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File No: J-11011/664/2008-IA-II(I)
Government of India
Ministry of Environment, Forest and Climate Change
IA Division
****

Date **10/03/2025**

To,

U R Singh
chambal fertilisers and chemicals ltd
P.O. Gadepan, Kota, Rajasthan, Gadepan, KOTA, RAJASTHAN, 325208
brajendra.singh@chambal.in

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/RJ/IND3/518192/2025 dated 21/01/2025 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.	EC25A1903RJ5959224N
(ii) File No.	J-11011/664/2008-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 Ammonia, Urea, Technical Ammonium Nitrate, Concentrated Nitric Acid Production, Captive Power Generation and HRSG within CFCL'S Existing Premises at P.O. Gadepan, District-Kota, Rajasthan
(viii) Name of Company/Organization	chambal fertilisers and chemicals ltd
(ix) Location of Project (District, State)	KOTA, RAJASTHAN
(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 under 7 (ii) (a) of EIA Notification, 2006 as per OM dated 11.04.2022 for expansion of Ammonia, Urea, Technical Ammonium Nitrate, Concentrated Nitric Acid Production, Captive Power Generation and HRSG within CFCL'S Existing Premises at P.O. Gadepan, District-Kota, Rajasthan by M/s Chambal Fertilisers and Chemicals Limited (CFCL).

4. The proposed project falls under item no 5(a) Category 'A' i.e. Chemical Fertilizer as per the EIA notification, September 14, 2006 (as amended time to time), and require prior Environmental Clearance from MoEF&CC, New Delhi as well, the proposal involving increasing Captive Power Generation from 55 MW to 63 MW, shall also be considered under minor category 1(d), i.e., Thermal power plants, Category 'B' of EIA notification, 2006.
The proposed expansion under Para 7(ii) (a) complies with the 20% expansion limit as stipulated under the original Environmental Clearance (EC) granted in accordance with Para 7(ii) (i) of the EIA Notification, 2006. This expansion falls under scenario 5(ii) as outlined in the Office Memorandum (OM) dated 11.04.2022. The proposed modifications include an increase in capacity for Technical Ammonium Nitrate (TAN) by 10%, Concentrated Nitric Acid (CAN) by 10%, Ammonia by 6.55%, Urea by 2.77%, CPP by 14.55% and HRSG by 1.66% compared to the original EC.

5. The proposal has been placed in the 94th EAC meeting 29-30th January 2025 wherein the Project Proponent M/s Chambal Fertilisers and Chemicals Limited (CFCL) and the accredited Consultant M/s EQMS Global Pvt. Ltd. (NABET Accreditation No. NABET/EIA/2225/RA0303 valid till 23.11.2025) made a detailed presentation on the salient features of the project and informed the following.

6. PP reported that Existing CFCL complex land area is 400 Hectares. Proposed expansion shall be done within the existing premises.

The details of products and capacity as under:

List of Products						
S. No.	Product	Unit	As per EC granted	Proposed Additional	After Expansion	Remark
1	Weak Nitric Acid (WNA)* as 100wt%	MTPD	700	0	700	Existing Products- No Change
2	Technical Ammonium Nitrate (TAN) as 100wt% (Melt / HDAN / LDAN) **	MTPD	700	70	770	Increase by 10%
3	Concentrated Nitric Acid (CNA) as 100wt%	MTPD	150	15	165	Increase by 10%
4	Ammonia	MTPD	6100	400	6500	Increase by 6.55%
5	Urea	MTPD	10800	300	11100	Increase by 2.77%
6	Captive Power	MWH	55	8	63	Increase by 14.55%
7	Steam (HRSG)	TPH	240	4	244	Increase by 1.66%
8	Steam (Boiler)	TPH	320	0	320	Existing Products- No Change
** Weak Nitric Acid (WNA) will be used as raw material for Ammonium Nitrate. Surplus if any will be sold as Weak Nitric Acid (WNA) and/or Concentrated Nitric Acid (CNA).*						
*** Ammonium Nitrate (AN) solution will be Prilled to manufacture High-density Ammonium Nitrate (HDAN) and / or*						

List of Products						
S. No.	Product	Unit	As per EC granted	Proposed Additional	After Expansion	Remark
Low-density Ammonium Nitrate (LDAN) in quantities as per market demand. It may also be sold as Ammonium Nitrate (AN) Melt. Melt/HDAN/LDAN capacity will be 770 MTPD.						

