

COMMERCIAL ROCKET FIREWOOD MUD STOVE FOR SHEA BUTTER PRODUCTION

Type	Capacity	Quantity Required	Description of Materials
Built-in commercial Rocket mud with two pot cavities (pot-hole) and a chimney for Shea Butter Production	Twin chamber stove of capacity 100-300 L.	14	<u>Purpose:</u> For boiling shea nuts and for extraction of oil from the shea cake. <u>General Description</u> Fixed built-in massive stove with two pot cavities and a chimney with single fuel combustion chamber. Built on rocket-stove principles with a shelf for inserting firewood at the correct level. The stove has a tall combustion chamber a well-lined airflow and pots are set into the body of the stove. Pot cavities are customized for the client interest. The stove has rectangular cross section with oversize dependent on the pot. <u>Materials</u> Built of an insulated mixture consisting of organic material (chopped grass, sawdust or chopped dry banana leaves) bound together with mud. The stove is either built as a homogenous block or built of stones and bricks plastered with this insulating soil mixture. Or Burnt hollow bricks, cement mortals and galvanized chimney at the end <u>Parts:</u> Twin chamber stove with 60 inches diameter. A hard cement top plate that keeps the stove together. Cement filling between bricks to make it rain proof and aesthetically pleasing. Double wall construction for a hot combustion chamber and low mass. Adobe block walls Short chimney to minimize heat. <u>Stove dimension</u> (Depending on the client pots) • Length: 180 inches • Width: 150 inches • Height: 150 inches • Chimney height: 2.5 meter • Pot diameter 60 inches <u>Capacity:</u> 100-300 L. Boiling 40 litres in 30 minutes (without lid) <u>Fuel:</u> Firewood or agricultural waste and shea cake <u>Area of feed chamber circumference Pot:</u> 60-70 inches <u>Efficiency:</u> Clean combustion boiling 40 litres in 30 minutes.

Description of the Stoves

