

### **Model Detailed Project Report**

#### PEDA MAKING UNIT

### Prepared by

### National Institute of Food Technology Entrepreneurship and Management(NIFTEM)

Plot No. 97, Sector 56, HSIIDC, Industrial Estate, Kundli, Sonipat, Haryana 131028 Ministry of Food Processing Industries, Government of India

#### 1. INTRODUCTION

#### **PEDA**



**Peda** or **Pera** is a sweet dish hailing from the Indian subcontinent. It originated from Mathura, Uttar Pradesh, India. Usually prepared in thick, semi-soft pieces, its main ingredients are Khoa, sugar and traditional flavorings including cardamom seeds, pistachio nuts and saffron. Its colour varies from a creamy white to a caramel colour. The word peda is also generically used to mean a sphere of any doughy substance such as flour or khoa. Variant spellings and names for the dessert include pedha, penda (in Gujarati) and pera.

### 2. MARKET POTENTIAL

Peda and other sweet products made of milk are consumed everywhere in India. The demand of this product is in rural as well as in urban areas. India is known for its festive and religious occasions throughout the year and the demand of milk products is never ending in India's market. The Indian sweet and candy market is currently valued at around \$664 million, with sugar confectionery holding a 70 percent share (\$461 million), and chocolate confectionery accounting for the remainder (\$203 million). The consumption of sweets made up of milk is highest in Uttar Pradesh and Bihar in India & peda is one of those products.

### 3. PRODUCT DESCRIPTION

#### 3.1 Raw Material sources

Major raw materials that are mentioned below:

- Milk
- Sugar
- Dry Fruits
- Ghee
- Packing material

Average raw material (cost per Kg): Rs. 140-170

#### 3.2 **Manufacturing process**

The process is explained below:

- Raw materials are procured from vendors & are stored in the manufacturing unit.
- Milk is procured and is collected in Milk Collection Tank.
- After this the collected milk is sent for pasteurizing in milk pasteurizer where microorganisms like bacteria are eliminated.
- After this the Pasteurized milk is sent to milk chiller and stored in storage vessel at low temperature.
- The stored milk is then taken out for further process of Peda and is transferred to Cooking kettle where other materials like sugar, ghee, dry fruits are added and stirred till the final output is achieved.
- Mixture is cooked until it acquires proper colour.
- The Ribbon blender is then used to mix powdered sugar & to properly granulize the content while cooling the cooked mixture.
- Finally the product is ready and the peda is manually made.
- The final product is packed, weighed and sent for sale in the market.

## 4. PROJECT COMPONENTS

### 4.1 <u>Land</u>

Land required 1200-1500square feet approx.

Approximate rent for the same is Rs.20000-25000 per month.

### 4.2 Plant & Machinery

Name	Item Description	Image
Boiler	A boiler is a steam generating device which is used to power various heating equipments and machine within the given plant.	
Milk Storage Tank	Milk storage tank is used to store milk in it and to protect it from dirt and other foreign particles.	Λ <u>•</u> Λ
Dairy Freezer	Dairy Freezer is used to maintain the given product at required temperature.	

Milk Reception System	It is a system composed of suction pump, storage tanks, cooling system and vessels to receive milk quickly & efficiently.	
Milk Pasteurizer	To pasteurize milk and eliminates microbes.	
Milk Chiller	It's a device which is used to cool milk to the required temperature by either generating appropriate refrigeration effect or utilizes externally generated refrigeration effect in case of large systems.	
Cooking Kettle with Stirrer	It's a machine which is composed of a simple kettle in which given product is heated either by electrical heaters or heating medium from external source, while the stirrer is provided to ensure uniform heating without burning the product.	

Note: Cost of the machinery is approx. Rs. 14,00,000 excluding GST and other transportation cost.

#### 4.3 Misc. Assets

S.N.	Item Description	Rate	
1	Electricity connection	60,000	
2	Furniture & Fixtures	60,000	
3	Material handling equipments	80,000	

### 4.4 **Power Requirement**

The borrower shall require power load of 12 KW which shall be applied with Power Corporation. However, for standby power arrangement the borrower shall also purchase DG Set.

