

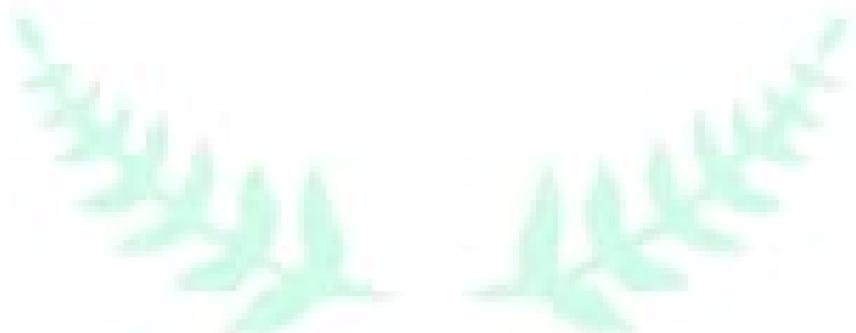


Detailed Project Report

on

Millet Processing (Millet Flour)

Under MKUY



Name of the Entrepreneur/Entity:

Address:



Contents

1. Project Summary.....	2
2. Project Profile.....	3
2.1 Entrepreneur/Entity Profile.....	3
2.2. Project Consultant Details	4
2.3. Concept and Scope of the Project	5
3. Techno-commercial Assumptions	7
1. Financial Details.....	7
4.1. Project Fixed Capital.....	7
4.2. Project Variable Expenses	8
4.3. Details of Sales.....	9
4.4. Project Balance Sheet	9
4.5. Calculation of Depreciation.....	10
4.6. Projected P&L.....	10
4.7. Projected Cash Flow	11
4.8. Projected Loan Repayment.....	11
4.9. Calculation of DSCR, IRR and BEP	12
4.10. Summary of Project Cost.....	13



1. Project Summary

1	Name of the Enterprise (as per the Illustrative List of Enterprises)	Ragi, Small Millets, Coarse Cereal Processing
2	Sector (as per the Illustrative List of Enterprises)	Agriculture
3	Project Capacity ¹	5 MT/day
4	Key components of the project	Sorting, grading, dehulling and Milling
5	Project Address (Village/Ward, Gram Pranchayat/Municipality, Block, District)	
6	Products/Output from the project	
7	Total Project Cost	Rs. 81,83,800
8	Fixed Capital Cost	Rs. 57,76,800
9	Working/Recurring capital	Rs. 24,07,000
10	Bank Finance/ Self Finance	Bank Loan
11	Bank Loan Amount	Rs. 54,39,820
12	Promoter Contribution (min 10% in case of bank loan)	Rs. 47,43,980
13	Assumed Rate of Interest	11%
14	Subsidy Eligibility (40%, 50%)	
15	Repayment Terms (Tenure, Moratorium, Frequency, Mode of Repayment: equal principal/equal instalment)	Equal Monthly Instalment
16	Key Financial Indicators: 1. Average Annual Net Profit 2. Debt Service Coverage Ratio (DSCR) 3. Internal Rate of Return 4. Break Even Point (BEP)/Year	
		Rs. 24,53,249
		2.57
		26.29%
17	Estimated employment to be generated (nos.)	15

Note: The price quoted in the DPR is indicative. Final CIS will be calculated as per the Rate in MKUY guideline.

¹ Capacity can be in terms of area or quantity



2. Project Profile

2.1 Entrepreneur/Entity Profile

1	Name of the Entrepreneur/Entity	
2	Legal status (Individual/ Group/ FPO/ FPC/ Proprietorship/ Partnership firm/ Company/ Cooperative/ Federation/ Society/ Trust)	
3	Name of Representative ² in Ease of entity	
4	Gender (Male/ Female/ Third Gender/ Not Applicable)	
5	Date of Birth of Individual/Representative of Entity	
6	Date of Incorporation/Registration of Entity	
7	Category opted for (Women/ ST/ SC/ Differently Abled/ Third gender/ Agri & Allied Graduate)	
8	Educational Qualification of Individual/Representative of Entity	
9	Passport size photograph of the Individual/ Representative of entity	
10	Local Address for Correspondence of the Individual/ Representative of entity	
11	Registered Address of Entity	
12	Main Office/Branch Address of Entity	
13	Phone no. of Individual/Representative of Entity	
14	Email Id of Individual/Representative of Entity	
15	AADHAR No. of Individual/Representative	
16	PAN of Individual/Representative of Entity, if available	
17	Farmer Id of Individual, if available	
18	Details of other Partner/Director/ President/Secretary	
19	Registration No./ CIN of the Entity ³	
20	PAN/TAN of Entity	
21	GSTIN of Entity, if available	
22	Details of experience and exposure relevant to the proposed enterprise/project (family business, work experience, e- learning/certificate courses, trainings undertaken etc.)	

