PROJECT REPORT

Of

MILK PROCESSING(1000 LTR)

PURPOSE OF THE DOCUMENT

This particular pre-feasibility is regarding MILK PROCESSING(1000 LTR).

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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INTRODUCTION

India is endowed with a largest livestock population in the world having a total bovine population of 375 million compared to the world's total bovine population of 1550 million. It accounts for 58.2% of the world's buffalo population and 15.1% of the cattle population.

In order to meet the rapidly growing demand for milk with a focus to improve milk animal productivity and increase milk production, the Government has approved National Dairy Plan Phase. NDP-I will help to meet the projected national demand from domestic production through productivity enhancement, strengthening and expanding village level infrastructure for milk procurement and provide producers with greater access to markets.

The organized dairy sector (both cooperatives and private) is presently handles about 15 per cent of total milk production in the country. Thus it indicates, there is a wide scope for processing of milk and manufacture of milk products for domestic consumption as well as export.

Dairy products form one of the fastest growing segments in the livestock product export. The major export destinations are Bangladesh, Egypt, UAE, Algeria, Yemen Republic, Pakistan, Saudi Arabia and Malaysia. The major products exported were Butter & other milk fat, cheese, Whole Milk Powder, Skimmed Milk Powder, fresh cream, ghee, butter milk etc.

MARKET POTENTIAL OF THE PROJECT

India is leading in production of milk and dairy is one of the major subsidiary activities of most of the farmers. Despite of highest production in the world there is always a demand supply miss match for milk and milk products. The demand for milk and milk products is at its peak during festive occasions like Diwali, Id, Holi, etc. In order to meet the demand during its peak, the milk needs to be converted to various milk products due to its perishable nature. But there is lack of processing infrastructure in the country. Therefore, there is good scope for financing milk processing activities in entire country.

The beneficiaries of the Project may be individuals, partnership firms, companies, corporate bodies, cooperative societies/unions etc. New entrepreneurs may start their business as an individual, proprietary concern, partnership firm or a joint stock company.

The financial assistance is extended for processing of milk with the following objectives.

- i) To enhance the keeping quality of milk
- ii) To avoid the economic losses to farmers by procuring the milk in time from them
- iii) To manufacture various milk products as per market demand
- iv) To provide quality products at affordable prices to the consumers.

PROJECT DETAILS

RAW MILK RECEPTION PATTERN:

Temperature : 30Deg.c.

• Type of milk : Raw mixed milk

• Smell & Taste : Good

· Alcohol stability of milk as required

• No sour milk is to be received at the dairy

PLANT CAPACITY:

Capacity of the milk processing Plant will be **200 LPH** considering morning milk collection 2.5 hours & Evening milk collection 2.5 hour. So @**1,000Ltr** Milk comfortably pasteurized per day.

FINISH MILK PACKING:

Liquid Milk : 1000Ltrs/day

ELECTRICAL REQUIREMENT:

• Total connected HP required : **Approx 40 HP** Three Phase 440V

• Standby arrangement of D G Sets(30 KVA)

CONSTRUCTED AREA REQUIRE FOR PLANT & MACHINERY:

For Processing of 1000 LPD Milk tentative area required **2400sq. ft** with minimum 15 ft height.

MANPOWER REQUIRED:

Well experienced plant operator, Quality control technician & unskilled worker required to be depute before commissioning of the plant & machine Y.

TECHNICAL SPECIFICATION

Reception Section

Roller conveyor

MS Roller conveyor 3mtr long with ms frame and roller with adjustable ball feet suitable for carrying 40ltr can

Can tipping bar

The can tipping bar made out of ms pipe and Chanel and fitted wooden block on the top side for resting of milk cans

SS Weighing Bowl

SS weighing bowl fabricated out of 2mm thick SS 304 sheet without let valve lifting arrangement

Weighing scale

Electronic plat form type weighing scale with LED display for weighing of milk on reception

SS Dump Tank

The dump tank will be fabricated out of 2mm thick SS 304 sheet without cover. The tank will have a gentle slope towards the outlet which be terminated at a 2 way valve.

Milk Transfer Pump

The stainless steel milk transfer pump will be of sanitary design as per dairy standard. The TEFC drive motor on415V3phase will be fitted with stainless steel shroud with louvers for air cooling and suitable arrangement for cable Connection

Inline Filter

38 mm stainless steel inline filter complete with connections.

Can Scrubber

This will be used to clean the cans inside and outside. This is 'U' shape vessel with two nos. of nylon brushes running at a slow rpm.

The cans to clean will be inserted inside this brush. One brush will clean the inside and other brush will clean outside. To clean the bottom of the can outside one no. small brush is provided. The trough is filled with warm water at 45 to 50 deg c. and 150 to 200 gram of washing sod is mixed with this water as detergent.

The scrubber will take one minute to clean the can. The main body is made from AISI 304 sheet. The unit will have 4nos. of legs with ball feet for floor adjustment, the drive mechanism provided at the side of the unit on a Ms. Mechanism. The unit will have reduction gear box coupled with a motor. Necessary drain arrangement is being provided for to drain the inside water.

