

Mobile Cassava Processing Plant

Transforming Cassava, Mobile Processing for Sustainable Agriculture



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The MCPP is a mobile unit equipped with machinery for processing cassava into products like high-quality cassava cake, wet fufu, and gari. It features a flatbed workspace formed by opening the back sides and tailgate, with standard operating procedures for specific products.

This technology is **TAAT1 validated**.
 Scaling readiness: idea maturity 6/9; level of use 6/9

Gender assessment

Climate impact

Technology originally documented by
ProPAS

Commodities
Cassava

Sustainable Development Goals

Problem

- Limited market access for cassava farmers in rural areas due to inaccessible rural roads
- High risk of postharvest losses and transportation costs due to cassava's perishability and bulkiness
- Lack of necessary infrastructure (electricity, water, etc.) and labor in rural areas to attract investments in processing factories
- Inconsistent and inadequate supply of cassava roots for processors

Solution

- The MCPP is most useful for processing factory owners to process cassava at farm-gate into non-perishable semi-processed products that are 20-50% of the weight of fresh roots.
- The less bulky semi-processed products are transported from the farms at lower transportation cost to city-based factories for final drying and packaging at a competitive price and higher profitability.

Categories
Transformation, Equipment, Agrifood processing

Key points to design your project

The Mobile Cassava Processing Plant (MCPP) offers an innovative solution for cassava processing. To integrate the MCPP into your project, follow these steps:

- Promote the technology through community demonstrations to raise awareness.
- Assess project requirements to determine MCPP size and configuration.
- Consider logistical factors like delivery costs and import duties.
- Engage trainers for comprehensive equipment operation and maintenance training.
- Develop communication materials to educate stakeholders on MCPP benefits.

Tested/adopted in

■ Tested & adopted
■ Adopted
■ Tested

Cost: \$\$\$ 40000—48500	ROI: \$\$\$ 156 %
USD	Gari production
Cost of a mobile processing factory	
52900 USD	49386 USD
Startup Capital (gari production)	Startup capital (high-quality cassava cake)
	155 %
	ROI (high-quality cassava cake)
	IP
	Open source / open access

Where it can be used

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

Target groups
Processors