² Representative should be authorized by the board/governing body of the entity.

³ Registration document:

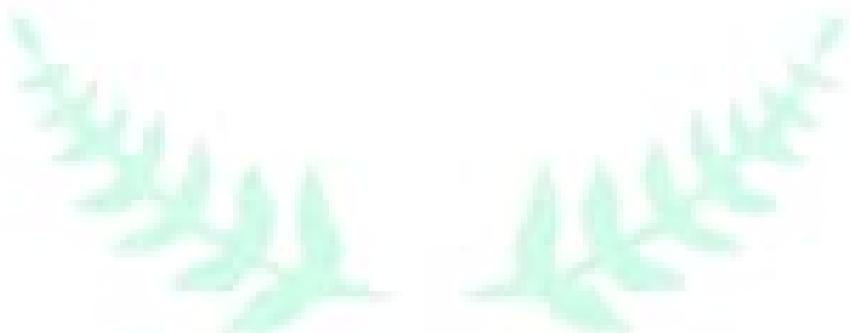
Groups (SHG/PG/): FPO: Proprietorship firm: Registration Certificate under Shops & Establishment Act, Partnership firm: Registration Certificate from IGR of state, Company (Pvt. Ltd., Public Ltd., LLP, OPC, FPC): Certification of Incorporation, Cooperative/ Federation: Certificate of Registration from Registrar of Cooperative Societies, Society/Trust: Darpan Unique Id



2.2. Project Consultant Details

DPR prepared by:

Please provide further details of the consultant:





2.3. Concept and Scope of the Project

Millets are known as 'Nutricereals' as they are bestowed with wealth of nutrients including proteins, vitamins, minerals, antioxidants, flavonoids etc. It gained international recognition as United Nations (UN) has declared 2023 as 'International Year of Millets'. Millets are adapted to a wide range of ecological conditions and are less input intensive. They are climate resilient and suitable for dryland farming.

English	Hindi	Odia
Pearl Millet	Bajra	Bajra
Foxtail Millet	Kangni, Kakum, Rala	Kanghu, Kangam, Kora
Kodo Millet	Koden, Kodra	Kodua
Little Millet	Kutki, Shavan	Suan
Barn Yard Millet	Jhangora, Sanwa	Khira
Sorghum	Jowar	Juara
Finger Millet	Nachani, Mundua, Mandika, Marwah	Mandia

Value added Products

Many value added products can be made from millet, some of the are -

 Millet RTE Snacks	 Millet Khichdi Mix
 Millet Muffins	 Millet Pasta
 Millet Murki	 Millet Mixture

 <p>Millet Laddu</p>	 <p>Millet Modak</p>
 <p>Millet Cookies</p>	 <p>Millet Flour</p>

Scope

The project is prepared for primary processing (destoning, grading, dehulling), Secondary processing (flour making) and packing different types of millet. The following process flow is followed in the typical millet processing unit.

Market Potential

The Global Millet Market size was worth US\$ 10.26 billion in 2022, and it is anticipated to reach US\$ 13.87 billion by 2028, progressing with an annual development rate (CAGR) of 4.66% between 2023 and 2028. Millet is usually a small seed crop and is known for its high nutritional value. All over the world, there are varieties of millet of various colors, such as white, gray, pale yellow and red. They outperform mainstream grains such as rice and wheat in terms of nutrition. The trend of interest in reactivating the consumption of millet in several countries favors the growth prospects of this market in recent years. There are several plans to improve the cultivation and consumption of millet to reduce the health risks from diabetes, obesity and cardiovascular disease. Millet plays an important role in many countries in Africa and Asia when it comes to food security and the economy. It is gaining popularity in Europe and North America due to its gluten-free and hypoglycemic properties. Millet is a small grain seed that retains its excellent nutritional properties. In terms of nutritional properties, it is superior to certain high-consumption grains such as rice and wheat.