7. PP reported the unit has valid Consent to Operate for the production of Ammonia, Urea, Power Generation, Steam from HRSG (CPP), and Steam generation from the Auxiliary Boiler, as per File No. F(Tech)/Kota (Digod)/6398(1)/2021-2022/5824-5826, dated 21st January 2022, which is valid until 31st December 2026.
An Environmental clearance was taken from MoEF&CC for Installation of Technical Ammonium Nitrate Project vide File No. J-11011/664/2008-IA-II(I) dated 23.12.2022.
Additionally, Consent to Establish (CTE) for the Technical Ammonium Nitrate Plant was obtained from RSPCB under File No. F(Tech)/Kota(Digod)/6414(1)/2023-2024/1726-1728, dated 15th June 2023.
PP reported construction at the site is currently ongoing in accordance with the existing Environmental Clearance and the CTE for the Technical Ammonium Nitrate and Weak Nitric Acid unit.
PP has submitted the copy of Certified Compliance Report (CCR) dated 25.04.2024 obtained from the Integrated Regional Office (IRO), MoEF&CC after a site visit conducted on 10.04.2024. The CCR, issued on, confirmed 100% compliance with the conditions of the existing EC, including commitments made during the public hearing held on 22.07.2022.
Recently, Environmental clearance was obtained for Expansion of Weak Nitric Acid in Technical Ammonium Nitrate Project within CFCL's Existing Premises from MoEF&CC vide letter no. J-11011/664/2008-IA-II(I) dated 14.08.2024.
As per MoEF&CC OM vide F. No. IA3-22/10/2022-IA.III [E 1772581] dated 08.06.2022, Self-certified six monthly Compliance Report for the latest EC shall be sufficient if the project proponent applies for expansion within a period of six months from the grant of previous EC.
PP reported CFCL is proposing to expand the production capacity of Ammonia, Urea, Technical Ammonium Nitrate (TAN), Concentrated Nitric Acid (CNA), Captive Power Generation and HRSG at their Gadepan complex, which includes Plants I, II, and III. All three plants are Natural gas-based plants using different technologies. The Ammonia-III plant at Gadepan-III, based on KBR Purifier Technology. CFCL plans to boost ammonia production by debottlenecking of plant as per the study done by process licensor i.e. KBR and Topsoe. This will involve utilizing excess purge gas from Gadepan-I and Gadepan-II, installing an additional converter & synthesis gas heat recovery system in Gadepan-III, and a low-pressure air compressor, as well as upgrading the CO2 removal section in Gadepan-II. Furthermore, the concentration of ammonia will be raised from 18.25% to 22%. As a result, CFCL proposes to increase ammonia production from 6100 MTPD to 6500 MTPD and urea production from 10,800 MTPD to 11,100 MTPD.
Also, CFCL's proposal to expand the capacity of Technical Ammonium Nitrate (TAN) from 700 to 770 MTPD and Concentrated Nitric Acid (CNA) from 150 to 165 MTPD is based on the design margin available in operating equipment of TAN & CNA Plant. Detailed engineering analysis has indicated that there is a margin available for capacity enhancement. The main raw material for manufacturing TAN is Ammonia and Nitric Acid. Nitric acid shall be manufactured within the battery limit and Ammonia shall be taken from existing CFCL plants.

8. PP has submitted the point wise compliance to OM dated 11th April, 2022:

S.N.	Condition as per OM dated 11th April 2022	Compliance by the proposed proposal
1	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.	The latest public hearing for the project was carried out on 22.07.2022.
2	There should not be change in Category of the project from B2 to B1 or A due to proposed modernization or expansion.	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).
3	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	Proposed expansion is proposed within the existing plant premises. No additional land acquisition or forest land diversion is involved.

