

INDUSTRIAL CASE STUDY

Biomass-to-Biofuel Feedstock Drying

Continuous Industrial-Scale Thermal Drying System — 2 Tonnes Per Hour Output Capacity

Designed, Engineered & Validated by KERONE Engineering Solutions Limited

2 TPH PLANT CAPACITY <i>Dried Biomass Output</i>	120°C PROCESS TEMP. <i>Hot Air, Co-current</i>	45 min RESIDENCE TIME <i>3-Pass Rotary Drum</i>	<10% FINAL MOISTURE <i>From 35% As-Received</i>	~2.2 Yrs PAYBACK PERIOD <i>At Pellet Market Value</i>
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Project Reference Detail

Field	Detail
Client Organisation	Sundrop AgriEnergy Pvt. Ltd. — Agri-residue biomass pellet & briquette manufacturer
KERONE Reference	KRDC/ICS/BiomassDryer/2025-02 Based on KRDC Lab Report 52/KRDC/LAB/22
Technology	Continuous 3-Pass Rotary Drum Dryer with Co-current Hot Air System
Feedstock	Blended agri-residue (mustard husk + cotton stalk fines) — 35% moisture (as-received)
Product Output	Biofuel-grade dried biomass for pelletizing — <10% moisture, GCV ~4,150 kcal/kg
Plant Location	Client facility (biomass pelletizing plant) — Inline ahead of existing pellet mill
Document Date	July 2026 Validated on KRDC Lab Data — May 2026

Agricultural Residue Valorisation | Biomass Drying | Biofuel Pellets & Briquettes | Renewable Energy | Circular Economy | Thermal Processing

Executive Summary

Sundrop AgriEnergy Pvt. Ltd., a growing biomass pellet and briquette manufacturer supplying agri-residue-based solid biofuel to industrial boiler and co-firing customers, faced a recurring production bottleneck: incoming agricultural residue — a mustard husk and cotton stalk fines blend sourced from regional farms — arrives at 35% moisture content, well above the 10-12% ceiling required for stable pelletizing and combustion-grade calorific value. Feeding wet, inconsistent biomass directly into the pellet mill caused frequent die jamming, high specific energy consumption, and pellets that failed durability and moisture specifications for premium biofuel buyers.

KERONE Engineering Solutions Limited was engaged to design, validate, and specify an industrial-scale continuous drying system capable of conditioning this raw agri-residue to pelletizing-ready moisture at a throughput of 2 Tonnes Per Hour (2 TPH) of dried biomass output.

Following structured laboratory trials at KRDC (Kerone Research & Development Centre) using a pilot rotary drum drier across multiple residence times (20 min, 45 min, 75 min) and hot-air inlet temperatures, the optimal industrial process parameters were established. The KERONE continuous 3-pass rotary drum dryer — operating at 120°C hot-air inlet with a 45-minute material residence time — delivers moisture reduction from 35% to below 10%, and raises gross calorific value (GCV) from 3,200 kcal/kg to approximately 4,150 kcal/kg.

CHALLENGE	KERONE SOLUTION	OUTCOME ACHIEVED
Raw agri-residue at 35% moisture and 3,200 kcal/kg GCV — causing pellet mill jamming and rejection from premium biofuel buyers at INR 2,000-2,800/tonne.	Continuous 2 TPH, 3-pass rotary drum dryer at 120°C hot-air inlet, 45-min residence — validated from KRDC pilot drying trials.	Dried biomass at <10% moisture, ~4,150 kcal/kg GCV — pellets commanding INR 7,000-9,000/tonne in the solid biofuel market.

Key Performance Summary

KPI	Raw Feedstock (Baseline)	After KERONE Processing (2 TPH Plant)	Improvement
Moisture Content	35%	< 10%	71% reduction
Gross Calorific Value (GCV)	3,200 kcal/kg	~4,150 kcal/kg	+30% increase
Bulk Density (loose → pelletized)	90 kg/m³	~650 kg/m³ (pelletized)	7.2x increase
Market Value (Biofuel Pellet Grade)	INR 2,000-2,800/t	INR 7,000-9,000/t	3-4x price premium
Product Classification	Raw agri-residue / low-grade fuel	ENplus/ISO 17225-compliant pellet feedstock	Grade uplift
Annual Revenue Potential	INR 1.7-2.4 Cr/yr	INR 10-13 Cr/yr at 6,000 hr/yr operation	5-6x uplift

Industry Context & The Business Challenge

India generates an estimated 500-550 million tonnes of crop residue annually, of which a significant share — including mustard husk, cotton stalk, paddy straw, and similar agri by-products — is currently burnt in the field or under-utilised, contributing to air quality concerns across northern and western India. Converting this residue into densified solid biofuel (pellets and briquettes) for industrial boilers and biomass co-firing is a fast-growing segment, but the raw material's high as-received moisture (30-40%) is the single largest barrier to consistent pellet quality.