By application, the millet market is segmented into bakery products, baby food, steamed products, porridge, bread, breakfast foods, beverages and animal feed. Porridge and steamed dishes have been some of the main products traditionally cooked in millet. They are mainly consumed in India and other parts of Africa. It is a food that is commonly prepared with oat millet. Sorghum and other sorghum-producing countries generally consume thick, tough porridge. Bakery products, including packaged cookies, are becoming increasingly important as they are easily accessible in supermarkets, hypermarkets, and ecommerce sites, especially in Asia Pacific countries.



3. Techno-commercial Assumptions

Sl. No.	Parameter	Value	Unit
1	Increase in Rate of Product	5	%
2	Increase in Electricity consumption	5	%
3	Collection from Debtors (First Year)	15	Days
4	Collection from Debtors	15	Days
5	Payable to Creditors	20	Days
6	Drawing By Promoter	25	%
7	Increase in Staff Salary	5	%
8	Rate of Interest on TL	11	%
9	Rate of Interest on WC	9	%
10	Loan Repayment (in year)	7	Years
11	Raw Material in Stock (on sales)	15	Days
12	Finished Goods in stock (on sales)	5	Days
13	Promoter's Contribution (Term Loan)	10	%
14	Promoter's Contribution (Working Capital)	90	%
15	Working Capital Requirement	15	Days
16	Working Capital Utilisation	100	%
17	No. of working days	290	Days
18	Yield of Flour	85	%
19	Millet Flour production (percentage of volume)	50	%
20	Yield of whole grain	90	%

1. Financial Details

4.1. Project Fixed Capital

Sl. No.	Particulars	Unit	Qty.	Cost per unit	Total (Rs.)
A Land					
1	Land Development	sq. ft	6000	0.70	4,200
2	Fencing (Barbed wire)	ft	335	60.00	20,100
Sub Total					24,300
B Civil Construction					
1	Processing area	sq. ft	2000	400.00	8,00,000
2	RM and FG store	sq. ft	2000	400.00	8,00,000
3	Office	sq. ft	200	850.00	1,70,000



Sl. No.	Particulars	Unit	Qty.	Cost per unit	Total (Rs.)
4	Labour Shed	sq. ft	250	350.00	87,500
	Sub Total				18,57,500
C	Water Supply				
1	Water Supply with overhead tank and pump				2,00,000
D	Electrification				
1	Electrical Installation with transformer and DG				5,00,000

E	Plant & Machinery	Specification	Qty	Unit Price	total
1	Destoner cum grader cum aspirator	500 kg/hr	1	11,00,000	11,00,000
2	Double stage centrifugal dehuller	300 kg/hr	1	2,00,000	2,00,000
3	Gravity Separator	250 kg/hr	1	3,50,000	3,50,000
4	Pulveriser	100 kg/hr	2	2,00,000	4,00,000
5	Polisher	100 kg/hr	2	1,50,000	3,00,000
6	Flour packing machine	5 to 10 kg bag	1	5,00,000	5,00,000
7	Millet packing machine	25 - 50 kg bag	1	3,00,000	3,00,000
8	Stitching machine		1	15,000	15,000
	Total				31,65,000
F	Miscellaneous Expenditure				
1	Insurance premium of assets				30000
2	DPR Cost				
3	Other Misc. Exp.				
	Total Misc. Exp				30000

4.2. Project Variable Expenses

Details of raw material						
Sl. No.	Items	Unit	Rate/Unit (Rs)	Qty/day (Kg)	Qty/annum (kg)	Total (Rs)
1	Pearl Millet	Kg	25	1,000	2,90,000	72,50,000
2	Sorghum	Kg	30	1,000	2,90,000	87,00,000
3	Finger Millet	Kg	30	1,000	2,90,000	87,00,000
4	Foxtail Millet	Kg	40	1,000	2,90,000	1,16,00,000
5	Little Millet	Kg	50	1,000	2,90,000	1,45,00,000
6	Packing Material	No	5	1,181	3,42,563	17,12,813
	Total				17,92,563	5,24,62,813

