

Covalent Projects

ESTABLISHING A CENTER OF EXCELLENCE IN BIOFUEL MANUFACTURING

India's biofuel industry is undergoing a significant shift, driven by the country's need for energy security, environmental protection, and rural development. With the National Biofuel Policy aiming for 20% ethanol blending by 2025, biofuels have become central to India's renewable energy strategy. In this evolving sector, Covalent Projects & Engineering Pvt. Ltd. has positioned itself as a leader, offering cutting-edge solutions in biofuel production while emphasizing sustainability and innovation.

Founded in 2010, Covalent has focused on developing advanced solutions for the biofuel, distillery, and renewable energy sectors. Over the years, the company has consistently responded to the increasing demand for efficient biofuel production, emphasizing reduced waste and energy use. As a reliable EPC (Engineering, Procurement, and Construction) partner, Covalent delivers end-to-end solutions tailored to clients' specific needs, contributing to India's energy goals and helping to meet ambitious blending targets.

People, Process, and Technology

Covalent's success is deeply rooted in its commitment to innovation and technological advancement. The company's proprietary *Co-gnize Technology* optimizes every stage of production, from handling feedstock to ensuring zero-effluent discharge (ZLD) systems. This allows for maximum efficiency with minimal environmental impact, offering cost-effective operations that align with today's sustainability goals. The integration of advanced automation and recycling systems enhances performance, setting Covalent apart as a preferred partner in biofuel manufacturing.

"We're dedicated to delivering solutions that are not just technologically advanced but also sustainable. Our mission is to ensure that our clients can meet their biofuel production goals while maintaining high standards of environmental responsibility," says Mrs. Rashmi Sandeep Chichbankar, a leader in the company who represents Covalent's ethos of gender equity and empowerment. "At Covalent, we have women taking the lead in various departments, demonstrating our commitment to diversity and inclusion at every level of the organization. Covalent wants to give everyone an equal opportunity to contribute, with a strong focus on providing women with the platform to thrive in leadership roles."



Mrs. Rashmi Sandeep Chichbankar
Whole Time Director

We are trying to reshape the industry landscape, proving that excellence knows no limit. This culture of support and recognition allows women at Covalent to drive meaningful innovations while contributing to a more sustainable future and building the nation.”

Expanding Horizons to Meet Global Demands

Covalent has extended its expertise beyond India, establishing a growing presence in international markets such as Africa and Southeast Asia. This global expansion, combined with the company’s ability to deliver comprehensive solutions, has cemented Covalent’s reputation as a key player in biofuel production worldwide.

Its manufacturing facilities are built to meet rigorous international standards, including TEMA, ASME, SIS, DIN, API, and SSPC. This adherence to quality and safety allows Covalent to serve some of the most demanding sectors globally, including ethanol, oil & gas, and pharmaceuticals.

Pioneering Sustainability and Innovation

At the core of Covalent’s approach is its commitment to sustainability, embracing a circular economy model where resources are maximized and waste is minimized. Covalent’s patented technologies are designed to increase efficiency in sectors such as sugar, ethanol, and advanced biofuels. The focus on energy conservation, waste reduction, and automation is setting new benchmarks in biofuel manufacturing, positioning Covalent as a leader in green technology.

The company’s biofuel plants are equipped with state-of-the-art automation systems, which enable remote monitoring and control for more precise operations. This design flexibility ensures that clients can adapt to changing industry trends and technological advancements while maximizing output and minimizing waste.



A Vision for the Future

As Covalent continues to expand its international reach, the company remains true to its values of transparency and social responsibility. “ We believe in maintaining an honest and transparent work culture, with a strong commitment to innovation and sustainability that benefits both our clients and society as a whole,” says Mrs. Rashmi Sandeep Chichbankar.

With a growing client base across multiple industries, including ethanol, biofuels, pharmaceuticals, and oil & gas, Covalent is well-positioned for continued growth and success. The company’s engineering team, composed of skilled professionals with expertise across various disciplines, plays a pivotal role in delivering high-performance solutions that meet the unique demands of its clients.

Shaping a Sustainable Future

Looking ahead, Covalent Projects aims to reinforce its leadership in biofuel manufacturing, staying committed to ethical business practices, continuous innovation, and contributing to the greater good. By focusing on creating value for its stake holders and improving the quality of life for communities, Covalent is dedicated to forging a sustainable future for generations to come.

