

BENEFICIARY DETAILS

NAME - XXXXXXXXXXXXXXXXXX
S/D/W/O -
VILLAGE -
G.P. -
P.O. -
P.S. -
BLOCK -
DIST -
PH -
AGE -
CATEGORY -

FINANCING INSTITUTION

BANK-
BRANCH -

SITE OF THE PROJECT :

Plot no -
Khata no -
Type -
Mouza -
Tahasil -
Area -

ASSUMPTIONS

General assumptions

- ↳ Cost of land not considered as owned by the entrepreneur.
- ↳ As green fodder is cultivated inside the premises; cost of green fodder is not considered. However cost of fodder cultivation is taken i
- ↳ Sale proceeds of cow dung is not taken into account as it is utilised as 'Farm Yard Manure' (FYM) for fodder cultivation.
- ↳ Death of animals will be substituted by purchase of new calves subsequent to realisation of insurance claims.
- ↳ Calves are purchased at yearly intervals in half the numbers
- ↳ On an average cows are sold 45 days after first calving. The milk yeild during this period is marketed at market prices.

Technical parametres

↳ Species of animal to be reared	Cows
↳ Breed of animals to be reared	CB Jersey
↳ Total no of animals to be reared	100
↳ Age of animals to be purchased (months)	4
↳ Age at sexual maturity (months)	12
↳ Age at breeding (months)	15-18
↳ Age at first calving (months)	24-27
↳ Age at sale of cows (months)	28
↳ Average daily milk yeild of lactating animals (ltrs)	12
↳ Area for fodder cultivation (acres)	5
↳ Yeild of dung to be utilised for fodder cultivation (kg/animal/day)	10
↳ Floor space requirement of heifers (sft)	36
↳ Floor space requirement of calves (sft)	24
↳ Mortality rate of calves	10.00%
↳ Mortality rate of heifers	5.00%

Economic parametres

↳ Sale price of pregnant heifers/ cows (Rs / animal)	48000
↳ Market price of milk (Rs/ ltr)	40
↳ Cost of purchase of calves (Rs/ calf)	5000
↳ Cost of concentrate feed (Rs/ kg)	17.50
↳ Cost of dry fodder (Rs/ kg)	1.5
↳ Cost of vety aids (Rs/animal/year)	1500
↳ Rate of premium for insurance of animals (% of cost)	5.00%
↳ Cost of construction of civil structures (Rs/ sft)	300
↳ Cost of fodder cultivation (Rs/ acre/year)	1500
↳ Cost of dairy appliances (Rs/calf)	100
↳ Sale price of gunny bags (Rs/bag)	10
↳ Electricity and fuel expenses (Rs/ month)	2500
↳ Construction period for civil structures (days)	30
↳ Rate of annual hike in prices	5.00%
↳ Miscellaneous recurring expenses (Rs/animal/month)	30

TENTATIVE PROJECT IMPLEMENTATION SCHEDULE

Day of application under CAE	0	1-Aug-17
Day of approval of application under CAE	60	30-Sep-17
Day of sanction and release of term loan	120	29-Nov-17
Day of completion of civil works	180	28-Jan-18
Day of estblishment of unit	210	27-Feb-18
Day of release of CC loan	210	27-Feb-18

FLOCK PROJECTION CHART

YEAR	1	2	3	4	5	6	7	8
Opening stock of calves	0	0	0	0	0	0	0	0
Opening stock of heifers	0	50	50	50	50	50	50	50
Purchase during the year	50	50	50	50	50	50	50	50
Death during the year (calves)	5	5	5	5	5	5	5	5
Death during the year (heifers)	0	3	3	3	3	3	3	3
Replacement from insurance	5	8	8	8	8	8	8	8
Calves bred during the year	50	50	50	50	50	50	50	50
Calvings during the year	0	50	50	50	50	50	50	50
Sale during the year	0	50	50	50	50	50	50	50
Closing stock of calves	0	0	0	0	0	0	0	0
Closing stock of heifers	50	50	50	50	50	50	50	50
Total capacity herd maintained	50	100	100	100	100	100	100	100

EMPLOYMENT GENERATION

Type of manpower	Monthly wages (Rs)	No of recruits	Annual costs (Rs)	Man-days/ year
Labourers	3000	3	108000	1095
Accountant-cum-clerk	6000	1	72000	365
Total		4	180000	1460