	public hearing has been held earlier.	
4	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.	Proposed expansion quantity is less than 20% of production.
5	Predict environmental quality parameters arising out of proposed expansion/modernization as per prescribed norms.	After proposed expansion, the environmental quality parameters will be within the prescribed norms.
6	The proposed expansion should not result in reduction in the greenbelt area as stipulated in the earlier EC, or if the existing ratio of greenbelt is more than 33%, after expansion it should not reduce below 33%.	The greenbelt of the project remains same as stipulated in the earlier EC.
7	The project proponent should have satisfactorily complied the conditions stipulated in the existing ECs) and satisfactorily fulfilled all the commitments made during the earlier public hearing/consultation proceedings and also the commitments given while granting previous expansion, as may be applicable. This shall be duly recorded in the certified compliance report issued by the IRO/CPCB/SPCB, which should not be more than one year old at the time of submission of application.	As per MoEF&CC OM vide F. No. IA3 22/10/2022-IA.III [E 1772581] dated 08.06.2022, Self-certified six monthly Compliance Report for the latest EC shall be sufficient if the project proponent applies for expansion within a period of six months from the grant of previous EC. The latest environmental clearance was granted on 14.08.2024, thus, we are hereby attaching the self-certified compliance report of existing EC.
8	Public consultation shall be undertaken (if applicable as per table below) by obtaining response in writing, as per para 7III (ii) (b) of EIA notification 2006, except those categories of projects which have been exempted as per para 7III (i) of EIA notification 2006 and its amendments.	Not Applicable
9	Effluent monitoring, including air quality monitoring systems as specified in the existing EC, if stipulated, should have been installed.	Complied.

9. PP reported there are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km distance from the project site. However, there are some protected and reserved forests patches present within the study area. The nearest Protected Forest is located about 1.6 km east of the plant site. There are two rivers flowing in the study area namely Parwan River located about 2.22 km in SE direction and Kali Sindh River are located about 2.40 km in east direction from plant site.

10. PP reported Ambient air quality monitoring was carried out at eight (8) locations during 1st December 2021 to 28th February 2022 and the baseline data indicates the range of concentration as: PM2.5 (18 µg/m3 to 48 µg/m3), PM10 (52 µg/m3 to 89 µg/m3), SO2 (6.1 µg/m3 to 12.7 µg/m3), NOx (10.2 µg/m3- 30.3 µg/m3) and CO (0.51 mg/m3-0.91 mg/m3). No additional stacks proposed. AAQ modelling study for point source emissions considering the additional incremental of the undergoing TAN installation plant based on maximum permissible limit indicates that the maximum incremental GLCs after proposed project would be 3.0 µg/m3, 1.2 µg/m3, 8.8 µg/m3 & 4.5 µg/m3 for PM10, PM2.5, NOx & NH3. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

11. PP reported total freshwater requirement of project after expansion will be 56204 KLD which will be sourced from Kalisindh River.

12. Total effluent generation will increase from 12,746 KLD to 12,952 KLD. The effluent generation from the fertilizer unit will increase from 11,305 KLD to 11,511 KLD, the same will be treated in the existing treatment unit. The effluent generation from the existing fertilizer plant is treated in respective treatment facilities (ETP, RO-ZLD Plant). G-III effluent is treated in RO-ZLD Plant and permeates it is recycled as cooling water make up. Treated effluent from G-I and G-II Plants is used for irrigation in green belt within CFCL's premises or discharged into River Kalisindh only during

rainy season as prescribed in amended EC dated 16/11/2021 and the industrial effluent generation from TAN Plant will be 1441 KLD, out of which 1440 KLD wastewater will be treated in the newly installed ZLD unit and recycled as cooling water make-up. The remaining 1 KLD oily wastewater effluent generated mainly from rotary equipment from the TAN plant will be collected and routed to oil separator in the existing ETP for oil separation. approx. 20 KLD domestic effluent will be generated after operation of TAN plant. The total domestic effluent will 1292 KLD which will be treated in existing Sewage treatment plants and further disposal into irrigation network within the CFCL premises. The total effluent increase due to proposed expansion (206 KLD) shall be treated in existing RO-ZLD plant

13. The total power requirement for the unit is 63 MW (55 MW for the Fertilizer plant and 8 MW for the TAN Plant). The power requirement of the existing fertilizer plant (55 MW) is being met by an in-house Captive power plant. The power is being generated by Natural gas-based turbine. The flue gas from turbine is being used as feedstock in HRSG to generate steam for plant operations. Plants also have additional sources of power supply from the state grid for backup. For the TAN Plant, the power requirement will increase from 5 MW to 8 MW. It is proposed to install an additional 8 MW of CPP through Gas Engine Generator & Heat Recovery Steam Generation System to ensure power reliability to the entire set-up as well as provide flexibility to cater various scenarios of plant operations. Captive power generation will be prioritized followed by minimal power drawn from the state grid. Emergency power generator sets of 1.6 MW, 2.5 MW, 2.4 MW and 1.2 MW capacity are installed to keep the most essential equipment inline in the event of temporary power failure and to provide a safe shutdown of the plants in case of prolonged power failure.

