

Model Goat farm project report with 50 Does and 2 bucks

This project report is based on following assumption:-

- 1- Adult healthy Does & bucks of black Bengal breed within 2 years of age will be purchased
- 2- Manure produced in the farm will be utilized for fodder cultivation
- 3- In case of death of adult goats new animal will be purchased from insurance claim money
- 4- The above project will be economically viable under proper care & attention of the entrepreneur.

The farmer must check the following points before starting goat farm.

Availability of good quality Parent stock in the locality

Marketing facility for goat & goat meat

Nearness of farm to veterinary hospital/Livestock Aid center

Availability of concentrates ,fodder & medicine in that locality

Techno-economic parameters

Breed of Goat	Black Bengal
System of rearing	Semi intensive
No. of Bucks	2
No. of Does	500
Age at Maturity (Months)	10-12
Kidding/ interval (Months)	8
No of kidding/year	1.5
Kidding percentage	90
Average litter size (average of single, twinning, Triplet, quadruplet)	2
Sex ratio	1:1
Mortality(%) Kids	15
Saleable age of kids (months)	11

Expenditure norms

Space requirement sq ft.per head for Buck	15 ,
Space requirement sq ft.per head for doe	10
Space requirement sq ft.per head/kid	4
Cost of construction (Rs.per sft) Doe, Bucks ,Kids	200
Cost of equipment (Rs.per adult animal)	200
Cost of green fodder cultivation (Rs./acre/season)	6000

Concentrate feed : Adult does

(one month before breeding and one month after kidding i.e. per kidding)	6.75 kg per month
Concentrate feed for Bucks (two months per breeding season)	7.5 kg per month
Concentrate feed for Kids (for 30 days)	3.75 kg per kid
Cost of conc. feed (Rs./kg)	18
Labour (No.)	Family
Insurance (as percentage of the cost of breeding stock)	5
Veterinary aid (Rs./adult/year)	50
Income norms :	
Sale price of Buck/(11month)	3200
Sale price of Doe/(11month)	3000
Income from manure is not assumed as it is used on the own farm for fodder cultivation.	
Sale of Gunnyu bags (Rs./bag)	10
Repayment norms:	
Repayment period (years)	6
Grace Period (years)	1
Interest rate(%)	12

Flock projection chat for Black Bengal Breed Goats

Year	1st	2nd	3 rd	4th	5th	6th
No. of does purchased	50					
No. of bucks purchased	2					
No. of kidding/year	1.5	1.5	1.5	1.5	1.5	1.5
No. of kids born male	67	67	67	67	67	67
No. of kids born female	67	67	67	67	67	67
No of kids died male 15%	10	10	10	10	10	10
No of kids died female 15%	10	10	10	10	10	10
No. of male kids available for sale	Kids produced in first year will be sold in second year & so on	57	57	57	57	57
No. of female kids available for sale		57	57	57	57	57

<u>A-Capital cost</u>	(Amount in Rs.)
Construction low cost Shed for 50does @ 10sq.ft/adult Doe(Rs.200/sq.ft)	100000
Construction of Shed for 2 bucks@15sq.ft/buck(Rs.200 sq.ft buck shed)	6000
Construction of Shed for230 kids @4 sq.ft./ kids (456sq.ft)@(Rs.200/sqft)	91200
Equipments feeding trough buckets etc	10000
Cost of 50does@ 4500/doe	225000
Cost of 2 bucks@7000/buck	14000
TOTAL CAPITAL COST	432200
<u>Working Capital</u>	
Cost of insurance 4% of animal cost	9560
Cost of concentrate feed for 50does @6.75kg/month/doe for two months i.e kg@18/kg	12150
Cost of concentrate feed for 2bucks @7.5kg/adult animal for two months @ 18/kg	540
Cost of concentrate feed for 114 kids@3.75 kg/kid /month i.e 900kg for one month @18/kg	7695
Fodder cultivation in 2 acres of land@6000/acre/season	12000
Misc, expenditure i.e. vaccine medicine and veterinary aid and electricity	10000
Contingency	16395
Total Working Capital	67800
TOTAL PROJECT COST	500000
Margin money @ 15% of project cost	75000
Bank loan@85% of project cost	425000