PROJECT COST

A. CAPITAL COST

<i>Articles</i>	<i>Unit</i>	<i>Physical units</i>	<i>Unit cost (Rs)</i>	<i>Total cost(Rs)</i>
Land development	acres	5.50	10000	55000
Barbed wire fencing of the premises	rft	1840	50	92000
Civil constructions				
For heifers	sft	1800	300	540000
For calves	sft	1200	300	360000
Sick animals' cum treatment shed	sft	80	300	24000
Calving box	sft	80	300	24000
Feed store cum weighing and mixing room	sft	750	450	337500
Office room	sft	160	450	72000
Manure pit	cft	800	99	79200
Azolla cultivation pit	cft	800	99	79200
Cost of equipments				
Dairy appliances (milk cans, buckets etc)	sets	100	100	10000
Chaff cutter (mechanical)	nos	2	25000	50000
Milk packaging equipments	nos	1	1300	1300
Cold storage equipment set	nos	1	25000	25000
Diesel operated generator set	nos	1	100000	100000
Office assets (table, chair, Almirah etc)	Lumpsum			20000
Equipments for fodder cultivation	Lumpsum			5000
Water supply system				
Deep bore well	nos	2	50000	100000
Pumpset	nos	2	7500	15000
Overhead tank	ltrs	3000	1	30000
Pipelines and fittings	Lumpsum			15000
Electrification				
Wiring	sft	4070	5	20350
General electrical appliances	sft	4070	8	32560
Total				2087110

B. RECURRING COST CAPITALIZED (FOR 1ST TWO YEARS)

<i>Articles</i>	<i>Unit</i>	<i>Physical units</i>	<i>Unit cost (Rs)</i>	<i>Total cost(Rs)</i>
<i>First year</i>				
Purchase of calves First batch	nos	50	5000	250000
Cost of feed First batch	nos	50	5895	294750
Insurance cost of animals first batch	nos	50	250	12500
Cost of fodder cultivation	acres	5	1500	7500
Medicines/ Veterinary aids	nos	50	1500.0	75000
Costs towards wages and salaries	<i>Reffer Page - 2</i>			180000
Electricity & fuel expenses	Lump sum			15000
Miscellaneous expenditures	Lump sum			18000
<i>Subtotal of first year</i>				<i>852750</i>
<i>Second year</i>				
Purchase of calves second batch	nos	50	5000	262500
Cost of feed First batch	nos	50	12394	650672
Cost of feed second batch	nos	50	5895	309488
Insurance cost of animals first batch	nos	50	1200	63000
Insurance cost of animals second batch	nos	50	250	13125
Cost of fodder cultivation	acres	5	1500	7875
Medicines/ Veterinary aids	nos	100	1500.0	157500
Costs towards wages and salaries	<i>Reffer Page - 2</i>			189000
Electricity & fuel expenses	Lump sum			31500
Miscellaneous expenditures	Lump sum			37800
<i>Subtotal of second year</i>				<i>1722460</i>
<i>TOTAL RECURRING COSTS FOR TWO YEARS</i>				<i>2575210</i>

C. TOTAL PROJECT COST

Sources of funds	Bank loan	Own funds	Total	% share of own funds
Capital cost =	1770000	317110	2087110	15.19%
Working capital for first year =	640000	212750	852750	24.95%
Working capital for second year =	1290000	432459.9	1722460	25.11%
Total Project cost (TFO) =	3700000	962319.9	4662320	20.64%

SUMMARY OF THE PROJECT

Scheme under which sponsored -	CAE
Total financial outlay (TFO) -	₹ 46,62,319.90
Loan component -	₹ 37,00,000.00
Beneficiary contribution -	₹ 9,62,319.90
Rate of interest applicable on TL -	12%
Rate of interest applicable on CC -	12%
Repayment period -	7
Grace period	1 year
Periodicity of repayment	Monthly
Repayment starts at the end of:	24 months
No of repayment installments	60
Rate of subsidy -	#N/A
Amount of subsidy available -	#N/A

ELABORATION OF COSTS

A. COST OF FEEDING OF ANIMALS

Sr No	Age in months	Type of ration	Period (days)	Daily feed consumption (Kg)					Cost of feed materials (Rs)				
				Conce ntrate	Green fodder	Dry fodder	Daily total	Grand total	Conce ntrate	Green fodder	Dry fodder	Daily total	Grand total
1	5-6	Maintainance	60	0.50	7.50	1.00	9.00	540	8.75	0.00	1.50	10.25	615
2	7-8	Maintainance	60	0.50	10.00	1.50	12.00	720	8.75	0.00	2.25	11.00	660
3	9-12	Maintainance	120	0.75	15.00	2.25	18.00	2160	13.13	0.00	3.38	16.50	1980
4	13-16	Maintainance	120	1.00	20.00	3.00	24.00	2880	17.50	0.00	4.50	22.00	2640
5	17-28	Maintainance	360	1.25	25.00	3.75	30.00	10800	21.88	0.00	5.63	27.50	9900
6	23-27	Pregnancy	150	0.75	0.00	0.00	0.75	112.5	13.13	0.00	0.00	13.13	1968.8
7	28	Lactation	30	1.00	0.00	0.00	1.00	30	17.50	0.00	0.00	17.50	525

