

HINDUSTAN CARBONICS

an entity of RAJGIR CRYOGENIC GASES

ABOUT US

We are **HINDUSTAN CARBONICS** your go-to specialist for all things; CO2 recovery, sales, production, plant setup and consultancy. With a robust legacy spanning two decades in the realm of carbon dioxide gas and dry ice, we take immense pride in our stellar reputation for unparalleled customer satisfaction.

At **HINDUSTAN CARBONICS**, we don't just deliver products - we craft experiences. Our unwavering commitment to quality and service sets us apart, ensuring that every interaction leaves a lasting impression. We believe in not just meeting but exceeding expectations, all while offering competitive pricing that makes us accessible to all.

Surrounded by a team of exceptional individuals who are as passionate as they are knowledgeable, we stand ready to guide you through your CO2 needs with expertise and enthusiasm. Our expertise lies in providing Design Engineering consultancy, Manufacturing and Testing services for gas producing plants, breweries, beverages, chemicals sector. Our range of products includes CO2 Production Plant-Grain/Molasses based distillery, CO2 Revert Recovery System for Dry Ice Machines, CO2 Cylinder Filling System, Industrial Refrigeration Unit, and more. With a capacity range of 25 kg/hr to 6000 kg/hr, we cater to diverse custom needs. Our commitment to quality is reinforced by our partnerships with renowned third-party inspection companies like BVIS, SGS, and Mecelec. We take pride in completing large-scale projects on time and with exceptional quality. Our value-added services, such as after-sale support and round-the-clock customer care, ensure total customer satisfaction.

Our company is well-equipped and focused on maintaining high standards in production. With certifications & adherence to ISBT standards, it's clear that quality is a priority. Having significant

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contracts and alliances pan India demonstrates a significant production capacity.

Join Us on this journey as we redefine what it means to truly excel in the world of carbon dioxide production and recovery.

If you have any specific questions or if there's anything you'd like assistance with regarding the information, feel free to connect with our Marketing Team !

INFRASTRUCTURE & FACILITIES

Our success story is built on a solid foundation of infrastructure and facilities. As an ISO 9001:2008 certified company, we pay utmost attention to our partnered fully fledged infrastructure spread across 5000 sq ft. With advanced manufacturing facilities, we can develop plants of various capacities to meet client's exact requirements. Our coordinated departments work towards achieving success on the international platform.

MANAGEMENT

With a focus on sustained success at the core of **HINDUSTAN CARBONICS**, we owe our success in the gas sector to our incredible team. Comprising highly experienced engineers, quality controllers, technicians, R&D personnel, and sales & marketing experts, we ensure excellence in every aspect of our operations. Guided by our esteemed directors; the one who strives for the perfection and settles only for the best Mr. Rajkumar Singh Jaddon, a Ajmer University Masters in Science having extensive industrial experience and under the aegis leadership of Mr. Girwar Pal Singh a Mechanical Engineering expert with 30+ years of rich experience in CO2 Plant setup and CSI - Customer Satisfaction Index, we are young and dynamic team of Science, Engineers and Marketing professionals well-versed with the latest industry developments. With Mr. Manvendra pratap Singh an ESSCA, France graduate in Business Development and Marketing; our cohesive management team collaborates closely to elevate our company and its offerings worldwide.

Join us as we continue to exceed client expectations and make a mark in the gas industry !

AFTER SALE SERVICES

Providing Total Customer Satisfaction | 24/7 After Sales Service |
Dedicated Field Service Team

We prioritize total customer satisfaction and believe that after sales; service plays a crucial role in achieving it. Our dedicated field service team is available 24/7 to provide tested and tried solutions to any problems you may encounter. Our experienced engineers, who deliver customer-centric and problem-oriented solutions; visit your site to thoroughly assess and address the issue. From facility and component assembly to testing and operations, our highly skilled team is equipped to handle regular maintenance and critical repairs.

Trust us to deliver prompt and efficient service whenever you need it !

PRODUCTS

FOOD GRADE LIQUID CO2

HINDUSTAN CARBONICS food grade liquid Carbon dioxide is used in Processing of Fruits and Vegetables, Prawns and Shrimp farming, Spice Grinding, & Super Critical Extraction of Spices and Flavours.

