



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

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

About Us



Your EPC Partner in Ethanol & Bioenergy

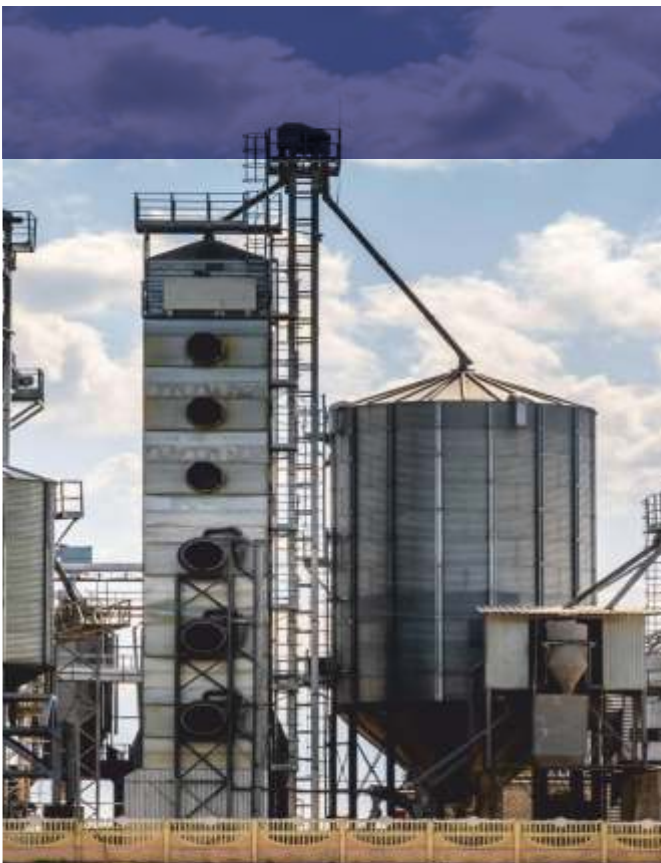
KMV Industries is a specialized EPC (Engineering, Procurement & Construction) firm delivering high-performance ethanol plant solutions across India. Founded by experienced professionals from the biofuel and sugar sectors, we provide process-driven engineering services, not just equipment.

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



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

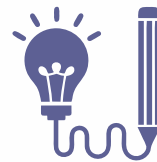


Our EPC Services



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

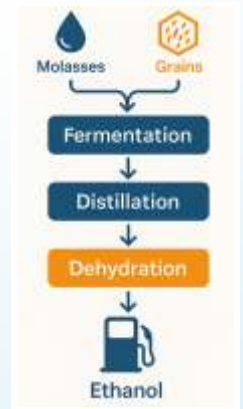
Technology Leadership



1G & 2G Ethanol Process Technology

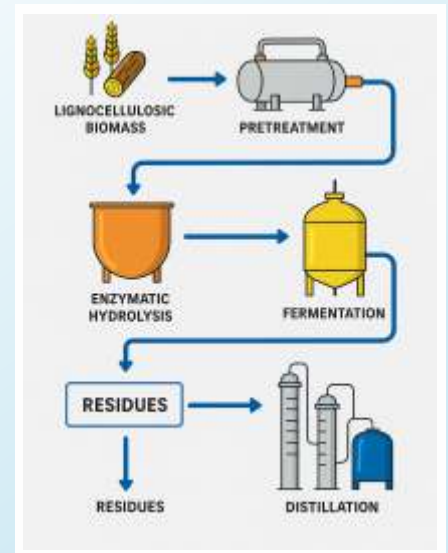
First-Generation (1G) Ethanol:

- 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

Our Reference:

Project Through

Praj Industries Limited

Butter Biofuels, Boudh Distillery, Barghrah Biofuels,
Baidyanath Biofuels, Jurala Organics, Dhanuka Biotech,
Radico Kaitan, Radico NV Distillery, Parag Agro, Trivini Engg.,
Kadwa SSK, Kapeeshwar Sugars, Shiraguppi Sugar, Uttam Distilleris,
Associates Alcohols, Rajshree Fine Chemical.

Project Through

ISGEC HEAVY ENGG LTD

Kedarnath Sugar, Pancha Ganga Sugar, JGN Sugar
West Kenya Sugar, Shivneri sugars

Project Through

Regreen Excel EPC India Ltd.(RGEPL)

Dalmia, Kribhaco, Grain Span, Bharat Spirit, Neelshree Sugar,
Globus Spirit, Oasis, CIL-NOVA, UKR, RAR, Bor Seker A.S(Turkey)

Let's Build Your Ethanol Plant

Together



Let's Discuss:

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



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