ABSTRACTS

Quantity of concentrate feed consumed by each calf between 5 - 16 months age = 270 Kg

Quantity of concentrate feed consumed by each heifer between 17 - 28 months a = 593 Kg

Total quantity of concentrate feed consumed by each animal during two years = 863 Kg

Cost of feeding during first year per calf (5 - 16 months) = ₹ 5,895.00

Cost of feeding during second year per calf (17 - 28 months) = ₹ 12,393.75

Total cost of feeding for two years per calf (5 - 28 months) = ₹ 18,288.75

B. COST OF INSURANCE OF ANIMALS

Category	Age group (months)	No of animals	Valuation of each animal	Period of insurance	Rate of premium	Premium for each animal	Total premium
Calves	5 - 16	50	5000	1 year	5.00%	₹ 250.00	₹ 12,500.00
Heifers	17 - 28	50	24000	1 year	5.00%	₹ 1,200.00	₹ 60,000.00

C. SALE PROCEEDS OF GUNNY BAGS

YEARS	1	2	3	4	5	6	7	8
No of calves (5 - 16 months) reared during the year	50	50	50	50	50	50	50	50
No of heifers (17 - 28 months) reared during the year	0	50	50	50	50	50	50	50
Quantity of concentrate feed consumed by calves during the year (Kg)	13500	13500	13500	13500	13500	13500	13500	13500
Quantity of concentrate feed consumed by heifers during the year (Kg)	0	29625	29625	29625	29625	29625	29625	29625
Total quantity of concentrate feed consumed during the year (Kgs)	13500	43125	43125	43125	43125	43125	43125	43125
No of gunny bags of 50 kg capacity produced	270	863	863	863	863	863	863	863
Price of each gunny bag taking into account the hike in prices @ 5%	10.00	10.50	11.00	11.50	12.00	12.50	13.00	13.50
Sale proceeds of gunny bags (Rs)	2700	9062	9493	9925	10356	10788	11219	11651

ECONOMICS

YEAR	1	2	3	4	5	6	7	8
Price hike multiplication factor	1	1.05	1.1	1.15	1.2	1.25	1.3	1.35

EXPENDITURES

Variable costs

Purchase of calves	250000	262500	275000	287500	300000	312500	325000	337500
Cost of feeding of calves	294750	309488	324225	338963	353700	368438	383175	397913
Cost of feeding of heifers	0	650672	681656	712641	743625	774609	805594	836578
Medicines/ Veterinary aids	75000	157500	165000	172500	180000	187500	195000	202500
<i>Total variable costs</i>	<i>619750</i>	<i>1380159</i>	<i>1445881</i>	<i>1511603</i>	<i>1577325</i>	<i>1643047</i>	<i>1708769</i>	<i>1774491</i>

Fixed costs

Insurance cost of animals (calves)	12500	13125	13750	14375	15000	15625	16250	16875
Insurance cost of animals (heifers)	0	63000	66000	69000	72000	75000	78000	81000
Cost of fodder cultivation	7500	7875	8250	8625	9000	9375	9750	10125
Costs towards wages and salaries	180000	189000	198000	207000	216000	225000	234000	243000
Electricity & fuel expenses	15000	31500	33000	34500	36000	37500	39000	40500
Miscellaneous expenditures	18000	37800	39600	41400	43200	45000	46800	48600
<i>Total fixed costs</i>	<i>233000</i>	<i>342300</i>	<i>358600</i>	<i>374900</i>	<i>391200</i>	<i>407500</i>	<i>423800</i>	<i>440100</i>
<i>TOTAL EXPENSES</i>	<i>852750</i>	<i>1722459</i>	<i>1804481</i>	<i>1886503</i>	<i>1968525</i>	<i>2050547</i>	<i>2132569</i>	<i>2214591</i>

EARNINGS

Sale of cows	0	2520000	2640000	2760000	2880000	3000000	3120000	3240000
Sale of gunny bags	2700	9062	9493	9925	10356	10788	11219	11651
TOTAL EARNINGS	2700	2529062	2649493	2769925	2890356	3010788	3131219	3251651

