

Deepak Fertilisers introduces world-class emission-control technologies

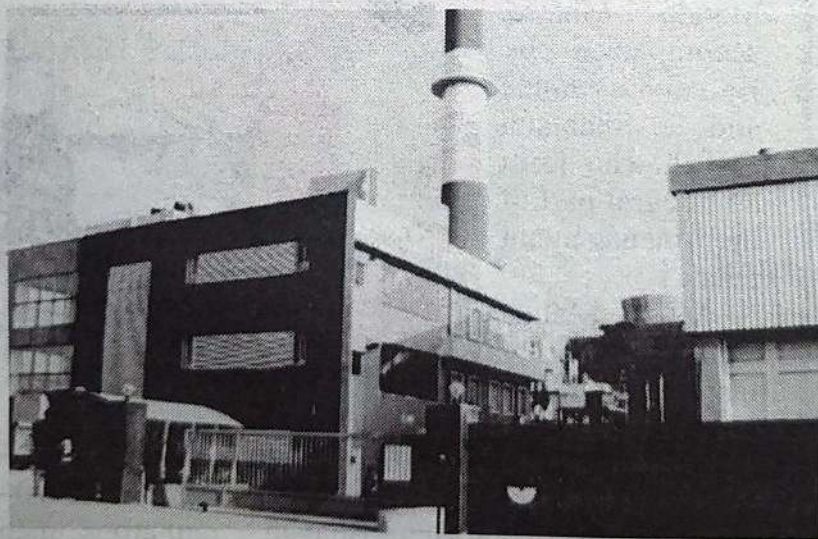
Attains significant reduction surpassing regulatory requirement

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DFPCL, one of India's leading fertiliser players, has collaborated with Incro SA, an industrial engineering pioneer company from Spain, to develop a unique technology that significantly reduces emissions. This state-of-the-art technology used by fertiliser plants can reduce emissions of ammonia from chimneys to <50 mg/Nm³, three times less than the Indian regulatory requirements. Designed in 2017, the process design involved in this technology ensures recovery of ammonia back into the process to the tune of 99.5%-99.9%, accompanied by zero liquid discharge or ZLD, marking a remarkable achievement.

Driven by the imperative of ensuring sustainable agricultural practices while minimising environmental impact, Deepak Fertilisers and Petrochemicals Corporation Limited (DFPCL) has pioneered a one-of-its-kind technology capable of re-

ducing emissions to a bare minimum. Unique and innovative technology emerges from within the fertiliser industry itself. Given the substantial scale of fertiliser consumption and production within the nation, effectively managing, and mitigating these emissions requires innovative technol-



ogy solutions to tackle this pressing challenge.

Fertiliser industry has been a critical pillar of support for Indian agriculture, a mainstay of nearly 55% of India's population. Fertiliser manufacturers in India play a vital role in the nation's agriculture landscape, supporting farmers by providing the necessary nutrient solutions for crop growth ensuring nourishment

and Amelioration of Mother Earth. Yet, they are constantly faced with the dilemma of striving to strike a balance between producing quality fertilisers and ensuring emissions remain under control. While fertiliser manufacturing involves the consumption of huge amounts of ammonia,

simultaneously, there are ammonia emissions from the stack during the process. This dynamic necessitates fertiliser manufacturers to work hard consistently and actively to reduce emissions from their production facilities. For a country which is the second-largest consumer of fertilisers in the world, it is quite a challenge to control these emissions.

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Photo by

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