### 4.5 Manpower Requirement

9-10 Manpower are required for the Cumin Biscuits manufacturing unit.

Includes:

- 2 Skilled Labour
- 4 Unskilled Labour
- 2 Sales Personal
- 1 Accountant

# 5. <u>FINANCIALS</u>

# 5.1 <u>Cost of Project</u>

	COST OF PROJECT
	(in Lacs)
PARTICULARS	Amount
Land & Building	Owned/rented
Plant & Machinery	14.00
Miscellaneous Assets	2.00
Working capital	3.89
Total	19.89

## **Means of Finance**

MEANS OF FINANCE					
PARTICULARS	AMOUNT				
Own Contribution (min 10%)	1.99				
Subsidy @35%(Max. Rs 10 Lac)	5.60				
Term Loan @ 55%	8.80				
Working Capital (bank Finance)	3.50				
Total	19.89				

# 5.3 **Projected Balance Sheet**

PROJECTED BALANCE SHI	<u>ET</u>				(in Lacs)
PARTICULARS	1st year	2nd year	3rd year	4th year	5th year
<u>Liabilities</u>					
Capital					
opening balance		7.24	7.86	9.05	10.14
Add:- Own Capital	1.99				
Add:- Retained Profit	1.45	2.82	4.69	6.08	7.83
Less:- Drawings	1.80	2.20	3.50	5.00	6.50
Subsidy/grant	5.60				
Closing Balance	7.24	7.86	9.05	10.14	11.47
Term Loan	7.82	5.87	3.91	1.96	-
Working Capital Limit	3.50	3.50	3.50	3.50	3.50
Sundry Creditors	1.72	1.93	2.16	2.41	2.68
Provisions & Other Liab	0.40	0.50	0.60	0.72	0.86
TOTAL:	20.68	19.66	19.22	18.72	18.51
<u>Assets</u>					
Fixed Assets ( Gross)	16.00	16.00	16.00	16.00	16.00
Gross Dep.	2.30	4.27	5.94	7.38	8.61
Net Fixed Assets	13.70	11.74	10.06	8.62	7.39
Current Assets					
Sundry Debtors	3.61	4.14	4.64	5.18	5.75
Stock in Hand	2.08	2.33	2.58	2.87	3.17
Cash and Bank	1.29	1.45	1.94	2.06	2.20
TOTAL:	20.68	19.66	19.22	18.72	18.51

# 5.4 **Projected Cash Flow**

PROJECTED CASH FLOW STAT	<u>TEMENT</u>				(in Lacs)
PARTICULARS	1st year	2nd year	3rd year	4th year	5th year
SOURCES OF FUND					
Own Margin	1.99				
Net Profit	1.45	2.82	4.69	6.76	9.22
Depriciation & Exp. W/off	2.30	1.97	1.68	1.44	1.23
Increase in Cash Credit	3.50	-	-	-	-
Increase In Term Loan	8.80	-	-	-	-
Increase in Creditors	1.72	0.21	0.23	0.25	0.27
Increase in Provisions & Oth lib	0.40	0.10	0.10	0.12	0.14
Sunsidy/grant	5.60				
TOTAL:	25.76	5.10	6.70	8.57	10.86
APPLICATION OF FUND					
Increase in Fixed Assets	16.00				
Increase in Stock	2.08	0.25	0.25	0.28	0.30
Increase in Debtors	3.61	0.53	0.50	0.54	0.57
Repayment of Term Loan	0.98	1.96	1.96	1.96	1.96
Drawings	1.80	2.20	3.50	5.00	6.50
Taxation	-	-	_	0.68	1.38
TOTAL:	24.47	4.93	6.21	8.46	10.71

Opening Cash & Bank Balance	-	1.29	1.45	1.94	2.06
Add : Surplus Closing Cash & Bank	1.29	0.17	0.49	0.11	0.14
Balance	1.29	1.45	1.94	2.06	2.20