The Indian biomass pellet market is expanding rapidly, driven by the Ministry of Power's biomass co-firing directive for coal-based thermal plants (targeting 5-7% biomass co-firing) and rising industrial demand for boiler fuel as an alternative to coal and furnace oil. However, pellet manufacturers consistently report that feedstock moisture variability — not raw material availability — is their primary production constraint, since wet biomass increases specific energy consumption at the pellet mill, reduces pellet durability index (PDI), and can push finished product below the moisture ceiling required for BIS/ISO 17225 solid biofuel classification.

The Commercial Problem — Why Wet Biomass Has Low Value

Quality Parameter	Raw Agri-Residue (Sundrop AgriEnergy)	Market Requirement (Premium Biofuel Pellet)	Gap
Moisture Content	35%	< 10-12%	FAIL — 3x over limit
Gross Calorific Value	3,200 kcal/kg	> 4,000 kcal/kg	FAIL — below spec
Bulk Density (loose)	90 kg/m ³	> 600 kg/m ³ (pelletized)	FAIL — requires densification
Market Price Realised	INR 2,000-2,800/t	INR 7,000-9,000/t	3-4x revenue gap

Table 1: Raw agri-residue quality parameters vs market specification for biofuel-grade pellets | Source: KRDC Analysis & ISO 17225-2 Pellet Grade Requirements

Revenue Opportunity — Upgrading Existing Feedstock Stream

The Opportunity: At 2 TPH dried-biomass output operating 250 days/year (6,000 hours), the annual product volume is approximately 12,000 tonnes of pelletizing-ready biomass, drawn from roughly 17,300 tonnes of wet as-received residue. At current raw agri-residue prices of INR 2,400/tonne, the feedstock represents INR 4.15 Cr/year of raw input value. Post-drying and pelletizing, the same volume as premium biofuel pellets at INR 8,000/tonne generates INR 9.6 Cr/year in finished-product revenue — before accounting for pellet-mill throughput gains and energy savings from processing conditioned, low-moisture feedstock.

About Sundrop AgriEnergy Pvt. Ltd.

Sundrop AgriEnergy Pvt. Ltd. is a regional agri-residue aggregator and biomass pellet manufacturer supplying industrial boiler customers and biomass co-firing programmes across western India, with an installed pelletizing capacity of over 30,000 tonnes/year. Their operations span residue procurement from contracted farms, pre-processing, densification, and direct supply to cement, textile, and thermal power off-takers — positioning them as an ideal anchor client for KERONE's biomass drying technology. The KRDC trial was conducted on Sundrop's actual production feedstock (25 kg sample, dispatched 2 May 2026) to ensure industrial relevance of all process parameters.

Process Validation — From KRDC Lab to Industrial Scale

KERONE's engineering approach mandates laboratory-scale validation before any industrial system specification. The KRDC (Kerone Research & Development Centre) conducted a structured experimental programme on Sundrop AgriEnergy's actual agri-residue blend over 5 days (4-8 May 2026), using a pilot rotary drum drier to establish the process envelope that informs the 2 TPH industrial plant design.

KRDC Experimental Programme — Key Findings

Test Condition	Residence Time	Moisture Reduction	Outlet Moisture	Assessment
Control (no hold)	0 min	< 2%	~34%	Baseline — raw biomass
Short hold	20 min	~14%	~21%	Insufficient — rejects pellet spec
OPTIMAL	45 min	25%	9.6%	Optimal for pelletizing-grade biomass
Extended hold	75 min	26.5%	8.1%	Marginal gain — diminishing energy return

Table 2: KRDC Laboratory Results — 120°C hot-air pilot drum drier trials on Sundrop AgriEnergy agri-residue blend | KRDC Test Report 52/KRDC/LAB/22 | Moisture measured per IS 1350 (Part-I), oven-dry basis

Scale-Up Methodology — Lab to 2 TPH

KERONE's scale-up process follows a structured engineering framework where laboratory parameters are translated to industrial equipment specifications using validated thermal and mass-transfer engineering models. The key translation factors for this project are:

Parameter	KRDC Lab (Pilot Drum Drier)	Industrial Plant (2 TPH Rotary Dryer)	Scale-Up Factor
Hot-Air Inlet Temperature	120°C	120°C	1:1 (direct)
Optimal Residence Time	45 min	45 min residence	1:1 (direct)
Throughput	~1.5 kg/run	3,000 kg/hr (wet feed)	~2,000:1
Air Flow Regime	Co-current, fixed rate	Co-current, zone-controlled	Adapted
Heating Source	Electric hot-air (lab)	Biomass-fired hot air generator (3-zone)	Configuration change
Drying Mode	Batch (rotating pilot drum)	Continuous 3-pass rotary drum	Configuration change
Cooling	Ambient (in-tray)	Ambient forced-air cooling conveyor	Enhanced
Feed System	Manual loading	Belt conveyor + vibratory feeder, auto control	Automated

Industrial Plant Design — 2 TPH Continuous Processing System

Process Flow Overview

FEEDSTOCK INTAKE Wet agri-residue, 3,000 kg/hr	FEED PREPARATION Screening & size reduction (<25mm)	ROTARY DRUM DRYER 120°C 45 min residence 3-pass co-current	COOLING & SCREENING Ambient cooling, fines separation	QUALITY ANALYSIS Moisture, GCV, bulk density checks	PRODUCT STORAGE Dried biomass, <10% moisture, ready for pelletizing
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Fig. 1: KERONE 2 TPH Biomass Drying — Continuous Industrial Process Flow

System Architecture — Major Process Units

Unit / Section	Equipment	Design Parameters	Function
U-01: Feed Preparation	Hammer Mill + Vibro Screen + Belt Conveyor	25 mm screen 3,200 kg/hr rated	Size-reduce oversized stalk material; ensure uniform feed to dryer
U-02: Hot Air Generation	Biomass-Fired Hot Air Generator (3-zone)	120°C outlet Thermic capacity ~1.8 million kcal/hr	Generate clean hot air for co-current drying; self-fuelled from process fines/rejects
U-03: Rotary Drum Dryer (Primary Process Unit)	KERONE Continuous 3-Pass Rotary Drum Dryer	3,000 kg/hr wet feed 120°C inlet 45 min residence L/D = 8:1	Core thermal processing — moisture removal, GCV upgrade
U-04: Air Handling	Induced Draft Fan + Cyclone Separator	Air flow: 18,000 Nm³/hr Cyclone efficiency >95%	Convey and recover fine biomass particles from exhaust air stream
U-05: Emission Control	Multi-Cyclone + Bag Filter	PM < 30 mg/Nm³ CPCB Stack Norms Compliant	Capture fine biomass dust; meet emission compliance
U-06: Cooling Zone	Forced-Air Cooling Conveyor	Inlet: 90°C Outlet: <40°C 2,200 kg/hr	Cool dried biomass before storage; prevent spontaneous heating/spoilage
U-07: Product Handling	Belt Conveyor + Bagging / Silo Loading	Load cell-based auto weighing	Transfer dried biomass to storage silo or direct feed to pellet mill
U-08: Process Control	PLC/SCADA Control Panel	Siemens S7 / Allen Bradley Remote monitoring capable	Automated temperature, air flow, residence time control; data logging

Table 3: Process Unit Descriptions — KERONE 2 TPH Continuous Biomass Drying Plant | U-03 (Rotary Drum Dryer) is the primary process unit; all others are ancillary

Core Equipment Specification — KERONE Rotary Drum Dryer

The KERONE Continuous 3-Pass Rotary Drum Dryer is the heart of the biomass conditioning system. Designed and manufactured in-house at KERONE's Ambarnath facility, it directly scales the validated laboratory parameters from KRDC trial 52/KRDC/LAB/22 to industrial throughput while maintaining the identical hot-air temperature profile and residence time that produced the sub-10% moisture result.

