

PROJECT PROFILES



PRODUCTS DERIVED
FROM
SESAME SEEDS

TABLE OF CONTENTS

Project Name	Page Number
Sesame Seeds Snack Bar	1
Refined Sesame Oil & Seed Cake	6

SESAME SEEDS SNACK BAR

INTRODUCTION

The small-scale sesame seed snack manufacturing unit will focus on producing nutritious and tasty sesame bars, which are popular for their health benefits and energy-boosting properties. The business will source locally grown sesame seeds, adding value by transforming them into ready-to-eat snacks. This enterprise will cater to the growing demand for healthy snack options in Katsina State and surrounding areas.

MARKETING POTENTIAL

Sesame bars are becoming increasingly popular due to their health benefits, including being a good source of fiber, protein, and healthy fats. In Katsina and neighbouring states, there is a rising demand for nutritious and affordable snack options as consumer health consciousness grows. With a targeted marketing approach and partnerships with local retailers, schools, and markets, this business can secure a stable customer base and capture a share of the healthy snacks market.

BASIS & PRESUMPTIONS

- Local sourcing of sesame seeds ensures cost-efficiency and support for regional agriculture.
- The business will produce 1,000 sesame bars per day, operating 20 days a month.
- Market research indicates consistent demand for healthy, locally-made snacks.
- A simple production setup with semi-automated machinery to optimize costs.

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

SESAME SEEDS SNACK BAR

MANUFACTURING PROCESS

Sesame seed snack production begins with the sourcing and cleaning of raw sesame seeds. The seeds are lightly roasted in a rotating drum to bring out their natural flavour and enhance texture. A mixture of honey or sugar syrup is prepared by heating it to a specific temperature until it becomes thick and viscous. The roasted sesame seeds are then mixed with the syrup in a blending tank. The mixture is transferred to molding trays where it is evenly spread and compacted. After cooling, the hardened mixture is cut into bar-sized portions using a semi-automated cutting machine. The bars are individually wrapped in biodegradable packaging and labelled. They are then boxed and stored in a climate-controlled area to maintain freshness before distribution.

PRODUCTION CAPACITY

Annual Quantity	240,000 Sesame snack bars
Value	36,000,000.00 NGN (based on 150 NGN per kg as selling price)

FINANCIAL ASPECTS

Fixed Capital

Item Description	Cost (NGN)
Facility (rental/setup)	3,000,000.00
Roasting machine	2,500,000.00
Mixing/blending tank	1,500,000.00
Molding trays	500,000.00
Cutting machine	2,000,000.00
Packaging equipment	1,000,000.00
Storage containers	300,000.00
Miscellaneous tools	200,000.00
Total Fixed Capital	11,000,000.00

SESAME SEEDS SNACK BAR

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)
Sesame Seeds (550 kg)	1,100.00	605,000.00
Honey/Sugar Syrup	100,000.00	100,000.00
Packaging	150,000.00	150,000.00
Total Raw Materials		855,000.00

Utilities (per month)

Utility	Rate (NGN)	Cost (NGN)
Electricity (500kWh)	85.00	42,500.00
Diesel (100L)	1,200.00	120,000.00
Total Utilities		162,500.00

SESAME SEEDS SNACK BAR

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	855,000.00
Utilities	162,500.00
Other Expenses	200,000.00
Total (per month)	1,787,500.00
Total (per annum)	21,450,000.00

Revenue

Item	Quantity	Rate (NGN)	Cost (NGN)
Sesame Seeds Snack Bar (27.5g)	240,000 units	150.00	36,000,000.00

Net Profit (before tax)

Total Recurrent Expenses	21,450,000.00 NGN
Revenue	36,000,000.00 NGN
Net Profit	14,550,000.00 NGN

SESAME SEEDS SNACK BAR

CONCLUSION

The sesame seed snack bar production unit offers a promising opportunity for small-scale entrepreneurs in Katsina State to capitalize on the growing demand for healthy and affordable snacks. By leveraging the abundant local supply of sesame seeds and implementing a cost-effective production process, the business ensures sustainability and profitability. The increasing health consciousness among consumers, coupled with the nutritional benefits of sesame, positions sesame bars as a competitive product in the snack market. Additionally, the simple production process, semi-automated machinery, and robust market demand make this a viable venture for first-time entrepreneurs. The integration of eco-friendly packaging enhances the product's appeal to environmentally conscious consumers. Overall, this business has the potential to create jobs, support local agriculture, and generate consistent income for its owners, while contributing positively to the regional economy.

