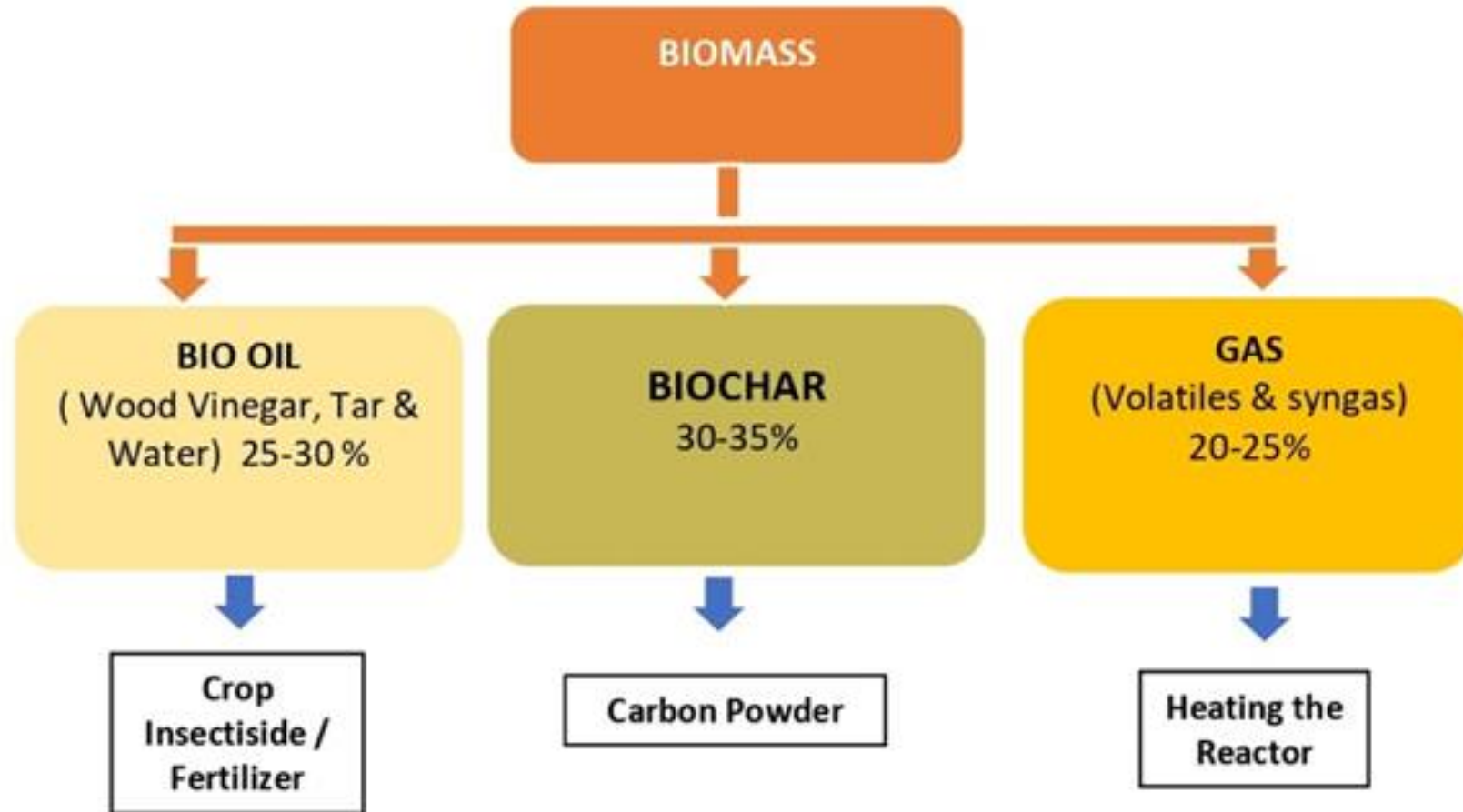




# Biomass to Biochar

## Thermal Conversion – Pyrolysis





## EXCLUSIVE FEATURES

Eligible for Carbon Credit

Consistent Charcoal quality

Emission mitigation

Easy feedstock loading & charcoal discharge

More than 70% fixed carbon Output

High NPK Values

Continuous Process

## APPLICATIONS OF BIOCHAR

### Agriculture

Soil  
Amendment

### Steel Industry

Reducing Agent

### Energy Industry

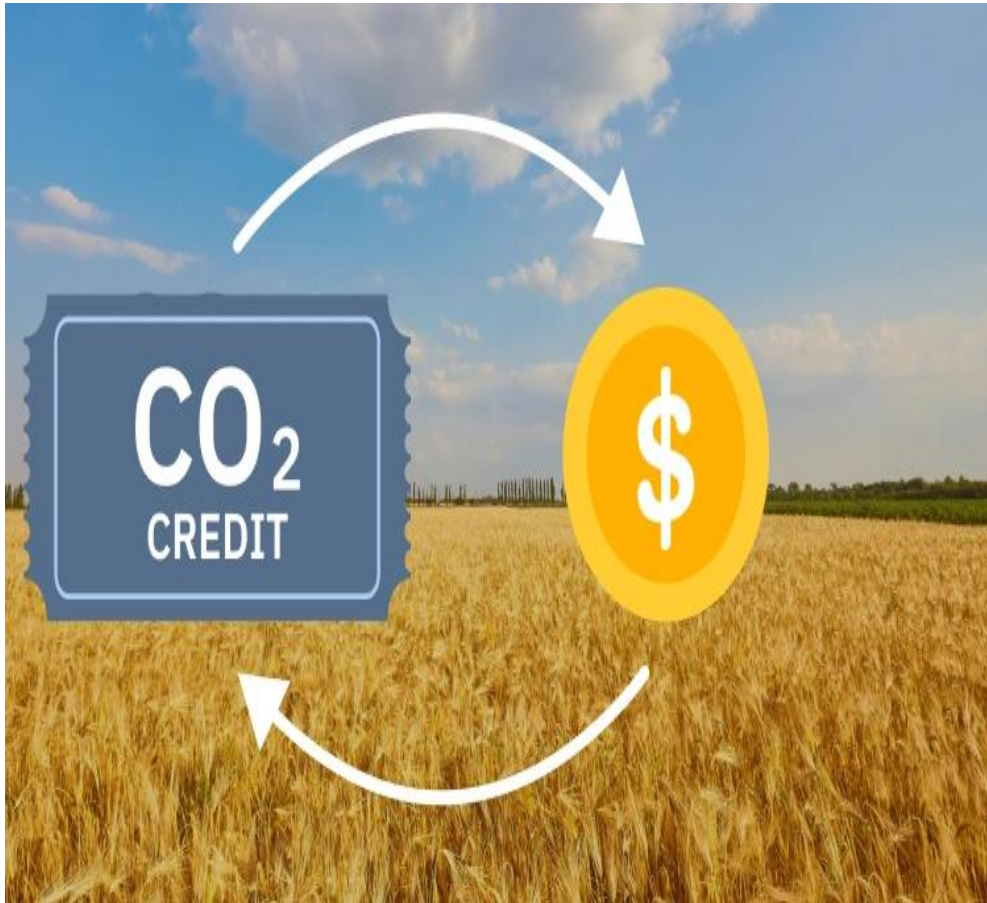
Solid Fuel

### Construction Industry

Additive

### Water Treatment

Filtration



- To earn Carbon Dioxide Removal Credits (CDRCs) from biochar production, projects must meet certain requirements, including:
- **Biochar production:** Producing at least 225 tons of biochar per year
- **Biomass:** Using woody biomass with a high carbon content
- **Organization:** Being legally registered and having a reliable organization
- **Staff:** Having staff who know how to operate the pyrolysis equipment
- **Social and environmental responsibility:** Demonstrating social and environmental responsibility

# TEST RESULTS



## CHENNAI METTEX LAB PRIVATE LIMITED<sup>®</sup>

Jothi Complex, 83, M.K.N. Road, Guindy, Chennai - 600 032, Tamil Nadu, INDIA  
Phone : +91 44 22323163, 22311034, 42179490, 42179491 | CIN : U74999TN2008PTC069459  
Email : test@mettexlab.com | Web : www.mettexlab.com

### TEST REPORT

Page No. 1of 1

ISSUED TO : M/s.Samkitec Green Technologies,

Flat No : 302, Sahiti Sri Vidya Petals  
Street No : 1, Avenue2, Patrika Nagar,  
HITECH CITY, Hyderabad - 500 081.

Cust. Ref : Letter Dated : 14.09.2024

Lab No : 25055994

Sample Description : Biochar Juliflora.  
(as stated by customer)

T.C Date : 25.09.2024

T.C No : CML/24-25/50783

Date Of Receipt : 16.09.2024

Commenced on : 16.09.2024

