

India

Underweight (no change)

Chemicals - Overall

Urea, NH3 and NH4NO3 prices to rise

- Ammonia, urea, and ammonium nitrate prices are expected to rise due to geopolitical disruptions, sanctions on Iran, and Europe's need to import them.
- China's declining urea exports & growing consumption will lead it to import either NH3 or urea. India to import 5-6mt urea, making Russia the key supplier.
- Integrated ammonia and ammonium nitrate production companies stand to benefit.

Europe will have to import 8.5mt urea or 5mt ammonia in CY25F

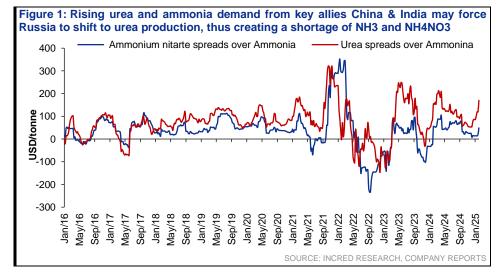
Changing geopolitical conditions have rendered Ukraine's 6mt of ammonia production capacity defunct. Additionally, due to political sanctions, multiple European countries are not purchasing ammonia from Iran's 8mt capacity. Germany also faces challenges due to its limited natural gas regasification capacity and the availability of only 28bcm of reverse gas flow, making it difficult to sustain ammonia production at full capacity. As a result, Europe is expected to become a major buyer of either ammonia (5mt) or urea (8mt). In Asia, China may emerge as an importer of either urea or ammonia, further driving the demand for Middle Eastern and Russian ammonia/urea. Given the market dynamics, it is more advantageous for Russia to produce urea and capture higher margin rather than selling ammonium nitrate at lower margin. These shifting trends are expected to drive up the prices of ammonia, urea, and ammonium nitrate. In our view, integrated Indian companies with backward ammonia integration facilities stand to benefit.

China's quest for urea inventory to exert pressure on global supply

China used to export approximately 4-5mt of urea to the global market. However, exports have declined significantly as China is building its urea inventory. At the same time, China's urea consumption is growing at a 3% CAGR, which will eventually force the country to either import urea or ammonia to meet this demand. Based on our analysis, we have assumed that China will import ammonia to produce urea, though it could choose either option. To maintain the necessary inventory in the system, China needs to import either 1.4mt, 1.9mt, and 2.9mt of ammonia in CY25F/26F/27F or 2.3mt, 3.2mt, and 5mt of urea in those years. Additionally, India is expected to import more than 5-6mt of ammonia in CY25F, and for both China and India, the primary source of urea and ammonia will be Russia. Meanwhile, Russia stands to benefit from exporting urea at higher spreads rather than ammonium nitrate. As a result, in the coming period, we expect a rise in the prices of ammonium nitrate, ammonia, and urea.

Integrated ammonium nitrate producers ideally positioned to benefit

With an integrated production facility and a likely shift by Russia to produce higher quantity of urea in place of ammonium nitrate, it will lead to higher prices of ammonia, urea and ammonium nitrate.



Research Analyst(s)



Satish KUMAR

T (91) 22 4161 1562

E satish.kumar@incredresearch.com

Abbas PUNJANI

T (91) 22 4161 1598

E abbas.punjani@incredresearch.com



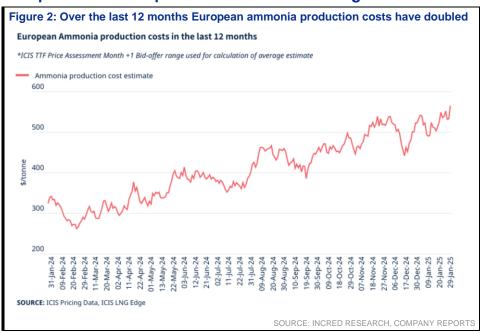
Urea, NH3 and NH4NO3 prices to rise

Changing geopolitical conditions have rendered Ukraine's 6mt of ammonia production capacity defunct. Additionally, due to political sanctions, multiple European countries are not purchasing ammonia from Iran's 6mt capacity. Germany also faces challenges due to its limited natural gas regasification capacity and the availability of only 28bcm of reverse gas flow, making it difficult to sustain ammonia production at full capacity. As a result, Europe is expected to become a major buyer of either ammonia (5mt) or urea (8mt). In Asia, China may emerge as an importer of either urea or ammonia, further driving the demand for Middle Eastern and Russian ammonia/urea. Given the market dynamics, it is more advantageous for Russia to produce urea and capture a higher margin rather than selling ammonium nitrate at a lower margin. These shifting trends are expected to drive up the prices of ammonia, urea, and ammonium nitrate. We believe that integrated Indian companies with backward ammonia integration stand to benefit. Additionally, prices of other nitrogen-based fertilizers are also likely to rise in the coming months.

