

DPR on establishing
100 + 5 Sheep breeding unit
under National Livestock Mission

Submitted to :

Submitted by :

Project Report prepared by

Project Report on 100 + 5 Sheep Breeding Unit

Sl.no	Parameter	Details			
1	Species	Sheep			
2	Breed	Nellore Brown			
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 teathed)		
		Female	12-18 months age (2 teathed)		
7	Type of farming	Zerograzing (Stall feeding)			
8	Type of housing	Pucca & Ground level			
9	Feeding system	Dry-TMR system (No Agr.land is required for cultivation of fodder)			
10	Feed & fodder	Self procuremnt and farm made			
11	Floor space required & Shed size	9 Sft per Ewes	9 X 100	900	1600
		6 Sft per lamb	6 X 100	600	
		20 Sft per Ram	20 X 5	100	
12	Open paddock	Double the area of shaded area (min)			
13	Land required	for Sheds + Open area # 1600 Sq.ft (Preferably own)			
		for labour & fodder store 550 Sq.ft			
		Total land required 2150 Sft + another 2150 sft for passages and move around place (Max 500 Sq.Yards)			
14	Labour required	Beneficiary is the labour			
15	Vety services	from local Veterinary Hospital as and when required			
16	Unit gestation period	12 months			

Abstract of Project Cost

a	Cost of Animals	1290000
b	Equipment cost	113000
c	Housing and other civil works cost	720000
d	Transport cost	25000
e	Insurane cost (1st year)	51600

Total Project Cost	2199600
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Means of finance

Subsidy 50 % from NLM	1000000
Non-Subsidy part	1199600
Total Project cost	2199600

Non-Subsidy part	Bank	1079640
	Beneficiary Margin money @ min 10 % of Non-Subsidy part	119960
Total non- subsidy part		1199600

(a) Animal costs

Details			Unit number	Cost (Rs)	Total cost (Rs)
1	Adult Ewes	12-18 months age (2 teathed) 30 Kgs Bwt X Rs 400	100	12000	1200000
2	Adult Ram	18-24 months (2-4 teathed) 40 kgs Bwt X Rs 450	5	18000	90000
(a) Total Rs					1290000

Note : Present Animal cost of Telangana & AP state is considered

(b) Equipment required & Costs

Details			Unit number	Cost (Rs)	Total
1	Feeders	1 per 10	10	2500	25000
2	Waterers	1 per 10	10	750	7500
3	Chaffcutter cum Pulveriser	1	1	50000	50000
4	Refrigerator	1	1	20000	20000
	Misc., equipment like weighing scale, Castrator, Tag applicator, spade, manure holders etc @ Rs 100 per animal		105	10500	10500
(b) Total Rs					113000

(c) Housing details & costs

Details			Unit number	Cost (Rs)	Total cost (Rs)
1	Shed (Ewes, Rams & Lambs) (Ground shed) Cost includes open paddock fencing cost	900 Sft + 600 sft + 100 sft = 1600 sft	1600	400	640000
2	Beneficiary /Labour rooms	100 Sft	100	200	20000
3	Feed store	100 Sft	100	200	20000
4	Quarantine/sick	100 Sft	100	200	20000
5	Chaff cutter & Chopping room	100 Sft	100	200	20000
(c) Total (Rs)					720000

Total (a + b + c)	2123000
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(d) Transport of Animals from procurement place @ 200 per animal (125 X Rs 200)	25000
(e) Insurance of animals @ 4 % pa (12,90000 X 4%)	51600

Total (a + b + c + d + e)	2199600
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Working capital for 12 months

Details		Unit	Months	Total	
1	Feding cost of female adults (for 12 months) Per day feeding cost @ Rs 10.70 (Per month @ Rs 321)	Rs 321 X 100 Sheep X 12 months	32100	12	385200
2	Feding cost of male adults (for 12 months) Per day feeding cost @ Rs 13.75 (Per month @ Rs 412.5)	Rs 412.5 X 5 Rams X 12months	2062.5	12	24750
3	Feeding cost of lambs (90 lambs/cycle) per day feeding cost Rs 7.7 from 45th day to 180 th day (135 days)	135 days X 90 lambs X Rs 7.7	20790	4.5	93555
4	Creep feed from 15th day to 45 th day (30 Days)	30 days X 90 lambs X Rs 3 per day	8100	1	8100
5	Vety aid & Miscellaneous @ Rs 30 per month x 105 Sheep	Rs 30 X 105 Sheep X 12 months	3150	12	37800
Total (Rs)					549405

