Details of annual costs and benefits for economic BCA of farming systems

1. Dryland agroforestry with *Ficus benghalensis trees* (DF)

Year	Activities	Cost									Benefits			
		Labour			Material				Rent Rs./annum	Total cost Rs.	Kind	Quantity Quintals/ /No.	Price Rs./unit	Revenue Rs.
		Person days	Wage rate (Rs./day)	Cost Rs.	Kind	Quantity	Price Rs.	Cost Rs.						
0	Land preparation for first(summer) crop	11.25	450/ hr	5063					7000	12063				
	Application of FYM	5	100	500	FYM	5	300	1500		2000				
	Broadcasting of sesamum seeds	3	100	300	Seeds	4 kg	40/kg	160		460				
					Sand	12 kg	2/kg	24		24				
	Application of chemical fertilisers	2	100	200	Fertiliser	1 bag urea+1 bag DAP + 1bag Potash		1235		1435				
	Weeding	25	50	1250						1250				
	Harvest	10	50	500						500	Sesamum	5	3000	15000
	Post harvest processing	10	50	500						500				
	Land preparation for second (*kharif*) crop	11.25	450/hr	5063						5063				
	Application of FYM	10	100	1000	FYM	10	300	3000		4000				
	Sowing of Finger millet, Field beans and cow pea and sorghum[1]	3 days and 1 BD	450	650				127.50		777.75				
	Hoeing	1 BD	350	350						350				
	Gap planting	2 BD	350	750						750				
	Application of chemical fertilizers	2	100	200	Fertiliser	2 bags urea+ bags 2 DAP+1 bag Potash		1875		2075				
	Weeding	25	50	1250						1250				
	Harvest	12.5	50	625						625	Finger millet	14.875	850	12643.75
										0	Field Beans	0.5	1700	850
										0	Cow pea	0.5	1350	675
										0	Sorghum	0.35	800	280
										0	Finger millet straw	3	1400	4200
											Sorghum straw	0.25	800	200
	Post harvest processing	12.5	50	625						625				
	Planting of *F. Benghalensis* cuttings	0.5	100	50	Cuttings Seedlings	20	10	200		250				
	Veg. Fencing	0.5	100	50	Bamboo			50		100				
	Watering in summer season	15	100	1500						1500				
Total for year 0										**35597.75**	**0**			**33848.75**
1	Land preparation for first(summer) crop	11.25	450/hr	5063						12063				

	Application of FYM	5	100	500	FYM	5	300	1500		2000				
	Broadcasting of sesamum seeds	3	100	300	Seeds	4 kg	40/kg	160		460				
					Sand	12 kg	2/kg	24		24				
	Application of chemical fertilisers	2	100	200	Fertiliser	1 bag urea+1 bag DAP+1 bag Potash		1235		1435				
	Weeding	25	50	1250						1250				
	Harvest	10	50	500						500	Sesamum	4.5	3000	13500
	Post harvest processing	10	50	500						500				
	Land preparation for second (*kharif*) crop	11.25	450/hr	5063						5063				
	Application of FYM	10	100	1000	FYM	10	300	3000		4000				
	Sowing of Finger millet, Field beans and cow pea and sorghum	3 days and 1 BD	450	650				127.50	0	777.75				
	Hoeing	1 BD	350	350						350				
	Gap planting	2 BD	350	700						700				
	Application of chemical fertilisers	2	100	200	Fertiliser	2 bags urea+2 bags DAP+1 bag Potash		1875		2075				
	Weeding	25	50	1250						1250				
	Harvest	12.5	50	625						625	Finger millet	14.375	850	12218.75
										0	Field Beans	0.5	1700	850
										0	Cow pea	0.5	1350	675
										0	Sorghum	0.35	800	280
										0	Finger millet straw	2.75	1400	3850
											Sorghum straw	0.25	800	200
	Post harvest processing	12.5	50	625						625				
	Watering ficus saplings in summer season	11	100	1100						1100				
Total for year 1										**34797.75**				**31573.75**
2	Land preparation for first (rabi) crop	11.25	450/hr	5063					7000	12063				
	Application of FYM	5	100	500	FYM	5	300	1500		2000				
	Broadcasting of horsegram seeds	3	100	300	Seeds	25 kg	14	350		650				
	Application of chemical fertilisers	2	100	200	Fertiliser	1 bags urea+1 bag DAP+1 bag Potash		1235		1435				
	Weeding	25	50	1250						1250				
	Harvest	10	50	500						500	Horse gram	10	1400	14000
	Post harvest processing	10	50	500						500				
	Land preparation for second (*kharif*) crop	11.25	450/hr	5063						5063				
	Application of FYM	10	100	1000	FYM	10	300	3000		4000				
	Sowing of Finger millet, Feild beans	3 days	450	650				127.50	0	777.75				

	and cow pea and sorghum	and 1 BD												
	Hoeing	1 BD	350	350						350				
	Gap planting	2 BD	350	700						700				
	Application of chemical fertilisers	2	100	200	Fertiliser	2 bags urea+2 bags DAP+1 bag Potash		1875		2075				
	Weeding	25	50	1250						1250				
	Harvest	12.5	50	625						625	Finger millet	14.375	850	12218.75
										0	Field Beans	0.5	1700	850
										0	Cow pea	0.5	1350	675
										0	Sorghum	0.35	800	280
										0	Finger millet straw	2.75	1400	3850
											Sorghum straw	0.25	800	200
	Post harvest processing	12.5	50	625						625				
	Watering ficus saplings in summer season	11	100	1100						1100				
Total for year 2										**34963.75**				**32073.75**
3	Land preparation for first (rabi) crop	11.25	450/hr	5063					7000	12063				
	Application of FYM	5	100	500	FYM	5	300	1500		2000				
	Broadcasting of horsegram seeds	3	100	300	Seeds	25 kg	14	350		650				
	Application of chemical fertilisers	2	100	200	Fertiliser	1 bags urea+1 bag DAP+1 bag Potash		1235		1435				
	Weeding	25	50	1250						1250				
	Harvest	10	50	500						500	Horsegram	10	1400	11200
	Post harvest processing	10	50	500						500				
	Land preparation for second (*kharif*) crop	11.25	450/hr	5063						5063				
	Application of FYM	10	100	1000	FYM	10	300	3000		4000				
	Sowing of Finger millet, and sorghum	3 days and 1 BD	450	650				83.75	0	733.75				
	Hoeing	1 BD	350	350						350				
	Gap planting	2 BD	350							0				
	Application of chemical fertilisers	2	100	200	Fertiliser	2 bags urea+2 bags DAP+1 bag Potash		1875		2075				
	Weeding	25	50	1250						1250		11.9	850	**10115**
	Harvest	12.5	50	625						625	Finger millet[2]			
											Sorghum	0.84	800	**672**
										0	Finger millet straw	2.4	1400	**3360**

										0	Sorghum straw	0.6	800	**480**
	Post harvest processing	12.5	50	625						625				
	Watering ficus saplings in summer season	11	100	1100						1100				
Total for year 3										**34219.75**				**25827**
4	Fallow[3]									7000	Straw for livestock	300		300
Total for year 4				**0**	**0**	**0**	**0**	**0**		**7000**				**300**
5	Land preparation for *kharif* crop	12	450/hr	5063					7000	12063				
	Application of FYM	8	100	800	FYM	7.5	300	2240		3040				
	Sowing of Finger millet, Field beans and cow pea and sorghum	3 days and 1 BD	450	650				127.50	0	777.75				
	Hoeing	1 BD	350	350						350				
	Gap planting	2 BD	350	700						700				
	Application of chemical fertilisers	2	100	200	Fertiliser	2 bags urea+2 bags DAP+1 bag Potash		1875		2075				
	Weeding	25	50	1250						1250	Finger millet	14.875	850	12643.75
	Harvest	12.5	50	625						625	Feild beans	0.5	1700	850
										0	Cow pea	0.5	1350	675
										0	Sorghum	0.35	800	280
										0	Finger millet straw	3	1400	4200
	Post harvest processing	12.5	50	625						625	Sorghum straw	0.25	800	200
	Ficus tree pruning[5]	2	100	400						400	Fodder leaves			300
										0	Fuelwood			250
											Litter nutrients[4]			200
Total for year 5										**21905.75**				**19598.75**
6	Land preparation for first(summer) crop	11.25	450/hr	5063					7000	12063				
	Application of FYM	5	100	500	FYM	5	300	1500		2000				
	Broadcasting of sesamum seeds	3	100	300	Seeds	4 kg	40/kg	160		460				
					Sand	12 kg	2/kg	24		24				
	Application of chemical fertilisers	2	100	200	Fertiliser	1 bags urea+1 bag DAP+1 bag Potash-225		1235		1435				
	Weeding	25	50	1250						1250				
	Harvest	10	50	500						500	Sesamum	5	3000	15000
	Post harvest processing	10	50	500						500				
	Land preparation for second (*kharif*) crop	11.25	450/hr	5063						5063				
	Application of FYM	7	100	700	FYM	7.4	300	2220		2920				
	Sowing of Finger millet, Field beans and cow pea and sorghum	3 days and 1	450	650				127.50	0	777.75				

