PROJECT PROFILE ON MILLET FOOD PRODUCTS

Sl No	Description	
1	Product	Millet Food Products
2	Quality Standards	FSSAI
3	Production Capacity per annum	62,000/ kgs
4	Value	Rs.89.90/lakhs
5	Month & Year	June 2020
6	Prepared by	**MSME DEVELOPMENT INSTITUTE GOVT. OF INDIA, MINISTRY OF MSME, 65/1, G S T ROAD, GUINDY CHENNAI -600032, TAMILNADU Website: www.msmedi-chennai.gov.in Email: dcdi-chennai@dcmsme.gov.in**

1. Introduction

Traditionally fermented foods and beverages obtained from millet or millet mixed with other cereals (corn and sorghum) include koko (millet porridge), fura, mangishi, jandh, uji, burukutu, kunu-zaki, ogi, and bushera. Unfermented millet-based products include dambu, masvusvu, and roti

Millet is a cereal grain that belongs to the Poaceae family, commonly known as the grass family (1). It's widely consumed in developing countries throughout Africa and Asia. While it may look like a seed, millet's nutritional profile is similar to that of sorghum and other cereals.

It is rich in minerals like calcium, copper, iron, magnesium, phosphorus, potassium, and selenium as well as essential vitamins like folate, pantothenic acid, niacin, riboflavin, and Vitamins B6, C, E, and K. Many of the most powerful health benefits millet has to offer are related to its fiber content.

1.1. Millet Based Cookie

Cookie is a small flat, baked product, commonly called biscuit. Cookie usually prepared from wheat flour, eggs, sugar and fat, sometimes toppings with raisins, oats or chocolate chips. Generally, wheat is one of the cereals used extensively throughout the world for the preparation of cookie. But cookie from non-wheat cereals like rice, jowar, maize or millet is uncommon. Recently, millets are gaining importance because they can offer several nutraceuticals, and also being rich in protein, minerals and vitamins. Its protein has a beneficial influence on the metabolism of cholesterol. Cereal or millet cookie is made from a fine flour of millet with leavening and shortenings. There exists, however considerable potential for large scale manufacture and marketing of shelf-stable product utilizing underutilized grains like proso or foxtail millet as the

demand for ready-to-eat convenience food products has been steadily increasing, consequent to industrialization.

2. Market Demand

The global millet consumption has declined at a rate of 0.9% and expected to witness positive movement during the forecast period. India, Niger, and China are the largest producers of millet in the world, accounting for more than 55% of global production. For many years, India was the world's major producer of millet. However, in recent years, millet production has increased dramatically in Africa.

The global millet production was estimated at 27.8 million tons. India is the largest global producer with a 41.0% global market share. In the last two decades, the importance of millet as food staples, particularly in India, has been declining due to various factors, including rising incomes, growing urbanization, and government policies. More than 50% of the millet production is currently finding its way into alternative uses as opposed to its consumption only as a staple.

Due to COVID-19 issues in across the world the demand of nutrition based foods are having good demand, thus the millet based food industry will shine significantly.

3. Energy Conservation:

General precautions for saving electricity are followed by the unit by providing energy meter. These products are low energy consumption. Thus considerable energy could be saved during manufacturing activities

4. Electrical HP Details:

Sl.No	Name of the Machine	No: of m/s	H.P Connected
	Total power conducted	**5**	**10**
Total H.P Connected			**10**

5. Basis and presumption of the project:

i. The process of manufacture is on the basis of single shift eight hours per shift with three hundred working days in a year.

ii. To achieve full plant capacity it requires three month trial production

iii. Labor and wages mentioned in profile are as per prevailing local rates.

iv. Interest rate at 12% considered in the project

v. However the rate of interest may be varying while implement

vi. Rent for 12 months taken as for Building which applicable under the PMGEP Schemes

*vii. The Promoter contribution will be **5%** of the total project cost in **PMEGP** Scheme*

6.1. Land & Building *:3500 sq.ft Rented : Rs.15,000/ per month*

S.No	***Description***	***Value (Rs.)***
1.	Rent to be paid for 12 months taken as for Building which applicable under the PMGEP Schemes	1,80,000/

6.2. Machinery and Equipment: Rs

S.no	***Description***	***No s***	***Value***
1	Grinding Machine	1	2,75,000
2	Vibrating Screen	1	55,000
3	Pressing Machine with various dies	2	2,60,000
4	Oil fired Kiln	1	4,10,000
5	Semi automatic Packing Machine,	1	65,000
6	Metal Cylinders for printing of pouches	20	1,00,000
7	Weighing Machine,		15,000
	Total		11,80,000
	GST IN @18%		2,12,400
	Total		**13,92,400**

