Banana

Plant Name: Banana Scientific Name: Musa Paradisiaca Family: Musaceae Spacing: 5x5, 5x6, 5x7, 6x5, 6x6, 6x7 feet (plant to plant and row to row distance) Varieties: Grand Nain Tissue culture, Blue java Tissue culture

Properties of Banana: India is the largest producer of banana in the world and AP is the leading state in the production followed by Maharashtra, Karnataka, and Tamilnadu. It is a plant of virtue, multi nutritional fruit, rich source of fiber, potassium and vitamins.

Soil: Well drained, medium to black organic matter rich soil, having optimum pH range 6.5-7.5 suitable for cultivation.

Climate: Banana is a Tropical plant requiring hot and humid climate and temperature 20-30° C. Low and high temperatures are harmful for cultivation. Temperature below 10° C affects plant growth. suitable annual rainfall ranging from 100-320 cm.

Production: Production starts in 10-12 months after plantation, 25-30 kg/plant (35-40t/acre).

Banana

Grand Nain Tissue culture

Variety: Grand Nain Tissue culture Plantation date: 06/07/2023 Spacing: 5 x 6 feet Plantation Area: 15 R No. of plants: 580

Character of Grand Nain: G9 is high yielding variety (30kg/plant), long, cylindrical bunch, attractive fruits, good keeping quality & good for long transport. Suitable for tissue culture. Disease and pest resistance.

Production: Average 25-30 kg/plant production goes up to 35-40 kg/plant. (35-40t/acre).



Banana

Blue java Tissue culture

Variety: Grand Nain Tissue culture Plantation date: 06/07/2023 Spacing: 5 x 6 feet Plantation Area: 1.6 R No. of plants: 60

Character of Blue java: Blue java is a hardy cold tolerant banana cultivar, known for its aromatic fruit having ice cream like vanilla flavor and bluish color. This highted banana is also known as ice-cream banana. Fruit size is medium.

Production: 12-15 kg/plant (15-18 t/acre).





Banana Crop Economics



Subject	Сгор	Plantation distance	Total area (acres)	No. of plants
	Banana G9 Tissue Culture	6 x 5 Feet	1 (40 R)	1452
	Details	Expense statement	Expense statement	Expense stateme.
		First year	Second year	Third year
(A) Capital required once at planting time	Soil testing	400	0	0
	Water testing	300	0	0
	Ploughing	2,500	0	0
	Rotavator	2,500	0	0
	Manure 4 trolleys (per trolley 5000x4))	20,000	0	0
	Basal dose	10,000	10,000	10,000
	Bamboo cost	18,000	0	0
	Drip cost	30,000	0	0
	Price per plant (16x1452)	23,232	0	0
	The cost of planting seedling	2,000	0	0
Cost A	Rs.	108,932	10,000	10,000
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(B) Total cost includes till harvesting	Chemical Fertilizer cost	14,400	14,400	14,400
	Spraying cost	8,800	8,800	8,800
	Labour cost	5,000	5,000	5,000
	Other expenses	5,000	5,000	5,000
Cost B	Rs.	33,200	33,200	33,200
Total Cost (A + B)	Rs.	1,41,132	43,200	43,200
	Crop duration	12 Months	24 Months	36 Months
	Fruit Harvesting Period	9 to 12 Months	18 to 24 Months	30 to 36 Months
	Total plants	1,452	-	-
Total Production	Total Plants x Yield per Plant (kg) x Rate per kg (Rs)	1,452 *30 * 9 Rs	1,452 *28 *9 Rs	1,452 *25 *9 Rs
Total income per year		3,92,040	3,65,904	3,26,700
Net profit/Net return	(Total income - Total cost)	3,92,040-1,41,132	3,65,904-43,200	3,26,700-43,200
Net profit		2,50,908	3,22,704	2,83,500
BCR (Cost benifit ratio)	Total income ÷ Total cost	1:2.76	1:8.47	1:7.56

Note: The above planting is at a 6 x 5 feet spacing, but changes in spacing, as well as changes in management practices, land, soil-climate, market, etc., may result in higher cost and lower production