14. Details of Process emissions generation and its management

Particular	Stack Height (m)	Air Pollution Control System	Parameter & Limits as per RSPCB
Existing			
Auxiliary Boiler-I (80 TPH)	30	Natural gas fired boilers having adequate stack height.	NOx < 50 ppm
Auxiliary Boiler-II (80 TPH)	30		NOx < 50 ppm
HRSG-I (70 TPH)	30	Natural gas fired waste heat recovery boilers having adequate stack height	NOx < 100 ppm
HRSG-II (70 TPH)	30		NOx < 100 ppm
Prilling Tower-I	104	Natural draft prilling tower having adequate height	PM< 50 mg/Nm3 NH3 < 175 mg/Nm3
Primary Reformer-Ammonia-I	40	Natural gas fired reformer having adequate stack height	NOx < 400 mg/Nm3
EDG Set (1.6 MW)	19	Adequate stack height	PM< 75 mg/Nm3 NMHC< 150 mg/Nm3 CO< 150 mg/Nm3 NOx< 1100 ppm
Auxiliary Boiler No. III (160TPH)	35	Natural gas fired boiler having adequate stack height.	NOx < 50 ppm
Prilling Tower-II	118	Natural draft prilling tower having adequate height	PM< 50 mg/Nm3 NH3 < 175 mg/Nm3
Primary Reformer -Ammonia-II	55	Natural gas fired reformer having adequate stack height	NOx < 400 mg/Nm3
EDG Set (2.5 MW)	30	Adequate stack height	PM< 75 mg/Nm3 NMHC< 150 mg/Nm3 CO< 150 mg/Nm3 NOx< 1100 ppm
HRSG CPP (100 TPH)	43.5	- Natural gas fired waste heat recovery boiler having	NOx < 100 ppm

Particular	Stack Height (m)	Air Pollution Control System	Parameter & Limits as per RSPCB
		adequate stack height	
Prilling Tower-III	141.5	Natural draft prilling tower having adequate height	PM< 50 mg/Nm3 NH3 < 175 mg/Nm3
Primary Reformer -Ammonia-III	53.8	Natural gas fired reformer having adequate stack height	NOx < 400 mg/Nm3
EDG Set (2.4 MW)	30	Adequate stack height	PM< 75 mg/Nm3 NMHC< 100 mg/Nm3 CO< 150 mg/Nm3 NOx< 710 ppm
Dedusting- G-I	37	Scrubber Packing Plant	PM< 150 mg/Nm3
Dedusting - G-II	35.73	Scrubber Packing Plant	PM< 150 mg/Nm3
Dedusting Unit - G-III	37	Scrubber Packing Plant	PM< 150 mg/Nm3
Dedusting Unit Screen House	27.80	Scrubber Screen House	PM< 150 mg/Nm3
Dedusting Unit-G-III Screen House	34	Scrubber Screen House	PM< 150 mg/Nm3

Particular	Stack Height (m)	Air Pollution Control System	Parameter & Limits as per RSPCB
Being Installed			
Tail Gas Stack (in Weak Nitric Acid Plant)	52	NOx Abatement system	NOx < 400 mg/Nm^3
Prilling Plant vent & TAN Stack	60	Scrubber	PM< 100 mg/Nm^3, NH3< 150 mg/Nm^3
Concentrated Nitric Acid	30	Scrubber	NOx < 400 mg/Nm^3
Emergency Diesel Generator (1.2 MW)	30	Non-continuous Emission	PM< 75 mg/Nm^3 NMHC< 100 mg/Nm^3 CO< 150 mg/Nm^3 NOx< 710 ppm
Additional Stack in Proposed Expansion			
Gas Engine (NG Based)	30	Adequate Stack Height	NOx < 100 ppm
HRSG (CPP) (4 TPH)	30	Adequate Stack Height	NOx < 100 ppm