European actions will lead to higher FOB Middle East ammonia prices

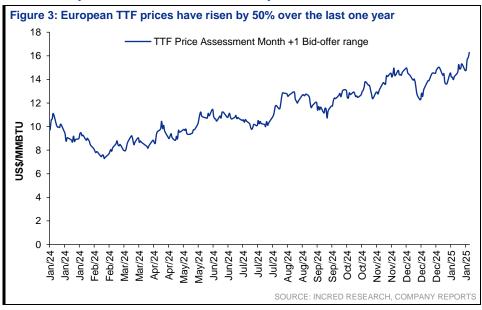
Unless European gas prices fall significantly, ammonia production in Europe will continue to decline. Import reliance will rise, benefiting Middle Eastern and North African ammonia producers. The long-term survival of European ammonia may depend on state subsidies, faster green ammonia adoption, or energy price corrections—but for now, it's largely unviable. With Iran under European sanctions and tit-for-tat duties likely on the US, the only sources of ammonia for European countries will be the UAE, Saudi Arabia, and Oman. With no significant capacity addition in Saudi Arabia or the UAE, it's more likely that FOB Middle East ammonia prices will rise in the coming weeks

European ammonia production costs are rising >

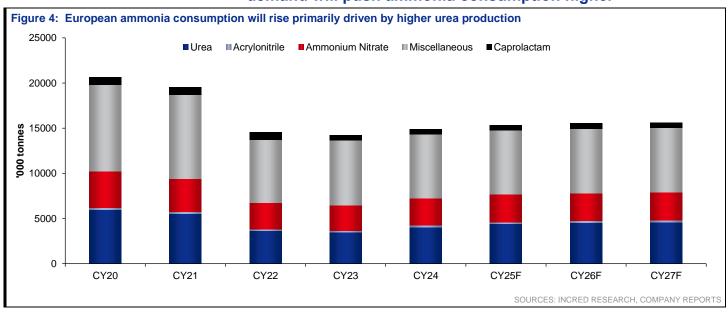




Remember, rising TTF is not the only factor behind the rise in ammonia production costs in Europe ➤

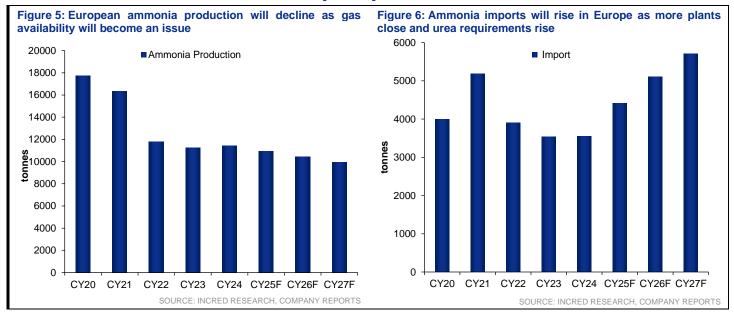


European ammonia consumption is likely to go up as fertilizer demand will push ammonia consumption higher ➤

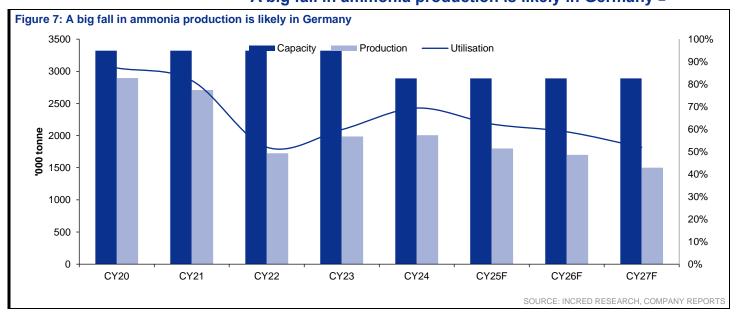




However, ammonia production in Europe will falter as gas availability is key ➤



A big fall in ammonia production is likely in Germany



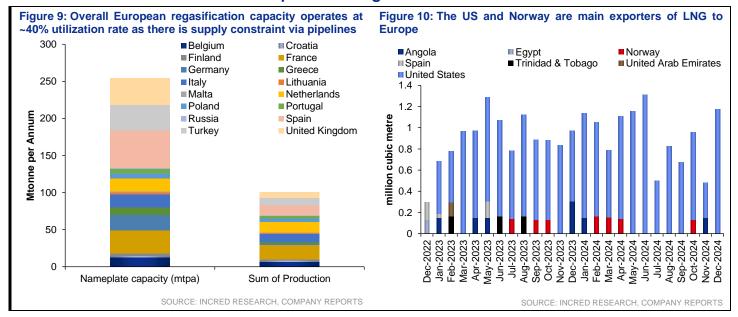
Can't Germany import cheap LNG from the US and run its ammonia plants? The answer is No ➤

As of now, Germany doesn't have enough regasification capacity and adjoining pipelines to cater to its ammonia plants. The closure of Nord Stream-1 & 2 gas pipeline has taken a heavy toll on the ammonia production capacity of Germany. Please remember that Germany has significant regasification capacity and the country is building a new one as well.