ROTARY DRUM DRYER — CORE SPECIFICATIONS	
Design Throughput	3,000 kg/hr (wet biomass input) / ~2,150 kg/hr (dried output)
Hot-Air Inlet Temperature	120°C (max design: 180°C)
Residence Time	45 min (adjustable 20-75 min via drum RPM & flight design)
Drum Dimensions	ID 2,000 mm x L 16,000 mm (3-pass concentric shell), MS construction
Air Flow Configuration	Co-current, 3-pass internal lighting
Drive System	VFD-controlled 15 kW gear motor with support rollers & thrust rollers
Installed Power	~55 kW (dryer drive, ID fan, feeder — excludes hot-air generator fuel)
Shell Material	MS plate, 8 mm, with internal lifting flights
Insulation	Mineral wool cladding — 75 mm
Sealing	Labyrinth/trunnion seals at feed & discharge ends (low air ingress)

KERONE Rotary Drum Dryer — industrial unit scaled to ID 2,000 mm x 16,000 mm L, 3-pass configuration

Utilities & Ancillary Requirements

Utility	Specification	Consumption (at 2 TPH output)	Source
Electrical Power	415V, 3-phase, 50Hz	~55 kW connected ~42 kW avg demand	Site utility
Biomass Fuel (Hot Air Gen.)	Agri-residue / wood waste, <20% moisture	~450 kg/hr	Site biomass / process rejects
Compressed Air	6 bar dry instrument grade	10 Nm ³ /hr	Air compressor (site)
Cooling	Ambient forced-air (no water cooling required)	18,000 Nm ³ /hr air flow	Ambient / ID fan
Space Requirement	Building / covered shed	L 22m x W 8m x H 6m	New shed or existing bay

Emission Compliance

Emission Point	Pollutant	Expected Level	CPCB / MoEF Limit	Status
Dryer exhaust (after cyclone + bag filter)	PM10	< 25 mg/Nm ³	50 mg/Nm ³	COMPLIANT
Hot air generator stack	PM	< 30 mg/Nm ³	50 mg/Nm ³	COMPLIANT

Emission Point	Pollutant	Expected Level	CPCB / MoEF Limit	Status
Cooling conveyor / handling (bag filter outlet)	Biomass Dust	< 20 mg/Nm ³	50 mg/Nm ³	COMPLIANT

Mass Balance & Energy Analysis — 2 TPH Operation

Detailed Mass Balance — Per Hour at Full Load

Stream	Material	Flow Rate (kg/hr)	Notes
Feed (IN)	Raw agri-residue (as-received)	3,000	35% moisture, Sundrop AgriEnergy quality
Moisture Removed	Water vapour (via exhaust/cyclone)	~833	~25% of feed at 45-min residence
Product (OUT)	Dried biomass (pelletizing-ready)	~2,150	< 10% moisture; GCV ~4,150 kcal/kg
Fines (recovered)	Cyclone + bag filter fines	~12	Recycled to hot-air generator as fuel
Combustion products (hot-air gen.)	CO2, H2O, trace particulates	Stack	Meets CPCB emission limits

Table 4: Mass balance — 2 TPH continuous biomass drying plant | Based on validated KRDC lab data scaled to industrial throughput

Energy Consumption Estimates

Energy Category	Equipment / Unit	Power / Fuel	Load Factor	Consumption (per tonne product)
Hot Air Generation	Biomass-fired hot air generator	Biomass: 450 kg/hr	100%	~210 kg biomass/t
Drum Drive	15 kW gear motor + rollers	15 kW	80%	~5.6 kWh/t
Air Handling	ID fan + cyclone	22 kW	90%	~9.2 kWh/t
Feed & Conveying	Hammer mill + conveyors + feeder	13 kW	75%	~4.5 kWh/t
Emission Control	Bag filter + control system	5 kW	85%	~2.0 kWh/t
TOTAL (Electrical)		~55 kW		~21 kWh/t + 210 kg biomass fuel/t

Table 5: Energy consumption estimate — 2 TPH biomass drying plant | Based on KERONE engineering estimates; hot-air generator largely self-fuelled from process fines and site biomass residue

Product Quality Specification & Market Applications

Expected Product Specification — KERONE Dried Biomass

Parameter	Test Method	Raw Biomass (Input)	Dried Biomass (45-min)	Pelletized Product	ISO 17225-2 (A2/B Grade)
Moisture Content	IS 1350 (P-I)	35%	~9.6%	< 10%	< 10%
Gross Calorific Value	IS 1350 (P-II)	3,200 kcal/kg	~4,150 kcal/kg	~4,100 kcal/kg	> 4,000 kcal/kg
Ash Content	IS 1350 (P-I)	6.8%	~6.9%	~7.0%	< 8%
Bulk Density	By measurement	90 kg/m ³ (loose)	110 kg/m ³ (loose)	~650 kg/m ³	> 600 kg/m ³
Fines (< 3.15mm)	Sieve analysis	N/A	~4%	< 1% (after pelletizing)	< 1%
Product Grade	Classification	Raw residue only	Pelletizing-ready feedstock	ENplus/ISO 17225 pellet	Reference spec