Can Drip Saver

Standard can drip saver of SS-304 material will be required.

Plate Chiller

The plate heat exchanger is suitable to chill milk from a temperature of 35deg.c to 4deg.c. The plates of the heat exchanger will be made of SS 304 and will be compressed between the frame plate and pressure plate. The frame and pressure plate will be made of mild steel and cladded with SS sheet.

MILK STORAGE SECTION

Milk Storage Tank

The storage tank will be Horizontal in design. The inner shell will be made of SS 304 and the outer shell will be made of SS sheet. The inner shell will be insulated with 100 mm thermocole. The bottom of the tank will have a gentle slope towards the outlet. The tank will be mounted on adjustable ball feet. The storage tank will be complete with the following accessories.SS man way, SS no foam inlet Light glass assembly, sight glass assembly, two way out let valve, sampling cock, SS vertical agitator & driven by a suitable motor, MS ladder, Thermometer

Milk Transfer Pump

The stainless steel milk transfer pump will be of sanitary design as per dairy standard. The TEFC drive motor on 415V 3phase will be fitted with stainless steel shroud with louvers for air cooling and suitable arrangement for cable Connection.

MILK PROCESS SECTION

MULTIDUTY MILK PASTEURISATION PLANT

Design Parameter:

Raw milk feed temperature : 4deg.c/30deg.c

Milk Pasteurization temp : 72.5-78deg.c

Holding time for Pasteurization : 16 second

Finished milk discharge tem : 4deg.c

Heat regeneration : 90%

Chilled water flow rate : 3 times milk flow rate

Chilled water feed temperature : 1.5deg.c

Functional requirement:

This will be used for pasteurization of milk subsequently chilling it. Scope of Supply

Balance tank: The 150ltr capacity balance tank will be fabricated from 2mm thick SS 304sheet. The tank will be provided with cover, float, outlet and adjustable SS ball feet

<u>Milk pump</u>: The SS feed pump will be of sanitary design as per dairy standard suitable for above PHE. Flow controller: SS flow control device is required to manually regulate the required flow rate. The flow controller will be of sanitary design.

Heat Exchanger: The plates will be made from ss304 and will be of sanitary design. All the milk contact and exterior surfaces will be easily accessible or readily removable for cleaning and inspection.

Gaskets: The gasket will be sanitary type and the material will be food grade and be non-toxic, fat resistant, non-absorbent and will have smooth surface.

Holding Section: It will be designed for continuous holding of the product for at least 16 second at the pasteurization temperature. The holding section will be external tubular type.

Supporting Frame: The supporting frame for the plate pack will be of a self-supporting design made of mild steel and cladded with stainless steel and provided with a manually operated SS tightening device.

PACKING SECTION

Pouch Filling Machine

The machine will be suitable to pack milk into polythene pouches 200/500 ML, The machine will be mechanical type.

Milk Transfer Pump

The stainless steel milk transfer pump will be of sanitary design as per dairy standard. The TEFC drive motor on415V3phase will be fitted with stainless steel shroud with louvers for air cooling and suitable arrangement for cable Connection

Inter Connecting Pipes and Fitting: 38MM

SS Pipes & fittings of suitable size and length in sanitary design as per compact lay of above plant

Cream Separator Online

This is centrifuging rotating at very high speed to separate the fat and SNF both fat and SNF will be coming out separately. Online to separate excess fat in the milk al I milk contact parts will be of aisi304and the body is made of cast iron the unit will be supplied with necessary tools and tackles for opening the bowl.

Inter Connecting Pipes and Fitting: 38MM

SS Pipes & fittings of suitable size and length in sanitary design as per compact lay of above plant

Cold Store Room

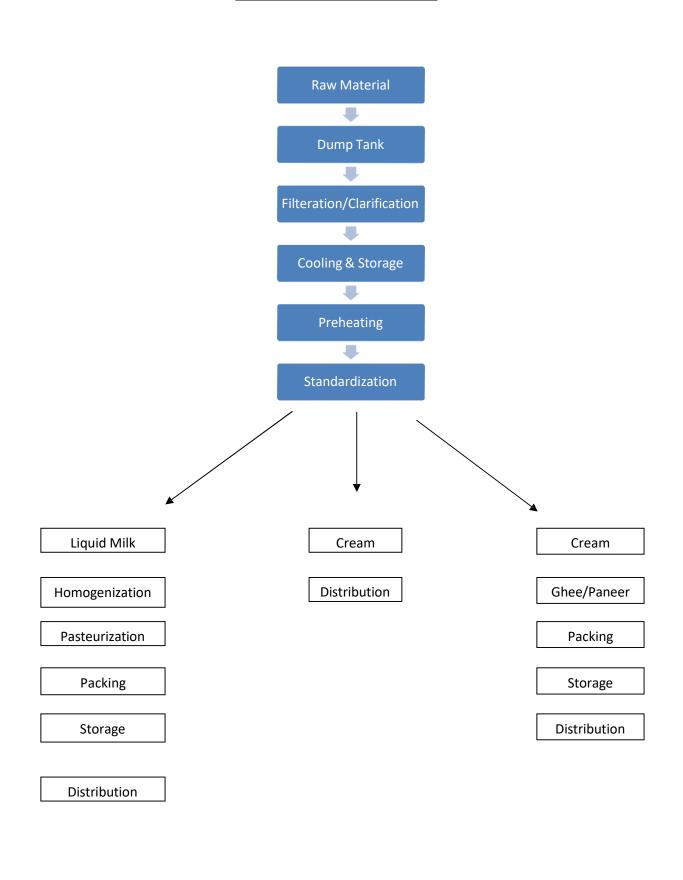
Cold store to store milk packed in poly packs kept in crates. The cold store cabinet will be insulated with thermocole panel the cold store room will be supplied with suitable capacity.

