the proposed mitigation measures towards Air, Water, Noise and Soil pollutions. The EAC advised that the storage of toxic/explosive raw materials/products shall be undertaken with utmost precautions and following the safety norms and best practices.

The EAC deliberated on the Onsite and Offsite Emergency plans and various mitigation measures to be proposed during the implementation also of the project and advised the PP to implement the provisions of the Rules and guidelines issued under the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, as amended time to time, and the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996.

The EAC deliberated on the proposal with due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The expert members of the EAC found the proposal in order and recommended for grant of environmental clearance.

The EAC is of the view that its recommendation and grant of environmental clearance by the regulatory authority to the project/activity is strictly under the provisions of the EIA Notification 2006 and its subsequent amendments. It does not tantamount/construe to approvals/consent/permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The PP shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

28. The EAC, after detailed deliberations, recommended the project for the grant of environmental clearance, subject to the compliance of the terms and conditions as under, and general terms and conditions:

29. Minutes of the meeting may kindly be seen at https://parivesh.nic.in//utildoc/132619831_1753272333548.pdf

30. Based on the recommendations made by EAC in its 105th meeting held on 15-16th July 2025, the Ministry of Environment, Forest and Climate Change hereby accords Environmental Clearance for "**Expansion of Fertilizer Plants in Coromandel Kakinada Plant at Vakalapudi (V), Beach Road, Kakinada Rural, Kakinada District, Andhra Pradesh- 533003 by M/s Coromandel International Limited {Under Para 7(ii) (a) as per EIA Notification 2006, and subsequent amendments}** " under the provisions of the EIA Notification, 2006, and the amendments therein, subject to compliance of the Specific and General terms and conditions as mentioned at Annexure-1.

31. The Ministry reserves the right to stipulate additional conditions, if found necessary. The Environmental Clearance to the aforementioned project is under provisions of EIA Notification, 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes, as applicable, to the project. The Project Proponent is under obligation to implement commitments made in the Environment Management Plan, which forms part of this EC

32. General Instructions:

(a) The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEF&CC/SEIAA website where it is displayed.
(b) The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
(c) The project proponent shall have a well laid down environmental policy duly approved by the Board of Directors (in case of Company) or competent authority, duly prescribing standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions.
(d) Action plan for implementing EMP and environmental conditions along with responsibility matrix of the project proponent (during construction phase) and authorized entity mandated with compliance of conditions (during perational phase) shall be prepared. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Six monthly progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.
(e) Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
(f) The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
(g) Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

This issues with the approval of the Competent Authority

Copy To

1. Inspector General of Forests, Ministry of Environment, Forest and Climate Change, Integrated Regional Office, Vijayawada Green House, Gopalareddy Road, Vijayawada – 520010, Andhra Pradesh.

2. The Special Chief Secretary, Environment, Forests, Science & Technology Department, Andhra Pradesh Secretariat, Velagapudi, Amaravati-522503.

3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi-110032.

4. The Member Secretary, Andhra Pradesh Pollution Control Board, Paryavaran Bhavan, APIIC Colony Road, Gurunanak Colony, Autonagar, Vijayawada- 520007.

5. The Member, Central Ground Water Authority, 18/11, Jamnagar House, Mansingh Road, New Delhi – 110011.

6. The District Collector, East Godavari District Collectorate, 5&8, National Highway 16, Dowlaiswaram Industrial Estate, Industrial Estate, Dhavaleswaram, Rajamahendravaram, Andhra Pradesh 533125.

7. Guard File/Monitoring File/Website/Record File/Parivesh portal.

Annexure 1

Specific EC Conditions for (Chemical Fertilizers)

1. Specific Conditions

S. No	EC Conditions
1.1	(i) Wet Scrubber alongwith stack height of 30m shall be provided to Nano (3 stacks) to control ammonia emission. Venturi/Cyclon e Scrubber + Fumes Scrubber (Dry/Wet Scrubber) + Tail Gas Scrubber with Mis Eliminator alongwith stack height of 65 m shall be provided to Train H to control particulate emissions; ammonia and total fluoride. Wet scrubber alongwith stack of 45 m shall be provided bagging plant. Wet scrubber alongwith stack of 43 m shall be provided Screen House Plant -4. ESP alongwith 60 m stack height shall be provided to 65 TPH coal based boiler. Stack height of 30 m shall be provided to DG set (2x 1010KVA).
1.2	(ii) Total fresh water requirement from Public Health Engineering Department, Government of Andhra Pradesh shall not exceed 13749.5 m^3/day.
1.3	(iii) NOC from the Concerned Local authority shall be obtained before start of the construction of plant for drawing of the water for the project activities, State Pollution Control Board / Pollution Control Committees shall not issue the Consent to Operate (CTO) under Air (Prevention and Control of Pollution) Act and Water (Prevention and Control of Pollution) Act till the project proponent shall obtain such permission.