SR. NOS.	Parameters	Specifications	Lower Detection Limits
1	Purity	99.99 % v/v.	0.01%
2	Acetaldehyde	< 0.2 ppm	0.1 ppm
3	Acidity	To pass Test	NA
4	Ammonia	< 2.5 ppm	0.5 ppm
5	Carbon Monoxide	< 10 ppm	1 ppm
6	Hydrogen Sulfide	< 0.1 ppm	0.0001 ppm
7	Nitrogen dioxide	< 2.5 ppm	0.5 ppm
8	Phosphine	< 0.3 ppm	0.05 ppm
9	Sulfur dioxide	< 1 ppm	0.0001 ppm
10	Taste & Odour	No foreign taste or Odour	NA
11	Moisture	< 10 ppm	0.1 ppm
12	Appearance	No colour	NA

13	Aromatic Hydrocarbon	< 20 ppb	1 ppb
14	Nitrous Fumes	< 2.5 ppm	0.04 ppm
15	Carbonyl Sulfide	< 0.1 ppm	0.0001 ppm
16	Total Sulfur	< 0.1 ppm	0.0001 ppm
17	Total Hydrocarbons(as Methane)	Less than 50 ppm, of which Non-Methane is less than 20 ppm	0.0001 ppm

DRY ICE

Enhancing food preservation with our High Density Solid CO₂, commonly known as Dry Ice. Our cylindrical blocks, weighing 8-10 kgs, offer superior refrigeration capabilities. With minimal evaporation and maximum productivity, we ensure efficient supply of Dry Ice across the country throughout the year.

CO₂ RECOVERY PLANTS

With a focus on innovation, we deliver state-of-the-art CO₂ Recovery Plants that set the standard in the industry. Our fully automated plants are renowned for their efficiency in recovering revert CO₂ gas, processing large volumes every hour. By utilizing low concentration solvent and premium stainless steel, we guarantee the production of the purest liquid carbon dioxide with long-lasting durability. Featuring advanced functionalities like data logging, touch screen interface, and remote control panel, our plants are the top choice for distilleries, fertilizer industries and more.

FEATURES

- Fully automatic operation
- Stainless steel construction
- Water flow indicator for safety
- Valves easily accessible for routine inspection & maintenance

- Allow for auto switchover of towers and operation of hot air regeneration equipment
- Touch screen operator interface & Data logging

PRODUCTION PROCESS

- Raw gas from fermenters is fed in to the system from where the gas is taken in foam trap where the foam is removed
- With the help of booster blower, the gas is pushed in to the chain/series of scrubbing systems that comprises of pre-water scrubber, $Kmno_4$ scrubber with dosing facilities
- In this chain of scrubbers, the CO_2 gas is washed properly using water
- After this, the raw gas gets buffered in a vessel
- From there, it moves towards two stage CO_2 compressor where the gas is compressed up to a desired pressure
- Raw gas goes to the dual tower activated carbon filter for removal of odor
- The raw gas is then enter into the high pressure precooler and from there to dual tower CO_2 dryer
- Raw gas is passed through dryer where moisture is removed
- It also passes through liquefaction system and nox removal tower
- Finally, the liquid goes directly to the storage tank where the gas stores for a particular period of time

1- DISTILLERY BASED CO_2 RECOVERY PLANT

Leader in Distillery Based CO_2 Recovery Plants for soft drinks companies, breweries and related sectors. Designed for refrigeration units, gas dryers, and cylinders filling systems, our plants ensure continuous processes that comply with international food grade quality standards. Let's connect and explore the possibilities of implementing this innovative CO_2 recovery technology!

2- INDUSTRIAL SOURCE BASED CO_2 RECOVERY PLANT

We specialize in Industrial Source Based CO_2 Recovery Plants that are designed to operate seamlessly at ambient conditions. One of the remarkable advantages of these plants is their ability to prevent hydrate formation without the need for external heating. With our expertise, we assist industries in efficiently removing

heavy components, including C3+, from fuel gas. Let's connect and explore opportunities in the field of CO2 recovery!

DESIGN, ENGINEERING & CONSULTANCY

Excellence and Reliability defines our Design & Engineering Consultancy services for carbon dioxide plants. As your comprehensive solution provider for CO2 plants, we prioritize enhancing process design and implementation. Our feasibility reports offer clients in-depth insights into project areas and value engineering project costing. Rest assured, our reconditioning services guarantee maximum service life for your plants and components, while minimizing maintenance costs. When it comes to pressure vessels, we design them for optimal efficiency and conduct evaluations in case of accidental over-pressurization. Our commitment to meeting your specific process requirements is reflected in our incorporation of the latest treatment technologies and conceptual designing.

FEASIBILITY CHECKS

Your go-to for customized plant solutions. Feasibility Checks by us cover project influence area, cost analysis, and more. We are trusted for top-tier design, engineering, and consultancy services.

RESUSCITATE CO2 PLANT

At CO2 Plant Resuscitate, we excel in offering reliable reconditioning services for CO2 plants used in breweries, distilleries, fertilizer industries, and natural springs. Our team of skilled technicians thoroughly tests the work to ensure it meets international quality standards. We not only help our clients operate their plants profitably but also ensure compliance with new regulations and future requirements. With our reconditioning services, you can expect maximum service life for your plants and reduced maintenance costs. Choose us for top-notch results backed by a warranty on all reconditioned components

CUSTOM-DESIGN & ENGINEERING FOR CO2 PLANT

At **HINDUSTAN CARBONICS**, we prioritize the Design and Engineering of CO2 Plants to guarantee efficient and safe operations. Our team of specialists utilizes the latest technologies and process engineering to deliver customized solutions tailored to each client's plant site and production needs. Our focus on optimizing process design and implementation, along with careful selection of raw materials, ensures minimal risk of leakage and maximum project success. Trust us for reliable solutions, site supervision, and on-time installation of machines.