		BD												
	Hoeing	1 BD	350	350						350				
	Gap planting	2 BD	350	700						700				
	Application of chemical fertilisers	2	100	200	Fertiliser	2 bags urea+2 bags DAP+1 bag Potash		1875		2075				
	Weeding	25	50	1250						1250	Finger millet	14.875	850	**12643.75**
	Harvest	12.5	50	625						625	Field beans	0.5	1700	**850**
										0	Cow pea	0.5	1350	**675**
										0	Sorghum	0.35	800	**280**
										0	Finger millet straw	3	1400	**4200**
										0	Sorghum straw	0.25	800	**200**
	Post harvest processing	12.5	50	625						625				
	Lopping for fodder	3	100	300						300	Fodder			640
										0	Litter nutrients			225
										0				
Total for year 6										**32917.75**				**34713.75**
7	Land preparation for first (summer) crop	11.25	450/hr	5063					7000	12063				
	Application of FYM	5	100	500	FYM	5	300	1500		2000				
	Broadcasting of sesamum seeds	3	100	300	Seeds	4 kg	40/kg	160		460				
					Sand	12 kg	2/kg	24		24				
	Application of chemical fertilisers	2	100	200	Fertiliser	1 bags urea+1 bag DAP+1 bag Potash		1235		1435				
	Weeding	25	50	1250						1250				
	Harvest	10	50	500						500	Sesamum	4.5	3000	13500
	Post harvest processing	10	50	500						500				
	Land preparation for second (*kharif*) crop	11.25	450/hr	5063						5063				
	Application of FYM	7	100	700	FYM	7.3	300	2200		2900				
	Sowing of Finger millet, Feild beans and cow pea and sorghum	3 days and 1 BD	450	650				127.50	0	777.75				
	Hoeing	1 BD	350	350						350				
	Gap planting	2 BD	350	700						700				
	Application of chemical fertilisers	2	100	200	Fertiliser	2 bags urea+2 bags DAP+1 bag Potash		1875		2075				
	Weeding	25	50	1250						1250	Finger millet	14.375	850	**12218.75**
	Harvest	12.5	50	625						625	Field beans	0.5	1700	**850**
										0	Cow pea	0.5	1350	**675**

										0	Sorghum	0.35	800	**280**
										0	Finger millet straw	2.75	1400	**3850**
										0	Sorghum straw	0.25	800	**200**
	Post harvest processing	12.5	50	625						625				**0**
	Lopping for fodder	3	100	300						300	Fodder			**640**
											Litter nutrients			**250**
Total for year 7										**32897.75**				**32463.75**
8	Land preparation for first (rabi) crop	11.25	450/hr	5063					7000	12063				
	Application of FYM	5	100	500	FYM	5	300	1500		2000				
	Broadcasting horsegram seeds	3	100	300	Seeds	25 kg	14	350		650				
	Application of chemical fertilisers	2	100	200	Fertiliser	1 bags urea+1 bag DAP+1 bag Potash		1235		1435				
	Weeding	25	50	1250						1250				
	Harvest	10	50	500						500	Horse gram	8	1400	11200
	Post harvest processing	10	50	500						500				
	Land preparation for second (*kharif*) crop	11.25	450/hr	5063						5063				
	Application of FYM	7	100	700	FYM	7.26	300	2180		2880				
	Sowing of Finger millet, Field beans and cow pea and sorghum	3 days and 1 BD	450	650				83.75	0	733.75				
	Hoeing	1 BD	350	350						350				
	Gap planting	2 BD	350	700						700				
	Application of chemical fertilisers	2	200	300	Fertiliser	2 bags urea+2 bags DAP+1 bag Potash		1875		2175				
	Weeding	25	50	1250						1250	Finger millet	11.9	850	10115
	Harvest	12.5	50	625						625	Sorghum	0.84	800	672
										0	Finger millet straw	2.4	1400	3360
										0	Sorghum straw	0.6	800	480
	Post harvest processing	12.5	50	625						625				
	Ficus tree pruning	2	100	200						200	Fodder leaves			325
										0	Fuelwood			275
											Litter nutrients			275
Total for year 8										**32999.75**				**26702**

9	Lopping for fodder	3	100	300					7000	7300	Fodder			640
											Straw for livestock			300
											Litter nutrients			300
Total for year 9										**7300**				**1240**
10	Land preparation for *kharif* crop	12	450/hr	5063					7000	12063				
	Application of FYM	4	100	400	FYM	4.33	300	1300		1700				
	Sowing of Finger millet, Feild beans and cow pea and sorghum	3 days and 1 BD	450	650				127.5	0	777.5				
	Hoeing	1 BD	350	350						350				
	Gap planting	2 BD	350	700						700				
	Application of chemical fertilisers	2	100	200	Fertiliser	2 bags urea+2 bags DAP+1 bag Potash		1875		2075				
	Weeding	25	50	1250						1250				
	Harvest	12.5	50	625						625	Finger millet[6]	12.64375	850	10747.19
										0	Field beans	0.425	1700	722.5
										0	Cow pea	0.425	1350	573.75
										0	Sorghum	0.2975	800	238
	Post harvest processing	12.5	50	625						625	Finger millet straw	2.55	1400	3570
											Sorghum straw	0.2125	800	170
	Lopping for fodder	3	100	300						300	Fodder			640
											Straw for livestock			300
											Litter nutrients			380
Total for year 10										**20465.50**				**17341.44**
11	Land preparation for first(summer) crop	11.25	450/hr	5063					7000	12063				
	Application of FYM	5	100	500	FYM	5	300	1500		2000				
	Broadcasting of sesamum seeds	3	100	300	Seeds	4 kg	40/ kg	160		460				
					Sand	12 kg	2/kg	24		24				
	Application of chemical fertilizers	2	100	200	Fertiliser	1 bags urea + 1 bag DAP+1 bag Potash		1235		1435				
	Weeding	25	50	1250						1250				
	Harvest	10	50	500						500				
	Post harvest processing	10	50	500						500	Sesamum	4.25	3000	12750
	Land preparation for second (*kharif*) crop	11.25	450/hr	5063						5063				

	Application of FYM	7	100	700	FYM	7	300	2100		2800				
	Sowing of Finger millet, Feild beans and cow pea and sorghum	3 days and 1 BD	450	650		2.875	24	127.5	0	777.5				
	Hoeing	1 BD	350	350						350				
	Gap planting	2 BD	350	700						700				
										0				
	Application of chemical fertilisers	2	100	200	Fertiliser	2 bags urea+2 bags DAP+1 bag Potash		1875		2075				
	Weeding	25	50	1250						1250				
	Harvest	12.5	50	625						625	Finger millet	12.64375	850	10747.19
										0	Feild beans	0.425	1700	722.5
										0	Cow pea	0.425	1350	573.75
										0	Sorghum	0.2975	800	238
										0	Finger millet straw	2.64	1400	3696
	Post harvest processing	12.5	50	625						625	Sorghum straw	0.22	800	176
	Ficus tree pruning	3	100	300						300	Sorghum straw	12.64375		
										0	Fodder leaves			700
										0	Fuelwood			300
											Litter nutrients			425
Total for year 11										**32797.50**				**30328.44**
12	Land preparation for first(summer) crop	11.25	450/hr	5063					7000	12063				
	Application of FYM	5	100	500	FYM	5	300	1500		2000				
	Broadcasting of sesamum seeds	3	100	300	Seeds	4 kg	40/kg	160		460				
					Sand	12 kg	2/kg	24		24				
	Application of chemical fertilisers	2	100	200	Fertiliser	1 bags urea+1 bag DAP+1 bag Potash		1235		1435				
	Weeding	25	50	1250						1250				
	Harvest	10	50	500						500	Sesamum	3.6	3000	10800
	Post harvest processing	10	50	500						500				
	Land preparation for second (*kharif*) crop	11.25	450/hr	5063						5063				
	Application of FYM	7	100	700	FYM	6.93	300	2080		2780				
	Sowing of Finger millet, Feild beans and cow pea and sorghum	3 days and 1 BD	450	650		2.875	24	127.5	0	777.5				
	Hoeing	1 BD	350	350						350				

	Gap planting	2 BD	350	700						700				
	Application of chemical fertilisers	2	100	200	Fertiliser	2 bags urea+2 bags DAP+1 bag Potash		1875		2075				
	Weeding	25	50	1250						1250				
	Harvest	12.5	50	625						625	Finger millet	14.375	850	9775
										0	Feild beans	0.5	1700	680
										0	Cow pea	0.5	1350	540
										0	Sorghum	0.35	800	224
										0	Finger millet straw	2.75	1400	3272.5
	Post harvest processing	12.5	50	625						625	Sorghum straw	0.25	800	170
	Lopping for fodder	3	100	300						300	Fodder			750
											Litter nutrients			500
Total for year 12										**33277.5**				**26711.50**
13	Land preparation for first (rabi) crop	11.25	450/hr	5063					7000	12063				
	Application of FYM	5	100	500	FYM	5	300	1500		2000				
	Broadcasting horsegram seeds	3	300	300	Seeds	25 kg	14	350		650				
	Application of chemical fertilizers	2	100	200	Fertiliser	1 bags urea+1 bag DAP+1 bag Potash		1235		1435				
	Weeding	25	50	1250						1250				
	Harvest	10	50	500						500	Horse gram		1400	8960
	Post harvest processing	10	50	500						500				
	Land preparation for second (*kharif*) crop	11.25	450/hr	5063						5063				
	Application of FYM	7	100	700	FYM	6.8	300	2060		2760				
	Sowing of Finger millet, Feild beans and cow pea and sorghum	3 days and 1 BD	450	650		2.875	24	127.5	0	777.5				
	Hoeing	1 BD	350	350						350				
	Gap planting	2 BD	350	700						700				
	Application of chemical fertilisers	2	100	200	Fertiliser	2 bags urea+2 bags DAP+1 bag Potash		1875		2075				
	Weeding	25	50	1250						1250				
	Harvest	12.5	50	625						625	Finger millet	14.375	850	7820
										0	Feild beans	0.5	1700	544
										0	Cow pea	0.5	1350	432
										0	Sorghum	0.35	800	179.2
										0	Finger millet	2.75	1400	2618

											straw			
	Post harvest processing	12.5	50	625						625	Sorghum straw	0.25	800	136
	Lopping for fodder	3	100	300						300	Fodder		750	
											Litter nutrients			550
Total for year 13										32923.5				21239.2
14	Fallow								7300	7000				
	Ficus tree pruning	3	100	300						300	Fodder leaves			750
										0	Fuelwood			450
										0	Poles for stacking	5		500
											Litter nutrients			600
Total for year 14										**7300**				**2300**
15	Land preparation for *kharif* crop	12	450/hr	5063					7000	12063				
	Application of FYM	3	100	300	FYM	3	300	940		1240				
	Sowing of Finger millet, Feild beans and cow pea and sorghum	3 days and 1 BD	450	650		2.875	24	127.5	0	777.5				
	Hoeing	1 BD	350	350						350				
	Gap planting	2 BD	350	700						700				
	Application of chemical fertilisers	2	100	200	Fertiliser	2 bags urea+2 bags DAP+1 bag Potash		1875		2075				
	Weeding	25	50	1250						1250				
	Harvest	12.5	50	625						625	Finger millet	11.15625	850	**9482.813**
										0	Field beans	0.375	1700	**637.5**
										0	Cow pea	0.375	1350	**506.25**
										0	Sorghum	0.2625	800	**210**
	Post harvest processing	12.5	50	625						625	Finger millet straw	2.25	1400	**3150**
	Lopping for fodder	3	100	300						300			800	**800**
											Litter nutrients			750
Total for year 15										**20005.5**				**15536.56**
16	Land preparation for first (summer) crop	11.25	450/hr	5063					7000	12063				
	Application of FYM	5	100	500	FYM	5	300	1500		2000				
	Broadcasting of sesamum seeds	3	100	300	Seeds	4 kg	40/kg	160		460				
					Sand	12 kg	2/kg	24		24				