MACHINERY DETAILS

S.NO.	ITEMS	QUANTITY	UNIT PRICE	FINAL PRICE
Milk Recep	otion			
1	Bulk Milk Cooler 1Kl	1 NOS.	1,75,000	1,75,000
2	Pump	1 NOS.	20,000	20,000
		Total	1,95,000	1,95,000
Milk Proce	essing			
1	Milk Pasteurizer -200LPH	1 NOS.	2,50,000	2,50,000
2	Packing Milk	1 NOS.	2,45,000	2,45,000
3	Storage Tank 1Kl	1 NOS.	1,15,000	1,15,000
		Total	6,10,000	6,10,000
Curd Section	on and Chach Section			
1	Curd Cogulation tank (200 Ltr)	1 NOS.	65,000	65,000
2	Hot Room (6x6)	1 NOS.	1,25,000	1,25,000
3	Blast Room(6x6)	1 NOS.	1,75,000	1,75,000
4	Piping and Erection	1 NOS.	45,000	45,000
		Total	4,10,000	4,10,000
Paneer Sec	ction			1
1	Paneer PHE (Set)	1 NOS.	85,000	85,000
2	Dump Tank	2 NOS.	45,000	90,000
3	Balance tank	1 NOS.	25,000	25,000
4	Piping and Erection	1 NOS.	45,000	45,000
		Total	2,00,000	2,45,000

Ghee S	ection	1	1	I
1	Ghee Kattle	1 NOS.	85,000	85,000
2	Clarifier	1 NOS.	55,000	55,000
3	Storage tank (500 Ltr)	1 NOS.	85,000	85,000
4	Piping and Erection	1 NOS.	45,000	45,000
		Total	2,70,000	2,70,000
Utility	Section			
1	IBT 1.5 TR	1 NOS.	95,000	95,000
2	Boiler (500 Ltr)	1 SET	1,25,000	1,25,000
3	Piping	1 SET	75,000	75,000
4	Erection and Commissioning	1 NOS.	75,000	75,000
5	Electric Goods	1 Nos.	75,000	75,000
		Total	4,45,000	4,45,000
			GRAND TOTAL	<mark>21,75,000</mark>
			GST @12%	2,61,000
			TOTAL	24,36,000

Manufacturing Process



		No. of Days
1	Sep- Oct	60
	Nov- Feb	120
	Mar	30
	Apr	30
	May- Aug	125
	Days of Plant Operation in a y	365

2 Power & Steam Related Assumptions:

Power & Steam Related Assur	nptions:	
Total Installed Load	KW	20.00
Power Factor		0.90
Run Hours		8.00
Plant Load Factor		65%
Unit Rate	RS/KWH	6.50
Consumption of Steam/ Hour		100.00
Cost of Steam (Rs/Kg)		2.00
Full Load Run hours		<u>8</u>

3 Raw Milk Quantity 1,000 Litr/day

Price (Rs/KG	Packing Rs/KG	
120	2	
300	2	
62	3	
	120 300	

Sale Price	<u>l</u>	<u>II</u>	<u>III</u>	<u>IV</u>	<u>V</u>	<u>VI</u>
Curd/Chach	120	124	129	135	142	149
Paneer	300	309	321	337	354	372
Toned Milk	62	64	67	70	74	78

Increased By 2-5% Annually

RAW MATERIAL PURCHASE Proportions		RS/KG
Sep- Oct	Rs/ KG	30
Nov- Feb	Rs/ KG	23
Mar	Rs/KG	33
Apr	Rs/ KG	33
May- Aug	Rs/ KG	34

6 Material Balancing/ Day

Final Product Mix

Curd (1Ltr For 1 Kg)	30
Paneer (6 ltr For 1 Kg)	30
Toned milk	800

7 ELECTRCAL LOAD CALCULATION
Total Installed Load KVA
Total Units Consumption Daily KWH 20 104 Total Units Consumption (Annu KWH 37,960

TOTAL POWER COST Rs in Lacs 2.47

8 CALCULATION FOR FUEL FOR STEAM BOILER

Total Amount / Day Total Amount / Year Total power and fuel 1,600 Rs in Lacs 5.84 8.31

