

Application for assistance for establishing
500 + 25 Goats breeder unit
under
Entrepreneurship development program
of NLM

Submitted to :

Submitted by :

Project Report prepared by

Project Report on 500 + 25 Goats Unit

Sl.no	Parameter	Details			
1	Species	Goats			
2	Breed	Osmanabadi			
3	Unit type	Breeder unit			
4	Purpose	Meat production			
5	Breeders M : F	01:20			
6	Age of procurement	Male	18-24 months (2-4 teethed)		
		Female	12-18 months age (2 teethed)		
7	Type of farming	Zerograzing (Stall feeding)			
8	Type of housing	Pucca & Ground level			
9	Feeding system	Cut & Carry system			
10	Feed & fodder	Own cultivation			
11	Floor space required & Shed size	12 sft per Does	12 X 500	6000	11000
		6 sft per weaning	6 X 750	4500	
		20 sft per Buck	20 X 25	500	
12	Open paddock	Double the area of shaded area (min)			
13	Land required (Refer page 6)	for Sheds # 1 Acre (Preferably own)			
		for fodder cultivation # 11 Acres (Own or leased)			
		Total land required 12 acres (1 + 11)			
14	Labour required	5 pair @ residential			
15	Vety technician cum supervisor	One qualified Vety.Assistant			
16	Unit gestation period	12 months			

Abstract of Project Cost

Cost of Animals	4900000
Equipment cost	627500
Housing and other civil works cost	3660000
Transport cost	105000
Fodder cultivation	495000
Insurane cost (1st year)	196000

Total

9983500

Means of finance

Subsidy 50 % from NLM	4991750	
Balance finance	Bank	4991750
	Self	0
Total	9983500	

(a) Animal costs

Details			Unit number	Cost (Rs)	Total cost (Rs)
1	Adult Does	12-18 months age (2 teathed) 30 Kgs Bwt X Rs 300	500	9000	4500000
2	Adult Buck	18-24 months (2-4 teathed) 40 kgs Bwt X Rs 400	25	16000	400000
(a) Total Rs					4900000

(b) Equipment required & Costs

Details			Unit number	Cost (Rs)	Total
1	Feeders	1 per 10	50	4000	200000
2	Waterers	1 per 10	50	4000	200000
3	Pulveriser	1	1	50000	50000
4	Chaffcutter	1	1	1,00,000	100000
5	Misc., equipment like weighing scale, Castrator, Tag applicator, spade, manure holders etc @ Rs 100 per animal		525	52500	52500
6	Refrigerator		1	25000	25000
(b) Total Rs					627500

(c) Housing details & costs

Details			Unit number	Cost (Rs)	Total cost (Rs)
1	Shed (Does. Bucks & Kids) (Ground shed) Cost includes open paddock fencing cost	6000 sft + 4500 sft + 500 sft	11000	300	3300000
2	Labour rooms (5)	100 Sft X 5	500	200	100000
3	Feed godown	500 Sft	500	200	100000
4	Quarantine/sick	200 Sft	200	200	40000
5	Chaff cutter & Chopping room	200 Sft	200	200	40000
6	Supervisor Room	200 sft	200	200	40000
7	Medicines Room	200 sft	200	200	40000
(c) Total (Rs)					3660000

Total (a + b + c) 9187500

(d) Transport of Animals from procurement place @ 200 per animal (525 X Rs 200)	105000
(e) fodder cultivation cost @ Rs 45000 /acre/Year/ 11 acres	495000
(f) Insurance of animals @ 4 % pa (49,00000 X 4%)	196000

Total (a + b + c + d + e + f) 9983500

Working capital for 12 months

Details		Unit	Months	Total	
1	Labour salary @ Rs 15000 pm X 5 pair	75000	12	900000	
2	Technician cum Supervisor	25000	12	300000	
3	Feding cost of female adults (for 12 months) Per day feeding cost @ Rs 11.26 (Per month @ Rs 338)	Rs 338 X 500 Does X 12 months	169000	12	2028000
4	Feding cost of male adults (for 12 months) Per day feeding cost @ Rs 14.48 (Per month @ Rs 435)	Rs 435 X 25 X 12months	10875	12	130500
5	Feeding cost of Kids (675 Kids/cycle) per day feeding cost Rs 6.7 from 45th day to 180 th day (135 days)	135 days X 675 kids X Rs 6.7	135675	4.5	610538
6	Creep feed from 15th day to 45 th day (30 Days)	30 days X 675 Kids X Rs 3 per day	60750	1	60750
7	Vety aid & Miscellaneous @ Rs 100 per month x 525 Goats	Rs 100 X 525 Goats X 12 months	52500	12	630000
8	Lease land rent (if applicable)	0	0	0	
Total (Rs)				4659788	