15. Details of Solid waste/ Hazardous waste generation and its management

Sr. No	Name of Waste	Source of Generation	Category	As per EC	After Expansion	Disposal Method	Remarks
1	Discarded containers, drums	Receipt, storage and handling of raw / packing materials	Sch-I/33.1	1500 nos. per year	1500 nos. per year	Authorized TSDF	No Change
2	Used/Spent Oil	Process / rotary machines / transformers	Sch-I/5.1	127 MTPA	127 MTPA	Collection in drums, storage, transportation and sales to authorized recyclers	
3	Spent Catalyst	Process	Sch-I/18.1	660.1 MTPA	660.1 MTPA	Regeneration through Catalyst supplier /	

Sr. No	Name of Waste	Source of Generation	Category	As per EC	After Expansion	Disposal Method	Remarks
						Recycle through authorized catalyst recycler	
4	NOx abatement Spent Catalyst	Nitric Acid Plant	Sch-I/18.1	10 MT in 5 years	10 MT in 5 years	To authorized recyclers / authorized TSDF	
5	Chemical sludge from wastewater treatment	Wastewater treatment schemes	Sch-I/35.3	17900 MTPA	17900 MTPA	Chemical Sludge from wastewater treatment scheme is being disposed to cement plants for co-processing / authorized TSDF	
6	Contaminated cotton waste or other cleaning materials	Maintenance and cleaning activities	Sch-I/33.2	17 TPA	17 TPA	Collection, storage and transportation to Common incinerator	
There will not be increase the Waste generation.							

16. PP reported that Public hearing is not applicable to the project as application is being submitted under para 7(ii) of EIA Notification, 2006.

17. PP reported Industry has already developed greenbelt in an area of 136.5 ha i.e., about 34.1% of the total plot area of the CFCL Complex.

18. PP reported the revised cost of for proposed project after expansion is Rs 11815.8 Crores. No additional capital EMP cost is involved for the proposed expansion through debottlenecking. Total capital cost earmarked towards environmental pollution control measures for under installation of TAN & CPP plant is Rs. 22 Crores and the recurring cost (operation and maintenance) will increase to Rs. 7.65 crores/annum. Breakup of capital cost and recurring cost per annum for implementation of EMP is as given below:

S No.	Particular	Additional Capital Cost (INR Crores) (for under installation TAN Plant)	Recurring Cost (INR Crores/year) for complete CFCL complex
1	Air Pollution Controlling Equipment	6	0.4
2	Water Pollution Controlling Equipment	15	5.1
3	Solid & Hazards Handling	0.1	0.5
4	Occupational Health and Safety	0.2	1.3
5	Green belt	0.7	0.35
	Total	22 Crores	7.65 Crores

19. Total Employment will be 2718 persons as direct & indirect after proposed project. Industry proposes to allocate Rs. 4.5 Crores towards Corporate Environment Responsibility (CER).

S. No.	Activity	Amount Allocated (in Rs.)
1.	Total Cost	Rs. 11770.84 Crores
2.	EMP Cost (capital for TAN & CPP installation plant)	Rs. 22 Crores
3.	EMP Recurring Cost (for complete CFCL complex after expansion)	Rs. 7.65 Crores per year

4.	CSR/CER/ESC Cost	Rs. 4.5 Crores
5.	Conservation Plan	Rs. 20 Lakhs

20. Deliberations of the EAC:

(i) The Committee noted that the primary Environmental Clearance (EC) for the installation of the TAN plant (including TAN, WNA & CNA product) under Para 7(i) was granted by the MoEF&CC vide F. No. J-11011/664/2008-IA-II(I) on 23.12.2022. The public consultation for the project was conducted on 22.07.2022. Further, Environmental Clearance was granted vide F. No. J-11011/664/2008-IA-II(I) dated 14.08.2024 under Para 7(ii) for the expansion of Weak Nitric Acid capacity from 600 MTPD to 700 MTPD. PP informed that CFCL plans to boost ammonia production by debottlenecking of plant as per the study done by process licensor i.e. KBR and Topsoe. This will involve (i) utilizing excess purge gas from Gadepan-I and Gadepan-II, (ii) installing an additional converter & synthesis gas heat recovery system in Gadepan-III, and (iii) a low-pressure air compressor, as well as upgrading the CO2 removal section in Gadepan-II.

(ii) Due to raising of the concentration of ammonia from 18.25% to 22% by additional converter in Gadepan-III Ammonia Plant, CFCL proposes to increase ammonia production from 6100 MTPD to 6500 MTPD and urea production from 10,800 MTPD to 11,100 MTPD.

