

**ASSUMPTIONS MADE FOR WORKING OUT COST OF CULTIVATION OF BAMBOO UNDER INDIAN CONDITION for 1000plants / ac**

	cost
Cultivation Area in Ac	1
Spacing (sq.Meters/plant)	4.03
No. of Plants / acre	1000
Mortality Replacement (%)	10
Manure required (cft per plant per year)	2
Fertilizer required (Kg per plant per year)	1.5
Cost of Manure(Rs / cft)	5
Cost of Fertilizer (Rs / Kg)**	5
Plant Protection Rs/ ac	1000
Irrigation Cost / acre (Rs.)	300
Drip system Cost / acre (Rs.)	15000
No. of Irrigations / year	150
TC Plantlet price	25
Transportation cost	2
Labour wages (Rs. / manday)	70
No. of harvestable plants / acre (%)	90
Average Weight of each culm (Kg)	3
Sale price per ton (Rs.)	1800

**YIELD**

Year	III year	IV year	V year	VI year	VII year	VIII year	IX	x Onwards
No. of culms per clump	7	8	9	9	9	9	9	9
No. of culm per acre	7000	8000	9000	9000	9000	9000	9000	9000
Wt. in Kgs / Culm	5.00	7.00	8.00	8.00	8.00	8.00	8.00	8.00
Yield in ton	35.00	56.00	72.00	72.00	72.00	72.00	72.00	72.00
Yield in ton - 90%	30.00	50.00	65.00	65.00	65.00	65.00	65.00	65.00

\* It is assumed that the minimum plot is 5 acres.

\*\* Source of NPK - Urea: Single Super Phosphate : Murite Of Potash

**COST OF CULTIVATON PER ACRE IN INDIAN RUPEES**

Sl.No	Items	Mandays	I year	II year	III year	IV year	V year	VI year	VII year	Total
1	Ploughing ( 1st year - 3 times & IInd year - 1 time)		1,000	-	-	-	-	-	-	1,000
2	Ploughing for Weed Removal			500	500	500	500	500	500	2,000
3	Planting Material		25,000	-	-	-	-	-	-	25,000
	Cost of transport		2,000	200						2,200
4	Mortality Replacement in II year		-	2,500	-	-	-	-	-	2,500
5	Manures		10,000	2,500	0	0	0	1	2	12,500
6	Fertilizers		5,250	7,500	9,375	9,375	9,375	9,375	9,375	40,875
7	Plant Protection		1,000	1,000	1,000	1,000	1,000	1,000	1,000	5,000
8	Irrigation		300	300	300	300	300	300	300	1,500
9	Drip system		18,000	-	-	-	-	-	-	18,000
10	farm management cost		2,500	2,500	2,500	2,500	2,500	2,500	2,500	12,500
11	consultancy		5,000	2,500	2,500	-	-	-	-	10,000
	<b>SUB TOTAL</b>		70,050	19,500	16,175	13,675	13,675	13,676	13,677	133,075

**MANDAYS AND THEIR COST**

1	Land Preparation	10	700							700
2	Digging & Refilling of pits	100	7,000							7,000
3	Planting & Staking	5	350							350
4	Plant Protection / year	5	350	350	350	350	350	350	350	1,750
5	Weeding	25	1,167	583	-	-	-	-	-	1,750
6	Pruning from II year	10	700	700	-	-	-	-	-	1,400
7	Soil working & others	10	700	700	700	700	700	700	700	3,500
8	Harvesting during -3rd year on wards	60	-	-	1,938	3,231	4,200	4,200	4,200	9,369
	<b>SUB TOTAL</b>		10,967	2,333	2,988	4,281	5,250	5,250	5,250	25,819
	<b>GRAND TOTAL</b>		<b>81,017</b>	<b>21,833</b>	<b>19,163</b>	<b>17,956</b>	<b>18,925</b>	<b>18,926</b>	<b>18,927</b>	<b>158,894</b>

