

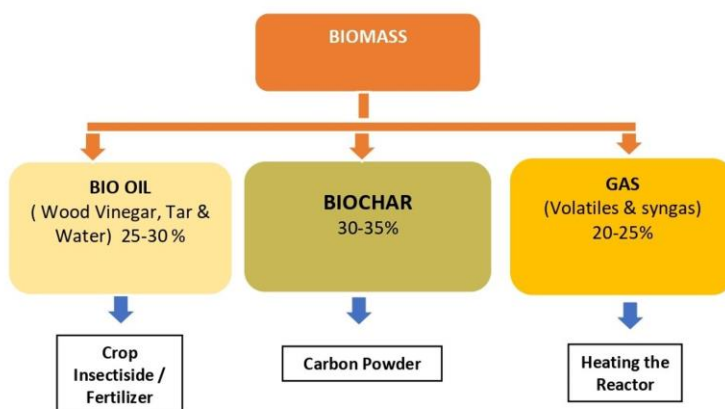
Biomass to Biochar

Thermal Conversion – Pyrolysis

We offer 3 TPD to 100 TPD
Continuous plants



Paddy Straw | Eucalyptus | Saw Dust | Rice Husk
Juli Flora | Pine Needle | Corn Cob | Bamboo Waste
Coconut Shell | Wood Chips | Stubble Waste etc





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
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TEST REPORT Page No. 1 of 1

ISSUED TO : M/s Samkitek Green Technologies.
Flat No : 302, Sahiti Sri Vidya Petals
Street No : 1, Avenue2, Partika Nagar,
HITEC City, Hyderabad - 500 081.

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

Cust. Ref : Letter Dated : 14.09.2024
Lab No : 25055994

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

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 Mettlex Lab Private Limited


 Revised & Authorized by
P. VASANTHAN
 Technical Manager
 Authorized Signatory

TEST REPORT Page No. 1 of 1

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Completed On : 24.09.2024

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Lab No : 25055993

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

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		66.96 %
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 Mettlex Lab Private Limited


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