Table 6: Product quality specification — raw biomass vs KERONE-dried biomass vs finished pellet vs ISO 17225-2 reference grade

Market Applications for Dried Biomass / Biofuel Pellets

- **Industrial Boiler Fuel** — Textile, chemical, and food processing plants substitute coal/furnace oil with biomass pellets for steam generation, targeting 100% replacement in retrofitted boilers.
- **Coal Co-Firing** — Thermal power plants blend biomass pellets at 5-7% with coal per Ministry of Power directives; dried, consistent-moisture feedstock is essential to meet co-firing fuel specifications.
- **Cement Kiln Alternative Fuel** — Cement manufacturers use densified biomass as a partial kiln fuel substitute, valuing consistent GCV and low moisture for stable combustion.
- **Briquette Manufacturing** — Dried biomass feeds directly into briquetting presses for industrial and household fuel applications, avoiding the die-jamming issues associated with wet feedstock.
- **Export Markets** — Dried, ISO 17225-compliant biomass pellets qualify for export to EU and East Asian markets seeking certified renewable solid fuel.

Financial Analysis & Return on Investment

CAPEX Estimate — 2 TPH Plant

Cost Head	Scope	Estimated Cost (INR Lakhs)	Notes
Rotary Drum Dryer (Primary Equipment)	KERONE supply, factory tested	22-26	FOT Ambernath; includes drive, seals, controls
Hot Air Generator	Biomass-fired, 3-zone	8-10	Includes fuel feed system
Feed Preparation	Hammer mill + vibro screen + conveyors	5-6	Sizing to <25mm
Air Handling & Cyclone	ID fan + multi-cyclone	3-4	Includes ductwork
Emission Control (Bag Filter)	CPCB-compliant stack system	4-5	Pulse-jet BF + ID fan
Cooling & Product Handling	Forced-air cooling conveyor + bagging/silo loading	3-4	Load cell filling
Electrical & Instrumentation	MCC panel, SCADA, cabling, transformer	5-6	PLC/SCADA by KERONE; site electrical by client
Civil & Structural	Foundation, shed, utilities connections	4-5	Client scope; KERONE to provide layout drawing
Commissioning, Training & Startup	KERONE commissioning team, 12-day site support	2-3	Includes operator training and performance test
TOTAL CAPEX		INR 56-69 Lakhs	Approx. range; detailed quote on enquiry

Table 7: CAPEX estimate — 2 TPH continuous biomass drying plant | All figures indicative; formal quotation on receipt of detailed enquiry

Revenue & OPEX Model — Annual Basis (6,000 hr/yr operation)

Item	Basis	INR/Year (Lakhs)	Remarks
REVENUE			
Dried Biomass / Pellet Sales	2,150 kg/hr x 6,000 hr x INR 8,000/t	INR 1,032 Lakhs	Conservative pellet price; market ranges INR 7-9k/t
OPERATING COSTS			
Electricity	21 kWh/t x 12,900 t/yr x INR 8/kWh	INR 22 Lakhs	Based on INR 8/kWh industrial tariff
Biomass Fuel (Hot Air Gen.)	210 kg/t x 12,900 t/yr x INR 3/kg	INR 81 Lakhs	Self-fuelled from fines/site residue where possible
Labour (Operations)	3 operators/shift x 3 shifts x 12 months	INR 18 Lakhs	At INR 22,000/operator/month CTC
Maintenance & Spares	3% of CAPEX per annum	INR 19 Lakhs	Annual maintenance provision

Item	Basis	INR/Year (Lakhs)	Remarks
Miscellaneous & Overheads	QC testing, consumables, admin	INR 8 Lakhs	
NET PROFIT BEFORE TAX		INR ~884 Lakhs/yr	Payback ~2.2 years on INR 62L CAPEX

Table 8: Revenue & OPEX model — 2 TPH plant at 6,000 hr/yr | Indicative figures; actual revenue depends on biofuel pellet market price and product grade achieved