Area 10 ac

10

**COST OF CULTIVATION OF BAMBOO IN INDIAN RUPEES for 1000 plants/ Acre**

Rs in laks

Sl.No	Items	I year	II year	III year	IV year	V year	VI year	VII year	Total
1	Ploughing ( 1st year - 3 times & IInd year - 1 time)	10,000	-	-	-	-	-	-	10,000
2	Ploughing for Weed Removal	0	5,000	5,000	5,000	5,000	5,000	5,000	20,000
3	Planting Material	250,000	-	-	-	-	-	-	250,000
	Transport cost	20,000	2,000						22,000
4	Mortality Replacement in II year		25,000	-	-	-	-	-	25,000
5	Manures	100,000	25,000	0	0	0	10	20	125,000
6	Fertilizers	52,500	75,000	93,750	93,750	93,750	93,750	93,750	408,750
7	Plant Protection	10,000	10,000	10,000	10,000	10,000	10,000	10,000	50,000
8	Irrigation	3,000	3,000	3,000	3,000	3,000	3,000	3,000	15,000
9	Drip system	180,000	-	-	-	-	-	-	180,000
10	farm management cost	25,000	25,000	25,000	25,000	25,000	25,000	25,000	125,000
11	consultancy	50,000	25,000	25,000	0	0	0	0	100,000
10	Labour cost	109,667	23,333	29,885	42,808	52,500	52,500	52,500	258,192
	<b>Total</b>	<b>810,167</b>	<b>218,333</b>	<b>191,635</b>	<b>179,558</b>	<b>189,250</b>	<b>189,260</b>	<b>189,270</b>	<b>1,588,942</b>
	CONTINGENCIES @ 5%	40,508	10,917	9,582	8,978	9,463	9,463	9,464	79,447

Govt. Subsidy 0

<b>GRAND TOTAL</b>	<b>850,675</b>	<b>229,250</b>	<b>201,216</b>	<b>188,536</b>	<b>198,713</b>	<b>198,723</b>	<b>198,734</b>	<b>198,734</b>	<b>1,668,389</b>
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	I year	II year	III year	IV year	V year	VI year	VII year	VIII year	IX year	X year	XI year	XII year	XIII year	XIV year	XV year	Total
Total Exp -Rs.	850,675	229,250	201,216	188,536	198,713	198,723	198,734	198,734	198,734	198,734	198,734	198,734	198,734	198,734	198,734	<b>3,655,714</b>
Total Yield -Tons	0.0	0.0	300.0	500.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	<b>7,950.0</b>
Total Income -RS.	0	0	540,000	900,000	1,170,000	1,170,000	1,170,000	1,170,000	1,170,000	1,170,000	1,170,000	1,170,000	1,170,000	1,170,000	1,170,000	<b>14,310,000</b>
Net Income -RS.	<b>-850,675</b>	<b>-229,250</b>	<b>338,784</b>	<b>711,464</b>	<b>971,288</b>	<b>971,277</b>	<b>971,267</b>	<b>971,267</b>	<b>971,267</b>	<b>971,267</b>	<b>971,267</b>	<b>971,267</b>	<b>971,267</b>	<b>971,267</b>	<b>971,267</b>	<b>10,654,286</b>

Cum. Net Income -850,675 -1,079,925 -741,141 -29,677 941,611 1,912,888 2,884,154 3,855,421 4,826,687 5,797,954 6,769,220 7,740,487 8,711,753 9,683,020 10,654,286

**cost per ton in Rs** 4,270 1,837 1,151 889 751 666 608 566 535 510 490 474 460 **460**

**ESTIMATED DETAILS OF EXPENDITURE AND RETURN IN CULTIVATION OF BAMBOO UNDER IRRIGATED CONDITION WITH ADEQUATE FERTILIZER**

**Spacing : 3 X 1.3 (Meters)**

**Plant Population : 1000 NOS**

**Country: Tropical Parts of India**

Sl.No	Particulars	Units	I year	II year	III year	IV year	V year	VI year	VII year	VIII year	IX year	X year	XI year	XII year	XIII year	XIV year	XV year
1	No.of Culms/Clump	Nos.,	-	-	7	8	9	9	9	9	9	9	9	9	9	9	9
2	No.culms acre	Nos.,	-	-	7000	8000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000
4	Weight of the Culm	Kgs	-	-	5.00	7.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
3	Yield per acre	Tons	-	0.00	30.00	50.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00
5	Total Income	Rupees	0	0	54,000	90,000	117,000	117,000	117,000	117,000	117,000	117,000	117,000	117,000	117,000	117,000	117,000
6	Total Expenditure	Rupees	81,017	21,833	19,163	17,956	18,925	18,926	18,927	18,927	18,927	18,927	18,927	18,927	18,927	18,927	18,927
	Govt Subsidy																
7	Net Income	Rupees	<b>-81,017</b>	<b>-21,833</b>	<b>34,837</b>	<b>72,044</b>	<b>98,075</b>	<b>98,074</b>	<b>98,073</b>	<b>98,073</b>	<b>98,073</b>	<b>98,073</b>	<b>98,073</b>	<b>98,073</b>	<b>98,073</b>	<b>98,073</b>	<b>98,073</b>

795

348,163

**Total Income for 15 yrs / Acre in Rupees : 1,431,000**

**Total Expenditure for 15 yrs / Acre in Rupees: 348,163**

**Net Income for 15 yrs / Acre in Rupees: 1,082,837**

**Average cost of bamboo**

**Total yield for 15 yrs in tons 795**

**Total Expenditure for 15 yrs in Rs 348,163**

**Cost of bamboo / ton in Rs 438**