9	Raw Material Cost:	<u>Days</u>		Milk Collected	Cost/ KG	Total Cost/ Day Rs in Lacs	
	Sep- Oct		60	1,000	30	18	
	Nov- Feb Mar		120 30	1,000 1,000	23 33	28 10	
	Apr May-Aug		30 125	1,000 1,000	33 34	10 43	
		TOTAL ANNU	AL RAW MILK CO	OST		107.90	

Raw Milk Price	<u>2019-20</u>	<u>2020-21</u>	<u>2021-22</u>	<u>2022-23</u>	<u>2023-24</u>	<u>2024-25</u>
Raw Milk	107.90	110.00	113.00	116.00	121.00	127.00
Increased By 2-5% Annu	ually					

10 Cost of Employees

<u>Position</u>	Numbers		CTC/Year/ Person	Total Cost
			Rs (000s)	Rs in Lacs
			70.000	0.40
Unskilled Workmen		3	72,000	2.16
Skilled Workmen		1	84,000	0.84
Plant Supervisor		1	96,000	0.96
Sales Executives		1	96,000	0.96
Commercial Executives		1	120,000	1.20
QC TECHNICIAN		1	144,000	1.44
Plant Head		1	240,000	2.40
Total Cost of Employees	•	9	•	9.96

11 Chemical Consumption Rs in Lacs 1.20 At Capacity

12	Overhead As %age of Sales/ Fi	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024
	Capacity						
	Selling, General & Admn Exp	6.00%	8.00%	9.00%	10.00%	11.00%	12.00%
	Rejection/wastage	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%
14	Rate of Interest on Term Loan		11.00%	P.A.			
15	No. of Instlments for Term Loan Repay (After one year Moratorium)	ment	58	Months		_	
16	Depreciation Rates Assumed:						
	Building		10%				
	Plant & Machinery		15%				
	Misc. Fixed Assets		15%				
	(Method of Computing Deprecia	ation: WDV Method)					

PROJECTED CASH FLOW STATEMENT

PARTICULARS	I	II	III	IV	V
SOURCES OF FUND					
Increase In Own Capital	2.41	-	-	-	-
Profit After Tax	3.36	4.85	6.66	9.80	12.88
Depreciation	3.29	2.79	2.37	2.02	1.72
Increase In Term Loan from bank	19.72	-	-	-	-
Increase In Sundry Creditors	2.16	0.22	0.24	0.26	0.29
Increase in Other Liabilities	1.00	0.10	0.11	0.12	0.13
TOTAL:	31.93	7.96	9.39	12.20	15.02
APPLICATION OF FUND					
Increase in Fixed Assets	21.91	-	-	-	-
Increase in Stock	0.27	0.03	0.04	0.04	0.05
Increase in Debtors	1.36	0.16	0.19	0.21	0.24
Increase in Sundry Advances	3.00	1.00	1.00	1.00	1.00
Repayment of Term Loan from Bank	2.19	4.38	4.38	4.38	4.38
Drawings	2.00	3.00	4.00	5.00	10.00
TOTAL :	30.73	8.58	9.61	10.63	15.67
Opening Cash & Bank Balance	-	1.21	0.59	0.37	1.93
Add : Surplus	1.21	(0.62)	(0.22)	1.57	(0.65
	1,21	0.59	0.37	1.93	1.28