DEPRICIATION SCHEDULE

Rs in lacs

As per Income Tax act in WDV method

Assets▼	Rate▼	Year►	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	
Civil Structures	10%	Basic cost	15.459	14.054	12.776	11.615	10.559	9.599	8.726	7.933	
		Factor	0.091	0.091	0.091	0.091	0.091	0.091	0.091	0.091	0.091
		Amount	1.405	1.278	1.161	1.056	0.960	0.873	0.793	0.721	0.650
Equipments & machinery	15%	Basic cost	3.063	2.663	2.316	2.014	1.751	1.523	1.324	1.151	
		Factor	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130
		Amount	0.400	0.347	0.302	0.263	0.228	0.199	0.173	0.150	0.128
Assets & fittings	15%	Basic cost	0.879	0.764	0.665	0.578	0.503	0.437	0.380	0.330	
		Factor	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130
		Amount	0.115	0.100	0.087	0.075	0.066	0.057	0.050	0.043	0.037
Basic cost of total fixed assets			19.401	17.482	15.757	14.207	12.813	11.559	10.430	9.415	
Total depreciation			1.920	1.725	1.550	1.394	1.254	1.128	1.016	0.914	
WDV of total fixed assets			17.482	15.757	14.207	12.813	11.559	10.430	9.415	8.500	

REPAYMENT SCHEDULE*Rs in lacs*

<i>Year</i>	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8
Term loan								
Principal outstanding	17.700	19.293	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Interest due	1.593	2.315	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
No of installments	0	0	12	12	12	12	12	0
Installment amount	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261
Repayment from installments	0.000	0.000	3.127	3.127	3.127	3.127	3.127	0.000
Subsidy adjusted to loan outstanding	0.000	#N/A	0.000	0.000	0.000	0.000	0.000	0.000
Interest repayment	0.000	2.315	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Principal repayment	0.000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Balance principal at the end	19.293	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A

N:B Interest for first year is assumed to be 75% of calculated amount keeping in view the phasewise disbursements of loan

Cash credit

Principal outstanding	6.400	12.900	12.900	12.900	12.900	12.900	12.900	12.900
Interest due	0.384	1.548	1.548	1.548	1.548	1.548	1.548	1.548

N:B Interest for first year is assumed to be 50% of calculated amount keeping in view the delayed disbursements of loan

BREAK-EVEN ANALYSIS*Rs in lacs*

Year	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8
Total sales	0.027	25.291	26.495	27.699	28.904	30.108	31.312	32.517
Fixed costs	2.330	3.423	3.586	3.749	3.912	4.075	4.238	4.401
Variable costs	6.198	13.802	14.459	15.116	15.773	16.430	17.088	17.745
Contribution	-6.171	11.489	12.036	12.583	13.130	13.677	14.225	14.772
Break even point	-37.76%	29.79%	29.79%	29.79%	29.79%	29.79%	29.79%	29.79%

Overall break - even point (8 years)

Sales	202.352
Fixed costs	29.714
Variable costs	116.610
Contribution	85.742
Break even point	34.66%

PROFIT - LOSS STATEMENT*Rs in lacs*

<i>Year</i>	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8
Total earnings	0.027	25.291	26.495	27.699	28.904	30.108	31.312	32.517
Expenditures	8.528	17.225	18.045	18.865	19.685	20.505	21.326	22.146
Preliminary expenses W/O	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184
Operating profit	-8.684	7.882	8.266	8.650	9.035	9.419	9.803	10.187
Depriciation	1.920	1.725	1.550	1.394	1.254	1.128	1.016	0.914
Earning before interest and tax	-10.604	6.158	6.716	7.257	7.781	8.290	8.787	9.272
Interest on TL	1.593	2.315	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Interest on CC	0.384	1.548	1.548	1.548	1.548	1.548	1.548	1.548
Earning before tax	-12.581	2.294	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Taxes due	0.000	0.000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Incentives from Government (subsidy)	0.000	#N/A	0.000	0.000	0.000	0.000	0.000	0.000
Net profit	-12.581	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Net cash accruals	-10.478	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
NCA plus TL interest	-8.885	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Principal repayment	0.000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Total repayment of TL	0.000	0.000	3.127	3.127	3.127	3.127	3.127	0.000
Debt service coverage ratio (DSCR)	--	--	#N/A	#N/A	#N/A	#N/A	#N/A	--

