# **PROJECT REPORT**

Of

# DALIYA MANUFACTURING UNIT

# **PURPOSE OF THE DOCUMENT**

This particular pre-feasibility is regarding Daliya Manufacturing Unit.

The objective of the pre-feasibility report is primarily to facilitate potential entrepreneurs in project identification for investment and in order to serve his objective; the document covers various aspects of the project concept development, start-up, marketing, finance and management.

[We can modify the project capacity and project cost as per your requirement. We can also prepare project report on any subject as per your requirement.]



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# **Daliya Manufacturing Unit**



#### Introduction

Wheat being a cheapest source of calories, it contributes a significant part of protein and carbohydrates needed for the body. By and large there is increasing demand for nutritional and ready to eat breakfast food which is easily digestible and can consume less time.

Cracked wheat or daliya is used to make a nutritious dish at breakfast or whenever a light meal is required. It can be made sweet or salty according to taste. The wheat is boiled in a little water and cooked till it becomes soft and the water evaporates. Sugar and milk may be added to the cooked wheat or it can be seasoned with salt, pepper and butter before serving. These commercial daliya machines are popular for continuous crushing and suitable for making daliya. Offered in compact size commercial daliya machines do not require too much space.

#### **Technical Process**

#### Raw Material

Whole wheat grain is the main ingredient for daliya production. However, for value addition, daliya of mix grain, maize, malt Jowar green pea, groundnut etc may be undertaken in order to enhance the nutritional value of the food product. The product shall be marketed in suitable marketable packings.

#### Manufacturing process

Wheat is cleaned properly that is washed under running water and subsequently softened in water for 5 to 6 hrs. After germination, it is dried in sun light.

The flow of material from the feeding hopper is regulating by means of side handle easily to suit the load. Rotor runs in anti-clockwise direction. The beater pass just beneath the ratchet teeth liner fitted inside the top half of the crushing chamber, leaving a suitable gap between the liner teeth and the tips of the rotating beater. This cuts the material caught between the liner teeth like a sword with a scissors action at a 450/650 RPM. After the required size reduction, the material will pass through the screen fitted inside the lower discharge end of the grinding chamber. No sieving is required, as the appropriate size screen fitted will not allow coarser material to pass through. The air generated in the crushing chamber forces the powder to pass through the screen fitted at the bottom discharge end of the crushing chamber, into a filter attached to the delivery trough below. (When crushing wet-pulpy materials, the balloon should not be use)

In addition to wheat daliya production of daliya of mix grain, maize, malt Jowar green pea, groundnut etc may be undertaken in order to enhance the nutritional value of the food product. The product shall be marketed in suitable marketable packings.

### **Pollution control**

The process of manufacture does not involve any chemical treatment hence no pollution to environment is foreseen.

#### **Project particulars**

The unit propose to start Daliya Manufacturing unit plan to process 456 tons of wheat mix grain,maize,malt Jowar green pea, ground nut etc The Installed Capacity is 456 tons, .The total cost of the project is Rs18.10lacs.The proposed study is to meet the shortfall for Term Loan of Rs.3.80lacs on Plant & Machinery and Rs9.80 lacs on working capital requirements. The borrower's margin shall be 25% of the project cost. The plant and Machinery include Grinder, Dehuscer, Cleaner, Frying pan, Sieves and packing m/c etc.

#### **Basis and Presumption**

- The unit will operate for 300 days per annum on single shift basis
- The unit will achieve optimum capacity utilization of 60% with 10% increase in subsequent years
- The salary and wages have been taken at prevailing rates.
- The interest rate on term loan has been taken @11.50%
- The total demand for power is 20kw
- The unit will operate in its own buildings

#### Advantage of the Project

- 1. Easy availability of Raw Material ie wheat, maize, peanut, maly etc
- 2. Job opportunity to the local population

