



SsunGust Foods & Machinery Pvt. Ltd.

COMPANY BROCHURE · 2022

**Turnkey plants for food,
water, feed and bioenergy.**

Designed, shipped and commissioned as one contract.

One desk for the mill, the hall and the first shift.

SsunGust Foods & Machinery Pvt. Ltd. is an ISO 9001:2015 company, registered under the Companies Act, 2013 and incorporated on 28 December 2022 in the State of Punjab, India. CIN U15126PB2022PTC057546.

The company is known for manufacturing and importing food-processing machinery and for setting up fully automated, working plants across India, with after-sales service and spare parts for the industry. With that knowledge and experience we have now entered the renewable and biofuel business with the same passion.

PLANT FAMILIES

- **Biomass pellet plants**
2.5–5 TPH on high-capacity mills.
- **CBG plants**
6–40 TPD from agri residue, dung and press mud.
- **Water treatment**
500 LPH to multi-MLD. RO, UF, mineral water, STP, ETP.
- **Bottle filling**
4,000–15,000 BPH PET still-water. Rinse, fill, cap, label, pack.
- **Soda filling**
Carbonated halls to European beverage practice.
- **Fish feed plants**
0.5–10 TPH floating and sinking aquafeed by extrusion.

DELIVERY

01 Feedstock & lab 02 FEED & layout 03 Build & ship 04 Commission 05 Handover

Biomass pellet plants

Complete lines from straw and wood waste to fuel pellets — not orphaned machines. High-capacity 560-class mills for continuous duty. Capacity range: 2.5 to 5 tonnes per hour on the heavy line. Installations running in Odisha.



160 kW ring-die pellet mill · Sambalpur, Odisha

2.5–5 TPH

Pellet plant capacity on high-capacity mills.

132–250 kW

Pelletising class, plus auxiliaries.

4–7 months

Typical path from FEED to first product.

PROCESS

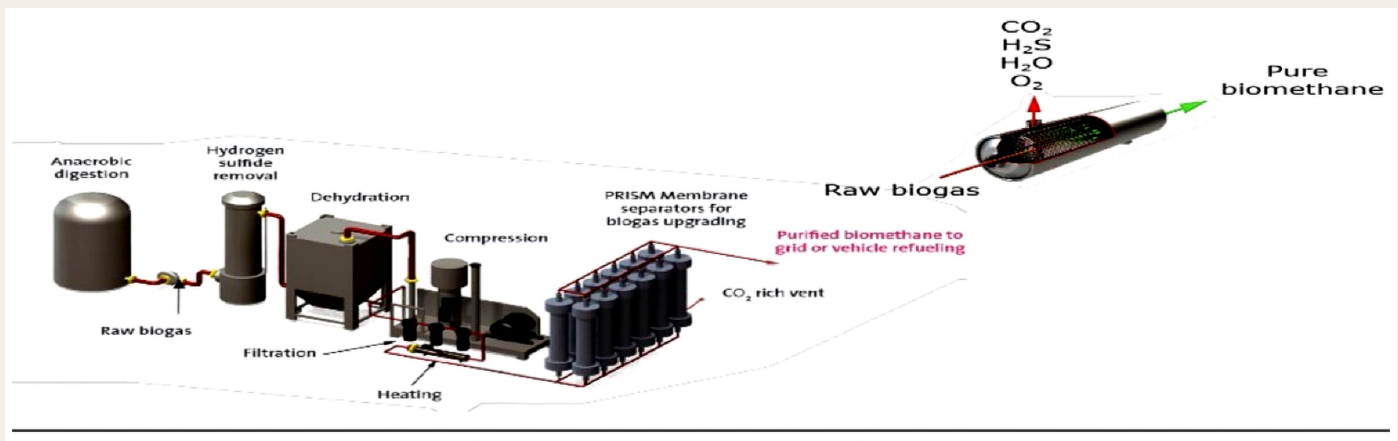
- 01 Reception, shredding, size reduction
- 02 Drying to target moisture
- 03 Conditioning and ring-die pelletising
- 04 Counter-flow cooling, screening, packing

SCOPE

Round-bale / chip intake, hammer mill, dryer
560-class ring-die mill, cooler, bagging, MCC
EN 14961 / ISO 17225 fuel practice
GB/T mill construction · CE-aligned electricals
Straw, sawdust, rice husk, wood chips, husk

Compressed biogas plants

Gas from residue. Digesters, purification and compression sized for SATAT offtake or a captive load. Feedstock tests and a mass-energy balance come before steel is cut.



