

PROJECT PROFILES



PRODUCTS DERIVED
FROM
MAIZE

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MAIZE FLOUR

INTRODUCTION

This project involves setting up a small-scale maize flour milling facility to produce cornmeal. Cornmeal is a versatile staple food widely used in Nigeria for making various dishes such as pap, “tuwo”, porridge and bread. This business aims to provide high-quality, finely milled maize flour that caters to local dietary needs while ensuring affordability and freshness.

MARKETING POTENTIAL

Maize flour is a staple food product consumed by many households and institutions in Katsina State and neighbouring areas. With a growing population and increasing demand for locally produced food products, the market for cornmeal is substantial. The project will target local retailers, markets, and food vendors, tapping into the preference for fresh and regionally sourced food products. The availability of maize and established distribution networks make this venture highly promising.

BASIS & PRESUMPTIONS

- Reliable access to raw maize sourced locally.
- Equipment focused on small-scale, semi-automated operations to maintain budget constraints.
- Production capacity of approximately 2 tons of maize flour per day, for 25 days.
- Stable market demand in local and regional food markets.
- Basic compliance with food safety and health regulations assumed.
- Lean staffing structure for operations.

IMPLEMENTATION SCHEDULE

Milestone	Duration (Weeks)
Business registration	2
Regulatory approvals	3
Procurement of equipment	3
Setup of production facility	4
Recruitment and training	2
Production trials	1
Market Launch	1

MAIZE FLOUR

MANUFACTURING PROCESS

The production begins with the purchase and transportation of raw maize to the milling facility. The maize is cleaned using a grain cleaner that removes dirt, stones, and other impurities. The cleaned maize is then dehulled in a dehulling machine, which separates the maize germ and bran. The dehulled maize is ground using a hammer mill equipped with fine mesh screens, with a capacity of 300 kg/hour to produce fine maize flour.

The flour is sieved to remove any remaining larger particles and is then fortified with essential nutrients as needed.. The final product is collected in a storage tank before being transferred to a semi-automatic packing machine, where it is weighed and packed into 5 kg bags. The sealed bags are labelled and stored in a dry, clean warehouse ready for distribution.

PRODUCTION CAPACITY

Annual Quantity	50 Metric Tons
Value	60,000,000.00 NGN (based on 1,200 NGN per kg as selling price)

FINANCIAL ASPECTS

Fixed Capital

Item Description	Cost (NGN)
Lease for production space	1,500,000.00
Grain cleaner	1,000,000.00
Dehulling machine	1,000,000.00
Hammer mill	1,800,000.00
Sieving machine	700,000.00
Semi-automatic packaging machine	1,100,000.00
Storage racks	400,000.00

MAIZE FLOUR

Installation and setup	1,200,000.00
Total Fixed Capital	8,700,000.00

Workers' Salaries

Position (w/ population)	Monthly Cost (NGN)
Machine Operators (2)	170,000.00
Quality Control Staff (1)	90,000.00
Unskilled Worker (2)	140,000.00
Security Guard (1)	70,000.00
Total Salaries (per month)	570,000.00

Raw Materials (per month)

Material	Rate (NGN)	Total Cost (NGN)
Maize (50,000 kg)	500.00	25,000,000.00
Packaging Materials (10,000 pieces of 5kg bags)	150.00	1,500,000.00
Total Raw Materials		26,500,000.00

Utilities (per month)

Utility	Rate (NGN)	Cost (NGN)
Electricity (500kWh)	85.00	42,500.00
Diesel (300L)	1,200.00	360,000.00
Total Utilities		402,500.00

MAIZE FLOUR

Other Expenses (per month)

Expense	Cost (NGN)
Marketing and distribution	100,000.00
Maintenance	50,000.00
Miscellaneous	50,000.00
Total Other Expenses	200,000.00