		PROJ	ECT AT A GLANCE		
1	Name of the Entreprenuer		XXXXXXX		
2	Constitution (legal Status)		XXXXXXX		
3	Father's/Spouce's Name		XXXXXXXX		
4	Unit Address :		XXXXXXXX		
			Taluk/Block: District : Pin: E-Mail : Mobile	XXXXX XXXXX XXXXX XXXXX	State:
5	Product and By Product	:	Dalia wheat and mix grain		
6	Name of the project / business activity	propose	Dalia wheat and mix grain		
7	Cost of Project	:	Rs17.05lac		
8	Means of Finance Term Loan KVIC Margin Money Own Capital Working Capital	-	Rs.7.52 Lacs As per Project Eligibility Rs.1.7 Lacs Rs.7.82 Lacs		
9	Debt Service Coverage Ratio	:	4.43		
10	Pay Back Period	:	5	Years	
11	Project Implementation Period	:	6	Months	
12	Break Even Point	:	28%		
13	Employment	:	6	Persons	
14	Power Requirement	:	20.00	HP	
15	Major Raw materials	:	Wheat		
16	Estimated Annual Sales Turnover	:	89.78	Lacs	
16	Detailed Cost of Project & Means of Fir	nance			
	COST OF PROJECT			(Rs. In Lacs)	
	correct of radjuct		Particulars	Amount	]
			Land Building & Civil Work (2000 Sq Ft)	Rented/Owned 3.00	
			Plant & Machinery Furniture & Fixtures	4.75	
			Pre-operative Expenses	0.61	
			Working Capital Requirement Total	8.69 17.05	-
				21100	1
	MEANS OF FINANCE		Particulars	Amount	]
			Own Contribution @10%	1.70	
			Term Loan Workign Capital Finance	7.52 7.82	
				7.02	1
			Total	17.05	]
			Beneficiary's Margin Money (% of Project Cost)	<b>General</b> 10%	<b>Special</b> 5%

#### PLANT & MACHINERY

PARTICULARS	QTY.	RATE	AMOUNT IN RS
Dalia making machinery-pulveriser crushing Chamber size 300 mm X 150	1.00	350000.00	350000.0
screens	1.00	20000.00	20000.0
Mid steel fabricated foundation plate with adjustable rail for motor.	LS	15000.00	15000.0
Packing M/c and other accessories	LS	20000.00	20000.0
MiscFrying pan Kadai/pulley/Vbelt/starter/Deisel Suitable miniature circuit breaker and	LS	50,000.00	50,000.00
other fittings		20,000.00	20,000.00
Total			475,000.00

PARTICULARS	IST YEAR	IIND YEAR	IIIRD YEAR	IVTH YEAR	VTH YEAR
SOURCES OF FUND					
Capital Account	1.70	1.70	1.70	1.70	1.70
Retained Profit	7.20	15.14	24.00	34.58	46.83
Term Loan	7.52	5.64	3.76	1.88	- 0.16
Cash Credit	7.82	7.82	7.82	7.82	7.82
Sundry Creditors	1.68	1.96	2.23	2.51	2.79
Provisions & Other Liab	0.36	0.40	0.44	0.48	0.53
TOTAL :	26.28	32.66	39.95	48.98	59.51
APPLICATION OF FUND					
	8 36	8 36	8 36	8 36	8 36
Fixed Assets (Gross)	8.36 1.04	8.36 1.98	8.36 2.79	8.36 3.49	
<u>APPLICATION OF FUND</u> Fixed Assets (Gross) Gross Dep. Net Fixed Assets	8.36 <u>1.04</u> 7.32	8.36 1.98 6.38	8.36 2.79 5.57	8.36 3.49 4.87	8.36 4.10 4.26
<b>Fixed Assets (Gross)</b> Gross Dep. Net Fixed Assets	1.04	1.98	2.79	3.49	4.10
Fixed Assets (Gross) Gross Dep. Net Fixed Assets Current Assets	1.04	1.98	2.79	3.49	4.10
Fixed Assets (Gross) Gross Dep. Net Fixed Assets Current Assets Sundry Debtors	<u>1.04</u> 7.32	<u>1.98</u> 6.38	2.79 5.57	3.49 4.87	4.10 4.26 5.22
Fixed Assets (Gross) Gross Dep. Net Fixed Assets Current Assets Sundry Debtors Stock in Hand	1.04 7.32 2.99	1.98 6.38 3.65	2.79 5.57 4.17	3.49 4.87 4.70	4.10
Fixed Assets (Gross) Gross Dep.	1.04 7.32 2.99 7.37	1.98 6.38 3.65 8.60	2.79 5.57 4.17 9.83	3.49 4.87 4.70 11.06	4.10 4.26 5.22 12.29

