



SHRI BALAJI BIOMASS SOLUTIONS

Ecofuel Revolution...



PRODUCT CATALOGUE





INTRODUCTION

We aim to convert Agriculture waste such as agricultural residues, Paddy Straw, Mustard Straw, Wood Waste, and other biodegradable materials into Biomass Pellets that serve as a renewable energy source. The process includes:

- 1. Collection** : Gathering Agriculture waste.
- 2. Preprocessing** : Drying and grinding the materials.
- 3. Pelletization** : The ground biomass is forced through a die under high pressure and temperature.

These pellets offer a sustainable alternative to fossil fuels, helping reduce greenhouse gas emissions and promoting efficient waste management. Benefits of using stubble to generate energy can be cost-effective, generate jobs, can reduce air pollution, and can replace some of the coal used to generate electricity.

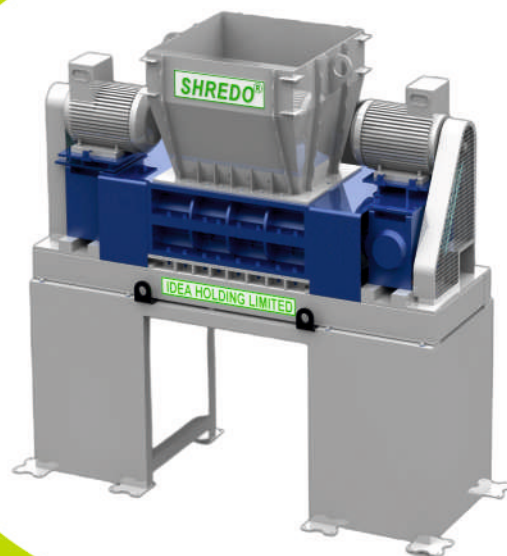




BIOMASS SHREDDER

FEATURES :-

1. Innovative chopping mechanism,
2. Tooth Type:- Sheering Tooth
3. Mulcher Shredder Blades are shockproof, having High Wearing Resistance.
4. Hardness:- 60-62 HRC
5. MOC of Shafts:- DIN34crMo6Ni
6. Type:- Horizontal Hexagonal Shafts
7. Quantity Of Shafts:- 2 Units
8. Motor Power (HP):- 75HP
9. Motor Make:- Siemens, Greaves or equivalent
10. Bearings:- FAG/SKFE equivalent
11. All analog and digital sensors are connected to PLC
12. Auto-Reverse and Stop in Case of overfeeding.



BIOMASS FLASH DRYER

FEATURES:-

1. Material Used:- Mild Steel
2. No. of Cyclone:- 2, Double augers. High efficiency.
3. Cyclone Height:- 7 Meters
4. Cyclone Thickness:- 3 mm
5. No. of ID Fans:- 2
6. No. of Rotary Air Lock:- 2, Reliable design of anti-Block and air proof.
7. Electric Motors:- Siemens/Crompton/ABB
8. Bearing: SKF/NBC/NTN
9. Furnace Cement & Bricks
10. With AUTO mode, this equipment is interlocked to sync with other equipment.
11. All analog and digital sensors are connected to PLC
12. Slow Start VFD Control, as per automation requirement to control speed





HAMMER MILL

The robust design to withstand the heavy loading on the Hammer mill while grinding, the hammer mill designed with An extremely heavy-duty base frame, the mass of the Hammer Mill absorbs any vibrations.



FEATURES:-

1. Motor Power (KW):-132 KW
2. Hammers are made of 8mm thickness high strength alloy steel through heat treatment
3. Specially designed fast open slide gates to change screen and to inspect inside status;
4. Inter connecting ducts and air control valve.
5. ID Fan Power (KW):37 KW
6. Rotary Air Lock Valves.
7. Air Cyclone bottom fitted with Rotary Air Lock Valve to discharge raw material into Conveyor.
8. Advanced Control Panel With Automation Features
9. Feeding rate to Hammer Mill controlled by PLC.
10. Analytics related to total working hours available on HMI live status screen.
11. With AUTO mode, this equipment is interlocked to sync with other equipment.
12. On screen manual start/stop feature available to this.



BIOMASS PELLET MILL

FEATURES:-

1. Ring Die & Rollers Electric Hoist Device. Output Pellet Diameter: 8mm.
2. High quality ring die.
3. Motor Power: 160KW
4. Automatic Anti-Overload Protection system
5. Advanced Control Panel With Automation Features.
6. Automatic Lubrication system controlled by PLC
7. Orderly shutdown in case of operator's inaction to warnings raised by PLC.
8. System log reflect the working method of operator.
9. Analytics related to total working hours available on HMI live status screen.
10. With AUTO mode, this equipment is interlocked to sync with other equipment.
11. Specially designed for Paddy Straw.



APCD (PULSE JET AIR BAG FILTER)

FEATURES:-

1. APCD (Pulse Jet Air Bag Filter).
2. Size: 4126mm x 2360mm x 3625mm.
3. Construction out of 3.0 mm thk. MS Sheet.
4. Pyramidal Hopper MS 3.0 mm Thk.
5. Filter Bags: 160-240 Nos., 150mm Dia, Polyester Non-Woven, Water resistant.
6. Top Mounted Wire Cages-3000mm. Length.
7. Solenoid valves, 1.5" Dia, Double Diaphragm Type.
8. Sequential Controller (18 Channel).
9. ID Fan Power: 40-80 HP.
10. MS Ducting, 400mm, 450mm, 550mm, 700mm Dia Fully Automatic.





