



EEP

ENERGY AND ENVIRONMENT
PARTNERSHIP / SOUTHERN AND EAST AFRICA

Materials and Tools



RAW MATERIALS	BINDER	EQUIPMENT
Manure slurry	Manure slurry	Bricks
Wood sawdust	Cashew nut shells	Shovel
Cocunut wastes	Wheat starch	Weighing balance
Starch	Sweet potatoes	Mould Press
Cashew nut Shells	Sorghum	Wood Press
Maize cobs	Corn Husks	Diaper Ken
Manure cobs	Guar Gum	Sugarcane molasses
Wheat stalk residues	Purged water pulpers	Diaper Ken
Mechanisms for shells	Plastic tubs	Drying Rack
SORTING LUGS		Briquette press

BRIQUETTE PRODUCTION PROCESS

Carbonised

1 Raw Materials

Collect biomass materials such as coconut waste, maize cobs and wood shavings. Dry them until moisture is reduced to 10%

2 Carbonization
Carbonization of biomass material

3 Size reduction
Sort to remove uncarbonized material and crush to powder

4 Sieving
Sieve the dried charcoal dust on to an empty bucket

5 Weighing
Weigh the sieved fine powder

6 Mixing Stage
Add together the sieved charcoal and binder material. Add water and stir evenly to make an even paste. (This applies even when using soil as a binder)

Binder preparation
10 parts water to 1 part starch. Raise the mixture to near boiling

7a Extrusion
Pour the paste in to the briquette press and mould/compress into shape

7b Extrusion
Pour the paste in to the briquetting machine, and compress into shape. Cut the briquettes to size

8a Drying
Dry the briquettes on a rack for 4-5 days under the sun to dry. Pack the ready briquettes for sale.

8b Drying
Dry the briquettes on a rack for 4-5 days under the sun to dry. Pack the ready briquettes for sale.

9 Packaging
Package in an environmental friendly way



Materials and Tools



RAW MATERIALS	BINDER	EQUIPMENT
Cashew nut husks	Aspen	Blender
Coffin husks	Sugar cane molasses	Bucket
Rice husks	Pulped waste papers	Weighing Balance
Peanut husk		Mould Press
White bark residues		Sieve
Macadamia nut shells		Drum
Banana Leaves		Block/flat press

BRIQUETTE PRODUCTION PROCESS

Non Carbonised