COST - BENEFIT ANALYSIS*Rs in lacs*

<i>Year</i>	<i>Y1</i>	<i>Y2</i>	<i>Y3</i>	<i>Y4</i>	<i>Y5</i>	<i>Y6</i>	<i>Y7</i>	<i>Y8</i>
Income	0.027	25.291	26.495	27.699	28.904	30.108	31.312	32.517
Project cost	20.871	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Recurring costs	8.528	17.225	18.045	18.865	19.685	20.505	21.326	22.146
Total costs	29.399	17.225	18.045	18.865	19.685	20.505	21.326	22.146
Net cash flow	-29.372	8.066	8.450	8.834	9.218	9.602	9.987	10.371
Cumulative cash flow	-29.372	-21.306	-12.855	-4.021	5.197	14.799	24.786	35.157
Discounting factor @ 12%	1.000	0.893	0.797	0.712	0.636	0.567	0.507	0.452
Discounted incomes	0.027	22.581	21.122	19.716	18.369	17.084	15.864	14.709
Discounted costs	29.399	15.379	14.385	13.428	12.510	11.635	10.804	10.018

Results

<u>Parametres</u>	<u>Values</u>	<u>Inference</u>
<i>Benefit-cost ratio (B.C.R.) =</i>	1.10	Feasible
<i>Net present worth (N.P.W.) in lacs =</i>	11.91	Feasible
<i>Pay-back period (P.B.P.) in years =</i>	3.86	Feasible
<i>Internal rate of return (I.R.R.) =</i>	23.34%	Feasible
<i>Profitability index (PI) =</i>	1.57	Feasible
<i>Overall DSCR</i>	#N/A	#N/A

CASH FLOW STATEMENT*Rs in lacs*

<i>Year</i>	<i>Y1</i>	<i>Y2</i>	<i>Y3</i>	<i>Y4</i>	<i>Y5</i>	<i>Y6</i>	<i>Y7</i>	<i>Y8</i>
Income	0.027	25.291	26.495	27.699	28.904	30.108	31.312	32.517
Expenditures	-8.528	-17.225	-18.045	-18.865	-19.685	-20.505	-21.326	-22.146
Tax payments				#N/A	#N/A	#N/A	#N/A	#N/A
Preliminary expenses	-1.470							
Creation of fixed assets	-19.401							
Term loan from bank	17.700							
CC limit	12.900	12.900	12.900	12.900	12.900	12.900	12.900	12.900
Repayment of term loan			-3.127	-3.127	-3.127	-3.127	-3.127	
Repayment of CC loan		-13.284	-14.448	-14.448	-14.448	-14.448	-14.448	-14.448
Owner's equity	9.623							
Total increase in cash	10.852	7.682	3.775	#N/A	#N/A	#N/A	#N/A	#N/A
Opening cash balance		8.852	14.534	15.809	#N/A	#N/A	#N/A	#N/A
Drawings	-2.000	-2.000	-2.500	-2.500	-2.500	-3.000	-3.500	-3.500
Closing cash balance	8.852	14.534	15.809	#N/A	#N/A	#N/A	#N/A	#N/A

PROJECTED BALANCE SHEET*Rs in lacs*

<i>Year</i>	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8
<u>Assets</u>								
WDV of Fixed assets	17.482	15.757	14.207	12.813	11.559	10.430	9.415	8.500
Cash and equivalents	8.852	14.534	15.809	#N/A	#N/A	#N/A	#N/A	#N/A
Preliminary expenses W/O	1.286	1.103	0.919	0.735	0.551	0.368	0.184	0.000
Total assets	27.619	31.393	30.934	#N/A	#N/A	#N/A	#N/A	#N/A

<u>Liabilities + Equity</u>								
Liabilities for CC loan	13.284	14.448	14.448	14.448	14.448	14.448	14.448	14.448
liabilities for term loan	19.293	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Tax liability	0.000	0.000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Capital	9.623	-4.958	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Net profit	-12.581	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Less: Drawings	-2.000	-2.000	-2.500	-2.500	-2.500	-3.000	-3.500	-3.500
Total liabilities+ equity	27.619	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A

SALVAGE VALUE

Rs in lacs

A. Fixed assets			
WDV as per depreciation schedule	=	₹	8.50
B. Animals in stock			
50 no of heifers @ Rs 24000 per heifer	=	₹	12.00

<i>Total salvage value at the end of eight years</i>	=	₹	20.50

CERTIFICATE

1. This project is prepared for xxxxxxxxxxxxxxxx of village , G.P. in block.
2. The prices mentioned in the project report is as per the prevailing market prices of the respective articles mentioned
3. The project is technically feasible and economically viable under proper care and management by the entrepreneur

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