Radox Engineering

Radox EngineerinG

(Engineering Div. of Radox Group)

Radox Engineering Private Limited is manufacturer of Industrial Engineering Equipment & Machineries. We Deliver Projects on turnkey basis for Bioethanol, Biodiesel, Dairy, Liquid Glucose, Malto Dextrin Powder, High Fructose Syrup, DDGS & Gluten Dryer.

WWW.RADOXENGINEERING.COM

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About Us

Welcome to Radox Engineering, a leading EPCC based organization. We specialize in delivering innovative and sustainable industrial turnkey projects such as Bioethanol, Biodiesel, Liquid Glucose, Malto-dextrin, High Fructose Syrup including DDGS dryers and Zero Liquid Discharge (ZLD) system to meet industrial standards.

With expertise in Designing, Procurement, Construction, Project Management and executing, industrial infrastructure along with eco-friendly systems. We ensure high-quality, turnkey solutions tailored to your needs. At Radox Engineering, innovation meets reliability as we work towards building a sustainable future for industries.

30+
Projects Completed

90+
Clients Served

30+
Awards

Radox Engineering

Vision and Mission

Vision

To be a globally recognized leader in EPC engineering solutions, driving innovation, operational excellence, and sustainability in every project, while empowering industries to build a better, smarter, and greener future.

Mission

To deliver innovative, efficient, and sustainable EPC (Engineering, Procurement, and Construction) solutions that exceed client expectations while fostering long-term relationships, promoting environmental responsibility, and contributing to the success of industries worldwide.

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Our Project Range

Bioethanol Plants

At Radox Engineering we design and deliver advanced bioethanol plants that transform renewable resources like sugarcane, corn, and biomass into sustainable fuel. Our turnkey solutions focus on energy efficiency, environmental compliance, and maximizing production output, ensuring a cost-effective and eco-friendly alternative to traditional fuels.

Liquid Glucose Plant

At Radox Engineering, we specialize in designing and delivering state-of-the-art liquid glucose plants, tailored to meet the specific needs of industries such as food, pharmaceuticals, and chemicals. Our turnkey solutions focus on efficiency, precision, and scalability, ensuring seamless production processes and adherence to the highest industry standards

Bio CNG Plant

At Radox Engineering, we design and deliver advanced Bio-CNG plants that convert organic waste, agricultural residues, and biomass into clean, renewable energy. Our turnkey solutions emphasize energy efficiency, environmental sustainability, and optimized production, providing a cost-effective and eco-friendly alternative to conventional fossil fuels.

DDGS Dryer

At Radox Engineering, we are leaders in crafting advanced DDGS dryer systems tailored to the needs of industries such as ethanol production, animal feed, and bioenergy. Our comprehensive solutions prioritize energy efficiency, reliability, and adherence to industry-specific standards. With a focus on hygienic design, optimized drying performance, and scalable configurations

Zero Liquid Discharge(ZLD)

At Radox Engineering, we specialize in delivering innovative Zero Liquid Discharge (ZLD) systems designed to meet the unique requirements of industries such as textiles, chemicals, power plants, and pharmaceuticals. Our comprehensive solutions focus on achieving complete water recovery, environmental compliance, and cost efficiency.

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Bio Ethanol Plant

A bioethanol plant is a facility that produces bioethanol, a renewable form of ethanol derived from biological sources such as broken rice, sugarcane or cellulosic biomass (like agricultural residues). Bioethanol is used as a fuel or fuel additive to reduce greenhouse gas emissions and promote energy sustainability.

Process

- Feedstock Preparation
- Fermentation
- Distillation
- Dehydration
- Storage and Distribution

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Biodiesel Plant

A biodiesel production plant manufactures biodiesel, a renewable fuel produced by chemically converting natural oils and fats into fatty acid methyl esters (FAME). Biodiesel is used as a cleaner alternative to traditional diesel fuel and can be blended with petroleum diesel or used independently in diesel engines

Process

- Feedstock Selection
- Pretreatment
- Transesterification
- Separation
- Washing & Drying
- Refining
- Storage and Distribution

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Biofuel Plant

A biofuel plant is a facility that produces biofuels, renewable fuels derived from biological materials like plant matter, agricultural residues, or animal fats. The most common types of biofuels are bioethanol, biodiesel, and biogas, which serve as alternatives to fossil fuels in transportation, power generation, and heating.