5.4 9.6 9.6		0	Under construction	FSRU using the Emerges Force vessel. Operators Hanseatic Energy Hub took FID on the project on 21 Mar 2024. Will replace existing FSRU at Stade. Two FSRUs now in place at Mukran, the Energos Power since Mar 2024 and Neptune
		Ì	construction	existing FSRU at Stade.
9.6				Two FSRUs now in place at Mukran, the Energos Power since Mar 2024 and Neptune
		0	Operational	since Jul 2024.
3.6	45%	1.62	Operational	
3.3	45%	1.485	Under construction	Second FSRU project at Wilhelmshaven.
2.5	29%	0.725		The Brunsbuttel LNG terminal was constructed following the Russian invasion of Ukraine as a measure to reduce Germany's dependence on Russian pipeline gas imports. The 170,000cbm Hoegh Gannet acts as the FSRU for the project.
	3.3	3.3 45%	3.3 45% 1.485	3.3 45% 1.485 Under construction

Germany doesn't have a well-connected regasification capacity to operate its regasification terminals ➤



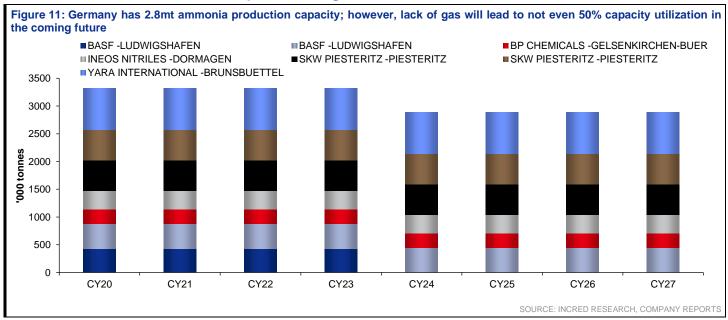
Spain and the UK have enough regasification capacity; however, at best, they can supply 28bcm gas to Europe provided the network is free ➤

Spain and the UK can supply natural gas to Germany through Belgium's infrastructure, although the routes and capacities vary.

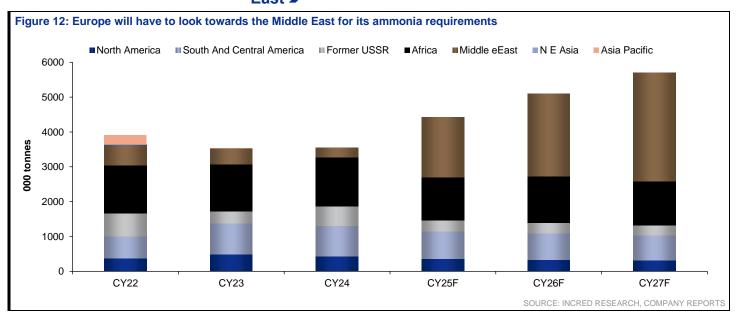
- 1. Spain indirectly sends gas via France, with a maximum of 7.3bcm/year (limited by the Spain-France pipeline capacity).
- 2. The UK directly supplies to Belgium via the interconnector pipeline (IUK), contributing up to 20.5bcm/year.
- 3. Combined, these sources provide Belgium with ~28 bcm/year. Belgium then channels this gas to Germany through pipelines like Zibeline (9.6bcm/year) and TENP (18.5bcm/year), alongside other infrastructure, totalling ~28 bcm/year of export capacity to Germany.
- 4. However, internal consumption in transit countries (e.g., Belgium, Netherlands, Switzerland) and competing flows reduce the final volume reaching Germany. With the Netherlands' Groningen field phasing out by 2028, Belgium's Zeebrugge LNG terminal plays a critical role in maintaining gas flows to Germany.
- 5. Thus, while Spain and the UK can theoretically supply ~28bcm/year to Germany via Belgium, the actual delivery depends on network constraints and regional demand.



Hence, despite having enough ammonia capacity, unless Germany goes back to Russia for gas supply, it cannot operate plants at high utilization rate ▶

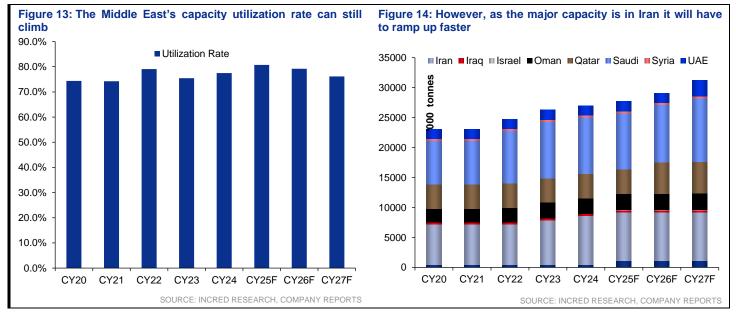


The duty drama by the US and Europe will keep North American ammonia out of reach for European urea plants; the only possible source of ammonia for Europe will be the Middle East ➤





The Middle East has enough capacity to meet this requirement ➤



However, Europe cannot buy ammonia from Iran, as the latter is still a pariah **>**

Europe's options for securing ammonia supplies are increasingly constrained. With the push for decarbonization, traditional ammonia exporters like Russia face sanctions, while green ammonia projects in Europe are still in their infancy.