# 5.5 **Projected Profitability**

PROJECTED PROFITABILITY STATEMENT					(in Lacs)
PARTICULARS	1st year	2nd year	3rd year	4th year	5th year
Capacity Utilisation %	70%	75%	80%	85%	90%
SALES Gross Sale					
PEDA	108.41	124.17	139.06	155.40	172.64
Total	108.41	124.17	139.06	155.40	172.64
COST OF SALES					
Raw Material Consumed	73.50	82.69	92.40	103.28	114.75
Electricity Expenses	3.60	4.14	4.76	5.48	6.02
Depreciation	2.30	1.97	1.68	1.44	1.23
Wages & labour	9.36	9.83	10.32	10.84	11.70
Repair & maintenance	4.34	4.97	5.56	5.75	6.04
Packaging	2.17	3.10	3.34	3.88	4.32
Cost of Production	95.26	106.69	118.06	130.66	144.06
Add: Opening Stock /WIP	-	1.59	1.78	1.97	2.18
Less: Closing Stock /WIP	1.59	1.78	1.97	2.18	2.40

Cost of Sales	93.68	106.50	117.87	130.45	143.84
GROSS PROFIT GROSS PROFIT (%)	14.74 13.59%	17.67 14.23%	21.19 15.24%	24.95 16.06%	28.80 16.68%
Salary to Staff	7.68	8.83	10.16	11.17	12.29
Interest on Term Loan	0.86	0.76	0.55	0.33	0.12
Interest on working Capital	0.39	0.39	0.39	0.39	0.39
Rent	2.40	2.64	2.90	3.19	3.51
selling & adm exp	1.95	2.24	2.50	3.11	3.28
TOTAL	13.28	14.85	16.50	18.19	19.59
NET PROFIT	1.45	2.82	4.69	6.76	9.22
NET PROFIT(%)	1.34%	2.27%	3.37%	4.35%	5.34%
Taxation		-	-	0.68	1.38
PROFIT (After Tax)	1.45	2.82	4.69	6.08	7.83

# 5.6 **Production and Yield**

Production of PEDA		
Production	Capacity	KG
1st year	70%	52,500
2nd year	75%	56,250
3rd year	80%	60,000
4th year	85%	63,750
5th year	90%	67,500

Raw Material Cost			
Year	Capacity Rate		Amount
	Utilisation	(per KG)	(Rs. in lacs)
1st year	70%	140.00	73.50
2nd year	75%	147.00	82.69
3rd year	80%	154.00	92.40
4th year	85%	162.00	103.28
5th year	90%	170.00	114.75

## 5.7 <u>Sales Revenue</u>

COMPUTATION OF SALE							
Particulars	1st year	2nd year	3rd year	4th year	5th year		
Op Stock	-	875	938	1,000	1,063		
Production Less : Closing	52,500	56,250	60,000	63,750	67,500		
Stock	875	938	1,000	1,063	1,125		
Net Sale sale price per	51,625	56,188	59,938	63,688	67,438		
KG	210.00	221.00	232.00	244.00	256.00		
Sales (in Lacs)	108.41	124.17	139.06	155.40	172.64		

## 5.8 Working Capital Assessment

COMPUTATION	(in Lacs)				
				_	_
PARTICULARS	1st year	2nd year	3rd year	4th year	5th year
<u>Finished</u>					
<u>Goods</u>					
	1.59	1.78	1.97	2.18	2.40
Raw Material					
iviaterial					
_	0.49	0.55	0.62	0.69	0.77
<b>Closing Stock</b>	2.08	2.33	2.58	2.87	3.17

COMPUTATION OF WORKING CAPITAL REQUIREMENT							
					(in Lacs)		
Particulars	Amount	Own Margin		Own Margin Bank Final			
Finished Goods & Raw Material	2.08						
Less : Creditors	1.72						
Paid stock	0.36	10%	0.04	90%	0.33		
Sundry Debtors	3.61	10%	0.36	90%	3.25		
	3.98		0.40		3.58		
MPBF	MPBF						
WORKING CAPITAL LIMIT DEMAND ( from Bank)							
Working Capital Margin 0.39							

# 5.9 **Power, Salary & Wages Calculation**

Utility Charges (per month	)	
Particulars	value	Description
Power connection		
required	12	KWH
consumption per day	120	units
Consumption per month	3,000	units
Rate per Unit	10	Rs.
power Bill per month	30,000	Rs.