Types of Biofuel Plant

- Bioethanol Production Plant
- Biodiesel Production Plant
- Biogas Production Plant

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Liquid Glucose Plant

A liquid glucose plant is a facility designed for the production of liquid glucose, which is a concentrated syrup of glucose derived from starch. Liquid glucose, has a wide range of applications in industries such as food, beverage, pharmaceutical, and confectionery.

Process

- Raw Material Handling
- Liquefaction
- Saccharification
- Filtration
- Evaporation
- Refining and Quality Control
- Storage and Packaging

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Maltodextrin Powder Plant

A maltodextrin powder plant is a manufacturing facility that produces maltodextrin, a polysaccharide commonly used in the food, beverage, and pharmaceutical industries. It has mild sweetness and is widely used as a bulking agent, stabilizer, and carbohydrate source.

Process

- Raw Material Handling
- Liquefaction
- Saccharification
- Filtration
- Spray Drying
- Refining and Sieving
- Packaging and Storage

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Sorbitol Plant

A sorbitol plant is a manufacturing facility designed to produce sorbitol, a sugar alcohol derived from glucose. Sorbitol is widely used in food, pharmaceutical, personal care, and industrial applications due to its sweetness, humectant properties, and stability.

Process

- Raw Material Preparation
- Hydrogenation
- Filtration
- Evaporation
- Refining
- Quality Control
- Packaging and Storage

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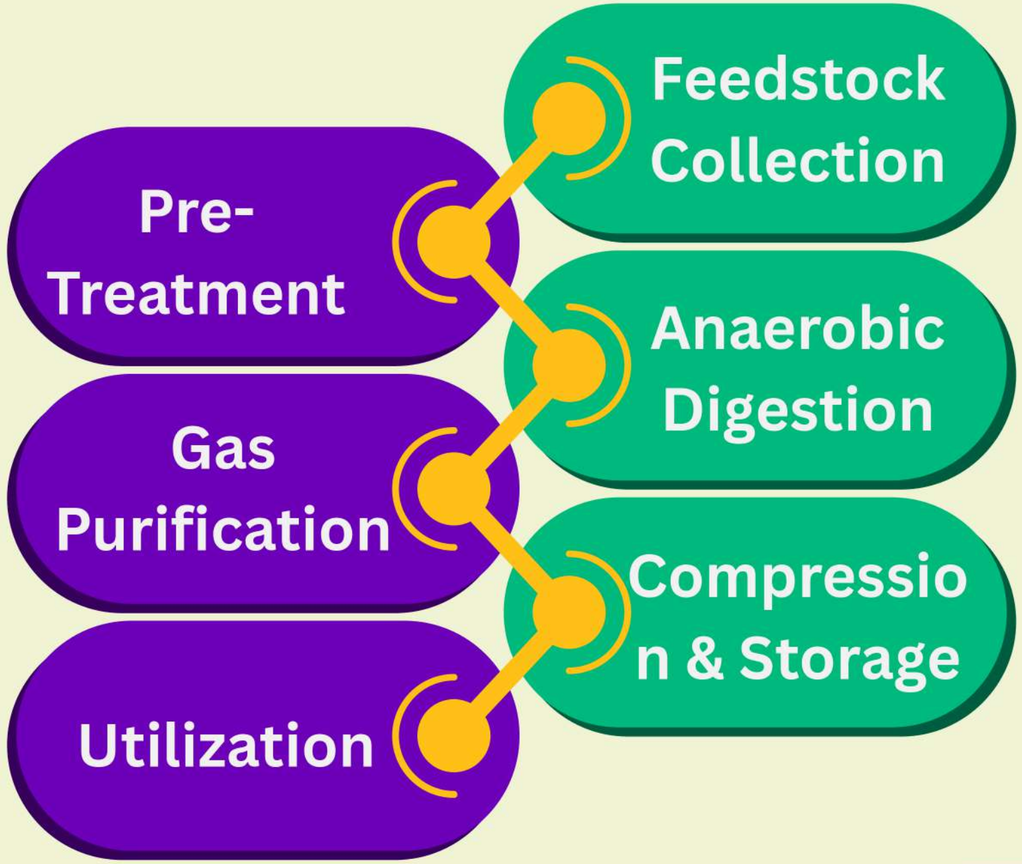
Compressed Bio Gas Plant