	Application of chemical fertilisers	2	100	200	Fertiliser	1 bags urea+1 bag DAP+1 bag Potash		1235		1435				
	Weeding	25	50	1250						1250				
	Harvest	10	50	500						500	Sesamum	3.75	3000	11250
	Post harvest processing	10	50	500						500				
	Land preparation for second (*kharif*) crop	11.25	450/hr	5063						5063				
	Application of FYM	6	100	600	FYM	6	300	1800		2400				
	Sowing of Finger millet, Feild beans and cow pea and sorghum	3 days and 1 BD	450	650		2.875	24	127.5	0	777.5				
	Hoeing	1 BD	350	350						350				
	Gap planting	2 BD	350	700						700				
	Application of chemical fertilisers	2	100	200	Fertiliser	2 bags urea+2 bags DAP+1 bag Potash		1875		2075				
	Weeding	25	50	1250						1250				
	Harvest	12.5	50	625						625	Finger millet	11.15625	850	9482.813
										0	Field beans	0.375	1700	637.5
										0	Cow pea	0.375	1350	506.25
										0	Sorghum	0.2625	800	210
										0	Finger millet straw	2.25	1400	3150
	Post harvest processing	12.5	50	625						625	Sorghum straw	0.1875	800	150
	Lopping for fodder	3	100	300						300	Fodder			850
										0	Litter nutrients			800
Total for year 16										**32397.5**				**27036.56**
17	Land preparation for first(summer) crop	11.25	450/hr	5063					7000	12063				
	Application of FYM	5	100	500	FYM	5	300	1500		2000				
	Broadcasting of sesamum seeds	5	100	500	Seeds	4 kg	40/kg	160		660				
					Sand	12 kg	2/kg	24		24				
	Application of chemical fertilisers	2	100	200	Fertiliser	1 bag urea+1 bag DAP+1 bag Potash		1235		1435				
	Weeding	25	50	1250						1250				
	Harvest	10	50	500						500	Sesamum	3.15	3000	9450
	Post harvest processing	10	50	500						500				
	Land preparation for second (*kharif*) crop	11.25	450/hr	5063						5063				
	Application of FYM	6	100	600	FYM	5.66	300	1700		2300				

	Sowing of Finger millet, Feild beans and cow pea and sorghum	3 days and 1 BD	450	650		2.875	24	127.5	0	777.5				
	Hoeing	1 BD	350	350						350				
	Gap planting	2 BD	350	700						700				
	Application of chemical fertilisers	2	100	200	Fertiliser	2 bags urea+2 bags DAP+1 bag Potash		1875		2075				
	Weeding	25	50	1250						1250				
	Harvest	12.5	50	625						625	Finger millet	10.4125	850	**8850.625**
										0	Field beans	0.35	1700	**595**
										0	Cow pea	0.35	1350	**472.5**
										0	Sorghum	0.245	800	**196**
										0	Finger millet straw	2.0625	1400	**2887.5**
	Post harvest processing	12.5	50	625						625	Sorghum straw	0.1875	800	**150**
	Ficus tree pruning	3	100	300						300	Fodder leaves			850
										0	Fuelwood			500
										0	Poles for stacking hay	5		500
											Litter nutrients			850
Total for year 17										**32497.5**				**25301.63**
18	Land preparation for first(rabi) crop	11.25	450/hr	5063					7000	12063				
	Application of FYM	5	100	500	FYM	5	300	1500		2000				
	Broadcasting of horsegram seeds	3	100	300	Seeds	25 kg	14	350		650				
	Application of chemical fertilisers	2	100	200	Fertiliser	1 bags urea+1 bag DAP+1 bag Potash		1235		1435				
	Weeding	25	50	1250						1250				
	Harvest	10	50	500						500	Horse gram	8.6	1400	12040
	Post harvest processing	10	50	500						500				
	Land preparation for second (*kharif*) crop	11.25	450/hr	5063						5063				
	Application of FYM	5	100	500	FYM	5.33	300	1600		2100				
	Sowing of Finger millet, Feild beans and cow pea and sorghum	3 days and 1 BD	450	650		2.875	24	127.5	0	777.5				
	Hoeing	1 BD	350	350						350				
	Gap planting	2 BD	350	700						700				
	Application of chemical fertilisers	2	100	200	Fertiliser	2 bags urea+2 bags DAP+1 bag Potash		1875		2075				

	Weeding	25	50	1250						1250				
	Harvest	12.5	50	625						625	Finger millet	9.80	850	**8330**
										0	Field beans	0.28	1700	**476**
										0	Cow pea	0.28	1350	**378**
										0	Sorghum	0.196	800	**156**
										0	Finger millet straw	1.5	1400	**2109.6**
											Sorghum straw	0.14	800	**112**
	Post harvest processing	12.5	50	625						625				
	Lopping for fodder	3	100	300						300	Fodder			850
											Litter nutrients			900
Total for year 18										**32263.50**				**25351.6**
19	Fallow								7000	7000	Straw for livestock	300		300
											Litter nutrients			1025
Total for year 19										**7000**				**1325**
20	Land preparation for *kharif* crop	12	450/hr	5063					7000	12063				
	Application of FYM	5	100	500		5	300	1500		2000				
	Sowing of Finger millet, field beans, cow pea and sorghum	3 days and 1 BD	450	650		2.875	24	127.5	0	777.5				
	Hoeing	1 BD	350	350						350				
	Gap planting	2 BD	350	700						700				
	Application of chemical fertilisers	2	100	200	Fertiliser	2 bags urea+2 bags DAP+1 bag Potash		1875		2075				
	Weeding	25	50	1250						1250				
	Harvest	12.5	50	625						625	Finger millet		850	12643.75
										0	Field Beans		1700	850
										0	Cow pea		1350	675
										0	Sorghum		800	280
	Post harvest processing	12.5	50	625						625	Finger millet straw		1400	4200
	Tree harvest	64	200	12800						12800				
	Transport			3000						3000	Timber[7]	480	240 /	115200
										0	Fuelwood	1	1000	1000
										0	Poles for stacking	5		500
											Fodder			1500

											Litter nutrients			1025
Total for year 20										**36265.50**				**137873.75**

[1]0.85 ha under finger millet, 0.15 ha under three intercrops (sorghum, cow pea, field beans)
[2]20% crop loss to crops due to pests, diseases etc.
[3] Fallowing due to droughts assumed once in five years based on data on drought in Mandya district (Nanjundappa 2010)
[4] N, P and K added through Ficus litter fall valued from 5th year onwards as avoided cost of nutrients based on data on incidents
[5]Assuming 80% survival in 5th year, density of 16 ficus trees/ha
[6]Crop loss due to ficus canopy from 10th to 20th years (15 to 20%)
[7]Timber yield of 30 cubic feet /tree at 20 years
BD: 1 bullock and 1 human labour day, DAP: Diammonium phosphate (1 bag= 50 kg) , grains in quintals, fodder and fuelwood in tones

2. Unirrigated eucalyptus (*Eucalyptus hybrid*) plantation[1]

Year	Activities	Costs									Benefits			
		Labour			Material				Rent Rs./annum	Total cost Rs.	Kind	Quantity S/ No.	Price Rs./unit	Revenue Rs.
		Person days	**Wage rate** Rs./day(/hr)	**Cost** Rs.	**Kind**	**Quantity**	**Price** Rs.	**Cost** Rs.						
0	Land preparation	3.75 hrs with tractor	450/hr	1688					7000	7688				
	Pitting	30	100	3000						3000				
	Pit filling with FYM	10	100	1000	FYM	8	300	2400		3400				
	Procuring seedlings				Seedlings	2777	2[2]	5554		5554				
	Transport			500						500				
	Planting	20	100	2000						2000				
	Plant protection chemicals	2	100	200	PPC			1500		1700				
	Watch and ward	10	100	1000						1000				
Total for year 0										**25842**				
1	Mortality replacement[3]	5	100	500	Seedlings	278	2	556	7000	8056				
	Pruning	2	100	200						200				
	Weeding	20	100	2000						2000				
	Watch and ward	10	100	1000						1000				
Total for year 1										**11256**				
2	Pruning	3	100	300					7000	7300				
	Weeding	20	100	2000						2000				
	Watch and ward	10	100	1000						1000				
Total for year 2										**10300**				
3	Pruning	5	100	500					7000	7500				
Total for year 3										**7500**				
4	Pruning	5	100	500					7000	7500				
Total for year 4										**7500**				
5	First harvest[4]	70	200	14000					7000	21000	Pulpwood	70	2000	140000
											Fuelwood	5	1200	6000
											Stakes	2000	5	10000
Total for year 5										**21000**				**156000**
6	Removing coppice shoots[5]	25	100	2500					7000	9500				
Total for year 6										**9500**				
7	Pruning and maintenance	2	100	**200**					7000	**7200**				
8	Pruning and maintenance	2	100	**200**					7000	**7200**				
9	Pruning and maintenance	2	100	**200**					7000	**7200**				
10	Pruning and maintenance	2	100	**200**					7000	**7200**				
11	Second harvest	75	200	15000					7000	22000	Pulpwood	50	2000	100000
											Fuelwood	6	1200	7200
											Stakes	2500	5	12500

