



# GATTUWALA

ENERGY SOLUTIONS PRIVATE LIMITED



[www.gattuwala.com](http://www.gattuwala.com)

# Welcome to Gattuwala Energy Solutions Private Limited!



## About Us :

At Gattuwala Energy Solutions Pvt Ltd, we are driven by a singular vision – to lead the way in sustainable energy solutions. As a premier manufacturer of high-quality biomass pellet machines, we are proud to have established ourselves as pioneers in the biofuel industry. With over 100 successful plant setups across India, our dedication to innovation, quality, and environmental sustainability has earned us the trust of clients nationwide.

We specialize in delivering end-to-end solutions, offering everything from advanced pellet and briquette machines to comprehensive EPC plant construction services. Our commitment extends beyond just providing products; we offer innovative services such as BOOT model solutions, operation and maintenance (O&M), and expert subsidy and licensing assistance, ensuring that each project we take on is optimized for success.

What sets us apart is our unwavering focus on excellence—from the cutting-edge technology embedded in our machinery to the seamless integration of our services. Our team of experienced engineers and professionals works tirelessly to provide cost-effective, sustainable, and high-performance solutions, positioning us as a trusted partner in the renewable energy sector.

At Gattuwala, we believe in making a tangible difference in the energy landscape, and we are committed to empowering a greener, cleaner future through innovation and reliability.



## Mission :

At Gattuwala Energy Solutions Pvt. Ltd., our mission is to empower sustainable energy solutions by making biomass energy accessible and efficient for businesses worldwide. We strive to revolutionize the biomass sector by providing cutting-edge pellet plant setup services, including expert machine installation and comprehensive guidelines. Our core focus is on optimizing pellet machine technology to ensure seamless operations, increased productivity, and maximum energy efficiency. We are committed to supporting the global transition towards greener energy by simplifying and accelerating the process of biomass plant setup, fostering a cleaner, more sustainable future for all.

## Vision :

Our vision is to become a global leader in the biomass energy sector by driving the widespread adoption of sustainable energy solutions. Through innovative technology, seamless pellet machine installations, and expert guidance, we aim to simplify the setup of biomass plants, ensuring they operate efficiently and sustainably. We are dedicated to contributing to a cleaner planet by providing businesses with the tools and knowledge they need to harness the full potential of biomass energy for a greener tomorrow.

*Leading the Way in Biomass Pellet Innovation !*

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## Training For Machine Operators

At Gattuwala Energy Solutions Pvt Ltd, we believe in empowering our workforce with the knowledge and skills necessary to operate and maintain our cutting-edge biomass pellet machines. Our comprehensive training programs are designed to ensure that machine operators are fully equipped to handle every aspect of machine manufacturing, installation, and maintenance.

### **Manufacturing Expertise**

Our training program offers a deep dive into the manufacturing process of biomass pellet machines, covering

### **In-depth Machine Assembly**

Operators gain hands-on experience in assembling various components of the pellet machines, ensuring they understand the intricacies of each part.

### **Quality Control Standards**

Training includes thorough instruction on maintaining high production standards, ensuring every machine meets the stringent quality criteria set by Gattuwala Energy Solutions. Safety Protocols: Operators are trained in workplace safety, emphasizing the importance of safe handling, machine operation, and the implementation of safety protocols to ensure a secure working environment.

### **Machine Maintenance**

To ensure optimal performance and longevity, we provide training in routine and preventive machine maintenance.

### **Routine Inspections**

Operators are trained to perform regular checks on machines to detect and address any minor issues before they escalate, ensuring maximum uptime.

### **Why Choose Our Training?**

Expert Trainers: Our training programs are conducted by industry experts with years of hands-on experience in the biofuel sector.

### **Comprehensive Learning**

From theory to hands-on practice, we ensure that operators gain all the necessary skills to manage, maintain, and install biomass pellet machines effectively.