BREAK UP OF LABOUR CHA	ARGES		
Particulars	Wages Rs. per Month	No of Employees	Total Salary
Skilled (in thousand rupees) Unskilled (in thousand	15,000	2	30,000
rupees)	12,000	4	48,000
Total salary per month Total annual labour			78,000
charges	(in lacs)	6	9.36

BREAK UP OF Staff Salary CHARGES			
Particulars	Salary Rs. per	No of	Total
	Month	Employees	Salary
Sales Personal	20,000	2	40,000
Accountant	24,000	1	24,000
Total salary per month			64,000
Total annual Staff charges	(in lacs)	3	7.68

### 5.10 **Depreciation**

COMPUTATION OF DEPRECI	ATION		(in Lacs)
Description	Plant & Machinery	Miss. Assets	TOTAL
Rate of Depreciation	15.00%	10.00%	
Opening Balance	-		-
Addition	14.00	2.00	16.00
Total	14.00	2.00	16.00
Less : Depreciation	2.10	0.20	2.30
WDV at end of Year	11.90	1.80	13.70
Additions During The Year	-	-	_
Total	11.90	1.80	13.70
Less : Depreciation	1.79	0.18	1.97
WDV at end of Year	10.12	1.62	11.74
Additions During The Year	-	-	-
Total	10.12	1.62	11.74
Less: Depreciation	1.52	0.16	1.68
WDV at end of Year	8.60	1.46	10.06
Additions During The Year	-	-	-
Total	8.60	1.46	10.06
Less: Depreciation	1.29	0.15	1.44
WDV at end of Year	7.31	1.31	8.62
Additions During The Year	-		_
Total	7.31	1.31	8.62
Less: Depreciation	1.10	0.13	1.23
WDV at end of Year	6.21	1.18	7.39

## 5.11 Repayment schedule

						Interest	11.00%
Year	Particulars	Amount	Addition	Total	Interest	Panaymant	Closing Balance
ist	Opening Balance	Amount	Addition	IUlai	milerest	Repayment	Dalatice
""	opening balance						
	1st month	-	8.80	8.80	-	-	8.80
	2nd month	8.80	-	8.80	0.08	-	8.80
	3rd month	8.80	-	8.80	0.08	-	8.80
	4th month	8.80	-	8.80	0.08		8.80
	5th month	8.80	-	8.80	0.08		8.80
	6th month	8.80	-	8.80	0.08		8.80
	7th month	8.80	-	8.80	0.08	0.16	8.64
	8th month	8.64	-	8.64	0.08	0.16	8.47
	9th month	8.47	-	8.47	0.08	0.16	8.31
	10th month	8.31	-	8.31	0.08	0.16	8.15
	11th month	8.15	-	8.15	0.07	0.16	7.99
	12th month	7.99	-	7.99	0.07	0.16	7.82
					0.86	0.98	
2nd	Opening Balance						
	1st month	7.82	-	7.82	0.07	0.16	7.66
	2nd month	7.66	-	7.66	0.07	0.16	7.50
	3rd month	7.50	-	7.50	0.07	0.16	7.33
	4th month	7.33	-	7.33	0.07	0.16	7.17
	5th month	7.17	-	7.17	0.07	0.16	7.01
	6th month	7.01	-	7.01	0.06	0.16	6.84
	7th month	6.84	-	6.84	0.06	0.16	6.68