(iii) CFCL's proposal to also expand the capacity of Technical Ammonium Nitrate (TAN) from 700 to 770 MTPD and Concentrated Nitric Acid (CNA) from 150 to 165 MTPD is based on the design margin available in operating equipment of TAN & CNA Plant.

(iv) The existing captive power generation is 55 MW which is being generated through Gas Turbines & Heat Recovery Steam Generation System. Now due to the installation of TAN plant, the power requirement of complex is increasing from 55 MW to 63 MW. Thus, it is proposed to install an additional 8 MW of CPP through Gas Engine Generator & Heat Recovery Steam Generation System to ensure power reliability to the entire set-up as well as provide flexibility to cater various scenarios of plant operations.

(v) The flue gas from the gas engine will be used as feedstock in the new HRSG of 4 TPH to generate steam for plant operations.

(vi) The proposed modifications include an increase in capacity for Technical Ammonium Nitrate (TAN) by 10%, Concentrated Nitric Acid (CNA) by 10%, Ammonia by 6.55%, Urea by 2.77%, CPP by 14.55% and HRSG by 1.66% compared to the original EC.

(vii) PP informed that EC dated 14.08.2024 was issued for expansion of 20 % of the production capacity in which, one of the product namely Weak Nitric Acid is increased. However, unit has not utilized completely expansion of 20% of the production capacity as several other products are also being manufactured. Now, PP has intended to utilize 20 % of the remaining production capacity under Para 7(ii) complying with the 20% expansion limit as stipulated under the original Environmental Clearance (EC) granted in accordance with Para 7(i) of the EIA Notification, 2006. This expansion falls under Scenario 5(ii) as outlined in the Office Memorandum (OM) dated 11.04.2022. The proposed modifications include an increase within 20% of the production capacity for following products compared to the original EC

S. No.	Product	Unit	File No. J-11011/664/2008-IA-II(I) dated 22.06.2015 & dated 23.12.2022 (Application under Para 7(i))	File No. J-11011/664/2008-IA-II(I) dated 14.08.2024 (Application under Para 7(ii))		Proposed After Expansion (Application under Para 7(ii))		Remark
1	Weak Nitric Acid (WNA)* as 100wt%	MTPD	600	700	16.6% increase (increment of 100 MTPD)	700	0%	The capacity of Weak Nitric Acid (WNA) was increased by 16.6% compared to the original EC granted in 2024. This revision was approved under Para 7(i) dated 23.12.2022, and no further increase is proposed under the current expansion.
2	Technical Ammonium Nitrate (TAN) as 100wt% (Melt / HDAN / LDAN)	MTPD	700	700	0%	770	10% increase (increment of 70 MTPD)	A 10% increase in TAN capacity is proposed under the current expansion compared to the EC granted under Para 7(i) dated 23.12.2022, aligning with the 20% limit under Para 7(ii).
3	Concentrated Nitric Acid (CNA) as 100wt%	MTPD	150	150	0%	165	10% increase (increment of 15 MTPD)	A 10% increase in CNA capacity is proposed under the current expansion compared to the EC granted under Para 7(i) dated 23.12.2022, adhering to the permissible limits under Para 7(ii).
4	Ammonia	MTPD	6100	6100	0%	6500	6.55% increase (increment of 400 MTPD)	The proposed expansion includes a 6.55% increase in Ammonia capacity compared to the original EC granted in 2015, remaining within the limits prescribed under Para 7(ii).
5	Urea	MTPD	10800	10800	0%	11100	2.77% increase	A 2.77% increase in Urea capacity is

S. No.	Product	Unit	File No. J-11011/664/2008-IA-II(I) dated 22.06.2015 & dated 23.12.2022 (Application under Para 7(i))	File No. J-11011/664/2008-IA-II(I) dated 14.08.2024 (Application under Para 7(ii))		Proposed After Expansion (Application under Para 7(ii))		Remark
							(increment of 300 MTPD)	proposed under the current expansion compared to the original EC granted in 2015, falling well within the 20% limit under Para 7(ii).
6	Captive Power	MWH	55	55	0%	63	14.50%	A 14.5% increase in CPP capacity is proposed under the current expansion compared to the original EC granted in 2015, falling well within the 20% limit under Para 7(ii).
7	Steam (HRSG)	TPH	240	240	0%	244	1.66%	A 1.66% increase in Steam capacity is proposed under the current expansion compared to the original EC granted in 2015, falling well within the 20% limit under Para 7(ii).
8	Steam (Boiler)	TPH	320	320	0%	320	0%	No Change
All proposed increases respect the cumulative 20% threshold set under the Scenario 5(ii) of OM dated 11.04.2022.								