POWER DISTRIBUTION PANEL

1. All Machinery Power Distribution Control System with ACB, MCB, MCCB make L&T.
2. VFD panel for controlling all conveyors speed through single panel.
3. Outgoing Feeder for
 - 2 No. of Shredders
 - 2 No. of Dryers
 - 2 No. of Hammer Mills
 - 2 No. of Pellet Mills
 - 1 No. of APCD
 - 1 No. of VFD Panel
4. Power Factor 350 KVAR



CONVEYORS

1. Horizontal-Inclined, above ground and fitted on legs MS Construction.
2. Includes: Suitable Geared Motor.
3. The Driving Geared Motor runs on VFD to control the speed.
4. All Analog and Digital sensors are connected to PLC.
5. With AUTO mode, this equipment is interlocked to sync with other equipment.
6. Different Conveyors according to Material Type. Belt conveyor, Redler chain conveyor, Screw conveyor, Z conveyor, Cooling Conveyor.





SPARE PARTS



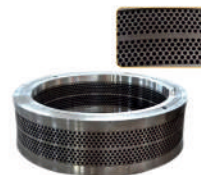
Ring Die & Roller



Hammer



Roller Assembly



Ring Die



Bearing



Roller Shell

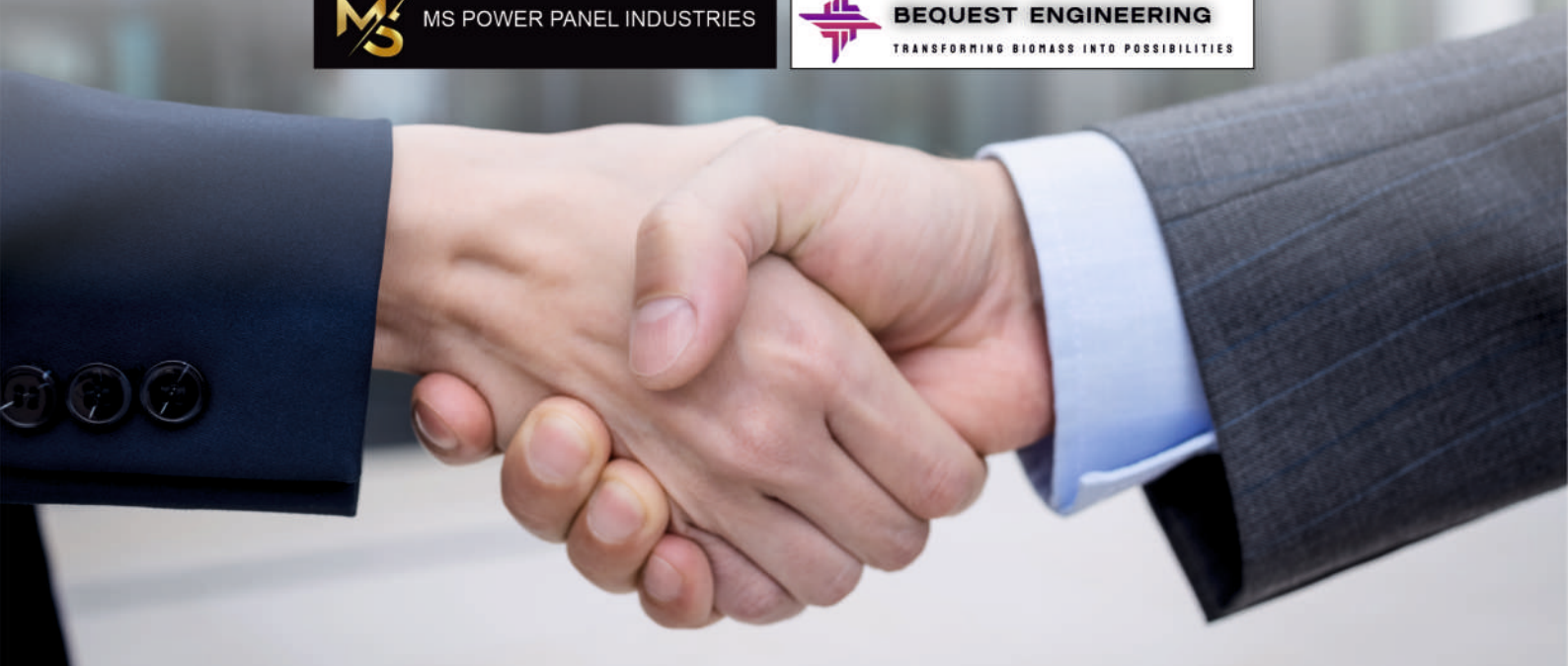


Elastomer of Coupling



Oil Seals

BUSINESS PARTNERS



INVESTMENT PLAN

Setup your own
BIOMASS PELLET PLANT

Affordable, Profitable & Future=Ready to
Turn your agri waste into Profits

Opportunity To Earn **8-10 Lacs/Month**



Investment Starts
From **3.5 Cr.**



Land Required **2 Acres**



Subsidy upto **1.4 Cr.**

We provide fully automatic NTPC based Biomass Pellet Plant on Turnkey basis.
Consultancy in terms of NOC's, Loan, Subsidy,
Tenders etc is also provided by us.



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