Total for year 11										**22000**				**119700**
12	Maintenance	2	100	200					7000	**7200**				
13	Maintenance	2	100	200					7000	**7200**				
14	Maintenance	2	100	200					7000	**7200**				
15	Maintenance	2	100	200					7000	**7200**				
16	Third harvest[6]	60	200	12000					7000	19000	Pulpwood	30	2000	60000
											Fuelwood	2	1200	2400
											Stakes	1500	5	7500
Total for year 16										**19000**				**69900**
17	Maintenance	2	100	200					7000	**7200**				
18	Maintenance	2	100	200					7000	**7200**				
19	Maintenance	2	100	200					7000	**7200**				
20	Final harvest[7]	50	200	10000					7000	17000	Pulpwood	15	2000	30000
											Fuelwood	1	1200	1200
											Stakes	1000	5	5000
Total for year 20										**17000**				**36200**

[1]At spacing of 1.2 x 2.4 m, 2777 seedlings/ha
[2]Includes cost of loading and unloading seedlings
[3]10% mortality assumed
[4] Yield of 30 kg/tree in 5th year (Vinithan 1996) 25 kg/tree in 11th year, 20 kg/tree in 16th year, and 15 kg/tree in 20th year
[5]10% mortality assumed after first harvest
[6]30% mortality assumed after second harvest
[7]40% mortality assumed after third harvest

3 Borewell irrigated mulberry with teak (*Tectona grandis*) on bunds and boundaries (MT)[1]

		Costs									Benefits			
Year		**Labour**			**Material**				**Rent Rs./ annum**	**Total cost Rs.**	**Kind**	**Quantity/ No**	**Price Rs./unit**	**Revenue Rs.**
	Activities	**Person days**	**Wage rate Rs.**	**Cost Rs.**	**Kind**	**Quantity Tonnes**	**Price Rs.**	**Cost Rs.**						
0	Borewell establishment including material, labour and electricity connection									100000				
	Land preparation	3 times ploughing in tractor, 3.75 hrs/ time	450/time	5063					20000	25063				
	Planting	30	100	3000	Cuttings	15000	2.50[2]	37500		40500				
	Application of FYM	15	100	1500	FYM	15	300	4500		6000				
	Chemical fertilisers	10	100	1000	20 bags urea+12 bags complex (NPK)			9400		10400				
	Irrigation	50	100	5000		Electricity and Pumpset maintenance		10500		15500				
	Weeding	40	50	2000						2000				
	Soil working	60	100	6000						6000				
	Harvesting of mulberry leaves	Cost borne by purchaser								0	Mulberry leaves	32	2500	80000
	Teak saplings				Saplings (stump)	160	15	2400		2400				
	Transport			150						150				
	Pitting, filling FYM and planting	160 pits	5/ pit	800	FYM	0.5		150		950				
Total for year 0										**208963**				**80000**
1	Application of FYM	15	100	1500	FYM	15	300	4500	20000	26000				
	Chemical fertilisers	10	100	1000	20 bags urea+12 bags complex (NPK)			9400		10400				
	Irrigation, weeding and soil working	150	250	13000	0	Electricity and Pumpset maintenance		11000	0	24000	0	0	0	0
	Harvesting of mulberry leaves	Cost borne by purchaser								0	Mulberry leaves	48	2500	120000
	Mortality replacement of teak	1	100	100	Saplings stump)	16	15	240		340				
	Transport of seedlings			100				100		200				
Total for year 1										**60940**				**120000**
2	Application of FYM	18.75	100	1875	FYM	15	300	4500	20000	26375				
	Chemical fertilisers	10	100	1000	20 bags urea+12 bags complex (NPK)			9400		10400				
	Irrigation, weeding and soil working	150	250	13000	0	Electricity and Pumpset maintenance		11000	0	24000	0	0	0	0
	Harvesting of mulberry leaves	Cost borne by purchaser								0	Mulberry leaves	48	2500	120000

Total for year 2														**120000**
3	Application of FYM	15	100	1500	FYM	15	300	4500	20000	26000				
	Chemical fertilisers	10	100	1000	20 bags urea+12 bags complex (NPK)			9400		10400				
	Irrigation, weeding and soil working	150	250	13000	0	Electric and Pumpset maintenance		500	11000	24000	0	0	0	0
	Harvesting of mulberry leaves	Cost borne by purchaser								0	Mulberry leaves	48	2500	120000
	Pruning and maintenance of teak	2	100	200						200				
Total for year 3										**60600**				**120000**
4	Application of FYM	15	100	1500	FYM	15	300	4500	20000	26000				
	Chemical fertilisers	10	100	1000	20 bags urea+12 bags complex (NPK)			9400		10400				
	Irrigation, weeding and soil working	150	250	13000	0	Electric and Pumpset maintenance		11000	0	24000	0	0	0	0
	Harvesting of mulberry leaves	Cost borne by purchaser								0	Mulberry leaves	48	2500	120000
	Pruning and maintenance of teak	3	100	300						300	Firewood from teak	0.5	1200	600
Total for year 4										**60700**				**120600**
5	Mulberry cultivation harvest and pruning and maintenance of teak									60700	Mulberry leaves[3]	43.2	2500	108000
											Firewood from teak	0.55	1200	660
Total for year 5										**60700**				**108660**
6	Mulberry cultivation harvest and pruning and maintenance of teak									60700	Mulberry leaves	43.2	2500	108000
											Firewood from teak	0.65	1200	780
Total for year 6										**60700**				**108780**
7	Mulberry cultivation harvest and pruning and maintenance of teak									60700	Mulberry leaves	43.2	2500	108000
											Firewood from teak	0.75	1200	900
Total for year 7										**60700**				**108900**
8	Mulberry cultivation harvest and pruning and maintenance of teak									**60700**	Mulberry leaves and firewood from teak			**108900**
9	Mulberry cultivation harvest and pruning and maintenance of teak									**60700**	Mulberry leaves and firewood from teak			**108900**
10	Application of FYM	14	100	1400	FYM	13.6	300	4100	20000	25500				
	Chemical fertilisers	10	100	1000	20 bags urea+12 bags complex (NPK)			9400		10400				
	Irrigation, weeding and soil working	150	250	13000	0	Electricity and Pumpset maintenance		11000	0	24000	0	0	0	0
	Harvesting of mulberry leaves	Cost borne by purchaser								0	Mulberry leaves	43.2	2500	108000

	Pruning and maintenance of teak	1	100	100						100	Firewood from teak	4.423	1200	5307.6
	Harvesting 50% of teak	36	200	7200						7200	Timber[4]	10.152	53570	543842.6
											Litter nutrients[5]			150
Total for year 10										**67200**				**657300.20**
11	Application of FYM	14	100	1400	FYM	13.5	300	4060	20000	25460				
	Chemical fertilisers	10	100	1000	20 bags urea+12 bags complex (NPK)			9400		10400				
	Irrigation, weeding and soil working	150	250	13000	0	Electricity and Pumpset maintenance		11000	0	24000	0	0	0	0
	Harvesting of mulberry leaves	Cost borne by purchaser								0	Mulberry leaves	40.8	2500	102000
	Pruning and maintenance of teak	3	100	300	0					300	Firewood from teak	0.8	1200	960
											Litter nutrients			160
Total for year 11										**60160**				**103120**
12	Application of FYM	13	100	1300	FYM	13.4	300	4020	20000	25320				
	Chemical fertilisers	10	100	1000	20 bags urea+12 bags complex (NPK)			9400		10400				
	Irrigation, weeding and soil working	150	250	13000	0	Electricity and Pumpset maintenance		11000	0	24000	0	0	0	0
	Harvesting of mulberry leaves	Cost borne by purchaser								0	Mulberry leaves	40.8	2500	102000
	Pruning and maintenance of teak	3	100	300						300	Firewood from teak	0.8	1200	960
											Litter nutrients			170
Total for year 12										60020				103130
13	Application of FYM	13	100	1300	FYM	13.27	300	3980	20000	25280				
	Chemical fertilisers	10	100	1000	20 bags urea+12 bags complex (NPK)			9400		10400				
	Irrigation, weeding and soil working	150	250	13000	0	Electricity and Pumpset maintenance		11000	0	24000	0	0	0	0
	Harvesting of mulberry leaves	Cost borne by purchaser								0	Mulberry leaves	40.8	2500	102000
	Pruning and maintenance of teak	3	100	300						300	Firewood from teak	0.8	1200	960
											Litter nutrients			190
Total for year 13										**59980**				**103150**
14	Application of FYM	13	100	1300	FYM	13.1	300	3940	20000	25240				
	Chemical fertilisers	10	100	1000	20 bags urea+12 bags complex (NPK)			9400		10400				
	Irrigation, weeding and soil working	150	250	13000	0	Electricity and Pumpset maintenance		11000	0	24000				
	Final harvest of mulberry										Mulberry leaves	40.8	2500	102000
	Pruning and maintenance of teak	3	100	300						300	Firewood from teak	0.8	1200	960
											Litter nutrients			200
Total for year 14										**59940**				**102960**