PROJECTED BALANCE SHEET

SOURCES OF FUND	V	IV	III	II	I	PARTICULARS
Add: Net Profit 3.36 4.85 6.66 9.80 Less: Drawings 2.00 3.00 4.00 5.00 Closing Capital 3.77 5.63 8.29 13.09 Term Loan From Bank 17.53 13.14 8.76 4.38 TOTAL: 21.30 18.77 17.05 17.47 APPLICATION OF FUND Fixed Assets 21.91 21.91 21.91 21.91 21.91 29.191 21.91 <						SOURCES OF FUND
Add: Net Profit 3.36 4.85 6.66 9.80 Less: Drawings 2.00 3.00 4.00 5.00 Closing Capital 3.77 5.63 8.29 13.09 Term Loan From Bank 17.53 13.14 8.76 4.38 TOTAL: 21.30 18.77 17.05 17.47 APPLICATION OF FUND Fixed Assets 21.91 21.91 21.91 21.91 21.91 29.191 21.91 <	13.09	8 29	5 63	3.77	2 41	Own Capital
Less : Drawings	12.88					· · · · · · · · · · · · · · · · · · ·
Term Loan From Bank 17.53 13.14 8.76 4.38 21.30 18.77 17.05 17.47	10.00	5.00	4.00	3.00	2.00	Less : Drawings
TOTAL : 21.30 18.77 17.05 17.47	15.97	13.09	8.29	5.63	3.77	Closing Capital
APPLICATION OF FUND	(0.00)					Term Loan From Bank
Fixed Assets 21.91 21.91 21.91 21.91 21.91 Depreciation 3.29 6.08 8.45 10.47 Net Block 18.62 15.83 13.45 11.44 Current Assets Sundry Debtors 1.36 1.52 1.71 1.92 Inventory 0.27 0.30 0.34 0.38 Cash and Bank 1.21 0.59 0.37 1.93 Sundry Advances 3.00 4.00 5.00 6.00 Total Current Assets 5.84 6.42 7.42 10.24 Current Liabilities 2.16 2.37 2.61 2.87 Other Liabilities 1.00 1.10 1.21 1.33 3.16 3.47 3.82 4.20 Net Current Assets 2.68 2.94 3.60 6.03	15.97	17.47	17.05	18.77	21.30	TOTAL :
Fixed Assets 21.91 21.91 21.91 21.91 21.91 Depreciation 3.29 6.08 8.45 10.47 Net Block 18.62 15.83 13.45 11.44 Current Assets Sundry Debtors 1.36 1.52 1.71 1.92 Inventory 0.27 0.30 0.34 0.38 Cash and Bank 1.21 0.59 0.37 1.93 Sundry Advances 3.00 4.00 5.00 6.00 Total Current Assets 5.84 6.42 7.42 10.24 Current Liabilities 2.16 2.37 2.61 2.87 Other Liabilities 1.00 1.10 1.21 1.33 3.16 3.47 3.82 4.20 Net Current Assets 2.68 2.94 3.60 6.03						APPLICATION OF FUND
Gross Block 21.91 21.91 21.91 21.91 21.91 Depreciation 3.29 6.08 8.45 10.47 Net Block 18.62 15.83 13.45 11.44 Current Assets Sundry Debtors 1.36 1.52 1.71 1.92 Inventory 0.27 0.30 0.34 0.38 Cash and Bank 1.21 0.59 0.37 1.93 Sundry Advances 3.00 4.00 5.00 6.00 Total Current Assets 5.84 6.42 7.42 10.24 Current Liabilities Sundry Creditors 2.16 2.37 2.61 2.87 Other Liabilities 1.00 1.10 1.21 1.33 3.16 3.47 3.82 4.20 Net Current Assets 2.68 2.94 3.60 6.03						· ·
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Current Assets Sundry Debtors 1.36 1.52 1.71 1.92 Inventory 0.27 0.30 0.34 0.38 Cash and Bank 1.21 0.59 0.37 1.93 Sundry Advances 3.00 4.00 5.00 6.00 Total Current Assets 5.84 6.42 7.42 10.24 Current Liabilities Sundry Creditors 2.16 2.37 2.61 2.87 Other Liabilities 1.00 1.10 1.21 1.33 3.16 3.47 3.82 4.20 Net Current Assets 2.68 2.94 3.60 6.03	12.19					
Sundry Debtors 1.36 1.52 1.71 1.92 Inventory 0.27 0.30 0.34 0.38 Cash and Bank 1.21 0.59 0.37 1.93 Sundry Advances 3.00 4.00 5.00 6.00 Total Current Assets 5.84 6.42 7.42 10.24 Current Liabilities Sundry Creditors 2.16 2.37 2.61 2.87 Other Liabilities 1.00 1.10 1.21 1.33 3.16 3.47 3.82 4.20 Net Current Assets 2.68 2.94 3.60 6.03	9.72	11.44	13.45	15.83	18.62	Net Block
Sundry Debtors 1.36 1.52 1.71 1.92 Inventory 0.27 0.30 0.34 0.38 Cash and Bank 1.21 0.59 0.37 1.93 Sundry Advances 3.00 4.00 5.00 6.00 Total Current Assets 5.84 6.42 7.42 10.24 Current Liabilities Sundry Creditors 2.16 2.37 2.61 2.87 Other Liabilities 1.00 1.10 1.21 1.33 3.16 3.47 3.82 4.20 Net Current Assets 2.68 2.94 3.60 6.03						
Sundry Debtors 1.36 1.52 1.71 1.92 Inventory 0.27 0.30 0.34 0.38 Cash and Bank 1.21 0.59 0.37 1.93 Sundry Advances 3.00 4.00 5.00 6.00 Total Current Assets 5.84 6.42 7.42 10.24 Current Liabilities Sundry Creditors 2.16 2.37 2.61 2.87 Other Liabilities 1.00 1.10 1.21 1.33 3.16 3.47 3.82 4.20 Net Current Assets 2.68 2.94 3.60 6.03						Current Assets
Cash and Bank 1.21 0.59 0.37 1.93 Sundry Advances 3.00 4.00 5.00 6.00 Total Current Assets 5.84 6.42 7.42 10.24 Current Liabilities Sundry Creditors 2.16 2.37 2.61 2.87 Other Liabilities 1.00 1.10 1.21 1.33 3.16 3.47 3.82 4.20 Net Current Assets 2.68 2.94 3.60 6.03	2.16	1.92	1.71	1.52	1.36	
Sundry Advances 3.00 4.00 5.00 6.00 Total Current Assets 5.84 6.42 7.42 10.24 Current Liabilities Sundry Creditors 2.16 2.37 2.61 2.87 Other Liabilities 1.00 1.10 1.21 1.33 3.16 3.47 3.82 4.20 Net Current Assets 2.68 2.94 3.60 6.03	0.43	0.38	0.34		0.27	
Total Current Assets 5.84 6.42 7.42 10.24 Current Liabilities Sundry Creditors 2.16 2.37 2.61 2.87 Other Liabilities 1.00 1.10 1.21 1.33 3.16 3.47 3.82 4.20 Net Current Assets 2.68 2.94 3.60 6.03	1.28					
Current Liabilities Sundry Creditors 2.16 2.37 2.61 2.87 Other Liabilities 1.00 1.10 1.21 1.33 3.16 3.47 3.82 4.20 Net Current Assets 2.68 2.94 3.60 6.03	7.00					•
Sundry Creditors 2.16 2.37 2.61 2.87 Other Liabilities 1.00 1.10 1.21 1.33 3.16 3.47 3.82 4.20 Net Current Assets 2.68 2.94 3.60 6.03	10.87	10.24	7.42	6.42	5.84	Total Current Assets
Other Liabilities 1.00 1.10 1.21 1.33 3.16 3.47 3.82 4.20 Net Current Assets 2.68 2.94 3.60 6.03						Current Liabilities
3.16 3.47 3.82 4.20	3.16	2.87	2.61	2.37	2.16	Sundry Creditors
Net Current Assets 2.68 2.94 3.60 6.03	1.46	1.33	1.21	1.10	1.00	Other Liabilities
Net Current Assets 2.68 2.94 3.60 6.03	4.62	4.20	3.82	3.47	3.16	
	6.25		3.60	2.94	2.68	Net Current Assets
	15.97					
	-	-	-	-	-	