Iran has large ammonia and urea production capacity due to its abundant natural gas reserves, and its exports have continued despite sanctions, often through intermediaries. If Europe turns to Iran for ammonia, it would be a pragmatic but politically complex move. While some countries may resist direct imports due to geopolitical concerns, traders and intermediaries could facilitate the flow indirectly, as seen in other sanctioned commodities.

As a result, there will be high demand for ammonia from Qatar, Saudi Arabia and the UAE ➤

The ammonia demand from Qatar, Saudi Arabia and the UAE will be much higher and hence, we expect FOB Middle East prices to rise in the coming quarters. Remember, the UAE and Saudi Arabia are not increasing their capacity in a significant manner, which means a tough time for Europe as FOB Middle East prices will rise faster.

China may turn into a big importer of ammonia or urea and India will come in big way to import urea as well, leading to rise in urea and ammonia prices

China used to export approximately 4-5mt of urea to global markets. However, exports have declined significantly as China builds its urea inventory. At the same time, China's urea consumption is growing at a 3% CAGR, which will eventually force the country to either import urea or ammonia to meet this demand.

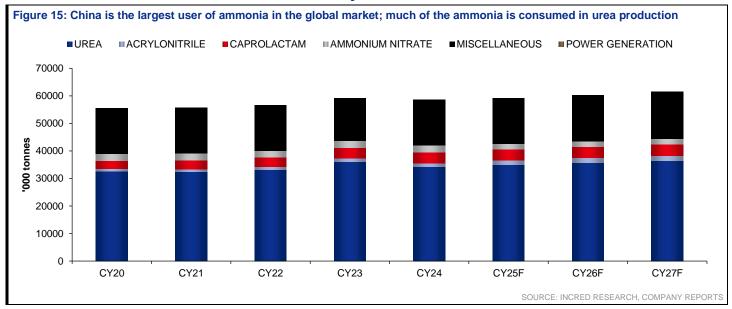
Based on our analysis, we have assumed that China will import ammonia to produce urea, though it could choose either option. To maintain the necessary inventory in the system, China needs to import either 1.4mt, 1.9mt, and 2.9mt of ammonia in CY25F/26F/27F or 2.3mt, 3.2mt, and 5mt of urea in those years.

Additionally, India is expected to import more than 5-6mt of ammonia in CY25F, and for both China and India, the primary source of urea and ammonia will be Russia. Meanwhile, Russia stands to benefit from exporting urea at higher spreads rather than ammonium nitrate.

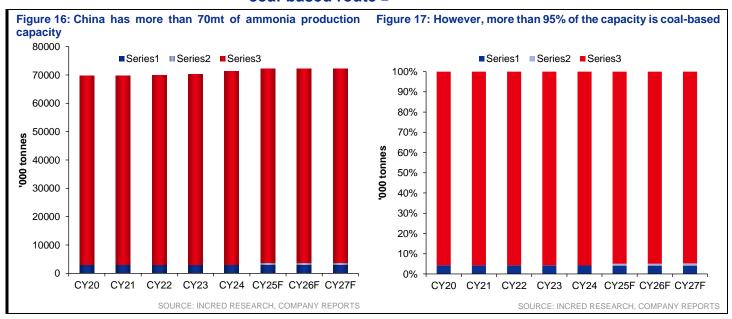


As a result, in the coming period, we expect a rise in the prices of ammonium nitrate, ammonia, and urea.

China is a major consumer of ammonia >



A major portion of China's ammonia production is through the coal-based route >



The coal-based ammonia production route is being discouraged in China ➤

China is gradually discouraging the coal-based ammonia production route due to its high carbon footprint and environmental concerns. However, the pace of transition is influenced by multiple factors:

Key Reasons for Discouragement:

- Carbon Emission Targets China has committed to peak carbon emissions before 2030 and carbon neutrality by 2060. Coal-based ammonia production is highly carbon-intensive (~2.6-3.0t of CO₂ per 1t of ammonia) compared to natural gas-based production (~1.6-1.8t of CO₂ per 1t).
- 2. **Energy Efficiency & Pollution** The coal-to-ammonia route is less energy-efficient and produces more pollutants (e.g., SO₂, NO_x, particulate matter) compared to natural gas-based methods.