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	8th month	6.68	-	6.68	0.06	0.16	6.52
	9th month	6.52	-	6.52	0.06	0.16	6.36
	10th month	6.36	-	6.36	0.06	0.16	6.19
	11th month	6.19	-	6.19	0.06	0.16	6.03
	12th month	6.03	-	6.03	0.06	0.16	5.87
					0.76	1.96	
3rd	Opening Balance						
	1st month	5.87	-	5.87	0.05	0.16	5.70
	2nd month	5.70	-	5.70	0.05	0.16	5.54
	3rd month	5.54	-	5.54	0.05	0.16	5.38
	4th month	5.38	-	5.38	0.05	0.16	5.21
	5th month	5.21	-	5.21	0.05	0.16	5.05
	6th month	5.05	-	5.05	0.05	0.16	4.89
	7th month	4.89	-	4.89	0.04	0.16	4.73
	8th month	4.73	-	4.73	0.04	0.16	4.56
	9th month	4.56	-	4.56	0.04	0.16	4.40
	10th month	4.40	-	4.40	0.04	0.16	4.24
	11th month	4.24	-	4.24	0.04	0.16	4.07
	12th month	4.07	-	4.07	0.04	0.16	3.91
					0.55	1.96	
4th	Opening Balance						
	1st month	3.91	-	3.91	0.04	0.16	3.75
	2nd month	3.75	-	3.75	0.03	0.16	3.59
	3rd month 4th month	3.59 3.42	-	3.59	0.03 0.03	0.16 0.16	3.42 3.26
J	in mondi	J.72			5.55	5.10	3.20

				3.42			
	5th month	3.26	-	3.26	0.03	0.16	3.10
	6th month	3.10	-	3.10	0.03	0.16	2.93
	7th month	2.93	-	2.93	0.03	0.16	2.77
	8th month	2.77	-	2.77	0.03	0.16	2.61
	9th month	2.61	-	2.61	0.02	0.16	2.44
	10th month	2.44	-	2.44	0.02	0.16	2.28
	11th month	2.28	-	2.28	0.02	0.16	2.12
	12th month	2.12		2.12	0.02	0.16	1.96
					0.33	1.96	
5th	Opening Balance						
	1st month	1.96	-	1.96	0.02	0.16	1.79
	2nd month	1.79	-	1.79	0.02	0.16	1.63
	3rd month	1.63	-	1.63	0.01	0.16	1.47
	4th month	1.47	-	1.47	0.01	0.16	1.30
	5th month	1.30	-	1.30	0.01	0.16	1.14
	6th month	1.14	-	1.14	0.01	0.16	0.98
	7th month	0.98	-	0.98	0.01	0.16	0.81
	8th month	0.81	-	0.81	0.01	0.16	0.65
	9th month	0.65	-	0.65	0.01	0.16	0.49
	10th month	0.49	-	0.49	0.00	0.16	0.33
	11th month	0.33	-	0.33	0.00	0.16	0.16
	12th month	0.16	-	0.16	0.00	0.16	
					0.12	1.96	
D	OOR TO DOOR	60	MONTHS				

MORATORIUM PERIOD	6	MONTHS
REPAYMENT PERIOD	54	MONTHS

# 5.12 <u>DSCR</u>

CALCULATION OF D.S.C.R					
PARTICULARS	1st year	2nd year	3rd year	4th year	5th year
CASH ACCRUALS	3.75	4.78	6.37	7.52	9.06
Interest on Term Loan	0.86	0.76	0.55	0.33	0.12
Total	4.62	5.55	6.92	7.85	9.18
REPAYMENT					
Instalment of Term Loan	0.98	1.96	1.96	1.96	1.96
Interest on Term Loan	0.86	0.76	0.55	0.33	0.12
Total	1.84	2.72	2.50	2.29	2.07
DEBT SERVICE COVERAGE					
RATIO	2.51	2.04	2.76	3.43	4.43
AVERAGE D.S.C.R.		1	-	-	3.03