Details of Salary and Other Benefits

Sl. No.	Type of workers	No. of Worker	Salary Per Month/head (Rs)	Total Salary per annum (Rs)
1	Supervisor	1	15000	180000
2	Unskilled	10	8000	960000
3	Skilled	3	12,000	4,32,000
4	Purchase and Store	1	12,000	1,44,000
	Grand Total	15	47000	17,16,000



4.3. Details of Sales

G	Details of sales					
Sl. No.	Type of products	Unit	Rate per Unit (Rs)	Quantity per day	Quantity per annum	Total (Rs)
1	Pearl Millet flour	Kg	50	425	1,23,250	61,62,500
2	Sorghum Flour	Kg	50	425	1,23,250	61,62,500
3	Finger Millet Flour	Kg	50	425	1,23,250	61,62,500
4	Foxtail Millet Flour	Kg	60	425	1,23,250	73,95,000
5	Little Millet Flour	Kg	80	425	1,23,250	98,60,000
6	Whole Pearl Millet	Kg	35	450	1,30,500	45,67,500
7	Whole Sorghum	Kg	40	450	1,30,500	52,20,000
8	Whole Finger Millet	Kg	40	450	1,30,500	52,20,000
9	Whole Foxtail Millet	Kg	50	450	1,30,500	65,25,000
10	Whole Little Millet	Kg	60	450	1,30,500	78,30,000
Total					12,68,750	6,51,05,000



4.4. Project Balance Sheet

Liabilities	I	II	III	IV	V	VI	VII
Opening Capital	-	34,29,852	42,50,136	47,37,763	51,83,064	60,18,196	70,64,841
Add: Introduced	27,43,980						
Add: Profit	9,14,872	22,38,283	20,67,627	21,74,302	28,42,132	34,01,645	35,33,884
Less: Drawing	2,29,000	14,18,000	15,80,000	17,29,000	20,07,000	23,55,000	26,50,000
Closing Capital	34,29,852	42,50,136	47,37,763	51,83,064	60,18,196	70,64,841	79,48,725
Term Loan from Bank	46,76,959	40,94,374	34,44,372	27,19,154	19,10,014	10,07,241	-
Current Liabilities							
Cash Credit from Bank	2,40,700	2,40,700	2,40,700	2,40,700	2,40,700	2,40,700	2,40,700
Sundry Creditors	17,48,760	29,37,933	32,77,667	34,41,600	38,26,267	42,40,800	44,52,867
Expenses Payable	4,48,700	6,13,600	6,74,200	7,07,900	7,76,300	8,49,800	8,92,800
Current Provisions	5,52,802	11,19,979	10,46,840	10,92,558	13,78,771	16,18,562	16,75,236
Total Current Liabilities	29,90,963	49,12,212	52,39,407	54,82,758	62,22,037	69,49,862	72,61,603
Total Liabilities	1,10,97,774	1,32,56,721	1,34,21,542	1,33,84,976	1,41,50,247	1,50,21,944	1,52,10,328
Assets							
Fixed Assets	57,76,800	57,76,800	57,76,800	57,76,800	57,76,800	57,76,800	57,76,800
Less Depreciation	7,55,500	13,04,925	18,68,777	23,56,384	27,78,349	31,43,770	34,60,452
Net Fixed Assets	50,21,300	44,71,875	39,08,023	34,20,416	29,98,451	26,33,030	23,16,348
Current Assets							
Sundry Debtors	16,27,700	27,34,500	30,50,700	32,03,200	35,61,300	39,47,100	41,44,500
Inventories	18,54,142	27,46,042	33,69,783	35,98,083	39,37,433	43,67,683	46,55,400
Cash and Bank Balance	3,25,600	5,46,900	6,10,200	6,40,700	7,12,300	7,89,500	8,28,900
Other Current Assets	22,69,032	27,57,404	24,82,835	25,22,576	29,40,763	32,84,630	32,65,180
Total Current Assets	60,76,474	87,84,846	95,13,519	99,64,560	1,11,51,796	1,23,88,913	1,28,93,980
Total Assets	1,10,97,774	1,32,56,721	1,34,21,542	1,33,84,976	1,41,50,247	1,50,21,944	1,52,10,328



