



Technologies for African  
Agricultural Transformation

# TAAT INVESTORS FORUM

Showcasing TAAT Technologies  
15 February 2022: 1000 -1600 (WAT)



**Cassava - Mobile Processing Plant**  
(<https://propas.iita.org/solutions/mobile-cassava-processing-plant/7/details/>)

## TAAT Technology

### Mobile Cassava Processing Plant

<https://propas.iita.org/solutions/mobile-cassava-processing-plant/7/details/>

#### Technology

Specially constructed mobile processing plant includes six-wheel truck with crane, processing machinery, electric generator, water pump, water storage tank, and other accessories.

- Unit driven to farmgate for processing roots into cassava products of choice
- Sides and tailgate of truck open flat for a larger platform or processing workspace
- Equipped with specific set of machinery tailored to process a targeted, shelf-stable, and market-demanded cassava product (high-quality cassava cake, wet fufu, or wet starch, and gari)
- Processed product transported with ease, at low cost to centrally located factory for drying and packaging



#### Value Chain Position

- Postharvest

#### What is it for:

- Cassava processing investors

#### Geographical Coverage

- Nigeria

#### Commodity

- Cassava

## Problems Solved and Benefits

- Mobile plant avoids problems associated with investment in expensive processing factories with challenges of insufficient electricity and inconsistent and inadequate supply of roots
- Avoids cost of transporting bulky fresh roots to distant factories
- Processes cassava at farmgate into non-perishable, semi-processed products that are 20–50% of the weight of fresh roots
- Less bulky, semi-processed products are transported from the farms at lower transportation cost to factories for final drying and packaging

## Cost

- US\$40,000–US\$48,500
- including electric generator, six-wheel truck and loader crane
- depending on final cassava products required (gari, wet starch, wet fufu, or high-quality pressed cake for cassava flour (HQCF))



## Sample IRR/FOI

- US\$52,900 start-up capital needed for gari production. Sample loan of US\$37,000, with three-month moratorium, 36-month loan tenure and 17% interest rate, the net profit after tax is estimated at US\$82,600, net present value (NPV) is US\$79,524, the internal rate of return (IRR) is 49%, and return on investment (ROI) is 156.2
- US\$49,386 start-up capital for processing high quality cassava cake (HQCC), Sample loan of US\$34,570 with three-month moratorium, 36-month loan tenure and interest rate of 17%, net profit after tax approximately US\$77,000; net present value (NPV) of US\$75,346, internal rate of return (IRR) of 50%, and return on investment (ROI) of 155.9



### Links to Associated Technologies:

Aflatoxin management (Aflasafe): <https://propas.iita.org/solutions/aflatoxin-management-eg-aflasafe-atoxic-fungi/77/details/>

“Hello Tractor” - Contract mechanization app: <https://propas.iita.org/solutions/contract-mechanization-apps-eg-hello-tractor/75/details/>

“Six Steps” cassava weed management: <https://propas.iita.org/solutions/six-steps-cassava-weed-management/70/details/>

Semi Autotrophic Hydroponics for Cassava Multiplication: <https://propas.iita.org/solutions/semi-autotrophic-hydroponics-for-cassava-multiplication/58/details/>

Cassava varieties with high dry matter and starch content: <https://propas.iita.org/solutions/cassava-varieties-with-high-dry-matter-and-starch-content/53/details/>

Disease-resistant cassava varieties: <https://propas.iita.org/solutions/disease-resistant-cassava-varieties/51/details/>

Cassava Business Connector (CBC): <https://propas.iita.org/solutions/cassava-business-connector-cbc/21/details/>

# Historical Interactions with the Private Sector

Reliable manufacturer per equipment of the mobile cassava processing unit.



Manufacturer	Address	Telephone	email	Country	Reliable for:	
					Cassava Machines	Top Specialty
<b>Nobex Technology Ltd.</b>	15, Vic Morak Street, Council Bus Stop, Alimosho Local Govt. Area. Lagos.	08029063626, 08020397399		Nigeria	Most	Peeler
<b>Niji-Lukas Nigeria Limited,</b>	10, Kufisile Str., Off LASU Road, Isheri Roundabout, Idimu, Lagos	08037066261, (01)7743152, 08023540768	nijilukas@hotmail.com, nijilukas2000@yahoo.	Nigeria	All	Flash dryer
<b>FATAROY Steel Works LTD.</b>	Opposite UCH, Ibadan	8023346974		Nigeria	Most	
<b>A &amp; H Metal Construction LTD.</b>	Mosalasi Yidi, Water Works Area. P. O. Box 57, Iwo, Osun State.	0803498823, & 8060401192	<a href="mailto:btospina@terra.com.br">btospina@terra.com.br</a>	Nigeria	Most	
<b>Adebash Manufacturing Company</b>	Old Oyo Road, after Moniya, Ibadan	8084433488	<a href="mailto:adebash@yahoo.com">adebash@yahoo.com</a>	Nigeria	Most	Hydraulic Press
<b>B &amp; T Ventures</b>	Jerusalem Arulogun Rd, B/4 Ojoo High School, Ojoo, P. O. Box 20437, U. I Post Office, Ibadan. Oyo State.	08023501031, 08023188137		Nigeria	Most	
<b>Hickmann Venture LTD.</b>	Car Wash Bus Stop, Idimu. Egbeda. Lagos.			Nigeria	Most	Small scale flash dryer
<b>Deban Faith LTD.</b>	Beside Obasanjo Presidential Library.	8030423532		Nigeria	Most	Small scale