## Our Offering Products

### GATTUWALA PELLET MACHINE

#### VERTICAL RING DIE PELLET MACHINE GTW SERIES



Model	Power (kw)	Capacity (kgs/h)
<b>GTW7560P</b>	<b>132+1.5+0.75+0.55+2.2</b>	<b>1500-2000</b>
GTW7700P	160+1.5+0.75+0.55+2.2	2000-2500
GTW7850P	220/250+3+0.75+0.55+3	2500-4000

### YULONG PELLET MACHINE



#### VERTICAL RING DIE PELLET MACHINE XGJ SERIES

MODEL	POWER (KW)	CAPACITY (kgs/h)
XGJ560+8	132+0.55+0.05+2.2	1500-2000
XGJ560P	160+ 0.55+0.05+2.2	2500-3000
XGJ2 -850+8	250+4+0.55+0.05+0.15	3000-4000

## YULONG HAMMER MACHINE



MODEL	MAIN POWER	TOTAL KW	CAPACITY(T/H)
GXL 75 * 75	75	75+18.5+2.2	2-3
GXP 75 * 100	90	90+30+4	4-5
GXP 75 * 100	110	110+37+4	5-6
GXP 75 * 120	132	32+37+4	6-7
GXP 75 * 150	160+5.5	160+5.5+45+5.5	5-7
GXP 75 * 150	200+5.5	200+5.5+55+5.5	6-8

## GATTUWALA HAMMER MACHINE



Model	Power (HP)	Capacity(T/H)
GTW - HM83	83 HP	1800-2000

## BIOMASS DRYER MACHINE



## BIOMASS FLASH DRYER

DRYER MODEL	GTW - B750	GTW - B1500	GTW - B3000
WATER EVAPORATION(KG/H)	450	900	1800
DRY PRODUCT O/P (KG/H) @I/P MOISTURE<30%	1100	2200	4400
DRY PRODUCT O/P (KG/H) @I/P MOISTURE<45%	750	1500	3000
DRY PRODUCT O/P (KG/H) @I/P MOISTURE<50%	600	1200	2400
#FUEL CONSUMPTION (KG/H)	<115	<220	<400
CONNECTED LOAD(HP)	19.5	31	67

## ROTATORY CUM FLASH DRYER

DRYER MODEL	GTW - B750	GTW - B1500	GTW - B3000
WATER EVAPORATION(KG/H)	500	1000	2000
DRY PRODUCT O/P (KG/H) @I/P MOISTURE<50%	750	1500	3000
DRY PRODUCT O/P (KG/H) @I/P MOISTURE<60%	450	900	1800
#FUEL CONSUMPTION (KG/H)	<135	<260	<450
CONNECTED LOAD (HP)	24	36	84

## Other Attachments:

### YULONG BALE CRUSHER FOR PARALI AND SUGARCANE LEAVES



MODEL	POWER (KW)	CAPACITY (kgs/h)
XQJ200	90+5.5	1-3
XQJ250	110+7.5+1.5	2-4
XQFS75*100	90+5.5+1.5	2-3
XQFS75*150	132+7.5+1.5	3-5
XQFS75*150(S)	132+132+11+1.5	6-10

### SAW DUST MAKING MACHINE



MODEL	POWER (HP)	CAPACITY (kgs/h)
GTW-B50	50	1000
GTW-B75	75	2000
GTW-B100	100	3000
GTW-B150	150	4000-5000
GTW-B200	200	6000-6500

## Other Attachments:

### BELT ELEVATOR



Capacity	50 Kg/Feet
Conveyor Type	Belt
Speed	120 m/min
Application/Usage	Warehouses
Material	Mild Steel
Phase	Three Phase
Voltage	380 V
Elevator Length	22 Feet
Motor	3 hp



### YULONG BELT CONVETOR

- Available in belt width up to 2000mm
- Handling capacity up to 1000 TPH
- Conveying speed up to 5 m/s



