



Think Dairy

Think big...
Start small...
Act Now...

Commercial Dairy Farming From 100 to 500 Cattle Heads

SURUCHI CONSULTANTS
SINCE (1990)
AN ISO 9001:2008 COMPANY



Learning Document 2015





Commercial Dairy Farming

Dairy Scenario in India

Milk production in India has considerably increased since independence and today our country stands at first position in world in volume of milk production. The milk procurement, processing and distribution operations have also expanded over the years with the organized sector playing an effective role.

But as evident from sharp rises in milk prices in last few years, the demand for milk has been increasing with faster rate, and the gap between demand and supply is widening and therefore there is an emphasis on increasing milk production by Govt through animal genetics and improving fodder availability.

Although there are a number of milk brands on national and regional levels supplying large volumes of good quality milk through a large distribution network, still we find a segment of health conscious urban consumer who is not finding the freshness and purity that he expects from milk and milk products. His quality needs is remaining unsatisfied, we find many consumers visiting some dairy farmers who are located at the city corners, traveling long distance and paying a premium price in search of quality and freshness.

Opportunities ahead

The unsatisfied demands of the urban consumer can be met through scientifically managed commercial dairy farms. It is observed that local needs of consumers can be met through local supplies which reduce the time loss in procurement, processing and distribution of milk resulting in preserving the fresh quality by stopping the microbial spoilage immediately at the production point. The logistics cost involved in procurement of raw milk and distribution of finished product can also be kept under control in this way.

Commercial Dairy farm is a solution for ensuring good farm fresh quality to the urban consumer. With the intervention of technology and Dairy Farm Management Practices it is possible to improve farm productivity and reducing cost of milk production, making this activity a profitable business venture.

We ensure the hygienic milk production and good farm productivity through Livestock production Management Techniques on Feed & Fodder Management, Breeding Management, Health Management, milk production management, calf & Heifer management.

Land Requirements

For Shed & Utilities

Farm Size	Minimum Requirement
100 animals	1.5 acre
200 animals	3.0 acre
500 animals	7.5 acre

For green fodder: You need to arrange 1 acre of land per 5 milch animals

* These are the minimum requirements for commercial dairy farming but may vary depending upon location, type of animals and level of expansion to be achieved in the same premises. Preferably it should be set up in a natural environment within fertile agri cultural zone having good quality of water.

Electric and Water Requirements

Farm Size	Electricity	Drinking Water	Washing & Cleaning Water
100 animals	20kVA	4000 lit	8000 lit
200 animals	30kVA	8000 lit	12000 lit
500 animals	50kVA	2000 lit	20000 lit

Bio Gas Potential

Farm Size	Bio Gas per day
100 animals	30-40 cu m
200 animals	60-80 cu m
500 animals	150-200 cu m

These are the minimum requirements for commercial dairy farming but may vary depending upon location, type of animals and level of expansion to be achieved in the same premises.

Value addition

An ROI more than 20% with automatic capital appreciation is ensured with our Dairy Farm Management Support System. We set up up integrated dairy farms with 100, 200& 500 milch animals supported with corresponding modular processing plants with capacities 1000lpd exp to 2000lpd, 2000lpd exp to 5000lpd and 5000lpd exp to 10000lpd respectively that process the milk at farm itself removing the time lag between milk production and milk processing that conserves the fresh quality of milk.

Value Proposition

Our basic model offers milk reception, weighing, filtration, storage, pasteurization with heating and chilling systems, cream separation, packing machine and cold storage with mini QC lab and other critical miscellaneous fixed assets. All our equipment are manufactured under our stringent quality assurance systems based on our robust designs at our captive and other vendor's site all over the country. Most of our vendor's are of global repute and have over decades of experience in serving the industry. We are amongst very few dairy plant integrator in the world with a unique ISO 9001 registration from training, designing, manufacturing, supplying, installing and commissioning. We have an ever growing network of service provider and project coordinators with long experience in the industry.

Homogenizers, butter and ghee making plant, bulk milk coolers and DG set are offered as an optional items and are excluded from standard offers.



