



48⁺ Years
Of experience

TREATMENT OF EUCALYPTUS PLANTS



In Association with SVCH-Technologii, Moscow (Russia)
ISO 9001:2015 | ISO 14001:2015 | ISO 45001:2018

ABOUT US

KERONE is now renowned for serving the specialized needs of customers with the best quality and economical process of application engineering solutions and industrial heating products manufactured in a high-quality environment by a trained and qualified workforce (special purpose machinery)



KERONE is a pioneer in application and implementation engineering with its vast experience and team of professionals.



KERONE is devoted to serve the industry to optimize its operations both economically and environmentally with its specialized process engineering solutions.



KERONE is having immense expertise in manufacturing and implementing various types of engineering solutions.



KERONE is possessing employee strength of more than 280+ experts continuously putting efforts for happy industrial engineering solutions



48+ Years Manufacturing Excellence



Great Sale Support



Highly Customized Product



Adherence to Standards



Sound Infrastructure



Team of experts Delivering Quality



Timely Delivery



Cost Effective Solutions



WHY CHOOSE US

"Choose Kerone for innovative solutions tailored to your unique product needs, ensuring efficiency, reliability, and unmatched quality."

With decades of expertise, cutting-edge technology, and a customer-centric approach, Kerone Engineering offers tailor-made Applications Engineering solutions that prioritize quality, flexibility, and cost-effectiveness. Benefit from our commitment to excellence, post-sales support, and innovative solutions for your unique Applications Engineering needs. Choose Kerone Engineering for reliability, performance, and unmatched value.

MISSION



To enhance the value of customer operation through our customer need centric engineering solution.



We are committed to providing our customers with unique and best-in-class products in the industrial thermal processing segments. Through strategic tie-ups for technical know-how with renowned leaders in industry-specific segments, we ensure that our offerings meet the highest standards of quality and innovation.

VISION



Turn into a world leader in providing specialized, top-notch quality and ecological industrial heating, cooling, and drying solutions across the globe.



To attain global recognition as the best of quality and environment-friendly engineering solution company.



Enhance the value of customer operation through our customer need centric engineering solution.



TRUSTED PARTNERS





Intellectual Property Rights

The technology represented herein is proprietary to KERONE, Mumbai, India.

All data and information submitted now or likely to be submitted in future for evaluation regarding design details, system operation, processing techniques and prices shall be divulged only to those persons having a direct need to participate in the evaluation. No use shall be made of any information provided herein other than for the evaluation of this proposal, nor shall such data be transferred to others without the written permission of KERONE.

Background

Agro waste is a challenge now a day as it degrades slowly & consumes lots of space. To enhance rate of degradation & finding out some energy source in an ecofriendly manner, this exercise of exploring EUCALYPTUS PLANTS as a feedstock for various technologies as carried out. As these plants are available in abundance & these plants are harvested regularly in Madagascar. M/s. Kerone approached Institute of Chemical Technology (ICT) Mumbai. ICT along with KERONE are jointly proposing various solutions for these plants.

Path Forward

- Literature Survey
- Bringing Samples for initial/lab tests
- Carrying out tests in ICT lab for various technologies
- Finalizing technology to be implied based on lab test

- Carrying out 3 extensive trials of the technology selected
- Designing working prototype for selected technology
- Estimation & feasibility study (FEED) for higher capacity plant
- Design, Manufacture, Supply & commissioning of selected technology based plant
- Long term Support for operations & maintenance

Technology Options

- Oil extraction through Leaves
- Shredding & bio-briquette making of leaves & wood
- Power plant based on bio-briquettes
- Biochar production through Gasolysis technology
- Wood Trash (Cellulose) to Ethanol

Tentative Schedule

- Literature Survey: 4 – 6 Weeks
- Lab Trials at ITC: 8 – 10 Weeks
- Technology Review & Feasibility Report: 4 – 6 Weeks
- Prototype Making and testing (if required): 12 – 16 weeks
- Design, Engineering and basic feasibility Report (FEED) for higher capacity plant : 12 – 16 Weeks
- Estimation & detailing: 6 – 8 weeks
- EPC (Manufacturing, Assembly, Commissioning): 10 – 12 Months

Earlier Work (Biochar Production) Details

We have supplied and successfully installed 30 Kg/Day Batch Biochar Machine for UK BRC installed at Scotland. We have supplied and successfully installed 30 Kg/Day Batch Biochar Machine for Appropriate Rural Technology Institute, Phaltan, Maharashtra, India.



Distinct Advantages Of Catalytic Gasolysis Technology

- Available in both Continuous & Batch Operations (Customized Solution)
- Well-engineered plants ensuring superior quality of Product Fuel

Energy efficient technology

The plant can suitably be operated up to 50% turndown.

Eco-friendly Process, no harmful gases/effluent produced.

Attracts Carbon Credits!!

