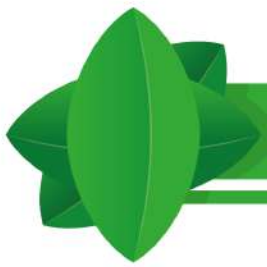




C.L.T. & SONS

BIOMASS BRIQUETTES | BIOMASS PELLETS



Making of C.L.T. AND SONS:-

Climate change is a pressing global issue, and the burning of agricultural waste exacerbates the problem. India, a prominent agriculture-centric nation, generates vast amounts of agricultural residues. Unfortunately, these residues are often managed inefficiently, resulting in significant environmental pollution. In a bid to derive value from this agro waste, Mr. Shiv Ratan Taparia, Director of C.L.T. AND SONS, took initiative. In 2012, he established his inaugural Biomass Manufacturing plant and commenced selling the produced goods.



As renewable energy technology develops. Biomass is increasingly viewed as a green alternative to traditional forms of energy.



Mission

Create a platform for sustainable, efficient bioenergy development.



Vision

Achieve the top spot as India's preferred sustainable biomass trading partner.



Values

Satisfaction of the customers by providing quality and quantity on time as promised.

NATURE ECOLOGY MAGAZINE

Situated in the Mainpuri region of Uttar Pradesh, our manufacturing facility proudly exhibits a robust monthly production capacity of 3000 tons. In our unwavering commitment to combat environmental degradation, we have set an ambitious goal of planting 10 trees for every 100 metric tons produced. Notably, our utilization of briquettes and pellets signifies our dedication to eco-conscious practices by offering renewable substitutes for coal while significantly reducing greenhouse gas emissions. Furthermore, as an integral part of our corporate social responsibility (CSR) endeavors, we actively engage in raising social awareness across diverse societal concerns. Through these initiatives, we strive to contribute positively to our community and environment, aligning our business objectives with ethical and sustainable principles. This holistic approach underscores our mission to be a responsible corporate entity that not only excels in production but also actively participates in safeguarding our planet and fostering societal progress.



01

Be eco-friendly and not disturb the nature's balance

02

To take care of the eco-system by using products that will not harm the environment

03

Give the best product out of agro waste



Awarded by U.P. Government



Encouraging these values we got awarded by U.P. govt for delivering products as quality promised.

Why Biomass Briquettes or Pellets?

Biomass Briquettes or Pellets serve as eco-friendly alternatives to coal and charcoal, particularly in the developed world, where they find use in heating industrial boilers to generate electricity through steam.

Both Briquetting and Pelletizing techniques involve compressing raw materials to yield several key advantages:

- 1) High volumetric energy density.
- 2) Reduced water content, ensuring better storage stability and minimizing biodegradation.
- 3) Minimal dust production when handling the final products.
- 4) Consistent fuel homogeneity.
- 5) Extended burn time due to high-density biomass fuel.
- 6) 100% natural, with no chemicals, glues, or binders used.
- 7) Cost-effective, offering substantial savings compared to fossil fuels like FO, diesel, coal, gas, or firewood.
- 8) Environmentally friendly, as it uses renewable resources and is pollution-free.
- 9) Clean-burning, with minimal smoke, creosote, and ash production. Briquettes don't emit sulfur or phosphorus, eliminating the need for pollution control equipment.
- 10) Easy handling and storage of final products.
- 11) Low ash content (below 10%) compared to coal (25% to 40%), resulting in minimal boiler ash disposal issues.
- 12) Uniformity in size, density, and moisture content ensures predictable burning times.
- 13) Consistent quality, high burning efficiency, and optimal sizing for complete combustion.
- 14) Negligible maintenance costs for boiler equipment due to no corrosion effects. In contrast, coal produces sulfur dioxide, which, when mixed with moisture, creates sulfuric acid and corrosive byproducts.

Believes

Professionalism

We uphold professionalism by objectively assessing situations and responsibly fulfilling our obligations. We handle confidential information as a part of our daily business, ensuring its security and confidentiality. We never disclose confidential information, except as required by legal acts, and never misuse such information.

Good Faith

We operate in good faith and expect the same from our partners. Our interactions are characterized by respect, adherence to stringent business standards, and compliance with legal and regulatory requirements. We hold our partners to similar high standards of behavior.

Innovativeness

We embrace innovation, actively developing and implementing new ideas. We envision a future where our principles guide energy resource trade to benefit the majority of market participants and society as a whole. We remain open to novelties and change.

Cooperation

We recognize our role in the market and understand that meaningful benefits for society can only be achieved through collaboration and joint efforts.

Production

Our production process is efficient, minimizing human hours and reducing production costs. We store briquettes in controlled environments to maintain their quality. We have received approvals from both the pollution control board and government authorities for our briquette production.

Quality Policy

We prioritize quality, ensuring our briquettes remain free from impurities. Our quality auditors rigorously assess the entire range against various quality parameters before dispatching the final products.

Primary Benefits

Our primary beneficiaries are farmers who gain a convenient tool to convert agricultural waste into high-GCV bio briquettes, providing them with extra income and a sense of security. We also benefit farm labourers and rural youth by reducing labour hours and generating employment opportunities. Additionally, our eco-friendly approach extends benefits to the broader ecosystem, including humans, animals, and soil microbes, as it mitigates the environmental impact of agro waste burning.

Our Products

| Content | Briquettes | | | Pellets | | |
|-----------------|---------------|--------------|-----------|---------------|--------------|-----------|
| | Mustard Straw | Ground Shell | Saw Dust | Mustard Straw | Ground Shell | Saw Dust |
| Raw Material | Mustard Straw | Ground Shell | Saw Dust | Mustard Straw | Ground Shell | Saw Dust |
| Size | 70mm | 70mm | 70mm | 17/8mm | 17/8mm | 17/8mm |
| GCV (K-Cals/Kg) | 3400-3600 | 3900-4100 | 3800-4000 | 3700-3900 | 4200-4400 | 4100-4300 |
| Ash content | 6%-8% | 5%-7% | 5%-7% | 6%-8% | 5%-7% | 5%-7% |
| Moisture | 6%-8% | 5%-7% | 5%-7% | 6%-8% | 5%-7% | 5%-7% |
| Volatile matter | 60%-65% | 65%-70% | 65%-70% | 60%-65% | 65%-70% | 65%-70% |
| Fixed carbon | 12%-15% | 15%-20% | 15%-20% | 12%-15% | 15%-20% | 15%-20% |





12^{YEAR'S}
OF
TRUST

LOVE THE NATURE

AS RENEWABLE ENERGY TECHNOLOGY DEVELOPS, BIOMASS IS
INCREASINGLY VIEWED AS A GREEN ALTERNATIVE TO TRADITIONAL
FORMS OF ENERGY.

#AgrOverCoal



SCAN FOR WHATSAPP



SCAN FOR CONTACT SAVE

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FOR MORE INFORMATION VISIT US AT WWW.CLTANDSONS.COM