Engagement Protocol

What you get as valued customer from us

- The first step on the project is to conduct a feasibility/viability study of the project site on behalf of client, based on findings of the study we suggest a suitable functional model for that site and draw a bankable DPR which is the primary document required for project financing by banks. Thereafter we provide structured consultancy support We propose to provide complete consultancy support in setting up functionally viable commercial dairy through following the process as detailed earlier.

We also offer client specific customized consultancy activities on clients request such as:

1. Upgradation of existing livestock
2. Evaluation of existing farm to enhance productivity
3. Manpower planning and solution
4. Project financing
5. Sustainability of charitable Gausshalas etc.

The total cost of a commercial dairy farm may vary from Rs 150000.00 per animal to Rs 300000.00 per animal depending upon multiple variables like types of animals, level of automation and types of revenue generation activities. This investment however is exclusive of land procurement cost.

The Process :- Activity Schedule for advisory as well as turnkey project integrator

1. Attending one day workshop on commercial dairy farming.
2. Assessment of site suitability for dairy farming.
3. Complete pre feasibility study of climate, water availability, soil, road connectivity, electric power & drainage: animal rearing pattern in the area, fodder crop pattern, existing infrastructure for veterinary aid, market consumption & milk prices prevalent in the area & to draft a feasibility report.
4. To prepare a detailed project report for funding of the project from the bank.
5. To provide guidelines on the type of cattle / milch animals suitable for the area and to help in judging, selection sourcing of animals by providing necessary training and support.
6. Designing of dairy shed and utilities under Indian conditions & to guide the client / contractor in creating the structure which aims at cost reduction, maintaining farm hygiene, facilitate animal movement, reduction of labor cost.
7. Help the client in sourcing of equipment of milk handling, manure handling, feed & fodder handling.
8. Design feed and fodder management program for the dairy farm, developing a schedule of green fodder cultivation, processing and feeding system. Guide the client in silage making, develop a feeding schedule for the farm, formulate economic ration that aims at balancing between feeding cost reduction and fulfilling animal nutritional requirements, developing nutritional chart for different age group of animals.
9. Develop a breeding policy that aims at bringing herd improvement through tapping of genetic potential of high yielding animals. Exploring import of semen of high pedigree progeny tested bulls of HF & Jersey for farm/sale to other farms. Designing methods that aim at bringing reproductive efficiency and reducing infertility in animals.
10. Developing young stock rearing program that aims to get replacement stock in least possible time.
11. Developing a system for managing dry and pregnant animals to get maximum yield from them in subsequent lactation.
12. Develop a system of animal comfort to increase animal productivity.
13. Develop a system of animal health care and preventive health measures.
14. To conduct man power training program that aims at efficient dairy farm management.
15. To develop a waste management system such as Bio Gas generation, compost making & vermin-composting.
16. To develop a system of clean and hygienic milk production.
17. To develop farm quality assurance standards.
18. To develop milk marketing plans.
19. Networking & liaisoning with government & financial institutions for funding, insurance & subsidy wherever applicable
20. Conducting productivity audit and suggest remedial measures for improvement.

Dairy Project Advisory Services

Target	Module	Deliverables
New Projects	Navigator	Site selection/suitability report Raw milk potential area report Potential market report Technology suitability report Channel selection report
New Projects	Simulator	Technical prefeasibility report Commercial prefeasibility report Techno-commercial feasibility report for banks
New Projects	Drawing board	Site layout Plant and machinery layout Process layout P&I diagrams Masterplan Process and piping layouts Drainage and Effluent layout Civil and structural drawings Electrical and cabling drawings Utilities layout Project timeline charts
New Projects	Accerelator	Tender documents for complete plant Comparative of offers Order processing and supply agreements Onsite /vendor site inspection Supervising erection and installation Supervising commissioning Supervising project stabilization
New/Existing Projects seeking expansion or diversification	Integrator	Buying from multiple vendors Integration services of all the vendor in a project Turnkey direct supplies
Existing Projects seeking expansion or diversification or acquisition	Assessor	Due diligence reports on - Technology - Capital expenditure - Operational cost - Quality capability - Manpower capability - Market - Raw milk procurement potential - Viability assessment
New/Existing Projects seeking expansion or diversification	Motivator	Mentoring and capacity building for - Top management - Middle management - Operator in different sections - Food safety coaching and manual preparation - Functional areas - SOP and manual development - Export Inspection certification - Profit making

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