Supports EPR & PRO Activities

Technology Evolution



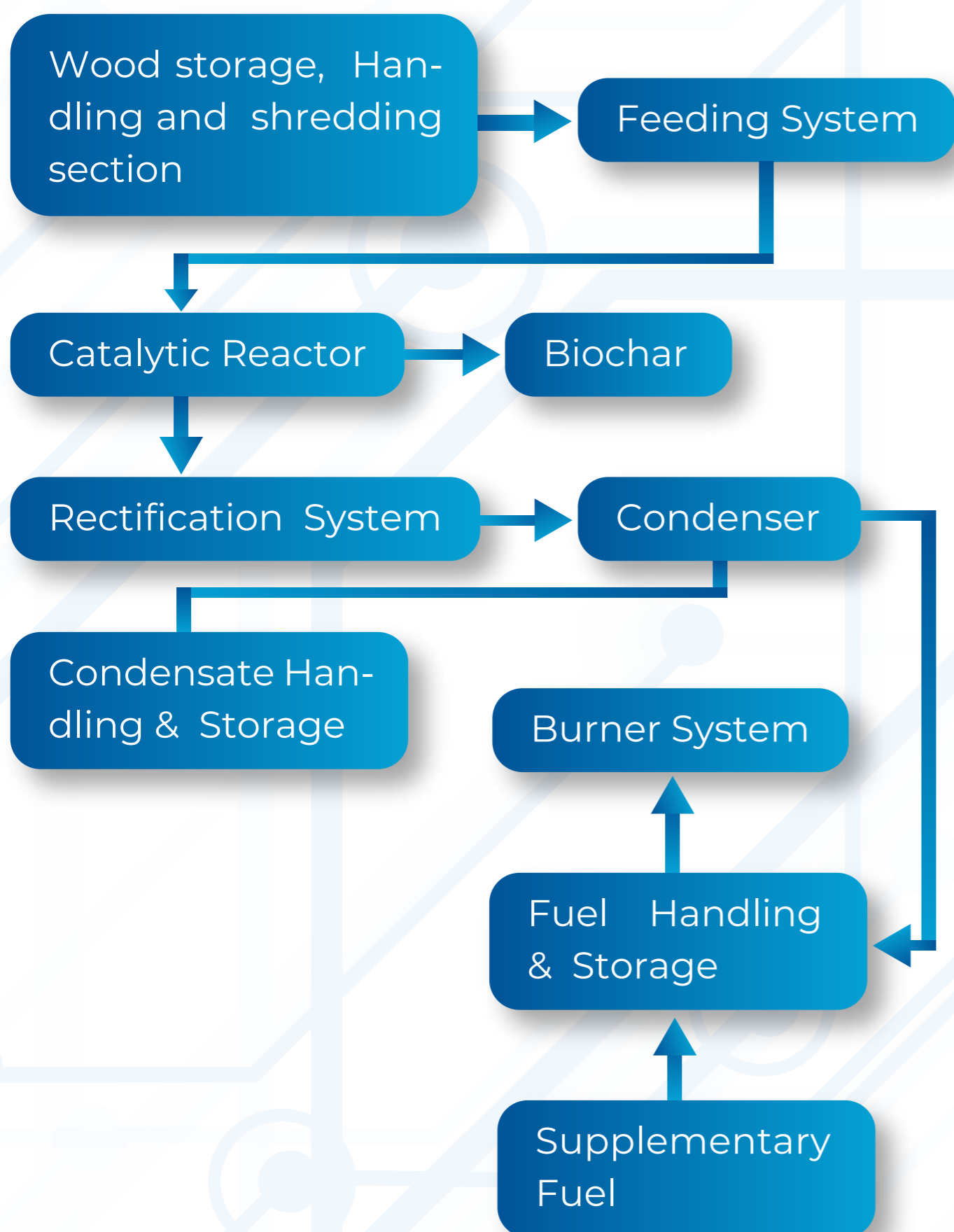
Seeding

Development

Growth

KERONE have started activities in 2008; have achieved successful commissioning of around 30 PLANTS with various capacities ranging from 50kg/batch to 10000kg/day continuous plant processing various raw materials. We will process Eucalyptus Plants to produce BIO-CHAR, OIL, etc. and sell it as alternative fuel for boilers, heat treatment units, etc.

Process Block Diagram



Process Description

Shredded Eucalyptus plants & wood shavings are weighed and transferred to feeding system. Feeding system ensures the continuous and uniform feeding to the Catalytic Gasolysis Reactor. The selection of catalyst depends on the type of raw material used. The reactor operates at high temperature (around 3800C to 4000C) and in absence of Air. Due to high temperature waste is Gasolysed to small chain hydro carbons. The vapors produced are collected in rectification section. Lighter vapors are processed further and heavier vapors are sent back for further de-polymerization. Lighter processed vapors are then condensed in the Condensers and collected as liquid along with moisture and other wood-based chemicals. The non-condensable are then passed through scrubber. Product Gas is then compressed and stored for further utilization of process heating. The product Bio-char is collected and used as solid fuel/fertilizer.

Typical Production Details

Following Table shows Typical Output Mass Balance for 5TPD Plant

Description	Unit	Poultry Litter & Wood shavings
Feed	kg	5000
Bio Char (Product)	kg	1000 – 1500
Liquid (Water + Wood Chemicals)	kg	500 – 1000
Syn-gas Produced	kg	900 – 1500
Supplementary Fuel Consumption	kg	1500 – 2000

Note

- Moisture content in the feed will affect supplementary Fuel consumption.
- All rated capacities are expected under steady state condition of the plant & utilities and uninterrupted supply of utilities.
- Consumptions figures are net, without any handling & heat loss.

Skid Mounted Units

Our skid-mounted Model for capacities ranging from 50kg per batch to around 500 kg per day is entirely portable, and can be used at any desired location. The machine can be kept in the open where feed material can be protected from rain. For these models we require shed round 5m x 5m x 5m height.

Larger capacity fixed- location machines ranging from 2000kg per day to 10000kg per day and even beyond are also available. These plants require their own facilities and building.

OUR CLIENTS









THANK YOU

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