S. No	EC Conditions
1.4	(iv) Total effluent generation shall not exceed 658 KLD (Industrial Effluent- 569.5 KLD; Domestic Sewage 88.5KLD). Industrial effluent shall be treated in the ETP and recycled/reuse in process. Domestic sewage shall be treated in the STP and treated water will be used in gardening. No effluent shall be discharged outside the plant and Zero Liquid discharge system shall be maintained.
1.5	v) The PP shall maintain greenbelt of at least 10 m width over an area of **265 Acres (as committed by PP)** within the project site, preferably within a year of the grant of EC. As proposed 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. The budget earmarked for the plantation shall be kept in a separate account and should be audited annually. The PP 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 Regional Office of MoEF&CC before 1st July of every year for the activities carried out during previous year.
1.6	(vi) A separate Environmental Management Cell (having qualified person with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions. In addition to this one safety & health officer as per the qualification given in Factories Act 1948 shall be engaged within a month of grant of EC. PP should annually submit the audited statement of amount spent towards the engagement of qualified persons in EMC along with details of person engaged to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during previous year.
1.7	(vii) The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented. The budget proposed for expansion under EMP is 784.00 lakhs (Capital cost) and 49 lakhs per annum (Recurring cost) shall be kept in separate account and should be audited annually. The PP should submit the annual audited statement along with proof of implementation of activities proposed under EMP duly supported by photographs (before & after with geo-location date & time) and other document as applicable to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during previous year.
1.8	(viii) No banned chemicals shall be manufactured by the project proponent. No banned raw materials shall be used in the unit. The project proponent shall adhere to the notifications/guidelines of the Government in this regard.
1.9	(ix) The project proponent shall comply with the environment norms for Fertlizer Industry as notified by the Ministry of Environment, Forest and Climate Change, vide GSR 1607 (E), dated

S. No	EC Conditions
	29.12.2017 under the provisions of the Environment (Protection) Rules, 1986.
1.10	(x) The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.
1.11	(xi) All the hazardous waste shall be managed and disposed as per the HWM Rules 2016. Spent oil shall be sent to authorized recyclers. ETP sludge from phosphoric plant shall be recycled in process. Solid waste shall be segregated into dry and wet garbage at site in accordance to the Solid Waste Management Rules, 2016. Wet waste shall be converted into compost and used as manure for greenbelt development. Fly ash shall be collected in silo and sent to cement industries.
1.12	(xii) All necessary precautions shall be taken to avoid accidents and action plan shall be implemented for avoiding accidents. The project proponent shall implement the onsite/offsite emergency plan/mock drill etc. and mitigation measures as prescribed under the rules and guidelines issued in the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, as amended time to time, and the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996. The occupier of new as well as expansion projects shall be required to comply with the provisions of the MSHIC Rules, 1989 including notifying their activities or seeking site approval from the concerned authorities, to address operational safety aspects. In doing so, various schedule, particularly Schedule-5 of the said rules may be referred.
1.13	(xiii) The activities and the action plan proposed by the project proponent to address the issues raised during the public hearing as well as the related socio-economic issues in the study area shall be completed as per the schedule presented before the Committee and as described in the EIA report in letter and spirit.
1.14	(xiv) The volatile organic compounds (VOCs)/Fugitive emissions shall be controlled at 99.97 % with effective chillers/modern technology. Regular monitoring of VOCs shall be carried out.
1.15	(xv) Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB servers. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.
1.16	(xvi) The storage of toxic/hazardous raw material shall be bare minimum with respect to quantity

S. No	EC Conditions
	and inventory. Quantity and days of storage shall be submitted to the Regional Office of Ministry and SPCB along with the compliance report.
1.17	(xvii) The occupational health centre for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.
1.18	(xviii) Training shall be imparted to all employees on safety and health aspects for handling chemicals. Safety and visual reality training shall be provided to employees. Action plan for mitigation measures shall be properly implemented based on the safety and risk assessment studies.
1.19	(xix) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms.
1.20	(xx) The solvent management shall be carried out as follows: (a) Reactor shall be connected to chilled brine condenser system. (b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages. (c) Solvents shall be stored in a separate space specified with all safety measures. (d) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done. (e) Entire plant shall be fire proof. The solvent storage tanks shall be provided with breather valve to prevent losses. (f) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.
1.21	(xxi) The storm water from the roof top shall be channelized through pipes to the storage tank constructed for harvesting of rain water in the premises and harvested water shall be used for various industrial processes in the unit. No recharge shall be permitted within the premises. Process effluent/ any wastewater shall not be allowed to mix with storm water.
1.22	(xxii) The PP shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapor recovery system. (f) Use of high pressure-hoses for equipment cleaning to reduce wastewater generation.
1.23	PP shall sensitize and create awareness among the people working within the project area as well as its surrounding area on the ban of Single Use Plastic in order to ensure the compliance of Notification published by MOEFCC on 12th August, 2021. A report along with photographs on the

S. No	EC Conditions
	measures taken shall also be included in the six-monthly compliance report being submitted to concerned authority.

Standard EC Conditions for (Chemical fertilizers)

1.

S. No	EC Conditions
1.1	No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA, as applicable. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
1.2	The Project proponent shall strictly comply with the rules and guidelines issued under the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, as amended time to time, the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996, and Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016 and other rules notified under various Acts.
1.3	The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.
1.4	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
1.5	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. The activities shall be undertaken by involving local villages and administration. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
1.6	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.
1.7	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.
1.8	The project proponent shall also upload/submit six monthly reports on Parivesh Portal on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data to the respective Integrated Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report

S. No	EC Conditions
	shall be posted on the website of the company.
1.9	The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Integrated Regional Office of MoEF&CC by e-mail.
1.10	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry and at https://parivesh.nic.in/. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.
1.11	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.
1.12	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.

Additional EC Conditions

N/A

Signature Not Verified

Digitally Signed by : Mr A N Singh
Member Secretary, MoEFCC (EC)

Date: 10/08/2025