- 3. **Green Hydrogen Push** China is investing heavily in green hydrogen (electrolysis-based), which could eventually replace coal-based hydrogen (from coal gasification) in ammonia production.
- 4. **Carbon Pricing & Regulations** China's Emissions Trading System (ETS) and stricter environmental regulations are increasing the cost burden on coalbased ammonia producers.
- 5. **Shifting Feedstock Trends** Newer ammonia projects in China are increasingly favouring natural gas and renewable hydrogen sources.

But Coal-Based Ammonia Still Dominates

- China remains the world's largest coal-based ammonia producer, with more than 70% of its ammonia production coming from the coal-based route.
- High domestic coal availability and cost advantages mean that many plants are still running and shutting them down prematurely would create supply risks.
- The shift to cleaner alternatives will be gradual, with existing coal-based capacities upgrading to carbon capture (CCUS) or co-producing syngasbased chemicals rather than shutting down immediately.

Outlook

- **No immediate ban** on coal-based ammonia, but incentives and policy measures are pushing toward greener alternatives.
- New projects are likely to favour natural gas, electrolytic hydrogen, or CCUS-based ammonia rather than traditional coal-based routes.
- Regional policies vary—some provinces with heavy coal resources (e.g., Shanxi, Inner Mongolia) may resist a rapid transition.

China has introduced multiple policies to reduce ammonia production through the coal-based route ➤

China is actively implementing policies to transition away from coal-based ammonia production due to environmental concerns and carbon reduction commitments:

- Promotion of Renewable Ammonia Projects: The government is encouraging the development of renewable ammonia production facilities. For instance, projects in inner Mongolia are scaling up 'flexible' ammonia production powered by renewable energy sources like wind.
- Decarbonization Initiatives in Coal-Fired Power Plants: The National Development and Reform Commission (NDRC) has announced plans to test decarbonization technologies in coal-fired power plants. These include cofiring with green ammonia and biomass, as well as deploying carbon capture and storage (CCS) technologies, aiming to reduce carbon intensity by 20% by 2025 and 50% by 2027 from 2023 levels.
- 3. **Carbon Pricing Mechanisms**: China's Emission Trading System (ETS) imposes costs on carbon emissions, making coal-based ammonia production less economically attractive compared to greener alternatives.
- Support for Green Hydrogen Production: The government is investing in green hydrogen projects, which can serve as a cleaner feedstock for ammonia production, reducing the reliance on coal.

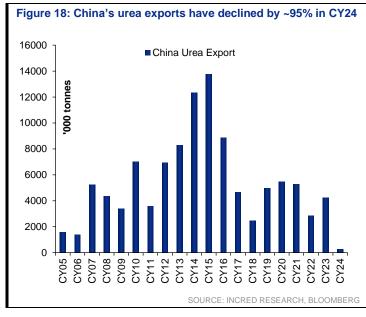
Hence, exporting ammonia, while creating inland pollution, is completely ruled out ➤

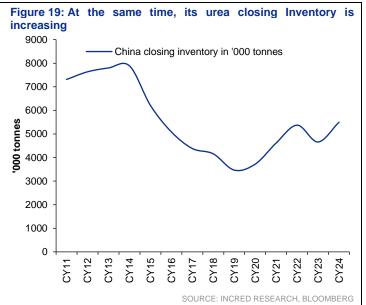
Given the big pollution concerns in the country, it is highly unlikely that China will increase coal-based ammonia capacity to export.



At the same time, China is reducing urea exports to the world >

China normally exports 3-4 mt of urea; however, in the recent past, probably for food security concerns, it is hoarding urea. In fact, it appears that production of urea is also going down in China.





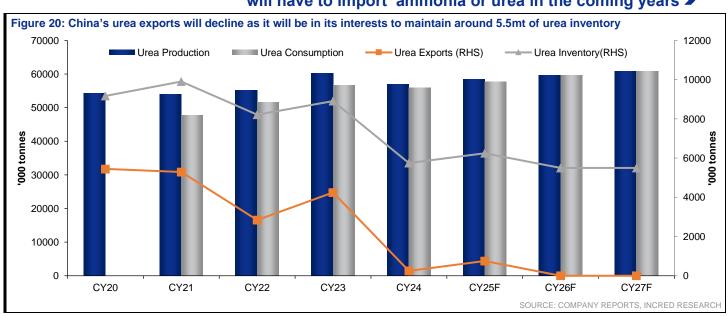
Reduced Chinese exports will raise RoW (ex-China) ammonia demand by 2.5mt ➤

China normally exports 3-4mt of urea; however, in the recent past, probably for food security concerns, it is hoarding urea. Remember, 1t of urea requires ~0.6t of ammonia and hence, if Chinese exports go down by 4mt, then it raises RoW ammonia demand by 2.4mt.