Working capital for 8 months

Details		Unit	Months	Total	
1	Feding cost of female adults (for 8 months) Per day feeding cost @ Rs 10.70 (per month @ Rs 321)	Rs 321 X 100 Sheep X 8 months	32100	8	256800
2	Feding cost of male adults (for 8 months) Per day feeding cost @ Rs 13.75 (Per month @ Rs 412.5)	Rs 412.5 X 5 Rams X 8 months	2062.5	8	16500
3	Feeding cost of lambs (90 lambs/cycle) per day feeding cost Rs 7.70 from 45th day to 180 th day (135 days)	135 days X 90 lambs X Rs 7.7	20790	4.5	93555
4	Creep feed from 15th day to 45 th day (30 Days)	30 days X 90 lambs X Rs 3 per day	8100	1	8100
5	Vety aid & Miscellaneous @ Rs 30 per month x 105 Sheep	Rs 30 X 105 Sheep X 8 months	3150	8	25200
Total (Rs)					400155

Estimated per day feeding cost

Per day feeding cost of breeder ewes

Feed type		Avg Bwt of adult	Requirement			Cost per kg	Tota cost (Rs)
			Dry/ Green	DM %	Per day requirement (Kgs)		
1	Roughage @3 % of Bwt	35	Pulse crop residue	90%	1.2	5	5.83
2	Concentrate feed @ 0.5 % of Bwt	35	Home made	90%	0.2	25	4.86
Total feeding cost per day /female adult							10.69

Per day feeding cost of breeding Ram

Feed type		Avg Bwt of adult	Requirement			Cost per kg	Tota cost (Rs)
			Dry/ Green	DM %	Per day requirement (Kgs)		
1	Roughage @3 % of Bwt	45	Pulse crop residue	90%	1.5	5	7.50
3	Concentrate feed @ 0.5 % of Bwt	45	Home made	90%	0.250	25	6.25
Total feeding cost per day /male adult							13.75

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

Feed type		Avg Bwt of lamb	Requirement			Cost per kg	Tota cost (Rs)
			Dry/ Green	DM %	Per day requirement (Kgs)		
1	Roughage @2.5 % of Bwt	15	Pulse crop residue	90%	0.42	5	2.1
3	Concentrate feed @ 1.5 % of Bwt	15	Home made	90%	0.225	25	5.6
Total feeding cost per day /lamb							7.71

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

Feed type		Avg Bwt of lamb	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 lamb from 45th day to slaughter is considered as 15 kgs

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 lambing month at farm	6 th month
Breeding cycle length	8 months
Lambs born per lambing from each ewe	1
Male : female ratio of new born	equal @ 1 : 1
Mortality in lambs	4% 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 ewe lambs
No of lambs available for sale in each breeding cycle	77 (Explained below)
Birth weight of lambs	2 kgs
ADG	140 gms per day
Weight of lambs after 6 months age including birth weight	27 kgs Rounded off (25 + 2)
first sale month after start of farm	12 th month
Sale price of lambs @ Rs 400 X 27 kgs	10800
Sale price of culled females Rs 300 X 35 kgs	10500
Sale price of Replaced males @ 400 x 45Kgs	18000
Manure production from each adult including lamb per breeding cycle	120 kgs (500 gms per day x 240 days)
Sale price of manure	Rs 2 per Kg
Income from manure from each adult + Lamb per breeding cycle	Rs 240
Feeding cost (Estimated)	Refer page 4

lambs availability for sale per breeding cycle

Details	Male	female
Lambs born	45	45
Mortality of lambs 4 % of 45	2	2
Replacement of culled females (5 % of 100)	0	-5
Replacement of adult female mortality (4% of 100)	0	-4

Lambs available for sale in each cycle	43	34
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Total lambs available for sale in each breeding cycle	77
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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 Lambs @ Rs 10800	831600	831600		831600	831600	831600		831600	831600	831600		831600	831600	
2	Sale of Replaced Breeder Ram @ Rs 18000			90000				90000				90000			
3	Sale of Culled females @ Rs 10500	52500	52500		52500	52500	52500		52500	52500	52500		52500	52500	
4	Sale of Manure	36000	25200		25200	25200	25200		25200	25200	25200		25200	25200	
	Total	920100	909300	90000	909300	909300	909300	90000	909300	909300	909300	90000	909300	909300	9373800
Expenditure															
1	Purchase of breeding Rams			90000				90000				90000			
2	Working capital	549405	400155		400155	400155	400155		400155	400155	400155		400155	400155	
3	Insurance @ 4 % pa			51600		51600		51600		51600		51600		51600	
4	Transport cost of purchased breeding Rams			1000				1000				1000			
	Total	549405	400155	142600	400155	451755	400155	142600	400155	451755	400155	142600	400155	451755	4733400
Net income (before loan repayment)															
		370695	509145	-52600	509145	457545	509145	-52600	509145	457545	509145	-52600	509145	457545	4640400

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