Project Execution & KERONE Scope of Supply

Implementation Timeline

Phase	Activity	Duration	KERONE Deliverable
Phase 0 — Pre-Order	Technical consultation, site visit, process design freeze, commercial negotiation	3-5 Weeks	Process Design Basis (PDB), GA drawing, utility list, commercial offer
Phase 1 — Engineering	Detailed engineering: mechanical, electrical, civil layout, P&ID finalization	5-7 Weeks	Complete engineering package, vendor drawings, DFM approval
Phase 2 — Procurement	Long-lead items: drum shell, drive assembly, hot-air generator, bag filter	6-8 Weeks	Material test certificates, QC inspection reports, FAT invitation
Phase 3 — Fabrication	Rotary dryer fabrication, hot-air generator assembly, bag filter, SCADA panel	8-10 Weeks	Factory Acceptance Test (FAT) at KERONE Ambarnath; client witness invited
Phase 4 — Installation	Equipment erection at client site; ducting, electrical, instrument hook-up	3-4 Weeks	KERONE site supervision; civil and electrical by client as per KERONE drawings
Phase 5 — Commissioning	Cold trials, hot trials with agri-residue, performance guarantee test, operator training	2 Weeks	Commissioning report, performance test certificate, O&M manual, training records
TOTAL PROJECT TIMELINE	Order to commercial production	~27-36 Weeks	From purchase order to first commercial output

KERONE Scope of Supply & Services

Category	KERONE Scope (INCLUDED)	Client Scope (EXCLUDED from KERONE supply)
Process Design	Process design basis, mass balance, heat & material balance, P&ID	Feedstock quality guarantee; plant operating schedule
Primary Equipment	Rotary drum dryer (complete), hot air generator, cyclone, product handling	Feed preparation (hammer milling) if not included in enquiry scope
Emission Control	Multi-cyclone, pulse-jet bag filter, ID fan (CPCB compliant)	Stack height design and consent-to-operate from CPCB/SPCB
Controls	PLC/SCADA, MCC panel, all instruments and field wiring	DG set, main power supply connection, transformer
Civil & Structural	Foundation load drawings, GA layout, anchor bolt drawings	All civil work, sheds, platforms, ladders, drains
Commissioning	FAT, site commissioning, performance test, operator training (12 days)	Consumables (biomass fuel) for commissioning; feedstock for trials
Documentation	P&ID, GA drawings, O&M manual, spares list, test certificates	Client-side approvals, regulatory consents, insurance

Conclusions & Why KERONE

The KERONE-designed 2 TPH Continuous Biomass Drying System represents a proven, commercially validated solution to one of the most significant value-unlock opportunities in India's agri-residue-to-biofuel value chain. The process is built on rigorous KRDC laboratory data — not theoretical projections — and the industrial design directly replicates the exact process conditions that produced measurable, validated results on Sundrop AgriEnergy's actual production feedstock.

- **Proven Technology** — Every process parameter in the 2 TPH plant — 120°C hot-air inlet, 45-minute residence — is directly derived from KRDC lab trial 52/KRDC/LAB/22 on client's actual feedstock. No extrapolation; no assumptions.
- **Quantified Outcome** — Moisture reduction from 35% to below 10%, and GCV improvement from 3,200 to ~4,150 kcal/kg, are measurable, validated results — not marketing claims.
- **Commercial Clarity** — The financial model demonstrates a payback period of approximately 2.2 years at conservative biofuel pellet pricing, converting a bottlenecked feedstock stream into a INR 1,000+ Lakh/year revenue line.
- **Full Ownership** — KERONE designs, manufactures, supplies, installs, and commissions the complete plant from a single point of accountability — eliminating multi-vendor coordination risk.
- **Scalable Platform** — The rotary drum dryer platform is scalable. A 2 TPH system validated at Sundrop AgriEnergy creates the reference installation for 5, 10, and 20 TPH systems for other biomass pellet and briquette manufacturers across India.
- **Compliance-Ready** — Emission control is integral to the KERONE supply scope — the system is designed to CPCB stack norms, not retrofitted for compliance after the fact.

ENQUIRE ABOUT YOUR BIOMASS DRYING & BIOFUEL PROJECT

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To initiate a project discussion, please share: feedstock quality report + daily/annual tonnage + site location + target pellet/biofuel grade required

ISO 9001:2015 | ISO 14001:2015 | ISO 45001:2018 | CRISIL Rated Company | AIMCAL Member | IHEA Member | EMItech Certified | 50+ Years of Engineering Excellence

DISCLAIMER: All financial projections are indicative and based on prevailing market conditions as of July 2026. Process performance figures are derived from KRDC laboratory data (Report 52/KRDC/LAB/22) conducted on Sundrop AgriEnergy Pvt. Ltd. feedstock. Actual industrial performance may vary. This document is intended for discussion purposes; a formal quotation will be issued following detailed enquiry.