It appears that China is building strategic reserves of urea and, at the same time, its consumption is also rising ➤

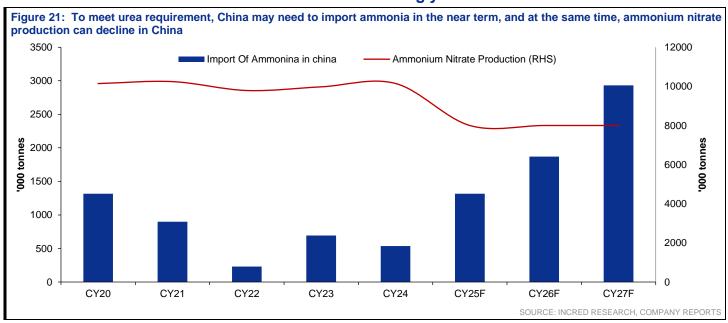
China appears to be building strategic reserves of urea and the past export patterns indicate that it plans to have at least 5.5mt of urea reserves.

Rising urea strategic reserves and consumption means China will have to import ammonia or urea in the coming years >

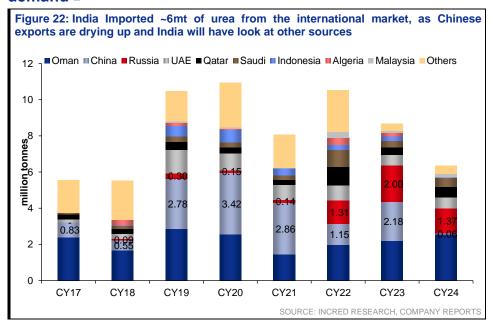




As a result, China is likely to become a big importer of ammonia in the coming years >



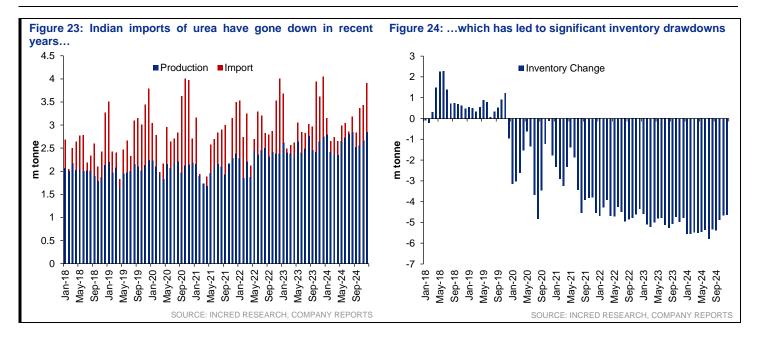
India is a big urea importer from China and as the latter goes off the market, India will look for alternate supply sources of urea, which can lead to futher global pressure on ammonia demand >



India still lacks sufficient capacity to meet all its urea requirements indigenously and lower imports have reduced system inventory by 4.6mt ➤

Due to significant inventory drawdowns, it seems unlikely that India's urea imports will decrease. Additionally, in recent times, India has shifted its urea imports from China to Russia.



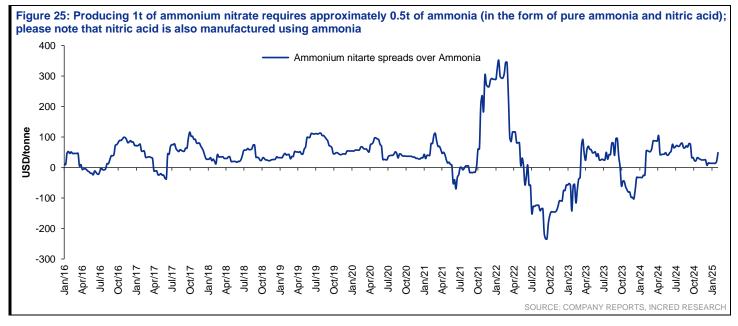


It's likely that India's urea imports from Russia will rise to 2.5-3mt in 2025F, which means Russia will be hard pressed for ammonia production ➤

India's urea imports from Russia can rise to 2.5-3mt in 2025F as China will be out of the export market.

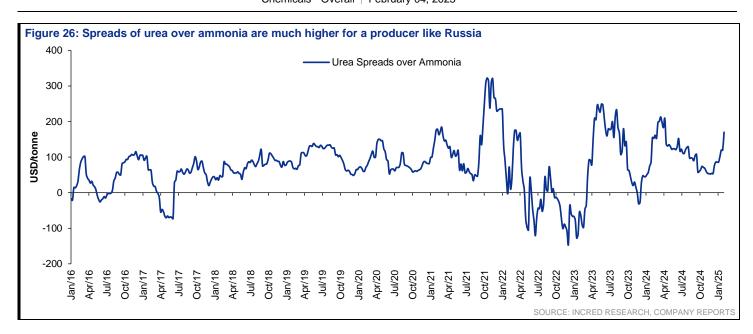
As a result, Russia's ammonia capacity will be stretched and ammonium nitrate production may come down ➤

Russia will be the source of ammonia for China and the source of urea for India, which means its ammonia sales can rise. In any case, selling ammonia at US\$ 500/t or urea at US\$600/t is far more beneficial for Russia than ammonium nitrate at US\$220/t.