PARTICULARS	I	II	III	IV	V	Description	Plant & Machinery	TOTAL
A) SALES						Rate of Depreciation	15.00%	
Colo of Tonad Mills Cound 9 Dancer	00.00	440.00	424.00	120.05	157.50	Opening Balance	-	-
Sale of Toned Milk,Curd & Paneer	99.02	110.98	124.90	139.95	157.59	Addition During The year Less : Depreciation	21.91 3.29	21.9 3.2
Total (A)	99.02	110.98	124.90	139.95	157.59	WDV at end of Year 1	18.62	18.6
						Less : Depreciation	2.79	2.7
B) COST OF SALES						WDV at end of Year 2	15.83	15.8
						Less : Depreciation	2.37	2.3
Raw Material Consumed	64.74	71.50	79.10	87.00	96.80	WDV at end of Year 3	13.45	13.4
Power & Fuel	4.98	5.40	5.82	6.23	6.65	Less : Depreciation	2.02	2.0
Labour & Wages	2.08	1.66	3.12	3.50	3.94	WDV at end of Year 4	11.44	11.4
Stores Consumption	0.72 3.94	0.80 4.35	0.86 4.68	0.92 5.02	0.98 5.35	Less: Depreciation	1.72 9.72	1.7 9.7
Packaging Cost	3.94	4.35	4.00	5.02	5.35	WDV at end of Year 5 Less: Depreciation	9.72 1.46	9.7
Cost of Production	76.46	83.71	93.58	102.67	113.72	WDV at end of Year 6	8.26	8.2
Add : Opening Stock	-	0.27	0.30	0.34	0.38			
Less : Closing Stock	0.27	0.30	0.34	0.38	0.43			
Cost of Sales (B)	76.19	83.68	93.54	102.62	113.67			
C) GROSS PROFIT (A-B)	22.83	27.30	31.36	37.32	43.92			
G.P.Ratio	23.06%	24.60%	25.11%	26.67%	27.87%			
D) Interest on Term Loan	2.73	2.77	2.27	1.79	1.31			
E) Salary	7.51	8.01	8.72	9.47	10.26			
F) Adm & Selling Expenses Exp.	5.94	8.88	11.24	13.99	17.34			
G) Depreciation	3.29	2.79	2.37	2.02	1.72			
TOTAL	19.47	22.45	24.61	27.27	30.62			
I) NET PROFIT	3.36	4.85	6.75	10.05	13.30			
N.P.Ratio	3.40%	4.37%	5.41%	7.18%	8.44%			
K) Tax	-	-	0.09	0.25	0.41			
L) Profit After Tax	3.36	4.85	6.66	9.80	12.88			
M) DEPRECIATION & PRELIMINARY EXP ADD B	3.29	2.79	2.37	2.02	1.72			
N) NET CASH ACCRUALS	6.65	7.65	9.04	11.82	14.60			

