



Pharma Grade Alcohol Plants from Praj

Maximizing assets for pharma and industrial grade alcohol

Sustainability is the core of fuel ethanol industry across the world. Whether combatting climate change or helping increase farmer income, fuel ethanol has helped sustain the planet and provide for its people.

In the current pandemic situation, the ethanol industry can supply bio-based pharma grade alcohol to deter the spread of the virus. The uncertain demands for fuel ethanol for transportation has led to spare capacity which can be utilized to produce high purity alcohol.

As a leading technology partner of the global ethanol industry for over 30 years, Praj offers fuel ethanol producers an opportunity to maximize existing assets by diverting surplus ethanol to produce high quality pharma grade alcohol.

Industrial applications



Electronic/
semiconductors



Cosmetic
and toiletries



Chemical intermediates
such as polymers
& plastics



As a solvent

Pharmaceutical applications



Hand
sanitizers



Injections
and syringe



Syrups,
antibiotics, etc.



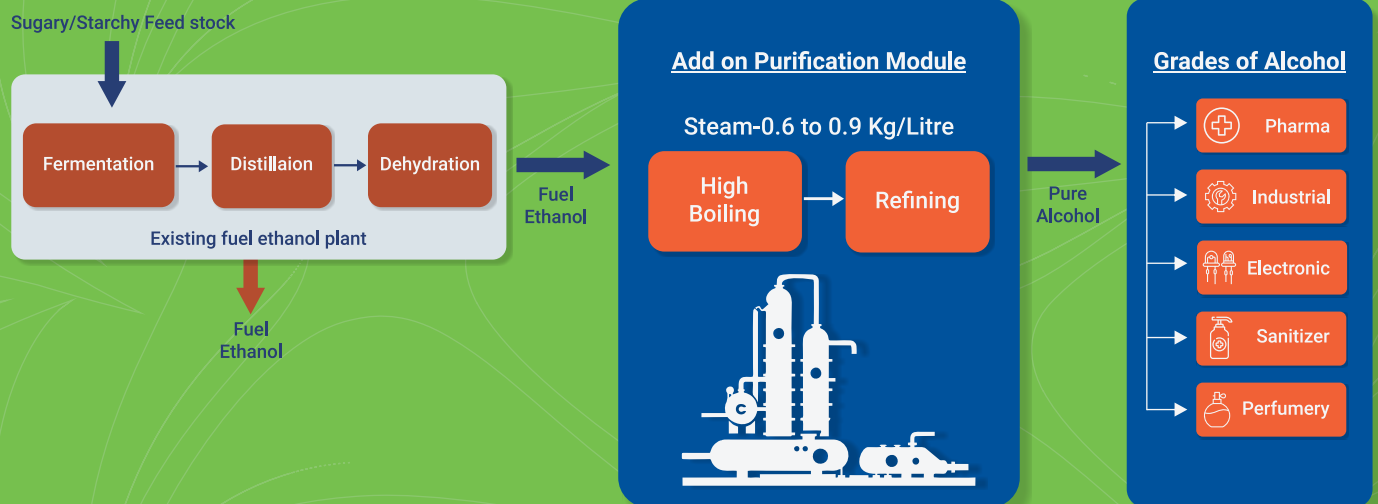
Disinfectant for medical
/laboratory instruments
& equipment

All uses and applications have their own specifications for purity of base alcohol. Given Praj's experience and expertise, the company can provide innovative technologies to offer flexibility to produce multiple grades of pure alcohol from a single plant.

Technology to produce various grades of Pure Alcohol from Fuel Ethanol

- Input from existing fuel ethanol plant or commercially available fuel ethanol.
- High degree of impurity separation and removal in a single module.
- No loss of ethanol, 99.9% efficient.

- Minimum investment and operating cost required to produce finest quality alcohol (almost all impurities <1 ppm individually).
- Value-added product offers better viability and flexibility to produce different grades of pure alcohol.



Advantages

- Low investment multi-product plant.
- Stand alone, plug and play module to the existing ethanol plants.
- Modular systems with capacities ranging from 30 (M³/day) KLPD to 300 (M³/day) KLPD.
- Zero waste plant. No environmental clearance required.
- Meets specifications of European, British and US Pharmacopoeia standards.
- Also complies with Thailand and India pharma grade specifications.
- Maximum impurities can be less than 1 ppm individually e.g. Methanol, Aldehydes, higher alcohols individually etc.

References in Operation:



- More than 10 plants in Asia
- 5 plants in Europe
- 3 plants in the Americas

praj | HiPurity Systems

Skid-mounted Sanitizer Plants from Praj HiPurity Systems

- Open access to Praj's sanitizer technology which is in line with WHO guidelines.
- 2 KL and 5 KL plants readily available.



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