A Compressed Bio Gas (CBG) plant converts organic waste like agricultural residues and food waste into clean, renewable fuel through anaerobic digestion. The biogas is purified, compressed, and used as an eco-friendly alternative to CNG for vehicles and industries, reducing waste and promoting sustainable energy solutions.

Process



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DDGS Dryer

A DDGS Dryer is a specialized industrial machine used to Dry Distillers Dried Grains with Solubles (DDGS), a valuable by-product of ethanol production. DDGS is created during the fermentation of grains like corn or wheat and is commonly used as a high-protein feed for livestock.

Process

- Wet Material Feeding
- Drying Stage
- Moisture Removale
- Discharge and Coolingle
- Dust Collection
- Storage and Packaging

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Treatment Plant for Textile

An Effluent Treatment Plant (ETP) for the textile industry is designed to treat wastewater generated during the dyeing and finishing processes. The primary goal is to remove contaminants like dyes, chemicals, and suspended solids, ensuring that the water meets environmental standards before being released or reused

Process:

- Pre-Treatment
- Primary Treatment
- Secondary Treatment
- Tertiary Treatment

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Zero Liquid Discharge

Zero Liquid Discharge (ZLD) is a wastewater treatment process aimed at eliminating all liquid waste, ensuring that no wastewater is released into the environment. In a ZLD system, water is purified through various stages—such as filtration, evaporation, and crystallization—so that the final discharge consists only of solid waste or non-liquid by-products.

Process

- **Pre-Treatment**
- **Evaporation**
- **Crystallization**
- **Recovery**
- **Disposal**

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Why Choose Us

Expertise

Our team of experienced engineers and project managers excels in all aspects of engineering, procurement, and construction, ensuring seamless and reliable execution of complex projects.

Innovative Technologies

By utilizing advanced tools like 3D modeling, BIM (Building Information Modeling), and simulation software, we deliver precise designs, efficient workflows, and reduced project timelines.

Turnkey Solutions

We offer complete end-to-end services, from conceptual design and planning to procurement, construction, and commissioning, eliminating the need for multiple contractors and ensuring better coordination.

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Our Special Services

Turnkey Projects

At Radox Engineering, we deliver turnkey projects from concept to commissioning, specializing in DGS dryers, Zero Liquid Discharge (ZLD) plants, and food processing plants. We handle every stage with precision, ensuring seamless execution, sustainability, and on-time delivery to meet our clients' unique needs.

Process Technologies

At Radox Engineering, we offer advanced process technologies tailored to industries like ethanol production, food processing, and water treatment. Our expertise includes designing efficient DDGS dryers, Zero Liquid Discharge (ZLD) systems, and customized solutions that enhance productivity.

Design & Detail Engineering

At Radox Engineering, our design and detail engineering services focus on delivering precise and efficient solutions. Using advanced software and industry best practices, we create optimized designs for DDGS dryers, Zero Liquid Discharge (ZLD) plants, and industrial facilities, ensuring quality and seamless execution.

Project Management

At Radox Engineering, our project management services ensure the successful execution of every project. From planning to commissioning, we manage timelines, resources, and quality, ensuring seamless coordination and on-time delivery of DDGS dryers, Zero Liquid Discharge (ZLD) plants, and industrial projects.

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