Total Recurring Expenses

Expense	Cost (NGN)
Workers' Salaries	570,000.00
Raw Materials	26,500,000.00
Utilities	402,500.00
Other Expenses	200,000.00
Total (25 days)	27,432,500.00

Revenue

Item	Quantity	Rate (NGN)	Cost (NGN)
Maize Flour	50,000kg	1,200.00	60,000,000.00

Net Profit (before tax)

Total Recurrent Expenses	27,432,500.00 NGN
Revenue	60,000,000.00 NGN
Net Profit	32,567,500.00 NGN

MAIZE FLOUR

CONCLUSION

The maize flour milling project is an excellent small-scale business opportunity that aligns with the dietary needs of households and institutions in Katsina State and neighbouring regions. Maize flour, being a staple food product, enjoys consistent demand throughout the year, making this business highly sustainable. The affordability and freshness of locally milled flour further strengthen its appeal among consumers. By employing semi-automated equipment and maintaining compliance with food safety regulations, this venture ensures the production of high-quality flour while keeping operational costs manageable. The project also supports local farmers by sourcing maize from the region, contributing to rural development and food security. With well-established distribution networks and growing consumer demand for locally sourced food products, this business has significant potential for profitability and scalability. Overall, this project represents a viable investment that addresses both economic and social objectives, making it a valuable addition to Katsina's agro-processing industry.

POPCORN & CORN CHIPS

INTRODUCTION

This project focuses on establishing a small-scale corn snack production facility that will produce popcorn and corn chips. Corn snacks are popular, affordable, and highly consumed in Nigeria due to their taste, convenience, and nutritional benefits. This business aims to tap into the growing snack market by producing high-quality and locally sourced corn-based products.

MARKET POTENTIAL

Corn snacks have a strong demand in Katsina State and surrounding regions. They are commonly consumed by children and adults as an affordable snack option. The potential market includes schools, retailers, supermarkets, and street vendors. With increased urbanization and changing consumer preferences, there is a consistent rise in the demand for ready-to-eat snacks. The project can leverage the availability of maize in Katsina to ensure cost-effective production and quick distribution.

BASIS & PRESUMPTIONS

- Consistent supply of locally sourced maize.
- Production of two main products: popcorn and corn chips.
- Assumption of moderate demand from schools, vendors, and shops.
- Affordable, small-scale machinery for snack production.
- Compliance with basic food safety standards.

IMPLEMENTATION SCHEDULE

Milestone	Duration (Weeks)
Business registration	2
Regulatory approvals	3
Procurement of equipment	3
Setup of production facility	4
Recruitment and training	2
Production trials	1
Market Launch	1

POPCORN & CORN CHIPS

MANUFACTURING PROCESS

The production process begins with sourcing high-quality maize kernels. For popcorn production, the kernels are cleaned using a seed cleaner to remove impurities and then stored in a dry area. The cleaned kernels are transferred to an automatic popcorn machine that pops the kernels at the required temperature. The popcorn is seasoned with butter flavour, salt, or sugar using a mixing drum to ensure even distribution.

For corn chips, maize is first ground using a hammer mill and mixed with water and seasonings to form a dough. The dough is flattened using a dough sheeter and cut into chip shapes. The chips are fried in an industrial fryer until golden brown and crisp. Once fried, the chips are seasoned and cooled before packaging.

Both snacks are packed into 50 g and 100 g bags using a semi-automatic packing machine. The bags are sealed and labelled, ready for sale.