REFINED SESAME OIL & SEED CAKE

INTRODUCTION

This medium-scale project focuses on the extraction and refining of sesame oil, known for its nutritional value and culinary uses. The processed oil will serve both domestic cooking needs and the cosmetic industry. The business leverages the abundant local sesame seed supply in Katsina to provide high-quality, refined sesame oil for regional markets.

MARKET POTENTIAL

The demand for edible oils in Nigeria is significant, driven by households, food manufacturers, and the cosmetic industry. Sesame oil, known for its high levels of antioxidants and health benefits, is a premium product that can command a higher market price compared to other vegetable oils. Katsina's proximity to sesame-growing regions ensures a consistent supply of raw materials, making the business sustainable and competitive. It also has a very high export demand.

BASIS & PRESUMPTIONS

- Factory operates at 75% capacity in the first year, ramping up as market penetration increases.
- The oil extraction process involves modern, semi-automated machinery to ensure product quality.
- Raw materials are sourced locally to minimize logistics costs.

IMPLEMENTATION SCHEDULE

Milestone	Duration (Weeks)
Business registration	2
Regulatory approvals	3
Procurement of equipment	8
Procurement of raw materials	2
Setup of production facility	6
Recruitment and training	2
Production trials	1
Market Launch	1

REFINED SESAME OIL & SEED CAKE

MANUFACTURING PROCESS

The production of refined sesame oil begins with the procurement and cleaning of sesame seeds to remove impurities. The cleaned seeds are passed through a mechanical expeller where the first stage of oil extraction occurs. This cold pressing method extracts the crude sesame oil, which is then collected for the refining process. The crude oil undergoes degumming and neutralization to remove unwanted substances. It is then bleached using activated clay to lighten the color and filtered to remove impurities. The final step is deodorization, where steam is used to eliminate any residual odour, producing refined oil suitable for culinary and cosmetic use. The refined oil is cooled, measured, and filled into PET bottles with secure caps and labeled for distribution. Also, by-products such as sesame seed cakes can be sold as livestock feed.

PRODUCTION CAPACITY

Annual Quantity	60,000 litres
Value	300,000,000.00 NGN (based on 5,000 NGN per litre as selling price)

FINANCIAL ASPECTS

Fixed Capital

Item Description	Cost (NGN)
Facility (rental/setup)	15,000,000.00
Cleaning and sorting machine	8,000,000.00
Oil expeller	12,000,000.00
Refining unit	25,000,000.00
Filtration and deodorization unit	10,000,000.00
Bottling and labeling line	15,000,000.00
Storage tanks	5,000,000.00
Packaging equipment	3,000,000.00
Total Fixed Capital	93,000,000.00

REFINED SESAME OIL & SEED CAKE

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)
Sesame Seeds (10,000kg)	1,100.00	11,000,000.00
Packaging materials (10,000 bottles of 500ml)	85.00	850,000.00
Total Raw Materials		11,850,000.00

Utilities (per month)

Utility	Rate (NGN)	Cost (NGN)
Electricity (1500kWh)	210.00	315,000.00
Diesel (1200L)	1,200.00	1,440,000.00
Total Utilities		1,755,000.00

REFINED SESAME OIL & SEED CAKE

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	6,910,000.00
Utilities	1,755,000.00
Other Expenses	1,050,000.00
Total (per month)	11,265,000.00
Total (per annum)	135,180,000.00

Revenue

Item	Quantity	Rate (NGN)	Cost (NGN)
Sesame Seed Oil (500ml)	120,000 Units	2,500.00	300,000,000.00
Sesame Seed Cake	60,000kg	800.00	48,000,000.00
Total Revenue			348,000,000.00

REFINED SESAME OIL & SEED CAKE

Net Profit (before tax)

Total Recurrent Expenses	135,180,000.00 NGN
Revenue	348,000,000.00 NGN
Net Profit	212,820,000.00 NGN

CONCLUSION

The refined sesame oil and seed cake production business represents a highly profitable medium-scale enterprise that caters to multiple markets, including cooking oil for households, cosmetic industries, and livestock feed. The dual revenue streams from sesame oil and seed cake ensure financial stability and scalability. With Katsina State's proximity to sesame-growing regions, the business can access a reliable supply of raw materials at competitive rates, minimizing operational risks. The modern, semi-automated processing equipment guarantees high-quality products, meeting both domestic and export market standards. By producing a premium edible oil rich in antioxidants and health benefits, this venture taps into the growing demand for healthier cooking alternatives. Additionally, sesame seed cake provides a valuable by-product for the livestock industry, creating further revenue opportunities. With a clear focus on quality, efficiency, and strategic market penetration, this project has the potential to deliver long-term profitability while supporting local farmers and contributing to the development of the agricultural value chain in the region.