PROJECT AT GLANCE

NATURE OF INDUSTRY : MILK PROCESSING PLANT

CONSTITUTION : XXXXXXXXXXXXXX

MANAGEMENT : XXXXXXXXX

XXXXXXXXX

DATE OF ESTABLISHMENT : XXXXXXXXX

XXXXXXXXXXXXXXXXXXXXXX

CAPACITY OF PLANT : Processing of 1000 Litres of Milk Per day

PRODUCTS : Curd

Paneer Toned Milk

FINANCIAL ASSITANCE : Term Loan

REQUIRED

SECURITY OFFERED : <u>PRIMARY SECURITY</u>

Term Loan

Hypothecation of Plant & Mahinery and Other Assets

21.72 Lacs

CALCULATION OF D.S.C.R

PARTICULARS	ı	II	III	IV	V
Cash Accruals	6.65	7.65	9.04	11.82	14.60
Interest on Term Loan	2.73	2.77	2.27	1.79	1.31
Total	9.38	10.41	11.31	13.61	15.91
REPAYMENT					
Instalment of Term Loan	2.19	4.38	4.38	4.38	4.38
Interest on Term Loan	2.73	2.77	2.27	1.79	1.31
Total	4.92	7.15	6.66	6.17	5.69
DEBT SERVICE COVERAGE RATIO AVERAGE D.S.C.R.	1.91	1.46	1.70	2.20	2.79 1.98

FINANCIAL INDICATORS

PARTICULARS	2,019	2,020	2,021	2,022	2,023
TURNOVER	99.02	110.98	124.90	139.95	157.59
GROSS PROFIT	22.83	27.30	31.36	37.32	43.92
G.P. RATIO	23.06%	24.60%	25.11%	26.67%	27.87%
NET PROFIT	3.36	4.85	6.75	10.05	13.30
PAT/SALES RATIO	3.4%	4.4%	5.4%	7.2%	8.4%
CURRENT ASSETS	5.84	6.42	7.42	10.24	10.87
CURRENT LIABILITIES	3.16	3.47	3.82	4.20	4.62
CURRENT RATIO	1.85	1.85	1.94	2.44	2.35
TOTAL NET WORTH	3.77	5.77	8.63	12.29	18.09
TOTAL OUTSIDE LIABILITIES	17.53	13.14	8.76	4.38	(0.00)
TOL/TNW	4.65	2.28	1.02	0.36	(0.00)
PBDIT	9.38	10.41	11.40	13.86	16.32
INTEREST	2.73	2.77	2.27	1.79	1.31
INTEREST COVERAGE RATIO	3.44	3.76	5.01	7.73	12.45
WDV	18.62	15.83	13.45	11.44	9.72

COST OF PROJECT

(Rs. In Lacs)

Particulars	Amount	% Margin	Margin	Finance
Land		Owne	d/Rented	
Plant & Machinery (As per Qutations) Working Capital	21.91 2.22	10% 10%	2.19 0.22	19.72 2.00
Total	24.13		2.41	21.72

MEANS OF FINANCE

Particulars	Amount
Own Contribution	2.41
Working Capital	2.00
Term Loan	19.72
Total	24.13

	REI	PAYMENT S	CHEDULE O	F TERM L	OAN		
.,						Intt.	11.00%
Year	Particulars	Amount	Addition	Total	Interest	Repayment	Cl Balance
ı	Opening Balance		10.72	40.72			10.72
	April	-	19.72	19.72	-	-	19.72
	May	19.72	-	19.72	0.18	-	19.72
	June	19.72	-	19.72	0.18	-	19.72
	July	19.72	-	19.72	0.18	-	19.72
	August	19.72	-	19.72	0.27	-	19.72
	September	19.72	-	19.72	0.36	-	19.72
	October	19.72	-	19.72	0.28	0.37	19.35
	November	19.35	-	19.35	0.26	0.37	18.99
	December	18.99	-	18.99	0.25	0.37	18.62
	January	18.62	-	18.62	0.27	0.37	18.26
	February	18.26	-	18.26	0.25	0.37	17.89
	March	17.89	-	17.89	0.24	0.37	17.53
					2.73	2.19	
III	Opening Balance						
	April	17.53	-	17.53	0.26	0.37	17.16
	May	17.16	-	17.16	0.24	0.37	16.80
	June	16.80	-	16.80	0.23	0.37	16.43
	July	16.43	-	16.43	0.25	0.37	16.07
	August	16.07	-	16.07	0.23	0.37	15.70
	September	15.70	-	15.70	0.22	0.37	15.34
	October	15.34	-	15.34	0.24	0.37	14.97
	November	14.97	-	14.97	0.22	0.37	14.61
	December	14.61	-	14.61	0.21	0.37	14.24
	January	14.24	_	14.24	0.23	0.37	13.87
	February	13.87	_	13.87	0.21	0.37	13.51
	March	13.51	_	13.51	0.22	0.37	13.14
					2.77	4.38	
IV	Opening Balance						
. •	April	13.14	_	13.14	0.22	0.37	12.78
	May	12.78		12.78	0.20	0.37	12.41
	June	12.73	_	12.76	0.19	0.37	12.41
	July	12.41	-	12.41	0.19	0.37	11.68
	August	11.68	-	11.68	0.21	0.37	11.32
	Ü	11.32	-	11.32	0.19	0.37	10.95
	September		-				
	October	10.95	-	10.95	0.20	0.37	10.59
	November	10.59	-	10.59	0.18	0.37	10.22
	December	10.22	-	10.22	0.17	0.37	9.86
	January	9.86	-	9.86	0.19	0.37	9.49
	February	9.49	-	9.49	0.17	0.37	9.13
	March	9.13	-	9.13	0.17	0.37	8.76
					2.27	4.38	

