

Let's Build Your Ethanol Plant

Together



Our References:



Let's Discuss:

- ▶ New Ethanol plant setup
- ▶ Conversion from RS to fuel Ethanol
- ▶ 2G Ethanol feasibility
- ▶ Extra Neutral (Portable) Alcohol - ENA
- ▶ Extra Quality Rectified Spirit
- ▶ Ethyl Acetate
- ▶ Zero Liquid Discharge - ZLD
- ▶ Energy Optimization - Opex Optimization)

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End-to-End EPC Solutions for Ethanol, Distillery & Sugar Plants

1G & 2G Process Engineering | Turnkey Execution |
Sustainable, Efficient & Future-Ready

www.kmvindustries.com

About Us

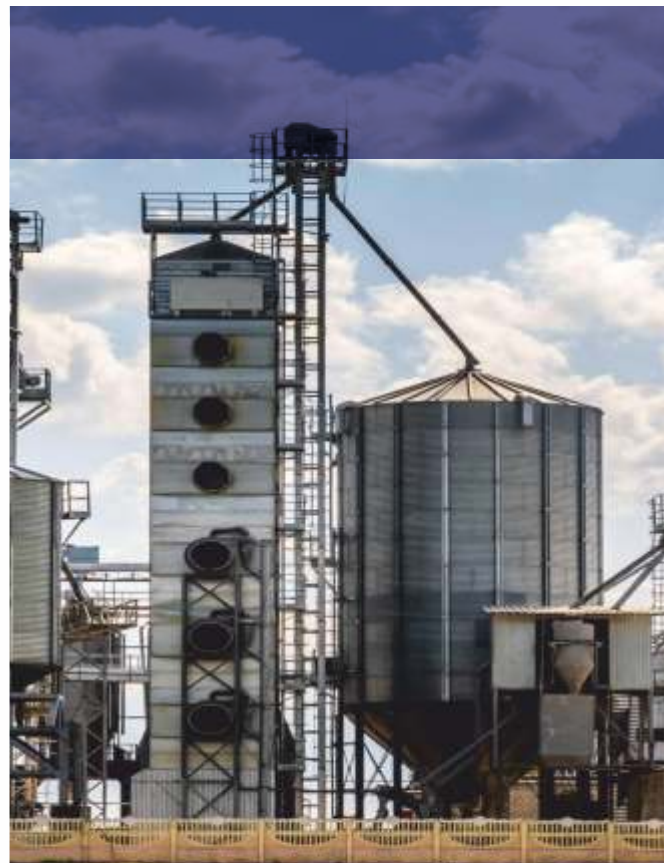


Your EPC Partner in Ethanol & Bioenergy

KMV Industries is a specialized EPC (Engineering, Procurement & Construction) firm delivering high-performance ethanol plant solutions across India. Founded by experienced professionals from the biofuel and sugar sectors, we provide process-driven engineering services, not just equipment.

From fermentation design to distillation, evaporation, dehydration, and ZLD integration — we deliver custom-built, turnkey ethanol plants optimized for feedstock, cost, and compliance.

Whether you're starting a new project or modernizing an old one, KMV brings technical depth, regulatory understanding, and operational excellence under one roof.



Key Highlights:

- 1G & 2G Ethanol Project Execution
- Feedstock Versatility
- Turnkey EPC Solutions
- Sustainability-Focused Design
- Regulatory Compliance Support

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Our Expertise



Expertise Rooted in Process. Designed for Performance.

• 1G Ethanol Plant Capabilities:

Fermentation design for sugarcane juice, C & B-heavy molasses, grains, sugar beet
Distillation systems for Rectified Spirit (RS), ENA & Fuel-Grade Ethanol Dehydration using Molecular Sieve Technology Spent wash evaporation and condensate recovery

Spares Supply:

We supply all types of spares for distillery, ethanol and sugar industry plants, ensuring reliability and minimising downtime across operations.

• 2G Ethanol Plant Capabilities:

Biomass pre-treatment (Agri-waste, lignocellulosic material) Enzymatic hydrolysis and C5/C6 sugar fermentation Integrated dehydration and distillation Suitable for rice straw, wheat straw, corn cobs, bagasse, etc.