PARTICULARS	IST YEAR	IIND YEAR	IIIRD YEAR	IVTH YEAR	VTH YEAR
A) SALES					
Gross Sale	89.78	109.46	125.21	140.96	156.71
Total (A)	89.78	109.46	125.21	140.96	156.71
B) COST OF SALES					
Raw Mateiral Consumed	71.82	83.79	95.76	107.73	119.70
Elecricity Expenses	2.80	3.26	3.73	4.19	4.66
Repair & Maintenance	-	1.09	1.25	1.41	1.57
Labour & Wages	3.04	3.34	3.67	4.04	4.45
Depriciation	1.04	0.93	0.81	0.70	0.61
Consumables and Other Expense	1.80	2.19	2.50	2.82	3.13
Cost of Production	80.49	94.61	107.73	120.90	134.12
Add: Opening Stock /WIP	-	3.78	4.41	5.04	5.67
Less: Closing Stock /WIP	3.78	4.41	5.04	5.67	6.30
Cost of Sales (B)	76.71	93.98	107.10	120.27	133.49
C) GROSS PROFIT (A-B)	13.07	15.48	18.12	20.70	23.23
	15%		14%	15%	15%
D) Bank Interest (Term Loan )	0.65	0.78	0.57	0.35	0.13
Bank Interest ( C.C. Limit )	0.78	0.78	0.78	0.78	0.78
E) Salary to Staff	2.64	2.90	3.19	3.51	3.87
F) Selling & Adm Expenses Exp.	1.80	2.19	2.50	2.82	3.13
TOTAL (D+E)	5.87	6.66	7.05	7.47	7.91
H) NET PROFIT	7.20	8.83	11.07	13.23	15.31
I) Taxation	-	0.88	2.21	2.65	3.00
J) PROFIT (After Tax)	7.20	7.94	8.85	10.58	12.2

	EMENIT				
PROJECTED CASH FLOW STAT	<u>EIMEIN I</u>				
PARTICULARS	IST YEAR	IIND YEAR	IIIRD YEARI	VTH YEAR	VTH YEAR
SOURCES OF FUND					
Share Capital	1.70	_			
Reserve & Surplus	7.20	8.83	11.07	13.23	15.31
Depriciation & Exp. W/off	1.04	0.93	0.81	0.70	0.61
Increase in Cash Credit	7.82	-	-	-	-
Increase In Term Loan	7.52	-	-	-	-
Increase in Creditors	1.68	0.28	0.28	0.28	0.28
Increase in Provisions	0.36	0.04	0.04	0.04	0.05
TOTAL :	27.33	10.07	12.20	14.26	16.25
APPLICATION OF FUND					
Increase in Fixed Assets	8.36	-	-	-	-
Increase in Stock	7.37	1.23	1.23	1.23	1.23
Increase in Debtors	2.99	0.66	0.53	0.53	0.53
Increase in Deposits & Adv	2.50	0.25	0.28	0.30	0.33
Repayment of Term Loan	-	1.88	1.88	1.88	2.04
Taxation	-	0.88	2.21	2.65	3.06
TOTAL :	21.22	4.90	6.12	6.58	7.19
Opening Cash & Bank Balance	-	6.10	11.28	17.35	25.02
Add : Surplus	6.10	5.18	6.07	7.67	9.06
Closing Cash & Bank Balance	6.10	11.28	17.35	25.02	34.09

#### COMPUTATION OF MANUFACTURING OF Dalia Making

Items to be Manufactured

Dalia

Manufacturing Capacity per day	-	1.50	MT	
	-			
No. of Working Hour		8		
No of Working Days per month		25		
No. of Working Day per annum		300		
Total Production per Annum		450.00	MT	
Year		Capacity	MT	
		Utilisation		
IST YEAR		60%		270
IIND YEAR		70%		315
IIIRD YEAR		80%		360
IVTH YEAR		90%		405
VTH YEAR		100%		450

#### **COMPUTATION OF RAW MATERIAL**

Item Name		Quantity of	Recovery	Unit Rate of	Total Cost
		Raw Material		/MT	Per Annum (100%
		MT			
Mix grain, maize, malt Jowar green					
pea,ground nut	100%	450.00	95%	28,000.00	119.70
			Total (Rounded	off in lacs)	119.70
Annual Consumption cost	( In Lacs)				119.70
Raw Material Consumed	Capacity		Amount (Rs.)	-	
	Utilisation			=	
IST YEAR	60%	)	71.82		
IIND YEAR	70%	)	83.79		
IIIRD YEAR	80%	)	95.76		
IVTH YEAR	90%	)	107.73		
VTH YEAR	100%	)	119.70		
				_	

# COMPUTATION OF CLOSING STOCK & WORKING CAPITAL

PARTICULARS	IST YEAR	IIND YEAR	IIIRD YEAR	IVTH YEAR	VTH YEAR
Finished Goods					
(15 Days requirement)	3.78	4.41	5.04	5.67	6.30
<u>Raw Material</u>					
(15 Days requirement)	3.59	4.19	4.79	5.39	5.99
Closing Stock	7.37	8.60	9.83	11.06	12.29