Biogas purification train — digestion to grid / vehicle-grade CBG

6–40 TPD

CBG output,
sized to feedstock.

8–14 months

Typical path from
FEED to first gas.

SATAT ready

IS 16087 biogas.
EN gas-grid practice.

PROCESS

- 01 Feedstock reception and slurry prep
- 02 Anaerobic digestion
- 03 H₂S and CO₂ purification
- 04 Compression, cascade or grid injection

EQUIPMENT

Digesters and gas holders
Purification skid · compressor · cascade
Flare, instrumentation, MCC
Dung · press mud · Napier · straw · food waste

Water treatment plants

Water that meets the spec. Every shift. Process water, mineral water and effluent are three different plants. We size each train to the lab report — recovery, reject handling and CIP included. Skids arrive factory-tested. Site work is piping, electrics and commissioning against a written water-quality protocol.

500 LPH–MLD

Capacity from compact skids to municipal trains.

3–8 months

Typical path from lab report to handover.

IS 10500 / 14543

WHO drinking-water guidance · EN 806.

PROCESS

- 01 Intake, clarification, filtration
- 02 UF / RO desalting
- 03 Mineral dosing where specified
- 04 Disinfection, storage, distribution

EQUIPMENT & STANDARDS

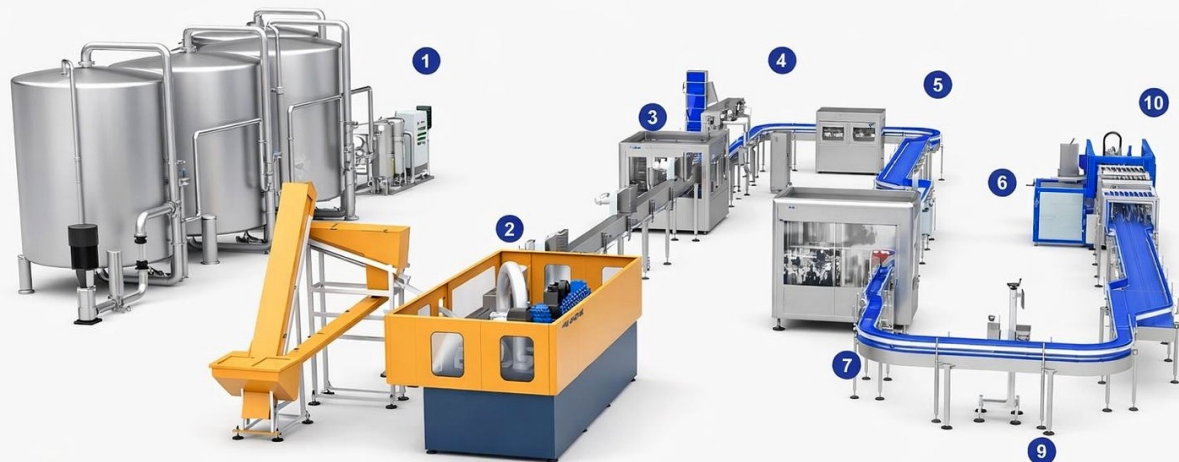
- Multimedia and carbon filters
- UF and RO skids
- Dosing and CIP
- SS storage and UV / ozone
- IS 10500 / IS 14543 packed water
- WHO guidance · EN 806 practice

TRAINS WE BUILD

- Process water** Factory utility water sized to the process, not a catalogue page.
- Mineral / packed water** IS 14543 halls ready for bottle-filling lines.
- STP / ETP** Effluent and sewage trains with reject handling included.

Bottle filling plants

A filling hall that holds hygiene and speed. Rotary rinse-fill-cap, treatment plant and packing specified as one line — 4,000 to 15,000 bottles per hour.



