



Cleaner Energy For a Cleaner Nation

*"We specialize in manufacturing **eco-friendly biomass briquettes** from groundnut husk, offering a sustainable alternative to traditional industrial fuels."*



ABOUT US

Welcome to **GHANSHYAM SYSTEMS PVT. LTD.** your trusted partner in sustainable fuel solutions. We are a professionally managed company manufacturing high-quality biomass briquettes, also known as bio-coal or white-coal. With over 8 years of experience, we are committed to delivering premium biomass solutions that support eco-friendly industrial operations.

We operate with technically advanced infrastructure and a highly skilled team. Our production facilities are located in Gujarat, boasting a monthly production capacity of 3000 tons of biomass briquettes and 1000 tons of biomass pellets. Our strategic plant locations ensure easy access to raw materials like groundnut shells, reducing transportation costs and ensuring competitive pricing.

We are committed to ethical business practices and long-term relationships with our clients. We cater to large-scale industrial requirements and ensure consistent and timely deliveries.

WHY BIOCOAL ?

- ✔ Bio-coal is a cost-effective replacement for FO, coal, and firewood.
- ✔ Higher calorific value and more efficient burning reduce boiler fuel costs.
- ✔ Pollution-free and eco-friendly alternative.
- ✔ Many companies in India have adopted bio-coal for carbon credit benefits.
- ✔ Rising demand due to high cost of traditional fuels and the global push for sustainable energy.

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A Cleaner Nation"**



APPLICATION

- Gasifier Systems
- Refractory & Ceramic Industries
- Chemical & Pharmaceutical Industries
- Food Processing – Vegetable, Fruit, Dehydration, Pulp
- Milk and Dairy Industries
- Bakery, Brewery, Beverage Bottling Plants
- Rubber, Textile, and Dyeing Industries
- Brick Making Units
- Laminate, Plywood & Veneer Industries
- Hotels, Restaurants & Hostels
- All industries with Boiler, Furnace, Hot-air Generator, Oven, or Heater



BENEFITS OF BRIQUETTES



100% Natural No
Chemicals Or Binders



Pollution Free With
Minimal Smoke & Ash



Low Ash Content (<10%)
Vs. Coal (25-40%)



Uniform Size And Density
For Predictable Burning



Higher Thermal Value
And Energy Efficiency



No Sulphur Prevents
Boiler Corrosion



Cost Effective And
Easy To Handle & Store



Steam Response Time
To High Volatile Matter

BIOMASS BRIQUETTE 90 MM (PURE GROUNDNUT HUSK)

Technical Specifications:

1	Density, gm/cc	0.23	6	Ash Fusion, °C	
2	Proximate Analysis, %			Initial Deformation Temperature	1145
	Moisture	12.37		Softening Temperature	1195
	Ash	5.47		Hemispherical Temperature	1210
	Volatile Matter	58.75		Fusion Temperature	1234
	Fixed Carbon	23.41	7	Chemical Analysis, % by Mass	
3	Ultimate Analysis, %			Silica (as SiO ₂)	48.80
	Carbon	49.89		Calcium Oxide (as CaO)	11.55
	Hydrogen	3.32		Magnesium Oxide (as MgO)	4.50
	Nitrogens	0.16		Iron Oxide (as Fe ₂ O ₃)	10.85
	Sulphur	0.17		Sulphate (as SO ₃)	2.80
	Ash	5.47		Sodium Oxide (as Na ₂ O)	0.95
	Moisture	12.37		Potassium Oxide (as K ₂ O)	2.85
	Oxygen	28.62		Phosphorus (as P ₂ O ₅)	1.20
4	Gross Calorific Value, k.cals/kg	4370		Alumina (as Al ₂ O ₃)	15.10
5	Net Calorific Value, k.cals/kg	4125		Titanium Dioxide (as TiO ₂)	0.92

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