(viii) PP informed that Gaddapan village (population 3299) and Ballabhpura village (population :1097) adjoining to the boundary of project site. It is reported that 100 m thick greenbelt has been provided towards Ballabhpur village and 170 m thick greenbelt has been provided towards Gadapen village as environmental safeguards.

(ix) Regarding safety measures adopted for Chlorine storage, PP informed that interlocking with exhaust system is provided at all four locations of the chlorination building, which is an important safety measures for mitigation in case of chlorine leakage. They have also provided suction devise followed by channelization and scrubbing system. PP informed that at CFCL site ammonia is stored in atmospheric double integrity storage tanks. Adequate care has been taken at design stage of minimize the risk. Ammonia detectors have been installed at 7 places to detect ammonia leakage. Arrangement of water spray at tank top and water curtains around compressors house, ammonia transfer pumps and B/L isolation valves to control leakage of ammonia at site. PP submitted the copy of External safety audit report 2023 reported to Chief Inspector of Factories & Boilers.

(x) PP submitted latest ground water monitoring report.

(xi) PP submitted the copy of revised water balance after expansion. PP informed that total 30 cusec i.e. 73.440 KLD water supply permission is available as per agreement dated 07.05.2012 between Water Resource Department.

(xii)PP informed that the following additional pollution control system to be installed:

Particular	Stack Height (m)	Air Pollution Control System	Parameter & Limits as per RSPCB
Tail Gas Stack (in Weak Nitric Acid Plant)	52	NOx Abatement system	NOx < 400 mg/Nm^3
Prilling Plant vent & TAN Stack	60	Scrubber	PM< 100 mg/Nm^3, NH3< 150 mg/Nm^3
Concentrated Nitric Acid	30	Scrubber	NOx < 400 mg/Nm^3
Emergency Diesel Generator (1.2 MW)	30	Non-continuous Emission	PM< 75 mg/Nm^3 NMHC< 100 mg/Nm^3 CO< 150 mg/Nm^3 NOx< 710 ppm
Gas Engine (NG Based)	30	Adequate Stack Height	NOx < 100 ppm
HRSG (CPP) 4 TPH	30	Adequate Stack Height	NOx < 100 ppm

The committee was satisfied with the response provided by PP on above information.

The EAC deliberated the Onsite and Offsite Emergency plans and also the various mitigation measures proposed during the implementation 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, and the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996, as amended from time to time.

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 Experts Members of the EAC found the proposal in order and recommended for the 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 n ecessary 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.

21. The EAC, after detailed deliberations, recommended the project for the grant of environmental clearance, subject to the compliance of the terms and conditions and general terms and conditions in Annexure 1.

22. Minutes of the meeting may kindly be seen at https://parivesh.nic.in//utildoc/119298864_1738671501069.pdf .

23. Based on the recommendations made by EAC in its 94th meeting held on 29-30th January 2025, the Ministry of Environment, Forest and Climate Change hereby accords Environmental Clearance for " Expansion of Ammonia, Urea, Technical Ammonium Nitrate, Concentrated Nitric Acid Production, Captive Power Generation and HRSG Within CFCL's Existing Premises at P.O. Gadepan, District- Kota, Rajasthan-325208 by M/s Chambal Fertilisers and Chemicals Limited (CFCL)" under the provisions of the EIA Notification, 2006, and the amendments, subject to compliance of the Specific and General terms and conditions as mentioned at Annexure-1.

24. 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.

25. 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 operational 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.
(h) The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 read with subsequent amendments therein.

This issues with the approval of the Competent Authority.