Working capital for 8 months

Details		Unit	Months	Total	
1	Labour salary @ Rs 15000 pm X 5 pair	75000	8	600000	
2	Technician cum Supervisor	25000	8	200000	
3	Feeding cost of female adults (for 12 months) Per day feeding cost @ Rs 11.26 (Per month @ Rs 338)	Rs 338 X 500 Sheep X 12 months	169000	8	1352000
4	Feeding cost of male adults (for 12 months) Per day feeding cost @ Rs 14.48 (Per month @ Rs 435)	Rs 435 X 25 X 12months	10875	8	87000
5	Feeding cost of Kids (675 Kids/cycle) per day feeding cost Rs 6.7 from 45th day to 180 th day (135 days)	135 days X 675 Kids X Rs 6.7	135675	4.5	610538
6	Creep feed from 15th day to 45 th day (30 Days)	30 days X 675 Kids X Rs 3 per day	60750	1	60750
7	Vety aid & Miscellaneous @ Rs 100 per month x 525 Goats	Rs 100 X 525 Goats X 12 months	52500	8	420000
8	Lease land rent (if applicable)	0	0	0	
Total (Rs)				3330288	

Estimated per day feeding cost

Per day feeding cost of breeder Does

Feed type		Avg Bwt of adult	Requirement			Cost per kg	Tota cost (Rs)
			Dry/ Green	DM %	Per day requirement (Kgs)		
1	NL @ 2.5 % of Bwt	35	Green	30%	2.9	0.5	1.46
2	Legume @ 1.5% of Bwt	35	Cultivated green	25%	2.1	0.5	1.05
3	Concentrate feed @ 1 % of Bwt	35	Home made	90%	0.35	25	8.75
Total feeding cost per day /female adult							11.26

Per day feeding cost of breeding Buck

Feed type		Avg Bwt of adult	Requirement			Cost per kg	Tota cost (Rs)
			Dry/ Green	DM %	Per day requirement (Kgs)		
1	NL @2.5 % of Bwt	45	Green	30%	3.8	0.5	1.88
2	Legume @ 1.5% of Bwt	45	Cultivated green	25%	2.7	0.5	1.35
3	Concentrate feed @ 1 % of Bwt	45	Home made	90%	0.45	25	11.25
Total feeding cost per day /male adult							14.48

Per day feeding cost of Kidss (45 th day to 180 days)

Feed type		Avg Bwt of Kids	Requirement			Cost per kg	Tota cost (Rs)
			Dry/ Green	DM %	Per day requirement (Kgs)		
1	NL @2.5 % of Bwt	15	Green	30%	1.25	0.5	0.6
2	Legume @ 1.5% of Bwt	15	Cultivated green	25%	0.90	0.5	0.5
3	Concentrate feed @ 1.5 % of Bwt	15	Home made	90%	0.225	25	5.6
Total feeding cost per day /lamb							6.70

Creep feed # Feeding cost # Preruminant stage (15 - 45th day)

Feed type		Avg Bwt of Kids	Requirement			Cost per kg	Tota cost (Rs)
			Dry/ Green	DM %	Per day requirement (Kgs)		
1	Concentrate feed @ 2 % of Bwt	4	Home made dry	90%	0.1	30	3.0

Average body weight of Kids from 45th day to slaughter is considered as 15 kgs

Feed & fodder required per year for 500 + 25 Unit

Female breeders

Type	Unit number	Requirement		
		Per day Kgs	per month (MT)	Per year (MT)
NL	500	2.9	43.5	522.0
Legume		2.1	31.5	378.0
Conc.feed		0.35	5.25	63.0

Male breeders

Type	Unit number	Requirement		
		Per day Kgs	per month (MT)	Per year (MT)
NL	25	3.8	2.85	34.2
Legume		2.7	2.025	24.3
Conc.feed		0.45	0.3375	4.1

Kids

Type	Unit number	Requirement			
		Per day Kgs	per month (MT)	for 135 days (MT)	Year (X 1.5)
NL	450	1.25	16.875	202.5	303.8
Legume		0.9	12.15	145.8	218.7
Conc.feed		0.225	3	36.5	54.7
creep feed	450	0.1	1.35	1.35	2.025

Average body weight of Kids from 45th day to slaughter is considered as 15 kgs

Total requirement (in MTs) per year

1	Non-Legume	860	Plus 10 % advised
2	Legume	621	
3	Conc. feed	122	
4	Creep feed	2.025	

Land required for cultivation of fodders

Type of fodder	Acres to be cultivated	Type of fodder suggested	Assumption
Non legume cultivation	6	Bajra multi cut	Annual yield 150 MTs per acre (Min)
Legume cultivation	5	Sweet Potato	Annual yield 150 MTs per acre (Min)