15	Land preparation for replanting of mulberry[6]	3 times ploughing in tractor, 2.5 hrs/ time	450/time	3375					20000	23375				
	Planting mulberry	30	100	3000	Mulberry	14800	2.5	37000		40000				
	Application of FYM	13	100	1300	FYM	13	300	3900		5200				
	Chemical fertilisers	10	100	1000	20 bags urea+12 bags complex (NPK)			9400		10400				
	Irrigation, weeding and soil working	150	250	13000	0	Electricity and Pumpset maintenance		11000		24000				
	Harvesting of mulberry leaves	Cost borne by purchaser								0	Mulberry leaves	32	2500	80000
	Pruning and maintenance of teak	3	100	300						300	Firewood from teak	0.8	1200	960
											Litter nutrients			220
Total for year 15										**103275**				**81180**
16	Application of FYM	13	100	1300	FYM	12.9	300	3860	820000	25160				
	Chemical fertilisers	10	100	1000	20 bags urea+12 bags complex (NPK)			9400		10400				
	Irrigation, weeding and soil working	150	250	13000	0	Electricity and Pumpset maintenance		11000		24000	0	0	0	0
	Harvesting of mulberry leaves	Cost borne by purchaser								0	Mulberry leaves	40.8	2500	102000
	Pruning and maintenance of teak	3	100	300	0					300	Firewood from teak	0.8	1200	960
											Litter nutrients			240
Total for year 16										**59860**				**103200**
17	Application of FYM	13	100	1300	FYM	12.7	300	3820	220000	25120				
	Chemical fertilisers	10	100	1000	20 bags urea+12 bags complex (NPK)			9400		10400				
	Irrigation, weeding and soil working	150	250	13000	0	Electricity and pumpset maintenance		110000		24000				
	Harvesting of mulberry leaves	Cost borne by purchaser								0	Mulberry leaves	40.8	2500	102000
	Pruning and maintenance of teak	3	100	300	0					300	Firewood from teak	0.8	1200	960
											Litter nutrients			260
Total for year 17										**59820**				**103220**
18	Application of FYM	13	100	1300	FYM	12.6	300	3780	220000	25080				
	Chemical fertilisers	10	100	1000	20 bags urea+12 bags complex (NPK)			9400		10400				
	Irrigation, weeding and soil working	150	250	13000	0	Electricity and pumpset maintenance		11000		24000				
	Harvesting of mulberry leaves	Cost borne by purchaser								0	Mulberry leaves	40.8	2500	102000
	Pruning and maintenance of teak	3	100	300	0					300	Firewood from teak	0.8	1200	960

											Litter nutrients			280
Total for year 18									**5**	**59780**				**103240**
19	Application of FYM	12	100	1200	FYM	12.46	300	3740	220000	24940				
	Chemical fertilisers	10	100	1000	20 bags urea+12 bags complex (NPK)			9400		10400				
	Irrigation, weeding and soil working	150	250	13000	0	Electricity and pumpset maintenance		11000		24000	0	0	0	0
	Harvesting of mulberry leaves	Cost borne by purchaser								0	Mulberry leaves	40.8	2500	102000
	Pruning and maintenance of teak	3	100	300	0					300	Firewood from teak	0.8	1200	960
											Litter nutrients			300
Total for year 19										**59640**				**103260**
20	Application of FYM	12	100	1200	FYM	12.33	300	3700	220000	24900				
	Chemical fertilisers	10	100	1000	20 bags urea+12 bags complex (NPK)			9400		10400				
	Irrigation, weeding and soil working	150	250	13000	0	Electricity and pumpset maintenance		11000		24000				
	Harvesting of mulberry leaves	Cost borne by purchaser								0	Mulberry leaves	40.8	2500	102000
	Final harvest of teak	48	200	9600	0					9600	Firewood from teak	6.12	1200	7344
											Litter nutrients			311
										0	Timber[7]	22.464	53570	1203396
Total for year 20										**68900**				**1313051**

[1] Teak at spacing of 5m between saplings in four boundaries and four bunds inside field, total 160 saplings/ha
[2] Includes loading and unloading costs also
[3] 10% yield reduction for mulberry from 5th year due to competition from teak and 15% from 10th year onwards
[4] 90% survival after mortality replacement in second year, Timber volume of 0.141 m^3 per tree at 10th year (Shukla and Viswanath 2014)
[5] N, P, K added through litterfall is accounted as avoided cost of nutrients (George and Varghese 1992)
[6] Mulberry to be replanted after 15 years
[7] Timber volume of 0.312 m^3/tree at 20th year (Shukla and Viswanath 2014)
BD: 1 bullock and 1 human labour day, DAP: Diammonium phosphate (1 bag= 50 kg), grains in quintals, fodder and fuelwood in tonnes

4. Borewell irrigated paddy, finger millet and vegetables with coconut trees on boundaries (PC) [1]

	Costs										**Benefits**			
Year	**Labour**				**Material**				Rent	Total cost		Quantity	Price	Revenue
	Activities	**Person days**	**Wage rate**	**Cost**	**Kind**	**Quantity**	**Price**	**Cost**			**Kind**			
		Number	Rs. /day	Rs.		S	Rs.	Rs.	Rs./annum	Rs.		S/No.	Rs./unit	Rs.
0	Borewell establishment including materials, labour and electricity connection									100000				
	Irrigation	24	100	2400		Electricity charges and maintenance of pumpset			6000	8400				
	Land preparation for first (summer) crop	11.25	450/hr	5063					20000	25063				
	Application of FYM	10	100	1000	FYM	10	300	3000		4000				
	Nursery preparation for Finger millet	2	100	200	Finger millet	5	8/kg	40		240				
				0	Chemical fertilisers			1088		1088				
	Transplanting	6	100	600						600				
	Application of chemical fertilisers	2	100	200	Fertilisers	2.5 bags urea,2.5 DAP,2.5 potash,2.5 20-20		4138		4338				
	Weeding	10	50	500						500				
	Second application of urea	2	100	200		2 bags		520		720				
	Harvest	12.5	50	625						625	Finger millet	35	850	29750
											Fodder	9	1400	12600
	Post harvest processing	12.5	50	625						625				
	Land preparation for paddy *kharif* crop (jaya)	11.25	450/hr	5063						5063				
	Application of FYM	10	100	1000	FYM	10	300	3000		4000				
	Nursery preparation for paddy	2	100	200	Seeds	62	10	620		820				
				0	Chemical fertilisers			205		205				
	Transplanting	6	100	600						600				
	Application of chemical fertilisers	5	100	500	Fertilisers	2.5 bags urea,2.5 DAP,2.5 potash,2.5 20-20		4138		4638				
	Plant protection chemicals	1	100	100	Pesticide	500		500		600				
	Weeding	10	50	500						500				
	Second application of urea	1	100	100		2 bags		520		620				
	Harvest	12.5	50	625						625	Paddy	55	900	49500
											Fodder	5	1200	6000
	Post harvest processing	12.5	50	625						625				
	Pitting for coconut	3	100	300	Compost	0.5	150	150		450				
	Planting	2	100	200	Seedlings	40	120	4800		5000				

	Plant protection chemicals	1	100	100	Pesticide	500		500		600				
	Vegetative fencing	2	100	200	Bamboo	50		50		250				
Total for year 0										**170795**				**97850**
1	Irrigation	24	100	2400		Electricity charges and maintenance of pumpset		6000		8400				
	Land preparation for first(summer) crop	11.25	450/hr	5063					20000	25063				
	Application of FYM	10	100	1000	FYM	10	300	3000		4000				
	Nursery preparation for Finger millet	2	100	200	Finger millet	5	8/kg	40		240				
				0	Chemical fertilisers			1088		1088				
	Transplanting	6	100	600						600				
	Application of chemical fertilisers	2	100	200	Fertilisers	2.5 bags urea,2.5 DAP,2.5 potash,2.5 20-20		4138		4338				
	Weeding	10	50	500						500				
	Second application of urea	2	100	200		2 bags		520		720				
	Harvest	12.5	50	625						625	Finger millet	35	850	29750
											Fodder	9	1400	12600
	Post harvest processing	12.5	50	625						625				
	Land preparation for paddy *kharif* crop (jaya)	11.25	450/hr	5063						5063				
	Application of FYM	10	100	1000	FYM	10	300	3000		4000				
	Nursery preparation for paddy	2	100	200	Seeds	62	10	620		820				
				0	Chemical fertilisers			205		205				
	Transplanting	6	100	600						600				
	Application of chemical fertilisers	5	100	500	Fertilisers	2.5 bags urea,2.5 DAP,2.5 potash, 2.5 bags 20-20		4138		4638				
	Plant protection chemicals	1	100	100	Pesticide	500		500		600				
	Weeding	10	50	500						500				
	Second application of urea	1	100	100		2 bags		520		620				
	Harvest	12.5	50	625						625	Paddy	55	900	49500
											Fodder	5	1200	6000
	Post harvest processing	12.5	50	625						625				
	Mortality replacement	1	100	100	Seedlings	8	120	960		1060				
Total for year 1										**65555**				**97850**
2	Irrigation	24	100	2400		Electricity and Pumpset maintenance			6000	8400				
	Land preparation for first (summer) crop	11.25	450/hr	5063					20000	25063				
	Application of FYM	10	100	1000	FYM	10	300	3000		4000				
	Nursery preparation for Finger millet	2	100	200	Finger millet	5	8/kg	40		240				
				0	Chemical fertilisers			1088		1088				

	Transplanting	6	100	600						600				
	Application of chemical fertilisers	2	100	200	Fertilisers	2.5 bags urea,2.5 bags DAP, 2.5 bags potash, 2.5 bags 20-20		4138		4338				
	Weeding	10	50	500						500				
	Second application of urea	2	100	200		2 bags		520		720				
	Harvest	12.5	50	625						625	Finger millet	35	850	29750
											Fodder	9	1400	12600
	Post harvest processing	12.5	50	625						625				
	Land preparation for paddy *kharif* crop (jaya)	11.25	450/hr	5063						5063				
	Application of FYM	10	100	1000	FYM	10	300	3000		4000				
	Nursery preparation for paddy	2	100	200	Seeds	62	10	620		820				
				0	Chemical fertilisers			205		205				
	Transplanting	6	100	600						600				
	Application of chemical fertilisers	5	100	500	Fertilisers	2.5 bags urea, 2.5 DAP, 2.5 bags potash, 2.5 bags 20-20		4138		4638				
	Plant protection chemicals	1	100	100	Pesticide	500		500		600				
	Weeding	10	50	500						500				
	Second application of urea	1	100	100		2 bags		520		620				
	Harvest	12.5	50	625						625	Paddy	55	900	49500
											Fodder	5	1200	6000
	Post harvest processing	12.5	50	625						625				
Total for year 2										**64495**				**97850**
Total for year 3		**Costs and benefits similar to year 2**								**64495**				**97850**
4	Irrigation*	24	100	2400		Electricity and maintenance of pumpset		6000		8400				
	Land preparation for first(summer) crop	11.25	450/hr	5063					20000	25063				
	Application of FYM	10	100	1000	FYM	10	300	3000		4000				
	Nursery preparation for Finger millet	2	100	200	Finger millet	5	8/kg	40		240				
				0	Chemical fertilisers			1048		1048				
	Transplanting	6	100	600						600				
	Application of chemical fertilisers	2	100	200	Fertilisers	2.5 bags urea, 2.5 bags DAP, 2.5 bags potash, 2.5 bags 20-20		4138		4338				
	Weeding	10	50	500						500				
	Second application of urea	2	100	200		2 bags		520		720				
	Harvest	12.5	50	625						625	Finger millet(25% Loss)	25	850	21250