Copy To

1. Deputy Inspector General of Forests, Ministry of Environment, Forest and Climate Change, Integrated Regional Office, Jaipur, A-209&218, AranyaBhawan, Mahatma Gandhi Road, Jhalana Institutional Area, Jaipur – 304002, Rajasthan.
2. Director cum Joint Secretary (Environment), Department of Environment and Climate Change, Room No. 8236, SSO Building. Government Secretariat Jaipur, Rajasthan - 302005.
3. The Member Secretary, Rajasthan Pollution Control Board, 4, Jhalana Institutional Area, Jhalana Doongri, Jaipur, Rajasthan - 302004
4. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi – 32.
5. The Member Secretary, Central Ground Water Authority, Jamnagar House, 18/11, Man Singh Road Area, New Delhi , Delhi 110001.
6. The District Collector, Collectorate Campus, Civil Lines, Nayapura, Kota, Rajasthan 324 001
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) 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
1.2	NOx Abatement system along with stack height 52 m shall be provided to Tail Gas Stack (in Weak Nitric Acid Plant); scrubber alongwith stack of 60 m height shall be provided Prilling Plant vent; Scrubber alongwith stack height of 35 m shall be provided to TAN Stack; scrubber along with stack height of 39 m shall be provided to Concentrated Nitric Acid. Stack height of 30 m shall be provided to DG set (1.2 MW). Stack height of 30 m shall be provided to NG based Gas Engine and HRSG (CPP) 4 TPH.
1.3	Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored. The emissions shall conform to the limits imposed by SPCB.
1.4	Total fresh water requirement from Kalisindh River shall not exceed 56204 KLD.
1.5	NOC from the Concerned Authority shall be obtained before start of the construction of plant for drawing of the Kalisindh River 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.
1.6	Total industrial effluent generation shall not exceed to 12952 KLD. Proposed TAN plant industrial effluent generation shall be 1441 KLD, out of which 1440 KLD wastewater shall be treated in new installed ZLD ETP unit and treated water shall be recycled as cooling water make-up. Remaining 1 KLD oily wastewater effluent generated mainly from rotary equipment's in proposed plant shall be collected and routed to oil separator in existing ETP for oil separation. Additional 206 KL effluent shall be treated in ZLD -ETP. 1292 KLD sewage shall be treated in the STP and treated sewage shall be used for horticulture purpose within the CFCL premises. Unit shall maintain ZLD during non-monsoon period.
1.7	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees.
1.8	The green belt of at least 5 m-10m width shall be developed over an area of 136.5 ha with mainly along the plant periphery and across the premises inside road. Indigenous species shall only be developed as part of greenbelt and non-indigenous / alien species shall be replaced with native species. No invasive or alien or non-native tree species shall be selected for plantation. PP shall develop at least 20 variety of species as a part of greenbelt. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department and native species shall be

S. No	EC Conditions
	developed. 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.
1.9	A separate Environmental Management Cell (having qualified persons 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 by engaging Environment Officials. 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. The 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 the previous year.
1.10	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 under EMP Rs. 22.0 Crores (Capital cost) and 7.65 Crores per annum (Recurring cost)] shall be kept in a 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 the previous year.
1.11	All the hazardous waste shall be managed and disposed as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016. Hazardous waste such as Distillation Residue and Off Specification Products shall be either sent to common incineration site or send for coprocessing. Solid waste shall be segregated into dry and wet garbage at site in accordance to the Solid Waste Management Rules, 2016. Wet garbage shall be converted into compost and used as manure for greenbelt development. Fly ash shall be stored in silos and used for filling low lying area after prior approval of GPCB or sent for brick manufacturer or co-processing in cement industries.
1.12	The PP 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.
1.13	The project proponent shall comply with the environment norms for 'Fertilizer Industry' as notified by the Ministry of Environment, Forest and Climate Change, vide GSR 1607 (E), dated 29th December, 2017under the provisions of the Environment (Protection) Rules, 1986.
1.14	All necessary precautions shall be taken to avoid accidents and action plan shall be implemented for avoiding accidents. The PP 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

S. No	EC Conditions
	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.
1.15	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.
1.16	The storage of toxic/hazardous raw material shall be bare minimum with respect to quantity 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	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	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	The unit shall make the arrangement for the protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms.
1.20	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.
1.21	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.
1.22	There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products and no parking to be allowed outside on public places.
1.23	Storage of raw materials shall be either in silos or in covered areas to prevent dust pollution and other fugitive emissions. All stockpiles should be constructed over impervious soil and garland

S. No	EC Conditions
	drains with catch pits to trap runoff material shall be provided. Chemicals shall be stored in covered sheds and wind breaking walls/curtains shall be provided around biomass storage area to prevent its suspension during high wind speed. All Internal roads shall be paved. The Air Pollution Control System shall be interlocked with process plant/machinery for shutdown in case of operational failure of Air Pollution Control Equipment.
1.24	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 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.

S. No	EC Conditions
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 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: 10/03/2025