

FID Readiness Overview – Investor Brief

Penukonda Biofuels | 65 KLPD Grain-Based Bioethanol Project

Investment Context

India's accelerated E20 blending mandate has created a structural ethanol supply gap, particularly in Southern India. Penukonda Biofuels addresses this gap through a right-sized, decentralized 65 KLPD grain-based ethanol facility, designed for feedstock security, regulatory compliance, and execution discipline.

Project Fundamentals

- Annual Ethanol Output: ~2.1 crore liters (330 operating days)
- Primary Feedstock: Maize (regional catchment)
- Secondary Feedstock: Broken rice / DFG (as applicable)
- Water Strategy: ZLD with 250–300 KLD net intake
- Energy Strategy: 2.5 MW captive co-generation
- By-product Revenue: DDGS for poultry and cattle feed

FID Pathway

The project is executing a structured Front-End Loading (FEL) framework to reach Final Investment Decision. FEL-0 is complete, locking capacity and site. FEL-1 activities include feedstock validation, process licensor selection, site investigations, water allocation confirmation, and initiation of environmental approvals.

Current Status Summary

- Project Definition: Completed (65 KLPD capacity locked)
- Feedstock Study: In progress (170 TPD validation within ~50 km radius)
- Process Configuration: In progress (licensor evaluation)
- Site & Utilities: In progress (water allocation, geotechnical survey)
- Regulatory: EIA initiation for APPCB Red Category clearance
- Costing: Class 3 CAPEX estimate planned (+/-20%)
- Commercials: OMC offtake framework under development

Leadership

Promoters: Mr. Israr Khan, Mr. Muddassar Ahmed

Advisor: Mr. M. Sadath Mehaboobjan

The leadership team emphasizes disciplined capital deployment, execution certainty, and regulatory compliance over speculative scale.