

Cost of cultivation for main plantation of large cardamom (*Amomum subulatum* Roxb.) in Sikkim region for 2021-22

Particulars	1 st year				2 nd year				3 rd year				4 th year			
	Input		Labour		Input		Labour		Input		Labour		Input		Labour	
	Qty.	Cost	No. Of Mandays	Cost	Qty.	Cost	No. Of Mandays	Cost	Qty.	Cost	No. Of Mandays	Cost	Qty.	Cost	No. Of Mandays	Cost
Land preparation	-	-	80	24,000	-	-	8	2400	-	-	8	2400	-	-	8	2400
Planting & after care (Planting unit cost @Rs.9/-)	4400 nos.	39,600	24	7,200	440	3960	3	900	-	-	3	900	--	-	3	900
Manuring @2 round (Manure cost @Rs.4.0/kg)	13,200 kg	52,800	15	4500	13,200 kg	52,800	15	4500	13200 kg	52,800	15	4500	22,000 Kg	88,000	20	6000
Weeding & mulching @2 round	-	-	20	6000	-	-	20	6000	-	-	20	6000	-	-	20	6000
Plant protection measures (Bio agent/ neem based product/ COC)	36Kg	11,000	10	3000	36Kg	11,000	10	3000	40Kg	12,000	12	3600	50Kg	15,000	15	4500
Agricultural Equipments and Irrigation	Tank and pipes	40,000	20	6000	-	-	20	6000	-	-	20	6000	-	5000	24	7200
Harvesting & Curing	-	-	-	-	-	-	-	-	Bhatti	60,000	10	3000	-	-	20	6000
Miscellaneous	-	5000	-	-	-	5000	-	-	-	5000	-	-	-	5000	-	-
expenditure		1,48,400	169	50,700		72,760	76	22,800	-	1,29,800	88	26,400		1,13,000	110	33,000
Total expenditure	1,99,100				95,560				1,56,200				1,46,000			

Particulars	5 th year				6 th year				7 th year				8 th year			
	Input		Labour		Input		Labour		Input		Labour		Input		Labour	
	Qty.	Cost	No. Of Mandays	Cost	Qty.	Cost	No. Of Mandays	Cost	Qty.	Cost	No. Of Mandays	Cost	Qty.	Cost	No. Of Mandays	Cost
Land preparation including	-	-	8	2400	-	-	8	2400	-	-	-	-	-	-	-	-
Planting & after care (Planting unit cost @Rs.9/-)	Own	-	3	900	Own	-	3	900	Own	-	-	-	-	-	-	-
Manuring @2 round(Manure cost @Rs.4.0/kg)	22,000 Kg	88,000	20	6000	22,000 Kg	88,000	20	6000	22,000 Kg	88,000	20	6000	20000 Kg	80,000	18	5400
Weeding & mulching @2 round	-	-	20	6000	-	-	20	6000	-	-	20	6000	-	-	20	6000
Plant protection measures (Bio agent/ neem based product/ COC)	50Kg	15,000	15	4500	50Kg	15,000	15	4500	50Kg	15,000	15	4500	50Kg	10,000	15	4500
Agricultural Equipments and Irrigation			24	7200	-	-	24	7200	-	-	24	7200	-	-	20	6000
Harvesting & Curing	-	-	20	6000	-	-	25	7500	-	-	25	7500	-	-	20	6000
Miscellaneous	-	5000	-	-	-	5000	-	-	-	5000	-	-	-	5000	-	-
expenditure		1,08,000	110	33,000		108,000	115	34,500		1,08,000	104	31,200		95,000	93	27,900
Total expenditure	1,41,000				1,42,500				1,39,200				1,22,900			

Yield details of cardamom plantation

Year	Yield (dry) (in Kgs per ha)
1 st Year	--
2 nd Year	--
3 rd Year	350
4 th Year	600
5 th Year	650
6 th Year	600
7 th Year	500
8 th Year	400
Total	3100

Year wise Expenditure and Projected Income for 1 ha

Year	Expenditure (Rs)	Total Income @ average price of Rs.500/- per kg (Rs)	Net Income (Rs)
1 st Year	1,99,100	--	- 1,99,100
2 nd Year	95,560	--	-95,560
3 rd Year	1,56,200	1,75,000	+18,800
4 th Year	1,46,000	3,00,000	+1,54,000
5 th Year	1,41,000	3,25,000	+1,84,000
6 th Year	1,42,500	3,00,000	+1,57,500
7 th Year	1,39,200	2,50,000	+1,10,800
8 th Year	1,22,900	2,00,000	+77,100
Total	11,42,460	15,50,000	+407,540

Benefit cost Ratio - 1.35