### SCREW CONVEYOR

- Available in belt length up to 15-16 feet
- Handling capacity up to 1000-2000 TPH



## WOOD CHIPPER MACHINE



POWER (HP)	CAPACITY (kgs/h)
108	3000-6000
164	6000-10000

## SIEVER (VIBRATOR)



Capacity	100 kg/hr
Material	Mild Steel
Automation Grade	Semi Automatic
Voltage	380 V
Frequency	50 Hz
Phase	Three Phase
Motor	1 HP

## BRIQUETTE MACHINE



Model	"JUMBO-90"
Type	Crank Type
Stock	200 mm
R. P. M.	230
Total Power Requirement	91 HP. <small>(+ 20% Depending on Density and Quality of Raw Material)</small>
Production Capacity	1000-1500 Kg/Hr.
Finished Products Size	90 mm Dia
Finished Product Shape	Cylindrical
Finished Product Length	6" to 12"
Raw Material Form	Up to 25mm Size can be Used Directly

## SPARE PARTS



**ROLLER ASSEMBLY**



**ROLLERS**



**RING DIE**

## Counter Flow Cooling Section

GTW pellets cooling machine is mainly used for cooling 6-10 mm diameter pellets, pellet from the outlet are temperature of 60°C, after using the pellets cooling machine, the temperature is not higher than room temperature 25°C.

The pellets cooling machine adopts counter flow theory, cold air goes inside of cooler from bottom and the go out from top, hot pellets goes to cooler from top to bottom, as time goes on, pellets will gather at the cooler bottom, cold air will cool them at the bottom gradually, in this way will reduce pellets breaking, if cold air also go to cooler from top, which same as pellets, then hot pellets will meet with cold air suddenly, then pellets will easily break. So, the pellet cooling machine can cool fully and equally, pellet breaking rate is less than 0.2%.

The GTW pellets cooling machine generally works with a cyclone and air fan, air lock, which is used to clean dust, also it can install a screener at the cooler bottom, which can separate dust and achieve good pellets after cooling.



INPUT RAW MATERIAL		Model	Power (HP)	Capacity (Kg/hr)
Biomass	Any	GTW7-560P	20.5	2000-2500
Shape	Pellets	GTW7-850P	25	3500-4000
Size	< 10mm			
Moisture	< 12%			