# 5.13 Break Even Point Analysis

BREAK EVEN POINT ANALYSIS					
Year	ı	II	III	IV	V
Net Sales & Other Income	108.41	124.17	139.06	155.40	172.64
Less : Op. WIP Goods	-	1.59	1.78	1.97	2.18
Add : Cl. WIP Goods	1.59	1.78	1.97	2.18	2.40
Total Sales	110.00	124.36	139.24	155.61	172.86
Variable & Semi Variable Exp.	1				
Raw Material Consumed	73.50	82.69	92.40	103.28	114.75
Electricity Exp/Coal Consumption at 60%	2.16	2.48	2.86	3.29	3.61
Wages & Salary at 40%	6.82	7.46	8.19	8.80	9.60
Selling & adminstrative Expenses 60%	1.17	1.34	1.50	1.86	1.97
Interest on working Capital	0.385	0.385	0.385	0.385	0.385
Repair & maintenance	4.34	4.97	5.56	5.75	6.04
Packaging	2.17	3.10	3.34	3.88	4.32
Total Variable & Semi Variable Exp	90.54	102.43	114.23	127.25	140.67
Contribution	19.46	21.93	25.01	28.36	32.19
Fixed & Semi Fixed Expenses					
Electricity Exp/Coal Consumption at 40%	1.44	1.66	1.90	2.19	2.41
Wages & Salary at 60%	10.22	11.20	12.29	13.20	14.40
Interest on Term Loan	0.86	0.76	0.55	0.33	0.12
Depreciation	2.30	1.97	1.68	1.44	1.23
Selling & adminstrative Expenses 40%	0.78	0.89	1.00	1.24	1.31
Rent	2.40	2.64	2.90	3.19	3.51
Total Fixed Expenses	18.01	19.11	20.32	21.60	22.97
Capacity Utilization	70%	75%	80%	85%	90%
OPERATING PROFIT	1.45	2.82	4.69	6.76	9.22
BREAK EVEN POINT	65%	65%	65%	65%	64%
BREAK EVEN SALES	101.78	108.38	113.14	118.51	123.37

#### 6. LICENSE & APPROVALS

- Obtain the GST registration.
- Additionally, obtain the Udyog Aadhar registration Number.
- Fire/pollution license as required.
- FSSAI License
- Choice of a Brand Name of the product and secure the name with Trademark if required

#### 7. ASSUMPTIONS

- 1. Production Capacity of Peda is 250 Kgs per day. First year, Capacity has been taken @ 70%.
- 2. Working shift of 10 hours per day has been considered.
- 3. Raw Material stock is for 2 days and finished goods Closing Stock has been taken for 5 days.
- 4. Credit period to Sundry Debtors has been given for 10 days.
- 5. Credit period by the Sundry Creditors has been provided for 7 days.
- 6. Depreciation and Income tax has been taken as per the Income tax Act, 1961.
- 7. Interest on working Capital Loan and Term loan has been taken at 11%.
- 8. Salary and wages rates are taken as per the Current Market Scenario.
- 9. Power Consumption has been taken at 12 KW.
- 10. Selling Prices & Raw material costing has been increased by 5% respectively in the subsequent years.

#### **Limitations of the Model DPR and Guidelines for Entrepreneurs**

#### **Limitations of the Model DPR**

- i. This model DPR has provided only the basic standard components and methodology to be adopted by an entrepreneur while submitting a proposal under the Formalization of Micro Food Processing Enterprises Scheme of MoFPI.
- ii. This is a model DPR made to provide general methodological structure not for specific entrepreneur/crops/location. Therefore, information on the entrepreneur, forms and structure (proprietorship/partnership/cooperative/ FPC/joint stock company) of his business, details of proposed DPR, project location, raw material base/contract sourcing, entrepreneurs own SWOT analysis, detailed market research, rationale of the project for specific location, community advantage/benefit from the project, employment generation and many more detailed aspects not included.
- iii. The present DPR is based on certain assumptions on cost, prices, interest, capacity utilization, output recovery rate and so on. However, these assumptions in reality may vary across places, markets and situations; thus the resultant calculations will also change accordingly.