Assumptions

All females conceived within first one month after arriving in farm (few may be already carrying early pregnancy at procurement time)	
% of conception	90%
first Kidding month at farm	6 th month
Breeding cycle length	8 months
Kids born per Kidding from each ewe	1.5 (50 % twinning)
Male : female ratio of new born	equal @ 1 : 1
Mortality in Kids	5% from birth to sale
Mortality in adults	4% per breeding cycle
Culling of adult females	5 % per breeding cycle
Replacement of adult male	Once in 2 years
	Purchased from out side
Replacement of culled females	Made with farm born Kids
No of Kids available for sale in each breeding cycle	595 (Explained below)
Birth weight of Kids	1.7 kgs
ADG	130 gms per day
Weight of Kids after 6 months age including birth weight	25 kgs Rounded off (23.4 + 1.7)
first sale month after start of farm	12 th month (thereafter once in 8 months)
Sale price of Kids @ Rs 350 X 25 kgs	8750
Sale price of culled females Rs 300 X 35 kgs	10500
Sale price of Replaced males @ 350 x 40 Kgs	14000
Manure production from each adult including Kids per breeding cycle	144 kgs (600 gms per day x 240 days)
Sale price of manure	Rs 2 per Kg
Income from manure from each adult + Kids per breeding cycle	Rs 288
Feeding cost (Estimated)	Refer page 5

Kids available for sale per breeding cycle

Details	Male	female
Kids born	337	338
Mortality of Kids 5 % of 337	-17	-18
Replacement of culled females (5 % of 500)	0	-25
Replacement of adult female mortality (4% of 500)	0	-20

Kids available for sale in each cycle	320	275
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Total Kids available for sale in each breeding cycle	595
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Flock flow Chart 500+25 Goat breeding unit

Sl.No	Parameter	Opening Stock	Months																							
			6	12	14	20	22	24	28	30	36	38	44	46	48	52	54	60	62	68	70	72	76	78	84	
Flock Size																										
1	Flock size	Male	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	
		female	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Births - Mortality - Replacement of Culled females																										
1	Kids Born	Male	337		337		337			337		337			337		337		337			337			337	
		Female	338		338		338			338		338		338			338		338		338			338		338
2	Mortality	Kids		35		35			35		35			35		35		35		35			35		35	
		Adults		20		20			20		20			20		20		20		20			20		20	
3	Replacement of Culled females with farm born female Kids		25		25		25			25		25			25		25		25			25		25		
Sales																										
1	Kids sold	Male		320		320			320		320			320		320		320		320			320		320	
		Female		275		275			275		275		275			275		275		275			275		275	
2	Sale of Breeder Buck (Replacement)						25							25								25				
3	Sale of culled females		25		25			25		25		25			25		25		25			25		25		
Purchases																										
1	Purchase of Breeder Bucks						25							25								25				

Gross Income - Expenditure - Net income statement

Sl.No	Parameter	Months												
		12	20	24	28	36	44	48	52	60	68	72	76	84
Gross income														
1	Sale of Kids	5206250	5206250		5206250	5206250	5206250		5206250	5206250	5206250		5206250	5206250
2	Sale of Replaced Breeder Buck			350000				350000				350000		
3	Sale of Culled females	262500	262500		262500	262500	262500		262500	262500	262500		262500	262500
4	Sale of Manure	226800	151200		151200	151200	151200		151200	151200	151200		151200	151200
Total		5695550	5619950	350000	5619950	5619950	5619950	350000	5619950	5619950	5619950	350000	5619950	5619950
Expenditure														
1	Purchase of breeder Bucks			400000				400000				400000		
2	Working capital	4659788	3330288		3330288	3330288	3330288		3330288	3330288	3330288		3330288	3330288
3	Insurance @ 4 % pa			196000		196000		196000		196000		196000		196000
4	Transport cost of purcased breeding Bucks			5000				5000				5000		
Total		4659788	3330288	601000	3330288	3526288	3330288	601000	3330288	3526288	3330288	601000	3330288	3526288
Net income (before loan repayment)														
		1035762	2289662	-251000	2289662	2093662	2289662	-251000	2289662	2093662	2289662	-251000	2289662	2093662

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| 1. First sales is done in 12 th month. Thereafter sales considered every 8 months |
| 2. Working capital # first year for 12 months & thereafter every 8 months (Each breeding cycle wise) |