### COMPUTATION OF WORKING CAPITAL REQUIREMENT

Particulars		Total
		Amount
Stock in Hand		7.37
Sundry Debtors		2.99
	Total	10.36
Sundry Creditors		1.68
Working Capital Requirement		8.69
Margin		0.87
Working Capital Finance		7.82

Particulars	Wages	No of	Total
	Per Month	Employees	Salary
Skilled Worker	8,000.00	1	8,000.00
Unskilled Worker	5,000.00	3	15,000.00
			23,000.00
Add: 10% Fringe Benefit			2,300.00
Total Labour Cost Per Month			25,300.00
Total Labour Cost for the year (In Rs. Lakhs)		4	3.04
Total Labour Cost for the year ( In Rs. Lakhs)		4	3.04
BREAK UP OF SALARY			
	Salary	No of	Total
BREAK UP OF SALARY Particulars	Per Month	No of Employees	Total Salary
BREAK UP OF SALARY Particulars Manager	Per Month 12,000.00	No of Employees 1	Total Salary 12,000.00
BREAK UP OF SALARY Particulars	Per Month	No of Employees	Total Salary
BREAK UP OF SALARY Particulars Manager	Per Month 12,000.00	No of Employees 1	Total Salary 12,000.00
BREAK UP OF SALARY Particulars Manager Accountant Total Salary Per Month	Per Month 12,000.00	No of Employees 1	Total Salary 12,000.00 8,000.00
BREAK UP OF SALARY Particulars Manager Accountant	Per Month 12,000.00	No of Employees 1	Total Salary 12,000.00 8,000.00 20,000.00

Description	Land	Building/shed	Plant &	Furniture	TOTAL
			Machinery		
P. G (Decremination		10.00%	15.00%	10.00%	
Rate of Depreciation	Leased	10.00%	15.00%	10.00%	
Opening Balance			-	-	-
Addition	-	3.00	4.75	0.61	8.36
	-	3.00	4.75	0.61	8.36
Less : Depreciation	-	0.30	0.71	0.03	1.04
WDV at end of Ist year	-	2.70	4.04	0.58	7.32
Additions During The Year	-	-			
	-	2.70	4.04	0.58	7.32
Less : Depreciation	-	0.27	0.61	0.06	0.93
WDV at end of IInd Year	-	2.43	3.43	0.52	6.38
Additions During The Year	-	-	-	-	-
	-	2.43	3.43	0.52	6.38
Less : Depreciation	-	0.24	0.51	0.05	0.81
WDV at end of IIIrd year	-	2.19	2.92	0.47	5.57
Additions During The Year	-	-	-	-	-
	-	2.19	2.92	0.47	5.57
Less : Depreciation	-	0.22	0.44	0.05	0.70
WDV at end of IV year	-	1.97	2.48	0.42	4.87
Additions During The Year	-	-	-	-	-
	-	1.97	2.48	0.42	4.87
Less : Depreciation	-	0.20	0.37	0.04	0.61
WDV at end of Vth year	-	1.77	2.11	0.38	4.26

Year	Particulars	Amount	Addition	Total	Interest	Repayment	Cl Balance
ST YEAR	Opening Balance						
	Ist Quarter	-	7.52	7.52	-	-	7.52
	Iind Quarter	7.52	-	7.52	0.22	-	7.52
	IIIrd Quarter	7.52	-	7.52	0.22	-	7.52
	Ivth Quarter	7.52	-	7.52	0.22	-	7.52
					0.65	-	
IND YEAR	Opening Balance						
	Ist Quarter	7.52	-	7.52	0.22	0.47	7.05
	Iind Quarter	7.05	-	7.05	0.20	0.47	6.58
	IIIrd Quarter	6.58	-	6.58	0.19	0.47	6.11
	Ivth Quarter	6.11		6.11	0.18	0.47	5.64
					0.78	1.88	
IIRD YEAR	Opening Balance						
	Ist Quarter	5.64	-	5.64	0.16	0.47	5.12
	Iind Quarter	5.17	-	5.17	0.15	0.47	4.70
	IIIrd Quarter	4.70	-	4.70	0.14	0.47	4.23
	Ivth Quarter	4.23		4.23	0.12	0.47	3.76
					0.57	1.88	
VTH YEAR	Opening Balance						
	Ist Quarter	3.76	-	3.76	0.11	0.47	3.29
	Iind Quarter	3.29	-	3.29	0.09	0.47	2.82
	IIIrd Quarter	2.82	-	2.82	0.08	0.47	2.35
	Ivth Quarter	2.35		2.35	0.07	0.47	1.88
					0.35	1.88	
VTH YEAR	Opening Balance						
	Ist Quarter	1.88	-	1.88	0.05	0.47	1.4
	Iind Quarter	1.41	-	1.41	0.04	0.47	0.94
	IIIrd Quarter	0.94	-	0.94	0.03	0.55	0.39
	Ivth Quarter	0.39		0.39	0.01	0.55	- 0.10
					0.13	2.04	