6.3. Total plant & machineries Rs. ***13,92,400/-***

7. Recurring Expenditure per month:

7.1 Raw Material per month: Rs.

S.No	**Description**	**Qty.kg**	**Rate. per kg**	**Amount**
1	Sugar,, nuts, cashews, millet organic seeds, roots and food preservatives and food colours.	5,068 kgs	100/-	5,06,800
			Total	**5,06,800**

7.2. Salaries & Wages Per Month: Rs.

S.No	Designation	No	Salary	Amount
1	Production Manager –Food Technologist	1	20,000	20,000
2	Skilled workers	2	10,000	20,000
3	Un Skilled workers	2	7,500	15,000
4	Marketing assistant	1	10,000	10,000
	Total	6		**65,000**

7.3 Utilities Per Month: Rs.

S.N	Description	Amount
1	Electrical power 10 HP: 1300 units @ Rs.7.00 per unit	9,100
	Total	**9,100**

7.4. Other Expenses per Month: Rs.

S.N	Description	Amount
1	Rent	15,000
2	Marketing and advertisement	5,000
3	Transportation Charges	10,000
4	Telephone charges	1,500
5	Miscellaneous expenses	1,000
6	Repairs and maintenance	1,000
7	Insurance	1,000
	Total	**34,500**

7.5. Recurring Expenditure per Month

a + b + c + d = **Rs: 6,15,400/-**

7.6. Recurring expenditure per annum: Rs. 73,84,800/-

8. Working Capital

Recurring expenditure taken for 45 days Rs. 9,27,600

9.1. Total Project Cost

a. Rent for 12 months (Applicable under the PMEGP Schemes)	1,80,000
b. Plant & Machinery	13,92,400
c. Working capital	9,27,600
Total	**25,00,000**

9.2. Means of Finance

Total Project cost	25,00,000
Promoter contribution **5%** (-)	1,25,000
Total Finance required from the Bank :	**23,75,000**

9.3. Cost of Production per annum : Rs.

S.No	Description	Amount
1	Total recurring cost per annum	73,84,800
2	Interest on finance requiring from bank @12%	3,00,000
3	Total Depreciation on Machinery @10%	1,39,240
	Total	**78,24,040**

9.4 . Turnover per Annum:

By sale of pluses & cereals based snacks , cookies and other milled based processed food products : 62,000/kgs @ Rs. 145/per kg (Average price has been calculated) : **Rs.89,90,000/**

9.5. Profit Per Annum :

Turnover - Cost of Production

= 89,90,000 - 78,24,040

= 11,65,960/-

9.6. % of profit on sales = $\frac{\text{Profit per annum X 100}}{\text{Turnover}}$

= $\frac{11,65,960 \text{ X } 100}{89,90,000}$

= 12.96 %

9.7. Rate of Return = $\frac{\text{Profit Per annum X 100}}{\text{Total Capital investment}}$

= $\frac{11,65,960 \text{ X } 100}{25,00,000}$

= 46.63 %

9.8 . Break Even Analysis

(1)Fixed Expenditure per annum : Rs

a	Total Deprecation	1,39,240
b	Interest on Investment	3,00,000
c	Insurance & Rent	16,000
d	40%of Salary	3,12,000
e	40% of other Expenditure and Utilities excluding Insurance	1,32,480
	Total	**8,99,720**

2. Profit per annum = **11,65,960**

3.Break even Point:

$$\frac{\text{Fixed Exp /annum X 100}}{\text{Fixed Exp /annum + Profit /per annum}}$$

$$\frac{8,99,720X100}{20,65,680}$$

= **43.55.%**

10. Raw materials Suppliers

Millet suppliers: Locally available

11 . Plant and Machinery Suppliers

Sl No	Name and Address
1	M/s. AVM Engineering Industries No: 1/191, Vanniyar Nagar, Main Road, Opposite Sri Vidya Mandir School, Meyyanoor, Salem-636004, Tamil Nadu, India
2	M/s Upliftoo Green Caaar Products No: 212/3 ,Gerugambakkam, Chennai 600122
3	M/s. Perfura Technologies (India) Private Limited , Maruthamalai Gounder Layout Ramakrishnapuram, Ganapathy Pudur, Ganapathi, Coimbatore-641006, Tamil Nadu,
4	M/s. Fowler westrup (India) pvt. Ltd. Plot # 60 to 63, 4th Phase, KIADB Industrial Area, Malur, Karnataka, 563130, India
	M/s. Pilotsmith (India) Private Limited Near Irinjalakuda Railway Station Kallettumkara Post, Thrissur-680683, Kerala, India
	M/s. Sri Lakshmi Foods 192/B, Kamatchi Nagar, Rajiv Gandhi Salai Ganapathy, Singanoor, Ganapathy -641006