V	Opening Balance						
	April	8.76	-	8.76	0.18	0.37	8.40
	May	8.40	-	8.40	0.17	0.37	8.03
	June	8.03	-	8.03	0.15	0.37	7.67
	July	7.67	-	7.67	0.17	0.37	7.30
	August	7.30	-	7.30	0.16	0.37	6.94
	September	6.94	-	6.94	0.14	0.37	6.57
	October	6.57	-	6.57	0.16	0.37	6.21
	November	6.21	-	6.21	0.14	0.37	5.84
	December	5.84	-	5.84	0.13	0.37	5.48
	January	5.48	-	5.48	0.15	0.37	5.11
	February	5.11	-	5.11	0.13	0.37	4.75
	March	4.75	-	4.75	0.11	0.37	4.38
					1.79	4.38	
VI	Opening Balance						
	April	4.38	-	4.38	0.14	0.37	4.02
	May	4.02	-	4.02	0.12	0.37	3.65
	June	3.65	-	3.65	0.11	0.37	3.29
	July	3.29	-	3.29	0.13	0.37	2.92
	August	2.92	-	2.92	0.11	0.37	2.56
	September	2.56	-	2.56	0.10	0.37	2.19
	October	2.19	-	2.19	0.12	0.37	1.83
	November	1.83	-	1.83	0.10	0.37	1.46
	December	1.46	-	1.46	0.09	0.37	1.10
	January	1.10	-	1.10	0.11	0.37	0.73
	February	0.73	-	0.73	0.09	0.37	0.37
	March	0.37	-	0.37	0.09	0.37	(0.00)
					1.31	4.38	
	DOOR TO DOOR	60	MONTHS				
	MORATORIUM PERIC	6	MONTHS				
	REPAYMENT PERIOD	54	MONTHS				

XXXXXXXXXXX

COMPUTATION OF CAPACITY OF THE PROJECT (PASTEURIZATION PLANT)

Total capacity of the Plant is to process 1000 Litres of Milk per day. So, the capacity of the project will be as follows: At 100% Capacity

1000 Litres of Milk per day Capacity of the plant per day

No. of working days in a year Total capacity of the project 300 days 300000 Litres of Milk per year

Produce to be obtained after rejection/wastage

29.55 Kg per day29.55 Kg per day689.5 Litres of Milk per day Curd/Chach Paneer Toned Milk

Total Produce to be obtained after rejection/wastage

Curd/Chach Paneer 8865 Kg per Year 8865 Kg per Year 206850 Litres of Milk per year Toned Milk

COMPUTATION OF PRODUCTS TO BE PRODUCED

OUANTITY WISE

Particulars	I	II	III	IV	V		
Capacity utilisation	60%	65%	70%	75%	80%		
Curd	5,319	5,762	6,206	6,649	7,092		
Paneer	5,319	5,762	6,206	6,649	7,092		
Toned Milk	124,110	134,453	144,795	155,138	165,480		
Total Produce (in Kgs)	134,748.00	145,977.00	157,206.00	168,435.00	179,664.00		

COMPUTATION OF SALES									
Particulars	I	II	III	IV	V				
Curd	6.38	7.15	8.01	8.98	10.07				
Paneer	15.96	17.81	19.92	22.41	25.11				
Toned Milk	76.95	86.05	97.01	108.60	122.46				
Add:-Opening Stcok	-	0.27	0.30	0.34	0.38				
Less :- Closing Stock	0.27	0.30	0.34	0.38	0.43				
Total Sales (Rs in Lacs)	99.02	110.98	124.90	139.95	157.59				

COMPUTATION OF DIRECT COST									
Particulars	I	II	III	IV	V				
Raw Material Consumed	64.74	71.50	79.10	87.00	96.80				
Packing Material Consumed	3.94	4.35	4.68	5.02	5.35				
Chemical Consumption	0.72	0.80	0.86	0.92	0.98				
Total Direct Cost (Rs in Lacs)	69.40	76.64	84.64	92.94	103.13				

COMPUTATION OF SALARY EXPENSES									
Particulars	I	II	Ш	IV	V				
Managerial Staffs	3.84	4.03	4.44	4.88	5.37				
Production Related Staffs	3.67	3.98	4.28	4.59	4.90				
Total Salary Expenses (Rs in Lacs)	7.51	8.01	8.72	9.47	10.26				
Power & Fuel Consumption	4.98	5.51	5.93	6.36	6.78				
Total Power & Fuel Expense (Rs in Lacs)	4.98	5.51	5.93	6.36	6.78				



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