

MOS Techno Engineers Strengthens Position as a Leading Global Supplier of Food-Grade CO₂ Generation Plant Technology

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/EINPresswire.com/ -- As the global beverage, brewery and food-processing industries continue to expand, demand for reliable, high-purity food-grade carbon dioxide (CO₂) has grown steadily. From carbonated soft drinks and breweries to food processing and packaging, food-grade CO₂ plays a role in maintaining product quality, consistency and shelf life.



Behind this industrial requirement is a specialised field of process engineering: the design and manufacture of [CO₂ production plant](#) and [CO₂ recovery plant](#) systems. [MOS Techno Engineers](#), an India-based engineering company, has built a presence in this sector through installations across more than 30 countries.

The Engineering Process

Producing food-grade CO₂ involves more than generating carbon dioxide. A CO₂ production plant must separate, purify, compress, dehydrate and liquefy CO₂ while controlling impurities that could affect its suitability for food and beverage use. A typical process follows these stages:

CO₂ Generation □ Gas Scrubbing □ Absorption & Regeneration □ Compression □ Purification □ Dehydration □ Liquefaction □ Liquid CO₂ Storage

The performance of each stage affects the purity, reliability and operating efficiency of the completed facility. MOS Techno Engineers designs and supplies integrated CO₂ production plant systems covering this process, with capacities available from approximately 50 kg/hr to 2,000 kg/hr, and reports purity levels of up to 99.99% depending on configuration and feed conditions.

An International Track Record

MOS Techno Engineers has more than 35 years of engineering experience and has completed over 60 CO₂ plant installations across international markets. Operating conditions — ambient temperature, altitude, cooling-water quality, fuel characteristics and electrical standards — vary by country, and the company says this experience factors into equipment designed for continuous long-term operation.

Quality and Total Cost of Ownership

For buyers of a CO₂ production plant or CO₂ recovery plant, the initial equipment price is only one part of the investment; energy consumption, fuel efficiency, plant availability, maintenance requirements, automation and equipment life all affect total cost of ownership over time.

MOS Techno Engineers operates under an ISO 9001:2015-certified quality management system, with inspection and testing procedures—including radiography, ultrasonic testing, dye penetrant testing, hydrostatic testing, pneumatic testing, vacuum testing and material verification — applied according to project requirements.

CO₂ Recovery Plant: A Growing Area

Alongside CO₂ production, the CO₂ recovery plant segment is gaining attention industry-wide. Breweries, distilleries, fermentation facilities, biogas plants and certain industrial processes produce CO₂-rich gas streams that would otherwise be released into the atmosphere. With the right recovery and purification technology, this CO₂ can be converted into a usable food-grade product through a dedicated CO₂ recovery plant — a shift that supports resource efficiency and reduces reliance on externally transported liquid CO₂.

MOS Techno Engineers provides solutions for both a dedicated CO₂ production plant and a CO₂ recovery plant, integrating purification, compression, dehydration, liquefaction and storage into complete systems.

Looking Ahead

Industry observers expect the next generation of CO₂ production plant and CO₂ recovery plant technology to be shaped by energy efficiency, automation, reliability, purification capability and process integration. MOS Techno Engineers' installation base — spanning multiple continents — reflects a broader shift in Indian process-engineering firms moving from domestic supply toward international project delivery.

About MOS Techno Engineers

MOS Techno Engineers is an India-based engineering company specialising in CO2 production plant and CO2 recovery plant technology, with more than 35 years of engineering experience and installations across 30+ countries.

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