## FEEDING UNIT



## AGROWASTE RAW MATERIAL TO MAKE BRIQUETTE AND PELLET



**GROUND NUT SHELL**



**SUGARCANE TRASH (BAGGAS)**



**SOYABEAN HUSK (KUTAR)**



**SAW DUST (WOODEN DUST)**



**RICE HUSK**



**Cashew Shell Waste**



**COTTON AGROWASTE**



**CORN COP WASTE**



**SUGAR CANE LEAVES**



**PARALI OR RICE STRAW**

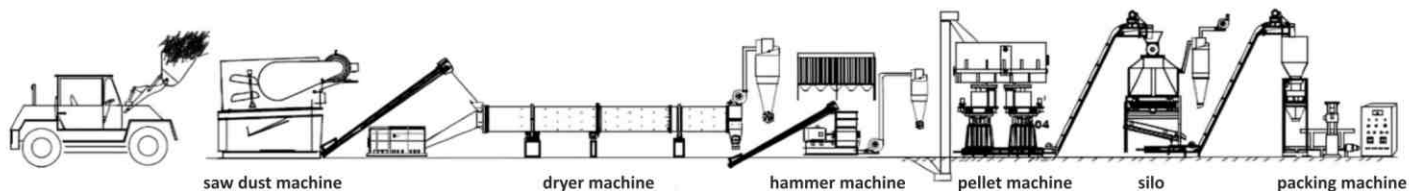


**NAPIER GRASS**

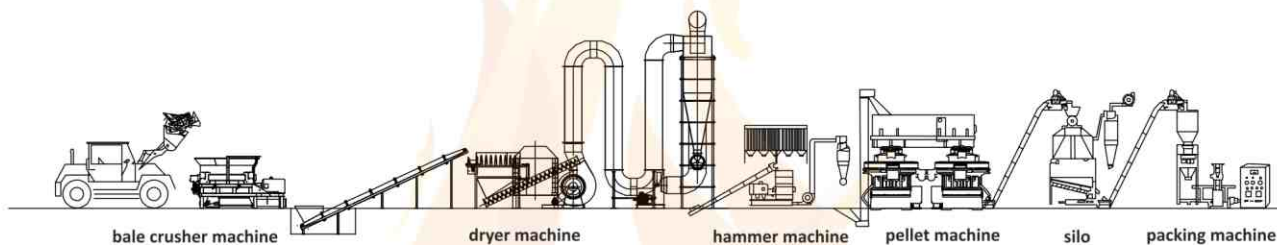


**MUSTARD HUSK**

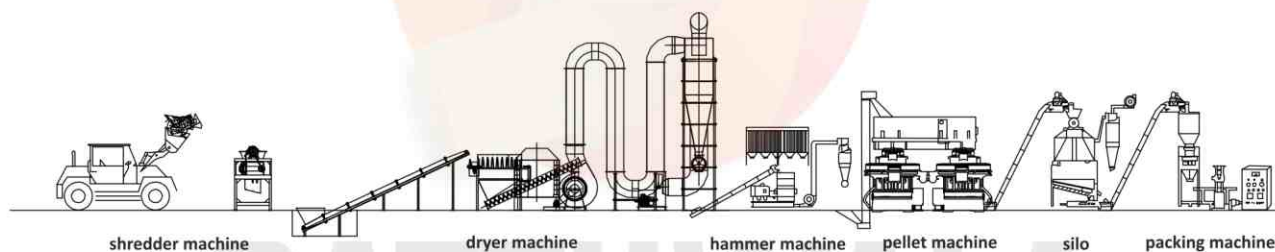
## FLOWING CHART FOR WOOD PELLET PRODUCTION LINE



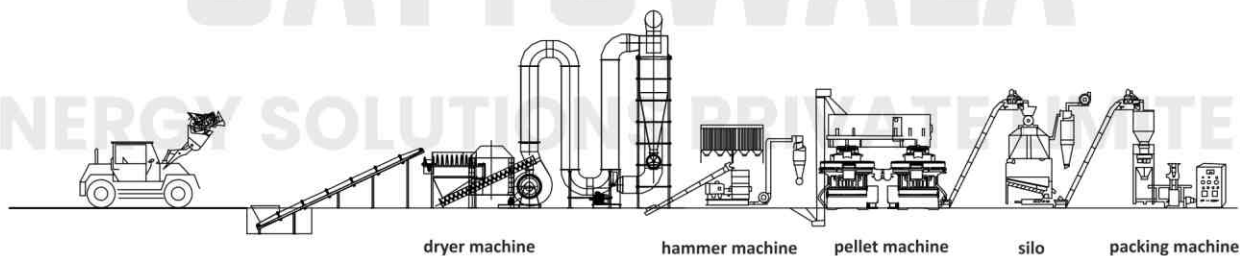
## FLOWING CHART FOR PARALI PELLET PRODUCTION LINE



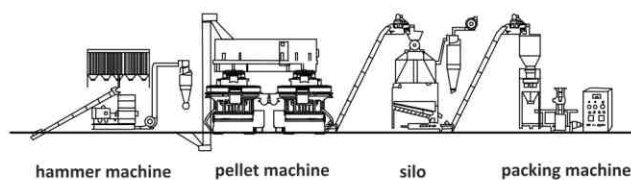
## FLOWING CHART FOR BAGGAS PELLET PRODUCTION LINE



## FLOWING CHART FOR WET AGRO WASTE PELLET PRODUCTION LINE



## FLOWING CHART FOR DRY AGRO WASTE PELLET MILL PRODUCTION LINE



## Our Additional Services

### Plant Fabrication

Expertly designed and constructed fabrication solutions tailored to meet the specific needs of your biomass pellet plant.