Chemicals | India Chemicals - Overall | February 04, 2025





Chemicals | India Chemicals - Overall | February 04, 2025

DISCLAIMER

This report (including the views and opinions expressed therein, and the information comprised therein) has been prepared by Incred Research Services Private Ltd. (formerly known as Earnest Innovation Partners Private Limited) (hereinafter referred to as "IRSPL"). IRSPL is registered with SEBI as a Research Analyst vide Registration No. INH000011024. Pursuant to a trademark agreement, IRSPL has adopted "Incred Equities" as its trademark for use in this report.

The term "IRSPL" shall, unless the context otherwise requires, mean IRSPL and its affiliates, subsidiaries and related companies. This report is not directed or intended for distribution to or use by any person or entity resident in a state, country or any jurisdiction, where such distribution, publication, availability or use would be contrary to law, regulation or which would subject IRSPL and its affiliates/group companies to registration or licensing requirements within such jurisdictions.

This report is being supplied to you strictly on the basis that it will remain confidential. No part of this report may be (i) copied, photocopied, duplicated, stored or reproduced in any form by any means; or (ii) redistributed or passed on, directly or indirectly, to any other person in whole or in part, for any purpose without the prior written consent of IRSPL.

The information contained in this report is prepared from data believed to be correct and reliable at the time of issue of this report.

IRSPL is not required to issue regular reports on the subject matter of this report at any frequency and it may cease to do so or change the periodicity of reports at any time. IRSPL is not under any obligation to update this report in the event of a material change to the information contained in this report. IRSPL has not any and will not accept any, obligation to (i) check or ensure that the contents of this report remain current, reliable or relevant; (ii) ensure that the content of this report constitutes all the information a prospective investor may require; (iii) ensure the adequacy, accuracy, completeness, reliability or fairness of any views, opinions and information, and accordingly, IRSPL and its affiliates/group companies (and their respective directors, associates, connected persons and/or employees) shall not be liable in any manner whatsoever for any consequences (including but not limited to any direct, indirect or consequential losses, loss of profits and damages) of any reliance thereon or usage thereof.

Unless otherwise specified, this report is based upon reasonable sources. Such sources will, unless otherwise specified, for market data, be market data and prices available from the main stock exchange or market where the relevant security is listed, or, where appropriate, any other market. Information on the accounts and business of company(ies) will generally be based on published statements of the company(ies), information disseminated by regulatory information services, other publicly available information and information resulting from our research. While every effort is made to ensure that statements of facts made in this report are accurate, all estimates, projections, forecasts, expressions of opinion and other subjective judgments contained in this report are based on assumptions considered to be reasonable as of the date of the document in which they are contained and must not be construed as a representation that the matters referred to therein will occur. Past performance is not a reliable indicator of future performance. The value of investments may go down as well as up and those investing may, depending on the investments in question, lose more than the initial investment. No report shall constitute an offer or an invitation by or on behalf of IRSPL and its affiliates/group companies to any person to buy or sell any investments.

The opinions expressed are based on information which is believed to be accurate and complete and obtained through reliable public or other non-confidential sources at the time made (information barriers and other arrangements may be established, where necessary, to prevent conflicts of interests arising. However, the analyst(s) may receive compensation that is based on his/their coverage of company(ies) in the performance of his/their duties or the performance of his/their recommendations. In reviewing this report, an investor should be aware that any or all of the foregoing, among other things, may give rise to real or potential conflicts of interest. Additional information is, subject to the duties of confidentiality, available on request. The report is not a "prospectus" as defined under Indian Law, including the Companies Act, 2013, and is not, and shall not be, approved by, or filed or registered with, any Indian regulator, including any Registrar of Companies in India, SEBI, any Indian stock exchange, or the Reserve Bank of India. No offer, or invitation to offer, or solicitation of subscription with respect to any such securities listed or proposed to be listed in India is being made, or intended to be made, to the public, or to any member or section of the public in India, through or pursuant to this report.

The research analysts, strategists or economists principally responsible for the preparation of this research report are segregated from the other activities of IRSPL. Information barriers and other arrangements have been established, as required, to prevent any conflicts of interests.

The research analysts, strategists or economists principally responsible for the preparation of this research report are segregated from the other activities of IRSPL. Information barriers and other arrangements have been established, as required, to prevent any conflicts of interests.

IRSPL may have issued other reports (based on technical analysis, event specific, short-term views, etc.) that are inconsistent with and reach a different conclusion from the information presented in this report.

Holding of Analysts/Relatives of Analysts, IRSPL and Associates of IRSPL in the covered securities, as on the date of publishing of this report

Research Analyst or his/her relative(s) or InCred Research Services Private Limited or our associate may have any financial interest in the subject company.