											Fodder	6	1400	8400
	Post harvest processing	10	50	500						500				
	Land preparation for paddy *kharif* crop (jaya)	11.25	450/hr	5063						5063				
	Application of FYM	10	100	1000	FYM	10	300	3000		4000				
	Nursery preparation for paddy	2	100	200	Seeds	62	10	620		820				
				0	Chemical fertilisers			205		205				
	Transplanting	6	100	600						600				
	Application of chemical fertilisers	5	100	500	Fertilisers	2.5 bags urea, 2.5 bags DAP, 2.5 bags potash, 2.5 bags 20-20		4138		4638				
	Plant protection chemicals	1	100	100	Pesticide			500		600				
	Weeding	10	50	500						500				
	Second application of urea	1	100	100		2 bags		520		620				
	Harvest	12.5	50	625						625	Paddy (50% Loss)	28	900	25200
											Fodder	2.5	1200	3000
	Post harvest processing	8	50	400						400				
	Fallen fronds from coconut											80	2	160
Total for year 4										**64105**				**58010**
5	Irrigation	24	100	2400		Electricity charges and maintenance of pumpset		4500		6900				
	Land preparation for first(summer)[2] crop	11.25	450/hr	5063					20000	25063				
	Application of FYM	6.25	100	625	FYM	5	300	1500		2125				
	Broadcasting of horse gram seeds	3	100	300	Seeds	25 kg	14	350		650				
	Application of chemical fertilisers	2	100	200	Fertiliser	1 bags urea+1 bag DAP+1 bag Potash		1235		1435				
	Weeding	25	50	1250						1250				
	Harvest	10	50	500						500	Horse gram	10	1400	14000
	Post harvest processing	10	50	500						500				
	Land preparation for paddy *kharif* crop (raasi)	11.25	450/hr	5063						5063				
	Application of FYM	10	100	1000	FYM	10	300	3000		4000				
	Nursery preparation for paddy	2	100	200	Seeds	62	10	620		820				
				0	Chemical fertilisers			205		205				
	Transplanting	6	100	600						600				
	Application of chemical fertilisers	5	100	500	Fertilisers	2.5 bags urea,2.5 bags DAP, 2.5 bags potash, 2.5 bags 20-20		4138		4638				
	Plant protection chemicals	1	100	100	Pesticide	500		500		600				
	Weeding	10	50	500						500				

	Second application of urea	1	100	100		2 bags		520		620				
	Harvest	12.5	50	625						625	Paddy	32	900	28800
											Fodder	4	1200	4800
	Post harvest processing	12.5	50	625						625				
	Land preparation for third (rabi) crop	11.25	450/hr	5063						5063				
	Application of FYM	10	100	1000	FYM	10	300	3000		4000				
	Nursery preparation for Finger millet (Indaf-7)	2	100	200	Finger millet	5	8/kg	40		240				
				0	Chemical fertilisers			1088		1088				
	Transplanting	6	100	600						600				
	Application of chemical fertilisers	2	100	200	Fertilisers	2.5 bags urea, 2.5 bags DAP, 2.5 bags potash, 2.5 bags 20-20		4138		4338				
	Weeding	10	50	500						500				
	Second application of urea	2	100	200		2 bags		520		720				
	Harvest	12.5	50	625						625	Finger millet	31	850	26420
											Fodder	9	1400	12600
	Post harvest processing	12.5	50	625						625				
	Fallen fronds											80	2	160
Total for year 5										**74518**				**86780**
6	Land preparation for all crops	3.75 hr	450/hr	1688					20000	21688				
	Application of FYM	10	100	1000	FYM	10	300	3000		4000				
	Channeling	1	100	100				0		100				
	Planting [3]	5	100	500	Seedlings	8000	0.6	4800		5300				
	Irrigation	24	100	2400		Electricity and maintenance of pumpset		6000		8400				
	Application of chemical fertilisers and closing of channels	8	100	800	2Urea+2 DAP+1 potash			2470		3270				
	Staking	3	100	300	Stakes	2000	5	10000		10300				
	Application of PPC	2	100	200	PPC			10108		10308				
	Harvesting tomatoes	170	50	8500	Packing cases	6800	3	20400		28900	Tomatoes	60	5000	300000
	Removing plant residues	5	100	500						500				
	Land preparation for *kharif* crop	6.75	450/hr	3038						3038				
	Application of FYM	6	100	600	FYM	6	300	1800		2400				
	Nursery preparation for Finger millet	1	100	100	Finger millet	3	8/kg	24		124				
				0	Chemical fertilisers			510		510				
	Transplanting	3.6	100	360						360				
	Application of chemical fertilisers	1	100	100	Fertilisers	2.5 bags urea, 2.5 bags DAP		2400		2500				
	Weeding	10	50	500						500				
	Second application of urea	2	100	200		2 bags		520		720				

	Harvest	8	50	400						400	Finger millet	21	850	17850
											Fodder	5.4	1400	7560
	Post harvest processing	8	50	400						400				
	Fallen fronds										Fronds	80	2	160
Total for year 6										**103718**				**325570**
7	Irrigation	24	100	2400		Electricity and maintenance of pumpset			6000	8400				
	Land preparation for all crops	3.75 hr	450/hr	1688					20000	21688				
	Application of FYM	10	100	1200		10	300	3000		4200				
	Pitting for pumpkin	10	100	1000						1000				
	Pit filling, covering	5.5	100	550	Seeds	1	300	300		850				
	Sowing and watering	2	100	200						200				
	Application of chemical fertilisers	5	100	500	4 20:20 + 1 potash			1955		2455				
	Application of PPC	2	100	200	PPC			8000		8200				
	Harvesting pumpkins	6	100	600						600	Pumpkin	12	3500	42000
	Land preparation for *kharif* crop	6.75	450/hr	3038						3038				
	Application of FYM	6	100	600	FYM	6	300	1800		2400				
	Nursery preparation for Finger millet	1	100	100	Finger millet	3	8/kg	24		124				
				0	Chemical fertilisers			205		205				
	Transplanting	3.6	100	360						360				
	Application of chemical fertilisers	1	100	100	Fertilisers	2.5 bags urea, 2.5 bags DAP		2400		2500				
	Weeding	10	50	500						500				
	Second application of urea	2	100	200		2 bags		520		720				
	Harvest	8	50	400						400	Finger millet	21	850	17850
											Fodder	5.4	1400	7560
	Post harvest processing	8	50	400						400				
	Removing plant residues	5	100	500						500				
	Fallen fronds										Fronds	80	2	160
	Harvest	2	100	200						200	Coconuts[4]	1440	4	5760
Total for year 7										**58940**				**73330**
8	Cost for annual crops(finger millet in summer and paddy in *kharif*) similar to year 2									64495	Finger millet	35	850	29750
	Harvest	2	100	200						200	Fodder	9	1400	12600
											Paddy	55	900	49500
											Fodder	5	1200	6000
											Coconuts	1800	4	7200
											Fronds	108	2	216
											Spathes	252	1.5	378
Total for year 8										**64695**				**105644**

9	Cost and benefits for annual crops (drought year, finger millet and paddy similar to year 4)									64105				58010
	Harvest	2.40	100	240						240	Coconuts	1040	4	4160
											Fronds	144	2	288
											Spathe	324	1.5	486
Total for year 9										**64345**				**62944**
10	Irrigation	24	100	2400		Electricity and maintenance of pumpset			4500	6900				
	Land preparation for first (summer) crop	11.25	450/hr	5063					20000	25063				
	Application of FYM	6.25	100	625	FYM	5	300	1500		2125				
	Broadcasting of horse gram seeds	3	100	300	Seeds	25 kg	14	350		650				
	Application of chemical fertilisers	2	100	200	Fertiliser	1 bags urea+1 bag DAP+1 bag Potash		1235		1435				
	Weeding	25	50	1250						1250				
	Harvest	10	50	500						500	Horse gram	10	1400	14000
	Post harvest processing	10	50	500						500				
	Land preparation for paddy *kharif* crop (raasi)	11.25	450/hr	5063						5063				
	Application of FYM	10	100	1000	FYM	10	300	3000		4000				
	Nursery preparation for paddy	2	100	200	Seeds	62	10	620		820				
				0	Chemical fertilisers			205		205				
	Transplanting	6	100	600						600				
	Application of chemical fertilisers	5	100	500	Fertilisers	2.5 bags urea,2.5 bags DAP, 2.5 bags potash, 2.5 bags 20-20		4138		4638				
	Plant protection chemicals	1	100	100	Pesticide	500		500		600				
	Weeding	10	50	500						500				
	Second application of urea	1	100	100		2 bags		520		620				
	Harvest	12.5	50	625						625	Paddy	42.5	900	38250
											Fodder	3.85	1200	4620
	Post harvest processing	12.5	50	625						625				
	Land preparation for third (rabi) crop	11.25	450/hr	5063						5063				
	Application of FYM	10	100	1000	FYM	10	300	3000		4000				
	Nursery preparation for Finger millet (Indaf-7)	2	100	200	Finger millet	5	8/kg	40		240				
				0	Chemical fertilisers			1088		1088				
	Transplanting	6	100	600						600				
	Application of chemical fertilisers	2	100	200	Fertilisers	2.5 bags urea, 2.5 bags DAP, 2.5 bags potash, 2.5 bags 20-20		4138		4338				
	Weeding	10	50	500						500				