CASH FLOW		Project period (year) Amount in Rs.					
A.		i	ii	iii	iv	v	Vi
B.	Cost of insurance 4% of animal cost	9560	9560	9560	9560	9560	9560
C.	Cost of concentrate feed for buck does and kids	19845	19845	19845	19845	19845	19845
D.	Fodder cultivation 2 acers of land@6000/acre/crop for two crops	24000	24000	24000	24000	24000	24000
E.	Misc, expenditure i.e. vaccine medicine and veterinary aid	10000	10000	10000	10000	10000	10000
	Total expenditure	63405	63405	63405	63405	63405	63405
1	Sale price of male goats @3200/buckling		182400	182400	182400	182400	182400
2	Sale price of female goats @3000/doeling	-	171000	17100	17100	17100	17100
3	Sale price of gunny bag	230	230	230	230	230	230
4	Value of closing stock 50 doe, 2buck, @ average 2500/adult & 114 kids @ 1500/kid						301000
5	Value of shed (10% depreciation/year)						78880
6	Value of equipment (20% depreciation /year)						-
7	Total	230	353630	353630	353630	353630	733510
89	Gross profit	-63175	290225	290225	290225	290225	670105

Calculation of BCR & IRR						
	1	2	3	4	5	6
Capital Costs	432200					
Recurring Cost	63405	63405	63405	63405	63405	63405
Total Costs	495605	63405	63405	63405	63405	63405
Benefit	230	353630	353630	353630	353630	733510
Net Benefit	-495375	290225	290225	290225	290225	670105

Sl no	Financial indicators	Estimated value	Preferred value
1	Net Present Worth (NPW)	579453.66	Should be +ve
2	Benefit Cost Ratio (BCR)	1.94:1	>1
3	Internal Rate of return (IRR)	38.53	>15%

Bank loan - Rs.375000 Grace period = one year . Loan amount at the end of one year =375000+45000=420000

S.No	Monthly Installment	Interest	Principal	Balance
0				420000
1	8211	4200	4011	415989
2	8211	4160	4051	411938
3	8211	4119	4092	407846
4	8211	4078	4133	403713
5	8211	4037	4174	399539
6	8211	3995	4216	395324
7	8211	3953	4258	391066
8	8211	3911	4300	386766
9	8211	3868	4343	382422
10	8211	3824	4387	378035

11	8211	3780	4431	373604
12	8211	3736	4475	369129
13	8211	3691	4520	364610
14	8211	3646	4565	360045
15	8211	3600	4611	355434
16	8211	3554	4657	350777
17	8211	3508	4703	346074
18	8211	3461	4750	341324
19	8211	3413	4798	336526
20	8211	3365	4846	331680
21	8211	3317	4894	326786
22	8211	3268	4943	321842
23	8211	3218	4993	316850
24	8211	3168	5043	311807
25	8211	3118	5093	306714
26	8211	3067	5144	301570
27	8211	3016	5195	296375
28	8211	2964	5247	291128
29	8211	2911	5300	285828
30	8211	2858	5353	280475
31	8211	2805	5406	275069
32	8211	2751	5460	269608
33	8211	2696	5515	264093
34	8211	2641	5570	258523
35	8211	2585	5626	252897
36	8211	2529	5682	247215
37	8211	2472	5739	241476
38	8211	2415	5796	235680
39	8211	2357	5854	229826
40	8211	2298	5913	223913
41	8211	2239	5972	217941
42	8211	2179	6032	211909
43	8211	2119	6092	205817
44	8211	2058	6153	199664
45	8211	1997	6214	193450
46	8211	1934	6277	187173
47	8211	1872	6339	180834
48	8211	1808	6403	174431
49	8211	1744	6467	167964
50	8211	1680	6531	161433
51	8211	1614	6597	154836
52	8211	1548	6663	148173
53	8211	1482	6729	141444

54	8211	1414	6797	134648
55	8211	1346	6865	127783
56	8211	1278	6933	120850
57	8211	1208	7003	113847
58	8211	1138	7073	106774
59	8211	1068	7143	99631
60	8211	996	7215	92416
61	8211	924	7287	85129
62	8211	851	7360	77770
63	8211	778	7433	70336
64	8211	703	7508	62829
65	8211	628	7583	55246
66	8211	552	7659	47587
67	8211	476	7735	39852
68	8211	399	7813	32039
69	8211	320	7891	24149
70	8211	241	7970	16179
71	8211	162	8049	8130
72	8211	81	8130	0

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