PRODUCTION CAPACITY

Annual Quantity	240,000 Units
Value	84,000,000.00 NGN (based on 350 NGN per unit as selling price)

FINANCIAL ASPECTS

Fixed Capital

Item Description	Cost (NGN)
Lease for production space	1,500,000.00
Popcorn machine	800,000.00
Industrial fryer	1,000,000.00
Mixing drum	500,000.00
Hammer mill	800,000.00
Dough sheeter	600,000.00
Semi-automatic packing machine	1,100,000.00

POPCORN & CORN CHIPS

Storage racks	400,000.00
Installation and setup	1,000,000.00
Total Fixed Capital	7,700,000.00

Workers' Salaries

Position (w/ population)	Monthly Cost (NGN)
Machine Operators (2)	170,000.00
Quality Control Staff (1)	90,000.00
Packaging Staff (2)	140,000.00
Security Guard (1)	70,000.00
Total Salaries (per month)	570,000.00

Raw Materials (per month)

Material	Rate (NGN)	Total Cost (NGN)
Maize (2,000 kg)	500.00	1,000,000.00
Seasonings & Flavourings (Various)	500,000.00	500,000.00
Packaging Materials (20,000 units)	25.00	500,000.00
Total Raw Materials		2,000,000.00

Utilities

Utility	Rate (NGN)	Cost (NGN)
Electricity (1000kWh)	85.00	85,000.00
Diesel (500L)	1,200.00	600,000.00
Total Utilities		685,000.00

POPCORN & CORN CHIPS

Other Expenses (per month)

Expense	Cost (NGN)
Marketing and distribution	150,000.00
Maintenance	50,000.00
Miscellaneous	50,000.00
Total Other Expenses	250,000.00

Total Recurring Expenses

Expense	Cost (NGN)
Workers' Salaries	570,000.00
Raw Materials	2,000,000.00
Utilities	685,000.00
Other Expenses	250,000.00
Total (per month)	3,505,000.00
Total (per annum)	42,060,000.00

Revenue

Item	Quantity	Rate (NGN)	Cost (NGN)
Corn Snacks	240,000 Units	350.00	84,000,000.00

Net Profit (before tax)

Total Recurrent Expenses	42,060,000.00 NGN
Revenue	84,000,000.00 NGN
Net Profit	41,940,000.00 NGN

POPCORN & CORN CHIPS

CONCLUSION

The corn snack production business is a promising small-scale venture with immense potential in the fast-growing snack market. Popcorn and corn chips are widely consumed across Nigeria for their affordability, taste, and convenience, making this project a reliable source of income. By focusing on quality, affordability, and variety in flavours, the business can attract a broad customer base, including schoolchildren, office workers, and households. The availability of maize in Katsina ensures a steady supply of raw materials, while small-scale machinery keeps production costs low. Furthermore, the increasing trend of urbanization and demand for ready-to-eat snacks creates opportunities for rapid market penetration. This project not only meets consumer demand but also generates employment and supports local farmers. With proper marketing strategies and consistent product quality, the corn snack production business is well-positioned to achieve sustained growth and profitability.

ANIMAL FEED

INTRODUCTION

This project entails establishing a medium-scale animal feed processing plant. The plant will produce high-quality feed for poultry, cattle, and goats using maize as a primary ingredient. The operation aims to support livestock farmers in Katsina and neighboring regions by providing reliable, nutritious feed options.

MARKET POTENTIAL

Animal feed is crucial for livestock farming, which is an essential part of the agricultural economy in Katsina State. With a growing demand for poultry, cattle, and goats, there is a consistent need for quality feed to support healthy animal growth. This project will cater to local and regional farmers, enhancing livestock productivity and supporting economic growth.

BASIS & PRESUMPTIONS

- Continuous access to locally sourced maize and other ingredients.
- A production capacity that meets regional demand.
- Compliance with agricultural and food safety regulations.
- Moderate to high market demand for livestock feed.

IMPLEMENTATION SCHEDULE

Milestone	Duration (Weeks)
Business registration	2
Regulatory approvals	3
Procurement of equipment	3
Setup of production facility	4
Recruitment and training	2
Production trials	1
Market Launch	1

MANUFACTURING PROCESS

The process starts with sourcing and transporting raw maize and other ingredients to the facility. The maize is cleaned using a grain cleaner to remove impurities. The cleaned maize is ground in a hammer mill to produce maize flour.