	Second application of urea	2	100	200		2 bags		520		720				
	Harvest	12.5	50	625						625	Finger millet	35	850	29750
											Fodder	9	1400	12600
	Post harvest processing	12.5	50	625						625				
	Harvest	3	100	300						300	Coconuts	1800	4	7200
											Fronds	180	2	360
											Spathe	360	1.5	540
Total for year 10										**74818**				**107320**
11	Land preparation for all crops	3.75 hr	450/hr	1688					20000	21688				
	Application of FYM	10	100	1000	FYM	10	300	3000		4000				
	Channeling	1	100	100				0		100				
	Planting of tomato	5	100	500	Seedlings[4]	8000	0.6	4800		5300				
	Irrigation	24	100	2400		Electricity and Maintenance of pumpset			6000	8400				
	Application of chemical fertilisers and closing of channels	8	100	800	2Urea+2 DAP+1 potash			2470		3270				
	Staking	3	100	300	Stakes	2000	5	10000		10300				
	Application of PPC	2	100	200	PPC			10108		10308				
	Harvesting tomatoes	174	50	8700	Packing cases	6800	3	20400		29100	Tomatoes	60	5000	300000
	Removing plant residues	5	100	500						500				
	Land preparation for *kharif* crop	6.75	450/hr	3038						3038				
	Application of FYM	6	100	600	FYM	6	300	1800		2200				
	Nursery preparation for Finger millet	1	100	100	Finger millet	3	8/kg	24		124				
				0	Chemical fertilisers			510		510				
	Transplanting	3.6	100	360						360				
	Application of chemical fertilisers	1	100	100	Fertilisers	2.5 bags urea,2.5 DAP, 2.5 potash, 2.5 bags 20-20		4138		4238				
	Weeding	10	50	500						500				
	Second application of urea	2	100	200		2 bags		520		720				
	Harvest	8	50	400						400	Finger millet	21	850	17850
											Fodder	5.4	1400	7560
	Post harvest processing	8	50	400						400				
	Harvest	3	100	300						300	Coconuts	1980	4	7920
				0							Fronds	216	2	432
				0							Spathe	396	1.5	594
Total for the year 11										**105756**				**334356**
12	Irrigation	24	100	2400		Electricity and Maintenance of pumpset			6000	8400				
	Land preparation for all crops	3.75 hr	450/hr	1688					20000	21688				
	Application of FYM	10	100	1200		10	300	3600		4800				

	Pitting	10	100	1000						1000				
	Pit filling ,covering	4	100	400	Seeds	1	300	300		700				
	Sowing and watering	2	100	200						200				
	Application of chemical fertilisers	4	100	400	4 20:20 + 1 potash			1955		2355				
	Application of PPC	2	100	200	PPC			8000		8200				
	Harvesting pumpkins	5	100	500						500	Pumpkin	12	3500	42000
	Land preparation for *kharif* crop	6.75	450/hr	3038						3038				
	Application of FYM	5	100	500	FYM	6	300	1800		2300				
	Nursery preparation for Finger millet	1	100	100	Finger millet	3	8/kg	24		124				
				0	Chemical fertilisers			510		510				
	Transplanting	3.6	100	360						360				
	Application of chemical fertilisers	1	100	100	Fertilisers			2045		2145				
	Weeding	10	50	500						500				
	Second application of urea	2	100	200		2 bags		520		720				
	Harvest	8	50	400						400	Finger millet	21	850	17850
											Fodder	5.4	1400	7560
	Post harvest processing	8	50	400						400				
	Harvest	3	100	300						300	Coconuts	1980	4	7920
				0							Fronds	252	2	504
				0							Spathe	432	1.5	648
Total for year 12										**58640**				**76482**
13	Cost and benefits for annual crops (finger millet and paddy similar to year 2)									64495				97850
	Harvest	3.6	100	360						360	Coconuts	2160	4	8640
				0							Fronds	288	2	576
				0							Spathe	468	1.5	702
Total for year 13										**64855**				**107768**
14	Irrigation (DROUGHT YEAR)	24	100	2400		Electricity and maintenance of pumpset			6000	8400				
	Land preparation for first (summer) crop	11.25	450/hr	5063					20000	25063				
	Application of FYM	10	100	1000	FYM	10	300	3000		4000				
	Nursery preparation for Finger millet	2	100	200	Finger millet	5	8/kg	40		240				
				0	Chemical fertilisers			1088		1088				
	Transplanting	6	100	600						600				
	Application of chemical fertilisers	2	100	200	Fertilisers	2.5 bags urea,2.5 DAP, 2.5 bags potash, 2.5 bags 20-20		4138		4338				
	Weeding	10	50	500						500				

	Second application of urea	2	100	200		2 bags		520		720				
	Harvest	12.5	50	625						625	Finger millet(25% LOSS)	25	850	21250
											Fodder	6	1400	8400
	Post harvest processing	10	50	500						500				
	Land preparation for paddy *kharif* crop (jaya)	11.25	450/hr	5063						5063				
	Application of FYM	10	100	1000	FYM	10	300	3000		4000				
	Nursery preparation for paddy	2	100	200	Seeds	62	10	620		820				
				0	Chemical fertilisers			165		165				
	Transplanting	6	100	600						600				
	Application of chemical fertilisers	5	100	500	Fertilisers	2.5 bags urea,2.5 bags DAP, 2.5 bags potash, 2.5 bags 20-20		4138		4638				
	Plant protection chemicals	1	100	100	Pesticide	500		500		600				
	Weeding	10	50	500						500				
	Second application of urea	1	100	100		2 bags		520		620				
	Harvest	12.5	50	625						625	Paddy(50 % LOSS)	28	900	25200
											Fodder	2.5	1200	3000
	Post harvest processing	8	50	400						400				
	Harvest	4	100	400						400	Coconuts	1296	4	5184
				0							Fronds	324	2	648
				0							Spathe	504	1.5	756
Total for year 14										**64505**				**64438**
15	Cost and benefits for annual crops (finger millet and paddy similar to year 5)									74518				86620
	Harvest	5	100	500						500				
											Coconuts	1990	4	7960
											Fronds	360	2	720
											Spathe	540	1.5	810
Total for year 15										**75018**				**96110**
16	Cost and benefits of annual crops (tomato and finger millet) similar to the year 11									105456				325410
	Harvest	5	100	500						500	Coconuts	2340	4	9360
				0							Fronds	396	2	792
				0							Spathe	576	1.5	864
Total for year 16										**105956**				**336426**
17	Irrigation	24	100	2400		Electricity and Maintenance of pumpset			6000	8400				

	Land preparation for all crops	3.75 hr	450/hr	1688					20000	21688				
	Application of FYM	10	100	1200		10	300	3600		4800				
	Pitting	10	100	1000						1000				
	Pit filling, covering	4	100	400	Seeds	1	300	300		700				
	Sowing and watering	2	100	200						200				
	Application of chemical fertilisers	4	100	400	4 20:20 + 1 potash			1955		2355				
	Application of PPC	2	100	200	PPC			6000		6200				
	Harvesting pumpkins	5	100	500						500				
	Land preparation for *kharif* crop	6.75	450/hr	3038						3038	Pumpkin	12	3500	42000
	Application of FYM	5	100	500	FYM	6	300	1800		2300				
	Nursery preparation for Finger millet	1	100	100	Finger millet	3	8/kg	24		124				
				0	Chemical fertilisers			510		510				
	Transplanting	3.6	100	360						360				
	Application of chemical fertilisers	1	100	100	Fertilisers		1421			1521				
	Weeding	10	50	500					500					
	Second application of urea	2	100	200		2 bags		520		720				
	Harvest	8	50	400						400				
											Finger millet	21	850	17850
	Post harvest processing	8	50	400						400	Fodder	5.4	1400	7560
	Harvest	5	100	500						500	Coconuts	2520	4	10080
				0							Fronds	432	2	864
				0							Spathe	612	1.5	918
Total for year 17										**56216**				**79272**
18	Cost and benefits for annual crops (finger millet and paddy similar to year 2)									64495				97850
	Harvest	4.6	100	460						460	Coconuts	2520	4	10080
				0							Fronds	468	2	936
				0							Spathe	648	1.5	972
Total for year 18										**64955**				**109838**
19	Irrigation (DROUGHT YEAR)	24	100	2400		Electricity and Pumpset maintenance			6000	8400				
	Land preparation for first (summer) crop	11.25	450/hr	5063					20000	25063				
	Application of FYM	10	100	1000	FYM	10	300	3000		4000				
	Nursery preparation for Finger millet	2	100	200	Finger millet	5	8/kg	40		240				
				0	Chemical fertilisers			1088		1088				
	Transplanting	6	100	600						600				
	Application of chemical fertilisers	2	100	200	Fertilisers	2.5 bags urea, 2.5 bags DAP, 2.5 bags potash, 2.5		3388		3588				

