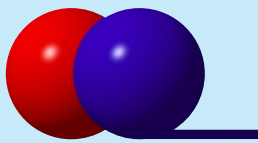




*think*  
**CO<sub>2</sub>** Recovery Plant

*think*



PUNJAB CARBONIC



## Punjab Carbonic Private Limited

We are a 25-year old company, who supply CO<sub>2</sub> recovery plants on turn-key basis, which produce High Purity Liquid CO<sub>2</sub>. We have installed the largest capacity of CO<sub>2</sub> plants in India, with an installed capacity of more than **330000 MT** per annum.

Due to the high quality, our plants are the first Indian-designed CO<sub>2</sub> plants based on fermentation, approved by Coca-Cola, Pepsi India and global beer majors.

### CO<sub>2</sub> Recovery Plants

CO<sub>2</sub> is a by-product in most distilleries / breweries, fertilizer industries, natural wells, chemical industries etc. As CO<sub>2</sub> creates atmospheric pollution, affecting the world, CO<sub>2</sub> recovery plants reduce emission, thus making a better world for everyone. These plants generate precious revenues for the industry and creates value for business.

CO<sub>2</sub> is used in varied applications: Beverages, Breweries, Fertilizers, Welding, Super Critical Extraction, Foundry, Fire extinguisher, Chemical Industries, etc. Solid CO<sub>2</sub>, which is known as Dry Ice, can be produced in CO<sub>2</sub> recovery plants.

Dry Ice is a valuable product, due to its low temperature and is used in varied industries like Airline Catering, Pharmaceuticals, Meat Packing, Fisheries etc. These plants create self-reliance for consumers, who have captive consumption, thereby reducing dependence on out-sourced CO<sub>2</sub>.

Parameters	Specified
Purity	99.99% v/v. min
Acetaldehyde	< 0.2 ppm
Ammonia	< 2.5 ppm
Carbon Monoxide	< 10 ppm
Methanol	< 1.0 ppm
Moisture	< 10 ppm
Nitrogen Dioxide	< 2.5 ppm
Oxides of Nitrogen (NOX)	< 2.5 ppm
Appearance of Solid CO <sub>2</sub> (snow)	No foreign appearance
Odor of Solid CO <sub>2</sub> (snow)	No foreign odor
Appearance in water	No Colour or turbidity
Taste & Odour in water	No foreign taste & odour
Non-Volatile Residue	10 ppm w/w max.
Non Volatile Organic Residue	5 ppm w/w max
Total Sulphur	< 0.1 ppm
*Sulphur dioxide	< 1.0 ppm
Aromatic Hydrocarbon	not more than 0.020 ppm
Total Volatile Hydrocarbon As Methane	Not more than 50ppm of which not more than 20ppm is non methane
*if TS is more than 0.1 ppm	

*Specifications of CO<sub>2</sub> produced in our plant*



# Punjab Carbonic' CO<sub>2</sub> Recovery Plants

## Lowest OPEX

We supply CO<sub>2</sub> recovery plants, on turn-key basis including equipment-design, fabrication, installation and commissioning. Our equipment design is world-class, resulting in lowest **OPEX** (Operating Expenditure). Apart from the low power consumption, which is amongst the lowest in the world; the steam consumption is also negligible, thus making production cost very low. These plants are durable, PLC- controlled and require minimum man-power for plant operations.

We offer either rotary or reciprocating compressors, according to customer's requirements, as we incorporate tailor-made design for each and every client.

## CO<sub>2</sub> Quality

As we design our plants to remove almost all impurities, even upto PPB (parts per billion) levels, High-Purity Liquid CO<sub>2</sub> is produced, which surpasses ISBT (International Society for Beverage Technologists) standards.

High Density Dry Ice is produced from this High Purity Liquid CO<sub>2</sub>, which has low-evaporation rate and can be stored for longer duration. This ensures extended inventory holding period and reduces transit losses leading to substantial reduction in distribution costs.

## World-Class Service

We offer state of the art CO<sub>2</sub> recovery plants at best price, with unmatched after-sales service.

## Environment-Friendly & Sustainable plants

Our plants are environment friendly and are designed for zero-discharge as water used in them can be re-used in the main plant processes. No harmful chemicals are used for processing, thereby negating the requirement of ETP.

Our plants do not just reduce emission, they generate revenue from effluents by creating a sustainable and valuable business vertical.



State of Art Equipment Design



Installed capacity 330000 MT per year



World Class After-Sales Service



Our CO<sub>2</sub> Surpasses ISBT Standards

**LOWEST OPEX / LOWEST MAINTENANCE COST**

**TOGETHER LET'S MAKE THE WORLD A BETTER PLACE AND CREATE VALUE FOR BUSINESS**



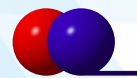


Authorized Representative for South America



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