ANIMAL FEED

Other ingredients like soybean meal, vitamins, and minerals are mixed in a batch mixer with the maize flour.

The mixture is then processed in a pelletizing machine, which shapes the feed into pellets for easy storage and distribution. The pellets are dried in a dryer and cooled before packaging in 25 kg and 50 kg bags using an automatic packaging machine. The bags are sealed, labelled, and stored for distribution to farmers.

PRODUCTION CAPACITY

Annual Quantity	2,400 Metric Tons
Value	1,968,000,000.00 NGN (based on 820 NGN per unit as selling price)

FINANCIAL ASPECTS

Fixed Capital

Item Description	Cost (NGN)
Production space construction	15,000,000.00
Grain cleaner	2,500,000.00
Hammer mill	8,500,000.00
Batch mixer	8,500,000.00
Pelletizing machine	4,000,000.00
Dryer and cooler	3,000,000.00
Automatic packaging machine	3,500,000.00
Storage equipment	10,000,000.00
100kVA diesel generator	24,000,000.00
Installation and setup	5,000,000.00
Total Fixed Capital	84,000,000.00

ANIMAL FEED

Workers' Salaries

Position (w/ population)	Monthly Cost (NGN)
Manager (1)	300,000.00
Accountant (1)	250,000.00
Supervisor (1)	150,000.00
Machine Operators (2)	200,000.00
Quality Control Staff (2)	240,000.00
Unskilled Worker (2)	140,000.00
Engineer (1)	200,000.00
Security Guard (1)	70,000.00
Total Salaries (per month)	1,550,000.00

Raw Materials (per month)

Material	Rate (NGN)	Total Cost (NGN)
Maize (102,000 kg)	500.00	51,000,000.00
Soya beans (54,000 kg)	800.00	43,200,000.00
Wheat Bran (44,000 kg)	410.00	18,040,000.00
Feed Additives (Vitamins, Minerals, Amino Acids) (1,400 kg)	10,000.00	14,000,000.00
Total Raw Materials		126,240,000.00

Utilities (per month)

Utility	Rate (NGN)	Cost (NGN)
Electricity (6000kWh)	209.50	1,257,000.00

ANIMAL FEED

Diesel (2500L)	1,200.00	3,000,000.00
Total Utilities		4,257,000.00

Other Expenses (per month)

Expense	Cost (NGN)
Marketing and distribution	500,000.00
Maintenance	250,000.00
Miscellaneous	350,000.00
Total Other Expenses	1,050,000.00

Total Recurrent Expenses

Expense	Cost (NGN)
Workers' Salaries	1,550,000.00
Raw Materials	126,240,000.00
Utilities	4,257,000.00
Other Expenses	1,050,000.00
Total (per month)	133,097,000.00
Total (per annum)	1,597,164,000.00

Revenue

Item	Quantity	Rate (NGN)	Cost (NGN)
Animal Feed	2,400,000kg	820.00	1,968,000,000.00

ANIMAL FEED

Net Profit (before tax)

Total Recurrent Expenses	1,597,164,000.00 NGN
Revenue	1,968,000,000.00 NGN
Net Profit	370,836,000.00 NGN

CONCLUSION

The medium-scale animal feed processing plant is a transformative project with the potential to significantly impact the livestock sector in Katsina State. By producing high-quality feed for poultry, cattle, and goats, this business directly supports local farmers in improving livestock productivity. The utilization of maize and other locally sourced ingredients ensures cost efficiency and contributes to the agricultural value chain. The project is strategically positioned to tap into the growing demand for livestock feed, driven by the rising consumption of meat and dairy products. With modern processing equipment and a focus on quality, the business can maintain high production standards, meeting the expectations of both small-scale and commercial livestock farmers. Additionally, the dual benefits of economic profitability and agricultural development make this venture a cornerstone for sustainable growth in the region. This project highlights the importance of integrating value-added processing with local agricultural resources to create lasting economic and social benefits.