

## TAAT e-catalog for **private sector**

8.7

305 usp For 500 Kg capacity

# Biochar: Biomass Charcoal for Soil improvement

Biochar, a powerfully circular way to fight climate change

Biochar technology is a form of charcoal. It is made through a process called pyrolysis which involves burning of biomass in an oven with little or no oxygen. What you get out of it is solid material which then is added into soil.



Moshood Sulaiman

Commodities

Sustainable Development Goals









### Categories

Production, Pre-production, Inputs. Fertilizer, Combustible



### Solution

· Poor soil fertility and health • High greenhouse gas emissions from agricultural

This technology is <u>pre-validated</u>.

practices

5-10 Tones

Recommended Biochar quantity for 1 hectare

• Soil erosion and nutrient leaching

**Problem** 

- Limited contributions to climate change mitigation efforts
- Biochar reduces the need for farmers to burn residues, while also creating a valuable soil amendment that can improve soil,

Open source / open access

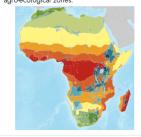
- Reduce water usage, lower methane emissions,
- · Save on input costs for expensive and polluting chemical fertilizers.

### Key points to design your business plan

Biochar technology is an innovative approach to sustainable farming, enhancing soil health, improving crop yields. To integrate it into your business:

- The equipment to produce Biochar costs around 305 USD and is available in Nigeria.
- Farmers can purchase Biochar directly, with prices. Approximately 5-10 tons per hectare are required for optimal soil enhancement.
- · Key partners for implementing Biochar technology include equipment sellers, agricultural service

Where it can be used This technology can be used in the colored agro-ecological zones.



Target groups

Gender assessment



Climate impact



