

Cassava pos-harvest Cassava flour for animal feeding

CLAYUCA is working in the development of a technology for the production of cassava flour that can be used in animal feeding. This technology has been developed to meet criteria related to competitiveness, efficiency and profitability.

Processing costs

Item	Consumption per flour ton		Unitary value \$Col	Cost \$Col	
	1	2		1	2
Plant factory model¹⁾	1	2		1	2
Raw material					
Fresh roots (30c)	2,5	2,5	80,000	200,000	200,000
Processing costs					
Electric power (kwh)	130	85	150	19,500	12,750
Natural gas m ³	70	60	250	17,500	15,000
Maintenance ²⁾				6,200	2,970
Depreciation ³⁾				15,350	7,410
Manual labor	7	17		24,300	10,630
				Subtotal	82,280
				Total production costs⁴⁾	282,280
					348,760

¹⁾ Model 1: 500 kg/h; 1450 ton flour/year
²⁾ Model 2: 5 ton/h; 14500 ton flour/year
³⁾ Both models working 300 days per year, three shifts per day
⁴⁾ Price of roots at up processing plant gate
⁵⁾ 4% per year of investment costs
⁶⁾ Calculated over 10 years
⁷⁾ Price of cassava flour at up processing plant gate

General view of the processing plant

Stages of the process

Product

Cleaning of fresh roots

Drying, acclimatization and packing

Chipping and disintegration

Pre drying

Cassava integral flour

Variation of the cyanide content during the process



Technical data

Proximal analysis of the cassava integral flour

Description	% H b.h	Protein (%)	FC (%)	Ashes (%)	E.E.T. (%)	CN total (ppm)	CN free (ppm)
CM 340-30	2.67	3.98	3.31	0.92			
CM 340-30	2.72	4.01	3.26	0.90			
CM 340-30	2.54	3.82	3.39	0.50			
AVERAGE	11	2.64	3.93	3.32	0.77	62	67
MVEN 2	2.68	3.76	3.41	0.68			
MVEN 35	2.50	4.28	3.31	0.72			
MVEN 25	2.74	3.80	3.47	0.80			
AVERAGE	13	2.64	3.98	3.40	0.73	60	48

Variation of the moisture content during the process

