Project Report of 10 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.
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:

<table>
<thead>
<tr>
<th></th>
<th>Green Fodder</th>
<th>Dry Fodder</th>
<th>Concentrates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lactation period</td>
<td>40</td>
<td>3</td>
<td>2.5</td>
</tr>
<tr>
<td>Dry period</td>
<td>30</td>
<td>5</td>
<td>3</td>
</tr>
<tr>
<td>Young Stock</td>
<td>15</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>
Techno-Economics of 10 Buffaloes

A. Capital Expenditure (Rs.)
   i. Cost of 10 buff. @ 60000/buff. = 6,00,000
   ii. Cost of Cattle shed including = 3,50,000
   iii. Silo pit = 50,000
   iv. Cost of utensils = 10,000
   **10,10,000**

B. Fixed Expenditure Annual:--
   i. Interest on Capital @ 12.50% P.A = 1,26,250
   ii. Depreciation in Cattle Shed @5% = 17,500
   iii. Insurance Charges 7.5% P.A. (To be borne by PDDB) = 45,000
   **1,88,750**

C. Recurring Expenditure:--

Feeding Cost of 10 Buffaloes:--

a. **Green fodder:**
   i. Lactation period $\frac{300\times40\times10\times250}{100}$ = 3,00,000
   ii. Dry period $\frac{65\times10\times30\times250}{100}$ = 48,750
   **3,48,750**

b. **Dry fodder**
   i. Lactation period $\frac{300\times10\times3\times350}{100}$ = 31,500
   ii. Dry period $\frac{65\times10\times5\times350}{100}$ = 11,375
   **40,600**

c. **Concentrates:**
   i. Lactation period $\frac{300\times10\times2.5\times2000}{100\times10}$ = 1,50,000
   ii. Dry period $\frac{65\times2000\times10\times3}{100}$ = 39,000
   **1,89,000**

\[(1+2+3)=348750+40600+189000=578350\]

D. **Feeding cost of 5 Calves:**

   i. Cost of Milk feeding (200 litres of milk per calf) = 42,000
      for first three months @ 35/Kg milk.
   ii. Green fodder $\frac{240\times250\times6\times15}{100}$ = 54,000
   iii. Dry fodder $\frac{240\times350\times6\times1}{100}$ = 5,040
   iv. Concentrates $\frac{240\times6\times1\times2000}{100}$ = 28,800
   **1,29,840**

E. **Misc. Expenses:**

   i. Elec. Charges = 10,000
   ii. Vety. Aid = 15,000
   iii. labour Charges 7000/- PM = 84,000
   **1,09,000**
Total Recurring Expenditure
(1+2+3)=578350+129840+109000

Fixed Expenditure = 1,69,375
Recurring Expenditure = 5,84,625
Feeding Cost of young Calves = 1,21,374
Misc. Expenditure = 1,26,000
= 10,01,374

INCOME

I.  Sale of Milk = 10,50,000
II. Sale of Young Calves = 1,20,000
iii. Value of Manure = 10,000

Total = 11,80,000

Profit

Income = 11,80,000
Expenditure = 10,05,940
Annual Profit = 1,74,060
Monthly Profit = 14,505
Profit per Animal PM = 1,450
Cost of Milk Production = Rs.33.53 Per litre