QUALITY CONTROL, CHECKS, COMPLIANCES & TESTING

Leading the industry with our commitment to high quality standards. Our plants and equipments are engineered to perfection, ensuring top-notch quality at every step of the process. Partnered with renowned inspection agencies for 100% quality assurance. The QUALITY Is UNBEATABLE!

Quality is our priority, and testing is the key to achieving it. At **HINDUSTAN CARBONICS**, we dedicate significant attention to the testing phase in plant engineering. Our plants undergo thorough trials and inspections to ensure their reliability before installation at our clients' sites. We collaborate with reputable third-party inspection agencies like Lloyd's Register of Inspection, Bureau Veritas BVIS, DNV, and Chempro Inspection to maintain strict adherence to industry standards. With a specialized testing unit led by experienced professionals; we meticulously evaluate functionality, energy consumption, construction and working life. Choose us for meticulously tested and reliable plant solutions !

PROJECTS UNDERTAKEN

<p>BARAMATI AGRO LIMITED Baramati, MAHARASHTRA</p> <p>https://www.baramatiagro.com/index</p>	
<p>RELIANCE INDUSTRIES LIMITED Surat, GUJARAT</p> <p>https://www.ril.com</p>	
<p>COROMANDEL INTERNATIONAL LIMITED Chennai, TAMILNADU</p> <p>https://www.coromandel.biz</p>	
<p>UNITED COMPRESSOR CORPORATION Mumbai, MAHARASHTRA</p> <p>www.unitedcompressor.in</p>	
<p>SAI BIOTECH Rajahmundry, ANDHRA PRADESH</p> <p>https://sai-biotech.com</p>	
<p>SUPERIOR INDUSTRIES LTD. Bareilly, UTTAR PRADESH</p>	
<p>NATIONAL FERTILIZERS LTD. Panipat, HARYANA</p> <p>https://www.nationalfertilizers.com</p>	
<p>RADICO KHAITAN LTD. Rampur, UTTAR PRADESH</p> <p>https://www.radicokhaitan.com</p>	

<p>SIMBHAOLI SUGARS LTD. Brijnathpur, Hapur, UTTAR PRADESH</p> <p>www.simbhaolisugars.com/index.php</p>	 <p>SIMBHAOLI SUGARS</p>
<p>BALRAMPUR CHINI MILLS LTD. Balrampur, UTTAR PRADESH</p> <p>https://chini.com</p>	 <p>Balrampur Chini Mills Limited</p>
<p>CHAMBAL FERTILISERS & CHEMICALS LTD. Kota, RAJASTHAN</p> <p>https://www.chambalfertilisers.com/index.html</p>	 <p>CHAMBAL FERTILISERS AND CHEMICALS LIMITED</p>
<p>RADICO NV DISTILLERIES MAHARASHTRA LTD. Aurangabad, MAHARASHTRA</p> <p>http://radiconv.co.in</p>	
<p>SHRI CHAMUNDESWARI SUGARS LTD. Mandya, KARNATAKA</p> <p>https://chamundeswarisugars.in/index.php</p>	 <p>chamundeswari LIFE IN HARMONY</p>
<p>UTTAM SUGAR MILLS LTD. Libberheri, Roorkee, Haridwar, UTTARAKHAND</p> <p>www.uttamsugar.in/about.php</p>	
<p>DWARIKESH SUGAR INDUSTRIES LTD. Bundki, Bijnor, UTTAR PRADESH</p> <p>https://www.dwarikesh.com</p>	

<p>SAKTHI SUGARS LTD. Erode, TAMILNADU</p> <p>https://sakthisugars.com/index.aspx</p>	 The logo for Sakthi Sugars Limited features a stylized orange flame symbol to the left of the text "Sakthi Sugars Limited" in a blue, sans-serif font.
<p>RCP DISTILLERIES INDIA PVT. LTD. Meerut, UTTAR PRADESH</p> <p>www.realchemsys.com</p>	 The logo for RCP Real Chemsys Products consists of the letters "RCP" in a large, bold, white font set against a red rectangular background. A registered trademark symbol (®) is located at the top right of the red box. Below the red box, the words "REAL CHEMSYS PRODUCTS" are written in a smaller, red, sans-serif font, flanked by two horizontal black lines.

TOUCH POINT !

HINDUSTAN CARBONICS an entity of RAJGIR CRYOGENIC GASES

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