### Subsidies Documentation and Licensing

Comprehensive support for navigating subsidy documentation and licensing processes, ensuring a smooth and efficient application.

### Sales Support

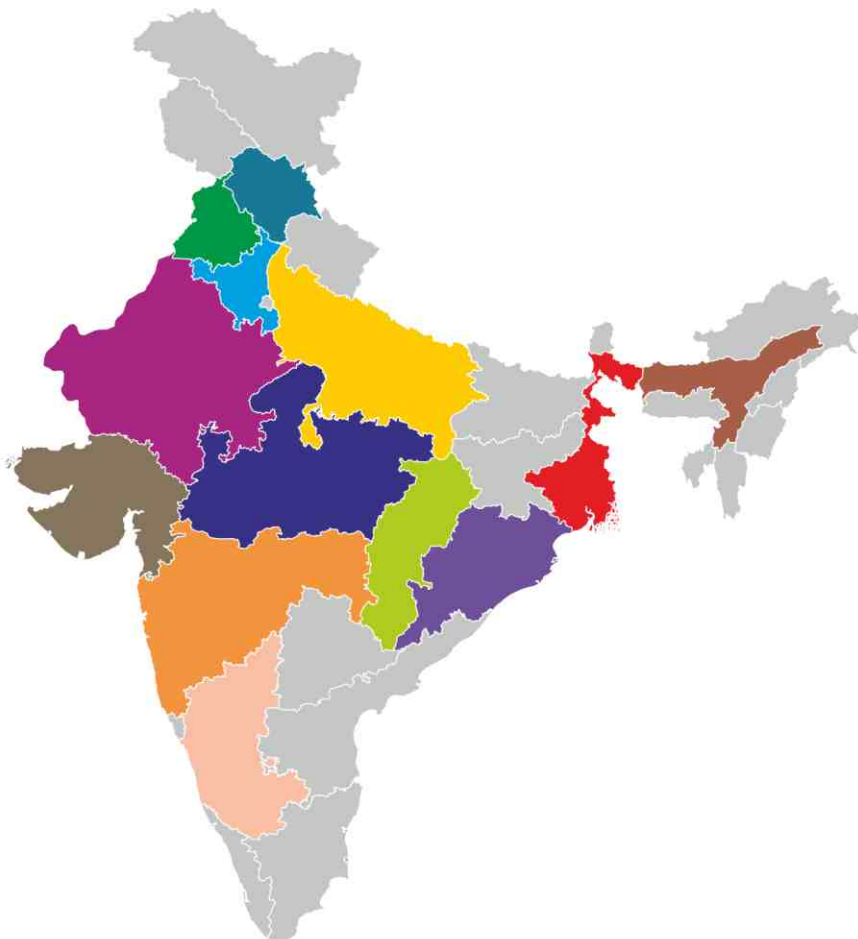
End-to-end sales support to help you market and distribute your biomass pellets, maximizing your business potential.

### Power Plant Pellet Tender Enrollment

Professional assistance in enrolling and competing in power plant pellet tenders, giving you a competitive edge in the market.

### Operation and Maintenance of Pellet Plants

Full-service operation and maintenance solutions to keep your pellet plants running efficiently and reliably.



## WE SOLD MACHINE AT :

- MAHARASHTRA
- CHHATTISGARH
- ODISHA
- GUJARAT
- KARNATAKA
- U.P
- ASSAM
- M.P
- PUNJAB
- HARIYANA
- WEST BENGAL
- RAJSTHAN



THANK YOU FOR VISIT



**GATTUWALA**

ENERGY SOLUTIONS PRIVATE LIMITED

CIN: U10300MH2022PTC395886



#### HEAD OFFICE

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