Research Analyst or his/her relatives or InCred Research Services Limited or our associates may have actual or beneficial ownership of 1% or more securities of the subject company(ies) at the end of the month immediately preceding the date of publication of the Research Report.

Research Analyst or his/her relative or InCred Research Services Private Limited or our associate entities may have any other material conflict of interest at the time of publication of the Research Report.





In the past 12 months, IRSPL or any of its associates may have:

- a) Received any compensation/other benefits from the subject company,
- b) Managed or co-managed public offering of securities for the subject company,
- c) Received compensation for investment banking or merchant banking or brokerage services from the subject company,
- d) Received compensation for products or services other than investment banking or merchant banking or brokerage services from the subject company

We or our associates may have received compensation or other benefits from the subject company(ies) or third party in connection with the research report.

Research Analyst may have served as director, officer, or employee in the subject company.

We or our research analyst may engage in market-making activity of the subject company.

Analyst declaration

- The analyst responsible for the production of this report hereby certifies that the views expressed herein accurately and exclusively reflect his
 or her personal views and opinions about any and all of the issuers or securities analysed in this report and were prepared independently and
 autonomously in an unbiased manner.
- No part of the compensation of the analyst(s) was, is, or will be directly or indirectly related to the inclusion of specific recommendations(s) or view(s) in this report or based on any specific investment banking transaction.
- The analyst(s) has(have) not had any serious disciplinary action taken against him/her(them).
- The analyst, strategist, or economist does not have any material conflict of interest at the time of publication of this report.
- The analyst(s) has(have) received compensation based upon various factors, including quality, accuracy and value of research, overall firm
 performance, client feedback and competitive factors.

IRSPL and/or its affiliates and/or its Directors/employees may own or have positions in securities of the company(ies) covered in this report or any securities related thereto and may from time to time add to or dispose of, or may be materially interested in, any such securities.

IRSPL and/or its affiliates and/or its Directors/employees may do and seek to do business with the company(ies) covered in this research report and may from time to time (a) buy/sell the securities covered in this report, from time to time and/or (b) act as market maker or have assumed an underwriting commitment in securities of such company(ies), and/or (c) may sell them to or buy them from customers on a principal basis and/or (d) may also perform or seek to perform significant investment banking, advisory, underwriting or placement services for or relating to such company(ies) and/or (e) solicit such investment, advisory or other services from any entity mentioned in this report and/or (f) act as a lender/borrower to such company and may earn brokerage or other compensation. However, Analysts are forbidden to acquire, on their own account or hold securities (physical or uncertificated, including derivatives) of companies in respect of which they are compiling and producing financial recommendations or in the result of which they play a key part.

Registration granted by SEBI, membership of a SEBI recognized supervisory body (if any) and certification from NISM in no way guarantee performance of the intermediary or provide any assurance of returns to investors.

InCred Research Services Private Limited

Research Analyst SEBI Registration Number: INH000011024

Registered Office: Unit No 1203, 12th Floor, B Wing, The Capital, C-70, G Block, BKC, Bandra (E), Mumbai – 400051

Phone: +91-22-6844-6100

Corporate Office: 05th floor, Laxmi Towers, Plot No. C-25, G Block, Bandra - Kurla Complex, Bandra (East), Mumbai - 400051

Phone: +91-22-4161-1500

Name of the Compliance Officer: Mr. Yogesh Kadam

Email ID: compliance@incredresearch.com, Phone No: +91-22-41611539 For any queries or grievances, you may contact the Grievance Officer.

Name of the Grievance Officer: Mr. Rajarshi Maitra

Phone no. +91-022-41611546

Email ID: rajarshi.maitra@incredresearch.com

CIN: U74999MH2016PTC287535



Chemicals | India

Chemicals - Overall | February 04, 2025

Recommendation Framework

Stock Ratings Definition:

Add The stock's total return is expected to exceed 10% over the next 12 months.

Hold The stock's total return is expected to be between 0% and positive 10% over the next 12 months.

Reduce The stock's total return is expected to fall below 0% or more over the next 12 months.

The total expected return of a stock is defined as the sum of the: (i) percentage difference between the target price and the current price and (ii) the forward net dividend yields of the stock. Stock price targets have an investment horizon of 12 months.

Sector Ratings Definition:

Overweight An Overweight rating means stocks in the sector have, on a market cap-weighted basis, a positive absolute recommendation.

Neutral A Neutral rating means stocks in the sector have, on a market cap-weighted basis, a neutral absolute recommendation.

Underweight An Underweight rating means stocks in the sector have, on a market cap-weighted basis, a negative absolute recommendation.

Country Ratings Definition

Overweight An Overweight rating means investors should be positioned with an above-market weight in this country relative to benchmark.

Neutral A Neutral rating means investors should be positioned with a neutral weight in this country relative to benchmark.

Underweight An Underweight rating means investors should be positioned with a below-market weight in this country relative to benchmark.