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### CALCULATION OF D.S.C.R

PARTICULARS	IST YEAR	IIND YEAR	IIIRD YEAR	IVTH YEAR	VTH YEAR	
CASH ACCRUALS	8.24	8.88	9.66	11.29	12.86	
ensimeencomes	0.24	0.00	9.00	11.27	12.00	
Interest on Term Loan	0.65	0.78	0.57	0.35	0.13	
Total	8.89	9.66	10.23	11.64	12.99	
REPAYMENT						
Instalment of Term Loan	1.88	1.88	1.88	2.04	2.04	
Interest on Term Loan	0.65	0.78	0.57	0.35	0.13	
Total	2.53	2.67	2.45	2.39	2.17	
DEBT SERVICE COVERAGE R	3.51	3.62	4.18	4.87	5.98	
AVERAGE D.S.C.R.			4.43			

Particulars Op Stock Production	IST YEAR	IIND YEAR 14	IIIRD YEAR	IVTH YEAR	VTH YEAR
Production		14			
Production		14			
	270		16	18	20
		315	360	405	450
	270	329	376	423	470
Less : Closing Stock	14	16	18	20	23
Net Sale	257	313	358	403	448
Sale Price per MT	35,000.00	35,000.00	35,000.00	35,000.00	35,000.00
Sale (in Lacs)	89.78	109.46	125.21	140.96	156.71

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A) POWER CONNECTION			
Total Working Hour per day	Hours	8	
Electric Load Required	HP	20	
Load Factor		0.7460	
Electricity Charges	per unit	8.00	
Total Working Days		300	
Electricity Charges ( 8 Hrs Per day )			286,464.00
Add : Minimim Charges (@ 10%)			
(B) D.G. SET			
No. of Working Days		300	days
No of Working Hours		1	Hour per day
Total no of Hour		300	
Diesel Consumption per Hour		8	
Total Consumption of Diesel		2,400	
Cost of Diesel			Rs. / Ltr
Total cost of Diesel		1.56	
Add : Lube Cost @15%		0.23	
Total		1.79	
Total cost of Power & Fuel at 100%			4.66
Year	Capacity		Amount
			(in Lacs)
IST YEAR	60%		2.8
IIND YEAR	70%		3.2
IIIRD YEAR	80%		3.7
IVTH YEAR	90%		4.1
VTH YEAR	100%		4.6

## **BREAK EVEN POINT ANALYSIS**

Year	I	II		IV	V
Net Sales & Other Income	89.78	109.46	125.21	140.96	156.71
Less : Op. WIP Goods	-	3.78	4.41	5.04	5.67
Add : Cl. WIP Goods	3.78	4.41	5.04	5.67	6.30
Total Sales	93.56	110.09	125.84	141.59	157.34
Variable & Semi Variable Exp.					
Raw Material & Tax	71.82	83.79	95.76	107.73	119.70
Electricity Exp/Coal Consumption at 85%	2.38	2.77	3.17	3.56	3.96
Manufacturing Expenses 80%	1.44	2.63	3.01	3.38	3.76
Wages & Salary at 60%	3.41	3.75	4.12	4.53	4.99
Selling & adminstrative Expenses 80%	1.44	1.75	2.00	2.26	2.51
Intt. On Working Capital Loan	0.78	0.78	0.78	0.78	0.78
Total Variable & Semi Variable Exp	81.26	95.47	108.84	122.25	135.70
Contribution	12.30	14.62	17.00	19.35	21.65
Fixed & Semi Fixed Expenses					
Manufacturing Expenses 20%	0.36	0.66	0.75	0.85	0.94
Electricity Exp/Coal Consumption at 15%	0.42	0.49	0.56	0.63	0.70
Wages & Salary at 40%	2.27	2.50	2.75	3.02	3.32
Interest on Term Loan	0.65	0.78	0.57	0.35	0.13
Depreciation	1.04	0.93	0.81	0.70	0.61
Selling & adminstrative Expenses 20%	0.36	0.44	0.50	0.56	0.63
Total Fixed Expenses	5.10	5.80	5.94	6.12	6.33
Capacity Utilization	60%	70%	80%	90%	100%
OPERATING PROFIT	7.20	8.83	11.07	13.23	15.31
BREAK EVEN POINT	25%	28%	28%	28%	29%
BREAK EVEN SALES	38.79	43.66	43.93	44.76	46.04



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