



MODEL PROJECT REPORT



PROJECT REPORT ON DALIYA

SWAVALAMBI BHARAT ABHIYAN

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

PROJECT AT A GLANCE

- 1 Name of the Entrepreneurer XXXXXXXX
- 2 Constitution (legal Status) XXXXXXXX
- 3 Father's/Spouce's Name XXXXXXXX
- 4 Unit Address : XXXXXXXX
- Taluk/Block: XXXXX
District : XXXXX
Pin: XXXXX
E-Mail : XXXXX
Mobile 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 Rs.7.52 Lacs
KVIC Margin Money - As per Project Eligibility
Own Capital Rs.1.7 Lacs
Working Capital 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 Finance

COST OF PROJECT

(Rs. In Lacs)

Particulars	Amount
Land	Rented/Owned
Building & Civil Work (2000 Sq Ft)	3.00
Plant & Machinery	4.75
Furniture & Fixtures	0.61
Pre-operative Expenses	-
Working Capital Requirement	8.69
Total	17.05

MEANS OF FINANCE

Particulars	Amount
Own Contribution @10%	1.70
Term Loan	7.52
Workign Capital Finance	7.82
Total	17.05

	General	Special
Beneficiary's Margin Money (% of Project Cost)	10%	5%

PLANT & MACHINERY

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

PROJECTED BALANCE SHEET

PARTICULARS	IST YEAR	IIND YEAR	IIIRD YEAR	IVTH YEAR	VTH YEAR
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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

Fixed Assets (Gross)	8.36	8.36	8.36	8.36	8.36
Gross Dep.	1.04	1.98	2.79	3.49	4.10
Net Fixed Assets	7.32	6.38	5.57	4.87	4.26
Current Assets					
Sundry Debtors	2.99	3.65	4.17	4.70	5.22
Stock in Hand	7.37	8.60	9.83	11.06	12.29
Cash and Bank	6.10	11.28	17.35	25.02	34.09
Deposits & Advances	2.50	2.75	3.03	3.33	3.66
TOTAL :	26.28	32.66	39.95	48.98	59.51

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PROJECTED PROFITABILITY STATEMENT

PARTICULARS	IST YEAR	IIND YEAR	IIIRD YEAR	IVTH YEAR	VTH YEAR
<u>A) SALES</u>					
Gross Sale	89.78	109.46	125.21	140.96	156.71
Total (A)	89.78	109.46	125.21	140.96	156.71
<u>B) COST OF SALES</u>					
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%	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	3.06
J) PROFIT (After Tax)	7.20	7.94	8.85	10.58	12.25

PROJECTED CASH FLOW STATEMENT

PARTICULARS	IST YEAR	IIND YEAR	IIIRD YEAR	IVTH YEAR	VTH YEAR
<u>SOURCES OF FUND</u>					
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
<u>APPLICATION OF FUND</u>					
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 Raw Material MT	Recovery	Unit Rate of /MT	Total Cost Per Annum (100%)
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 Utilisation	Amount (Rs.)
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
<u>Finished Goods</u>					
(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

BREAK UP OF LABOUR

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

BREAK UP OF SALARY

Particulars		Salary	No of	Total
		Per Month	Employees	Salary
Manager		12,000.00	1	12,000.00
Accountant		8,000.00	1	8,000.00
Total Salary Per Month				20,000.00
Add: 10% Fringe Benefit				2,000.00
Total Salary for the month				22,000.00
Total Salary for the year (In Rs. Lakhs)			2	2.64

COMPUTATION OF DEPRECIATION

Description	Land	Building/shed	Plant & Machinery	Furniture	TOTAL
Rate of Depreciation		10.00%	15.00%	10.00%	
Opening Balance	Leased	-	-	-	-
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

REPAYMENT SCHEDULE OF TERM LOAN

11.5%

Year	Particulars	Amount	Addition	Total	Interest	Repayment	CI Balance
IST 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	-	
IIND 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	
IIIRD YEAR	Opening Balance						
	Ist Quarter	5.64	-	5.64	0.16	0.47	5.17
	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	
IVTH 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	1.41
	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	- 0.16
					0.13	2.04	

CALCULATION OF D.S.C.R

PARTICULARS	IST YEAR	IIND YEAR	IIIRD YEAR	IVTH YEAR	VTH YEAR
<u>CASH ACCRUALS</u>	8.24	8.88	9.66	11.29	12.86
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
<u>REPAYMENT</u>					
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		

COMPUTATION OF SALE

Particulars	IST YEAR	IIND YEAR	IIIRD YEAR	IVTH YEAR	VTH YEAR
Op Stock	-	14	16	18	20
Production	270	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

COMPUTATION OF ELECTRICITY**(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		65.00	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%	2.80
IIND YEAR	70%	3.26
IIIRD YEAR	80%	3.73
IVTH YEAR	90%	4.19
VTH YEAR	100%	4.66

BREAK EVEN POINT ANALYSIS

Year	I	II	III	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 & administrative 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 & administrative 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