Project Report of 20 Buffaloes

Assumptions:-

The Economics of Milch Animals has been worked out with following Assumptions:-

1. Cost of Buff. shall be Rs.60,000/-.
2. Lactation period of Buff. shall be 280 days.
3. About 200 liters of Milk shall be fed to each calf for three four months after calving.
4. It is assumed that there will be 80% calves with the animals purchased and 50% (female calves) available for sale after one year.
5. Average Milk Production per lactation of each Buff. shall be 3000 liters.
6. Average Sale price of milk Rs.35.00 per liters
7. Green Fodder Cost Rs.250/- per qtl.
8. Dry Fodder Rs.350/- per qtl.
9. Concentrates Cost Rs.2000/- per qtl.
10. Value of Manure/Animal/Year Rs.1000/-.
11. Labour charges shall be Rs.7000/- per labourer.
12. Appreciation in the value of Female Calf Rs.2000/-
13. Vety Aid @Rs.1500/- per animals shall be incurred.
14. it is assumed that electricity bill shall be Rs.10000/-PA.
15. Cost of Bellowing Tank/pond Rs.35000/-
16. Depreciation on Cattle Shed @5% & Machinery 10%.
17. Insurance @ 7.50.
18. Rate of Interest @ 12.50% P.A.
19. Cost of Construction of Cattle Shed Rs.350000/-.
20. Cost of Silo pit 50000/-.
21. Cost of cooling system 12000/-.
22. 10 Milch Animals.
23. The daily allowances of green fodder, dry fodder and concentrates for milch animals/calves per day shall be as follow:-

	Green Fodder	Dry Fodder	Concentrates
	Kg	kg	kg
Lactation period	40	3	2.5
Dry period	30	5	3
Young Stock	15	1	1

Techno-Economics of 20 Buffaloes

				(Rs.)
A.	**Capital Expenditure**			
	i.	Cost of 20 buff. @ 60000/buff.	=	12,00,000
	ii.	Cost of Cattle shed	=	5,50,000
	iii.	Four Silo Tower	=	2,00,000
	iv.	Cost of utensils	=	10,000
	v.	Submersible Pump	=	50,000
	vi.	Milking Machine	=	60,000
				20,20,000
B.	**Fixed Expenditure Annual:-**			
	i.	Interest on Capital @ 12% P.A	=	2,42,400
	ii.	Insurance Charges 7.5% P.A. (To be borne by PDDB)	=	1,51,500
	ii.	Depreciation in Cattle Shed @5%	=	25,000
	vi.	Depreciation on machinery @10%	=	62,000
				4,80,900

C. Recurring Expenditure:-

Feeding Cost of 20 Buffaloes:-

a. Green fodder:

i.	Lactation period	$\frac{300X40X20X250}{100}$	6,00,000
ii.	Dry period	$\frac{65X20X30X250}{100}$	97,500
			6,97,500

b. Dry fodder

i.	Lactation period	$\frac{300X20X2.50X20}{100}$	52,500
i.	Dry period	$\frac{65X20X3.50X350}{100}$	15,925
			68,425

c. Concentrates:-

i.	Lactation period	$\frac{300X20X2X2000}{100}$	2,40,000
ii.	Dry period	$\frac{65X2000X20X1}{100}$	26,000
			2,66,000

(1+2+3)=697500+68425+266000=1031925

D. Feeding cost of 6 Calves:-

i.	Cost of Milk feeding (200 litres of milk per calf) for first three months @ 35/Kg milk.		=	84,000
ii.	Green fodder	= $\frac{240X250X12X15}{100}$	=	72,000
iii.	Dry fodder	= $\frac{240X350X12X1}{100}$	=	10,080
iv.	Concentrates	= $\frac{240X12X1X2000}{100}$	=	57,600
				2,23,680

E. Misc. Expenses:-

i.	Elec. Charges	=	10,000
ii.	Vety. Aid	=	35,000
iii.	labour Chargs 7000/- PM	=	84,000
			1,29,000

Total Recurring Expenditure
(1+2+3)=1031925+223680+129000 = 1382605

Total Expenditure = 480900+1384605=1865505

INCOME

I.	Sale of Milk	=	21,00,000
II.	Sale of Young Calves	=	2,40,000
iii.	Value of Manure	=	20,000
	Total	**=**	**23,60,000**

Profit

Income	=	23,60,000
Expenditure	=	18,65,505
Annual Profit	=	4,94,995
Monthly Profit	=	41,207
Profit per Animal PM	=	2,060
Cost of Milk Production	=	Rs.31.09 Per litre