- | | | | |
|--------------------------------------|-------------------------------------|---|-----------------|
| 1. Water Filtration Treatment System | 2. Automatic Bottle Blowing Machine | 3. Washing Filling Capping 3in1 Machine | 4. Blow dryer |
| 5. Buffer conveyor #1 | 6. Buffer conveyor #1 | 7. Automatic Labeling Machine | 8. Date Printer |
| 5. Buffer conveyor #1 | 8. Date Printer | 9. Buffer conveyor #2 | |

Water treatment through blow, fill, cap, label and pack

4,000–15,000 BPH

PET still-water lines.

4–9 months

FEED to first bottle.

40–180 kW

IS 14543 / HACCP.

PROCESS

- 01 Water filtration and treatment
- 02 Blow moulding or bottle infeed
- 03 Rinse, fill, cap
- 04 Label, date code, pack

EQUIPMENT

Treatment skid + blow moulder
 3-in-1 rinser-filler-capper
 Labeller, coder, conveyors
 IS 14543 · FSSAI · EHEDG hygiene

Soda filling plants

Carbonation that holds from mixer to cap. Soda lines fail on temperature, pressure and CIP — not on brochure speed. We size the mixer, the chiller and the filler as one loop, with PED-minded pressure vessels and a CIP recipe the night shift can actually run. Glass and PET formats are both in scope. Changeover parts are listed, not promised later.

30–180 BPM Carbonated soft-drink and soda lines.	5–10 months Typical path from FEED to first case.	60–220 kW Mixer, chiller and filler. FSSAI CSD · IS 2346.
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PROCESS	EQUIPMENT & STANDARDS
01 Syrup room and water treatment	Beverage mixer and carbonator
02 Deaeration, dosing, carbonation	Counter-pressure filler
03 Counter-pressure fill and close	CIP unit and chiller
04 Warming, label, pack	Warmer, labeller, packer
	FSSAI CSD · IS 2346
	CE machinery / PED on pressure vessels

The mixer, chiller and filler are one thermal loop. That is how carbonation holds in the bottle instead of flashing off on the first warm shift.

Fish feed plants

Feed that floats when it should, and stays together in water. Aquafeed is a cooking problem. Bulk density, starch gelatinisation and coating pick-up decide whether pellets float, sink and survive in the pond. We set the extruder and dryer against those numbers, not against a generic pellet mill. Formulation support travels with the mechanical line so the first batch is a sellable feed.

0.5–10 TPH	5–9 months	90–400 kW
Floating and sinking aquafeed by extrusion.	Typical path from FEED to first bag.	Extruder-led line. BIS aquafeed · HACCP.

PROCESS	EQUIPMENT & STANDARDS
01 Grinding and batching	Hammer mill and mixer
02 Conditioning and extrusion	Twin-screw or single-screw extruder
03 Drying and fat coating	Dryer and vacuum coater
04 Cooling, screening, packing	Cooler, bagging, MCC
	BIS aquafeed · HACCP
	European extrusion practice

FEEDSTOCK

Fish meal · Soy · Maize · Rice bran · Oils · Premix

On the ground.

JHARSUGUDA, ODISHA · 2025–26

Turnkey biomass pellet plant

Civil interface through mill, cooling and packing. Commissioned as one job.

SAMBALPUR, ODISHA · 2025–26

160 kW pellet mill

High-capacity mill delivered and set. Eastern biomass programme.

SIRSA, HARYANA · On ground

3 TPH biomass pellet plant

Complete 3-tonne-per-hour pellet line installed in Sirsa.

JHUNIR, PUNJAB · On ground

5 TPH biomass pellet plant

5-tonne-per-hour pellet plant near Jhunir, Punjab.

PUNJAB · Upcoming · 30 days

Two 6 TPH pellet plants

Two 6-tonne-per-hour pellet plants scheduled for commissioning in Punjab within one month.

PUNJAB · HARYANA · UTTAR PRADESH · Ongoing

Round-bale shredder programme

220 kW shredders for paddy-straw bales, feeding pellet plants and boilers.

ENQUIRY

Send the feedstock. We will send the plant book.

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