4.5. Calculation of Depreciation

Rates of Depreciation		10%	15%	Total depreciation for the year
Year	1	2,05,750.00	5,49,750	7,55,500
	2	1,85,175.00	4,67,288	6,52,463
	3	1,66,657.50	3,97,194	5,63,852
	4	1,49,991.75	3,37,615	4,87,607
	5	1,34,992.58	2,86,973	4,21,966
	6	1,21,493.32	2,43,927	3,65,420
	7	1,09,343.99	2,07,338	3,16,682

4.6. Projected P&L

Description	Year ending March 31st						
	I	II	III	IV	V	VI	VII
Capacity Utilisation	50	80	85	85	90	95	95
Revenue							
Sales	3,25,52,500	5,46,89,000	6,10,13,000	6,40,64,000	7,12,25,000	7,89,42,000	8,28,90,000
Opening Stock of Finished Goods	-	(5,42,542)	(9,11,483)	(10,16,883)	(10,67,733)	(11,87,083)	(13,15,700)
Closing Stock of Finished Goods	5,42,542	9,11,483	10,16,883	10,67,733	11,87,083	13,15,700	13,81,500
Total Income (A)	3,30,95,042	5,50,57,942	6,11,18,400	6,41,14,850	7,13,44,350	7,90,70,617	8,29,55,800
Expenditure							
Opening stock of Raw Material	-	13,11,600	22,03,500	24,58,300	25,81,200	28,69,700	31,80,600
Purchase (Net) of Material	2,62,31,406	4,40,69,000	4,91,65,000	5,16,24,000	5,73,94,000	6,36,12,000	6,67,93,000
Closing Stock of Raw material	13,11,600	22,03,500	24,58,300	25,81,200	28,69,700	31,80,600	33,39,700
Raw Material Consumption	2,49,19,806	4,31,77,100	4,89,10,200	5,15,01,100	5,71,05,500	6,33,01,100	6,66,33,900
Repair & Maintenance- Machinery (@1% of Cost)	57,525	60,500	63,600	66,800	70,200	73,800	77,500
Electricity expense	26,04,200	43,75,200	48,81,100	51,25,200	56,98,000	63,15,400	66,36,500
Insurance cost	30,000	31,500	33,100	34,800	36,600	38,500	40,500
Administrative salaries and wages	17,16,000	18,01,800	18,91,900	19,86,500	20,85,900	21,90,200	22,99,800
Other Misc Expenses [@3% of sales]	9,76,575	10,93,780	12,20,260	12,81,280	14,24,500	15,78,840	16,59,116
Total Cost	3,03,04,106	5,05,39,880	5,70,00,160	5,99,95,680	6,64,20,700	7,34,97,840	7,73,47,316



Description	Year ending March 31st						
	I	II	III	IV	V	VI	VII
Capacity Utilisation	50	80	85	85	90	95	95
Profit Before Depreciation, Interest and Tax	27,90,935	45,18,062	41,18,240	41,19,170	49,23,650	55,72,777	56,08,484
Depreciation	7,55,500	6,52,463	5,63,852	4,87,607	4,21,966	3,65,420	3,16,682
Profit Before Interest and Tax	20,35,435	38,65,599	35,54,388	36,31,563	45,01,684	52,07,356	52,91,802
Interest on Term Loan	5,46,098	4,85,674	4,18,258	3,43,041	2,59,119	1,65,486	61,019
Interest on Working Capital Loan	21,663	21,663	21,663	21,663	21,663	21,663	21,663
Total Interest Paid	5,67,761	5,07,337	4,39,921	3,64,704	2,80,782	1,87,149	82,682
Profit Before Tax	14,67,674	33,58,262	31,14,467	32,66,859	42,20,902	50,20,207	52,09,121
Income Tax	5,52,802	11,19,979	10,46,840	10,92,558	13,78,771	16,18,562	16,75,236
Profit after Tax	9,14,872	22,38,283	20,67,627	21,74,302	28,42,132	34,01,645	35,33,884