						bags 20-20								
	Weeding	10	50	500						500				
	Second application of urea	2	100	200		2 bags		500		700				
	Harvest	12.5	50	625						625	Finger millet(25 % LOSS)	25	850	21250
											Fodder	6	1400	8400
	Post harvest processing	10	50	500						500				
	Land preparation for paddy *kharif* crop (jaya)	11.25	450/hr	5063						5063				
	Application of FYM	10	100	1000	FYM	10	300	3000		4000				
	Nursery preparation for paddy	2	100	200	Seeds	62	10	620		820				
				0	Chemical fertilisers			205		205				
	Transplanting	6	100	600						600				
	Application of chemical fertilisers	5	100	500	Fertilisers	2.5 bags urea, 2.5 bags DAP, 2.5 bags potash, 2.5 bags 20-20		3388		3888				
	Plant protection chemicals	1	100	100	Pesticide	500		500		600				
	Weeding	10	50	500						500				
	Second application of urea	1	100	100		2 bags		500		600				
	Harvest	12.5	50	625						625	Paddy(50 % LOSS)	28	900	25200
											Fodder	2.5	1200	3000
	Post harvest processing	8	50	400						400				
	Harvest	5	100	500						500	Coconuts	1620	4	6480
				0							Fronds	504	2	1008
				0							Spathe	684	1.5	1026
Total for year 19										**63105**				**66364**
20	Irrigation	24	100	2400		Electricity charges and maintenance of pumpset		4500		6900				
	Land preparation for first (summer) crop	11.25	450/hr	5063					20000	25063				
	Application of FYM	6.25	100	625	FYM	5	300	1500		2125				
	Broadcasting of horsegram seeds	3	100	300	Seeds	25 kg	14	350		650				
	Application of chemical fertilisers	2	100	200	Fertiliser	1 bags urea+1 bag DAP+1 bag Potash		1235		1435				
	Weeding	25	50	1250						1250				
	Harvest	10	50	500						500	Horse gram	10	1400	14000
	Post harvest processing	10	50	500						500				
	Land preparation for paddy *kharif* crop (raasi)	11.25	450/hr	5063						5063				
	Application of FYM	10	100	1000	FYM	13	300	3900		4900				
	Nursery preparation for paddy	2	100	200	Seeds	62	10	620		820				
				0	Chemical			205		205				

					fertilisers									
	Transplanting	6	100	600						600				
	Application of chemical fertilisers	5	100	500	Fertilisers	2.5 bags urea,2.5 bags DAP, 2.5 bags potash, 2.5 bags 20-20		4138		4638				
	Plant protection chemicals	1	100	100	Pesticide	500		500		600				
	Weeding	10	50	500						500				
	Second application of urea	1	100	100		2 bags		520		620				
	Harvest	12.5	50	625						625	Paddy	42.5	900	38250
											Fodder	3.85	1200	4620
	Post harvest processing	12.5	50	625						625				
	Land preparation for third (rabi) crop	11.25	450/hr	5063						5063				
	Application of FYM	10	100	1000	FYM	12	300	3600		4600				
	Nursery preparation for Finger millet (Indaf-7)	2	100	200	Finger millet	5	8/kg	40		240				
				0	Chemical fertilisers			1088		1088				
	Transplanting	6	100	600						600				
	Application of chemical fertilisers	2	100	200	Fertilisers	2.5 bags urea,2.5 bags DAP, 2.5 bags potash, 2.5 bags 20-20		4138		4338				
	Weeding	10	50	500						500				
	Second application of urea	2	100	200		2 bags		520		720	Finger millet	35	850	29750
	Harvest	12.5	50	625						625	Fodder	9	1400	12600
	Post harvest processing	12.5	50	625						625				
	Harvest	5	100	500							Coconuts	2800	4	11200
											Fronds	540	2	1080
											Spathe	720	1.5	1080
Total for year 20										**76518**				**112580**

[1] Irrigated finger millet in summer, paddy during *kharif* seasons

[2]Every five years horse gram to replenish soil fertility

[3] Vegetable rotations (tomato +0.6 ha finger millet and pumpkin+0.6 ha finger millet) assumed

[4] 90% survival,40 coconuts/tree

grains in quintals; Coconut, Spathe and fronds etc. in numbers,vegetable in tonnes

DAP: Diammonium phosphate (1 bag= 50 kg)

5. Borewell irrigated sugarcane (SC)

Year	Activities	Costs									Benefits			
		Labour			Material				Land Rent Rs./ Annum	Total Cost Rs.	Kind	Quantity	Price Rs./ Unit	Revenue Rs.
		Person days	Wage rate Rs./day	Cost Rs.	Kind	Quantity (s)	Price Rs.	Cost Rs.						
1	Borewell establishment including materials, labour and electricity connection									100000				
	Land preparation	5 hrs ploughing with rotary tractor(Rs. 600/hr) and 7.5 hrs of ploughing with normal tractor (Rs. 450/hr)						6375	20000	26375				
	Planting	12	100	1200	Cuttings	8	1100	8800		10000				
	FYM application	20	100	2000	FYM	25	300	7000		9500				
	Irrigation	24	100	2400	Electricity and Pumpset maintenance			5500		7900				
	Weeding	40	50	2000						2000				
	Application of plant protection chemicals	1	100	100	PPC			3750		3850				
	Application of chemical fertilisers	5	100	500	Chemical fertilisers			18750		19250				
	Harvest and transport	Rs. 250 /								25000	Sugarcane	100	1500	150000
Total for year 1										**203875**				**150000**
2	Land ploughing using cooper	5 bd	350	1750					20000	21750				
	Gap filling[1]	4	100	400	Cuttings	1	1100	1100		1500				
	FYM application	20	100	2000	FYM	25	300	7000		9500				
	Irrigation	24	100	2400	Electricity and Pumpset maintenance			6000		8400				
	Weeding	40	50	2000						2000				
	Application of plant protection chemicals	1	100	100	PPC			3750		3850				
	Application of chemical fertilisers	5	100	500	Chemical fertilisers			18750		19250				
	Harvest and transport	Rs. 250/								21875	Sugarcane	87.5	1500	131250
Total for year 2										**88125**				**131250**
3	Land ploughing using cooper	5 bd	350	1750					20000	21750				
	Gap filling[1]	4	100	400	Cuttings	1	1100	1100		1500				
	FYM application	20	100	2000	FYM	25	300	7000		9500				

	Irrigation	24	100	2400	Electricity and Pumpset maintenance			6000		8400				
	Weeding	40	50	2000						2000				
	Application of plant protection chemicals	1	100	100	PPC			3750		3850				
	Application of chemical fertilisers	5	100	500	Chemical fertilisers	1		18750		19250				
	Harvest and transport	Rs. 250/								20000	Sugarcane	80	1500	120000
Total for year 3										**86250**				**120000**
4	Land ploughing using cooper	5 bd	350	1750					20000	21750				
	Gap filling	4	100	400	Cuttings	1	1100	1100		1500				
	FYM application	20	100	2000	FYM	25	300	7000		9500				
	Irrigation	24	100	2400	Electricity and Pumpset maintenance			6000		8400				
	Weeding	40	50	2000						2000				
	Application of plant protection chemicals	1	100	100	PPC			3750		3850				
	Application of chemical fertilisers	5	100	500	Chemical fertilisers			18750		19250				
	Harvest and transport	Rs. 250/								18750	Sugarcane	75	1500	112500
	Burning crop residues	5	100	500						500				
Total for year 4										**85500**				**112500**
5	Land preparation for first (summer)[2] crop	11.25	450/hr	5063					20000	25063				
	Application of FYM	5	100	500	FYM	5	300	1500		2000				
	Broadcasting of horse gram seeds	3	100	300	Seeds	25 kg	14	350		650				
	Application of chemical fertilisers	2	100	200	Fertiliser	1 bags urea+1 bag DAP+1 bag Potash		1235		1435				
	Weeding	25	50	1250						1250				
	Harvest	10	50	500						500	Horse gram	8	1400	11200
	Post harvest processing	10	50	500						500				
	Land preparation for second (*kharif*) crop	11.25	450/hr	5063						5063				
	Application of FYM	10	100	1000	FYM	10	300	3000		4000				
	Sowing of finger millet, field beans and cow pea and sorghum	3	100	300	Finger millet	10	8/kg	80		380				
		1 BD	350	350	Dolichos beans	1.5	20/kg	30		380				
					Cow pea	1	14	14		14				
					Sorghum	0.375	10	3.75		3.75				
	Hoeing	1 BD	350	350						350				
	Gap planting	2 BD	350	700						700				
	Application of chemical fertilisers	2	100	200	Fertiliser	2 .5 bags urea+2.5 bags DAP		2400		2600				

	Weeding	25	50	1250						1250				
	Harvest	12.5	50	625						625	Finger millet	13.6	850	11560
										0	Field beans	0.4	1700	680
										0	Cow pea	0.4	1350	540
										0	Sorghum	0.28	800	224
										0	Finger millet straw	2.2	1400	3080
											Sorghum straw	0.2	800	160
	Post harvest processing	12.5	50	625						625				
Total for year 5										**47388.75**				**27444**
6	Land preparation	5 hrs ploughing with rotary tractor(Rs. 600/hr) and 7.5 hrs of ploughing with normal tractor (Rs. 450/hr)						6375	20000	26375				
	Planting	12	100	1200	Cuttings	8	1100	8800		10000				
	FYM application	20	100	2000	FYM	25	300	7000		9500				
	Irrigation	24	100	2400	Electricity and Pumpset maintenance			6000		8400				
	Weeding	40	50	2000						2000				
	Application of plant protection chemicals	1	100	100	PPC			3750		3850				
	Application of chemical fertilisers	5	100	500	Chemical fertilisers			18750		19250				
	Harvest and transport	Rs. 250 /								25000	Sugarcane	100	1500	150000
Total for year 6										**104375**				**150000**
Total for year 7		Costs and benefits similar to year 2								**88125**				**131250**
Total for year 8		Costs and benefits similar to year 3								**86250**				**120000**
Total for year 9		Costs and benefits similar to year 4								**85500**				**112500**
Total for year 10		Costs and benefits similar to year 5								**47388.75**				**27444**
Total for year 11		Costs and benefits similar to year 6								**104375**				**150000**
Total for year 12		Costs and benefits similar to year 2								**88125**				**131250**
Total for year 13		Costs and benefits similar to year 3								**86250**				**120000**
Total for year 14		Costs and benefits similar to year 4								**85500**				**112500**
Total for year 15		Costs and benefits similar to year 5								**47388.75**				**27444**
Total for year 16		Costs and benefits similar to year 6								**104375**				**150000**
Total for year 17		Costs and benefits similar to year 2								**88125**				**131250**
Total for year 18		Costs and benefits similar to year 3								**86250**				**120000**
Total for year 19		Costs and benefits similar to year 4								**85500**				**112500**
Total for year 20		Costs and benefits similar to year 4								**85500**				**112500**

[1] Rattooning assumed from 2nd year to 4th year, upto 75% yield reduction in 4th year

[2] Horse gram and rainfed finger millet with intercrops to replenish soil fertility once in five years

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