Completed On : 24.09.2024

S. No	Test Parameters	Instrument used	Test Results
1	Nitrogen as N (as Received Basis)	By Nitrogen Digester	0.64 %
2	C:N ratio	By Calculation	88.4 : 1
3	Fixed Carbon		70.46 %
4	Gross Calorific Value (as received Basis), Kcal/kgm	By Bomb Calorimeter	6626 Kcal/kgm
5	pH (1%w/v Solution)	By using pH Meter	7.97
6	Cation Exchange Capacity (CEC)	USEPA 9080	3.2 meq/100gm
7	Volatile Matter @ 900°C for 7 Minutes	By Using Muffle furnace	26.52 %
8	Phosphorous as P	Instrument used by ICP - OES	383 mg/kg
9	Potassium as K		4400 mg/kg

End of Report



For Chennai Mettex Lab Private Limited



## CHENNAI METTEX LAB PRIVATE LIMITED<sup>®</sup>

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Flat No : 302, Sahiti Sri Vidya Petals  
Street No : 1, Avenue2, Patrika Nagar,  
HITECH CITY, Hyderabad - 500 081.

Cust. Ref : Letter Dated : 14.09.2024

Lab No : 25055993

Sample Description : Biochar Eucaplytus.  
(as stated by customer)

T.C Date : 25.09.2024

T.C No : CML/24-25/50782

Date Of Receipt : 16.09.2024

Commenced on : 16.09.2024

Completed On : 24.09.2024

S. No	Test Parameters	Instrument used	Test Results
1	Nitrogen as N (as Received Basis)	By Nitrogen Digester	0.84 %
2	C:N ratio	By Calculation	1.19 : 1
3	Fixed Carbon		66.95 %
4	Gross Calorific Value (as received Basis), Kcal/kgm	By Bomb Calorimeter	7089 Kcal/kgm
5	pH (1%w/v Solution)	By using pH Meter	8.24
6	Cation Exchange Capacity (CEC)	USEPA 9080	3.1 meq/100gm
7	Volatile Matter @ 900°C for 7 Minutes	By Using Muffle furnace	24.24 %
8	Phosphorous as P	Instrument used by ICP - OES	1586 mg/kg
9	Potassium as K		10078 mg/kg

End of Report



For Chennai Mettex Lab Private Limited

# Contact us



**SAMKITEC**  
Green Technologies

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