4.7. Projected Cash Flow

Period Ending:	I	II	III	IV	V	VI	VII
Cash & Bank Balance at Beginning	-	3,25,600	6,49,938	7,13,238	7,43,738	8,15,338	8,92,538
Cash Inflow during the Period	1,18,53,274	48,11,995	32,45,781	29,05,260	40,03,377	44,94,890	41,81,757
Cash Outflow during the Period	1,15,27,674	44,87,658	31,82,481	28,74,760	39,31,777	44,17,690	41,42,357
Closing Cash & Bank Balance	3,25,600	6,49,938	7,13,238	7,43,738	8,15,338	8,92,538	9,31,938

4.8. Projected Loan Repayment

Year	Interest	EMI	Principal
1	5,46,097.94	10,68,259.22	5,22,161.28
2	4,85,674.04	10,68,259.22	5,82,585.18
3	4,18,257.96	10,68,259.22	6,50,001.26
4	3,43,040.57	10,68,259.22	7,25,218.65
5	2,59,119.12	10,68,259.22	8,09,140.10
6	1,65,486.37	10,68,259.22	9,02,772.85
7	61,018.54	10,68,259.22	10,07,240.68
Total	22,78,694.54	74,77,814.54	51,99,120.00



4.9. Calculation of DSCR, IRR and BEP

Calculation of DSCR							
Year	I	II	III	IV	V	VI	VII
Net Sales	3,25,52,500	5,46,89,000	6,10,13,000	6,40,64,000	7,12,25,000	7,89,42,000	8,28,90,000
Net Profit	9,14,872	22,38,283	20,67,627	21,74,302	28,42,132	34,01,645	35,33,884
Interest Paid	5,67,761	5,07,337	4,39,921	3,64,704	2,80,782	1,87,149	82,682
Cash Accruals (a)	14,82,633	27,45,621	25,07,548	25,39,005	31,22,914	35,88,794	36,16,566
Interest Paid	8,78,044	7,83,879	6,77,772	5,58,208	4,23,480	2,71,665	1,00,597
Principal	5,22,161	5,82,585	6,50,001	7,25,219	8,09,140	9,02,773	10,07,241
Interest	5,67,761	5,07,337	4,39,921	3,64,704	2,80,782	1,87,149	82,682
Total (b)	10,89,922						
DSCR	1.36	2.52	2.30	2.33	2.87	3.29	3.32
Average DSCR				2.57			

Calculation of Internal Rate of Return (IRR)				
Sl. No.	Year	PAT	Depreciation	Cash Accrual
	Cash outflow at beginning			-81,83,800
1	31-03-2023	9,14,872	7,55,500	16,70,372
2	31-03-2024	22,38,283	6,52,463	28,90,746
3	31-03-2025	20,67,627	5,63,852	26,31,479
4	31-03-2026	21,74,302	4,87,607	26,61,909
5	31-03-2027	28,42,132	4,21,966	32,64,097
6	31-03-2028	34,01,645	3,65,420	37,67,065
7	31-03-2029	35,33,884	3,16,682	38,50,566
IRR			26.29%	
Payback Period			3 Years 4 Months	



Calculation of Break-Even Point (BEP)

Sales	3,30,95,042	5,50,57,942	6,11,18,400	6,41,14,850	7,13,44,350	7,90,70,617	8,29,55,800
Variable Cost	2,58,96,381	4,42,70,880	5,01,30,460	5,27,82,380	5,85,30,000	6,48,79,940	6,82,93,016
Contribution	71,98,660	1,07,87,062	1,09,87,940	1,13,32,470	1,28,14,350	1,41,90,677	1,46,62,784
Fixed Cost	57,30,986	74,28,800	78,73,473	80,65,611	85,93,448	91,70,470	94,53,663
BEP Sales	2,63,47,571	3,79,17,129	4,37,94,748	4,56,32,189	4,78,44,326	5,10,97,965	5,34,84,810
Average BEP sales	4,37,31,248						

4.10. Summary of Project Cost

Sl. No.	Name of Assets	Amount
1	Land Development	24,300
2	Civil Construction	18,57,500
3	Irrigation/Water Supply	2,00,000
4	Electrification	5,00,000
5	Plant & Machinery	31,65,000
6	Livestock	-
7	Insurance	30,000
8	DPR Cost	-
9	Other Misc. Exp	-
Total Fixed Cost		57,76,800
Recurring		24,07,000
Cost of Project		81,83,800