• Speciality Process Solutions:

Ethyl acetate production from ethanol/rectified spirit
ZLD-Integrated systems for environmental compliance
Energy-saving plant layouts with heat integration

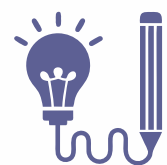


Our EPC Services



Complete Engineering Execution From Paper to Plant

We deliver every project with
a structured and tested approach:



Feasibility & Conceptualization

- Techno-economic feasibility
- Feedstock evaluation
- Preliminary energy balance



Basic & Detailed Engineering

- Process flow diagrams (PFDs) & P&IDs
- Civil/structural layouts & 3D modeling
- Equipment sizing & utility planning



Construction & Commissioning

- Site erection coordination
- Instrumentation and automation setup
- Trial runs, SOPs, handover documentation



Post-Commissioning Support

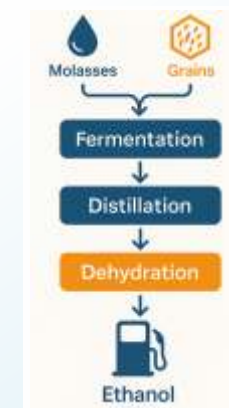
- Operator training
- Remote technical assistance
- Plant audits & upgrade planning

Technology Leadership

1G & 2G Ethanol Process Technology

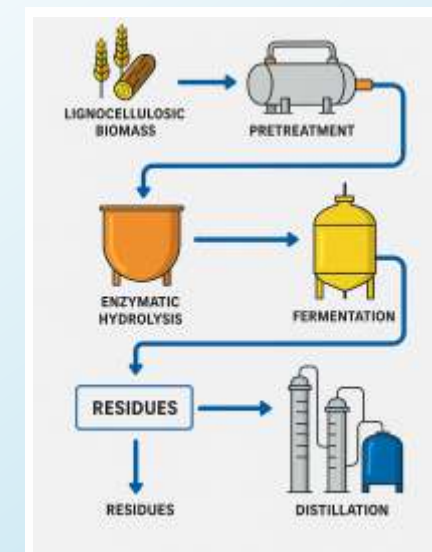
First-Generation (1G) Ethanol:

- Feedstock: Molasses, Sugarcane Juice, Grains, Sorghum
- Alcohol Grades: RS, ENA, Fuel Ethanol
- High Recovery, Low Steam Designs
- Automated Fermentation & Distillation Control



Second-Generation (2G) Ethanol:

- Feedstock: Agricultural Waste (Rice Straw, Bagasse)
- Biomass Hydrolysis, C5/C6 Sugar Fermentation
- Advanced Distillation + Dehydration
- Designed for low carbon intensity and waste valorization



Sustainability Add-ons:

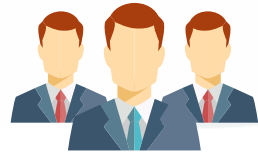
- Multi-effect evaporation (MEE)
- ZLD compliance systems
- Heat recovery systems
- Water & condensate reuse design



DDGS Dryer Solution:

- Integrated, energy-efficient drying of DDGS for grain-based ethanol plants
- Converts byproduct into protein-rich animal feed with optimised heat recovery
- Energy-saving plant layouts with heat integration

Our Distinct Advantage



Why KMV Is the Right EPC Partner for Ethanol Projects

- **Versatility Across Feedstocks**

We've designed systems for sugarcane juice, molasses, grains, and agri-residues — offering tailor-made engineering for every scenario.

- **Process-Led Execution**

We prioritize energy and water optimization, not just equipment installation. Every step is process-calculated and efficiency-driven.

- **Compliance-First Design**

Our designs are aligned with PESO, fire safety, pollution control, and environmental clearance norms — helping clients avoid delays.

- **Technology That Evolves With You**

Our platform is designed for future upgrades, carbon credit integration, and biofuel policy shifts. We're building long-term value, not just plants.

- **End-to-End Support**

From feasibility to technical audits and SOP development, KMV is your partner from project start to performance scale-up.

Project Highlights & Client Base



**Projects We've Supported.
Partnerships We Value.**

- Delivered critical process systems for 30+ KLPD to 220+ KLPD ethanol capacities
- Supported distillery units with energy recovery and ZLD retrofits

Project Capabilities Include:



Feedstock
Flexibility Designs



Waste-to-Ethanol
Feasibility Studies



Distillation
Column Optimization



Utility Layouts &
Cogeneration Integration