

# Banana



**Contact for more details:**  
82 7373 3030/82 7373 3535

**Plant Name:** Banana

**Scientific Name:** *Musa Paradisiaca*

**Family:** *Musaceae*

**Spacing:** 5x6

**Varieties:** Grand Nain 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 fibre, potassium and vitamins.

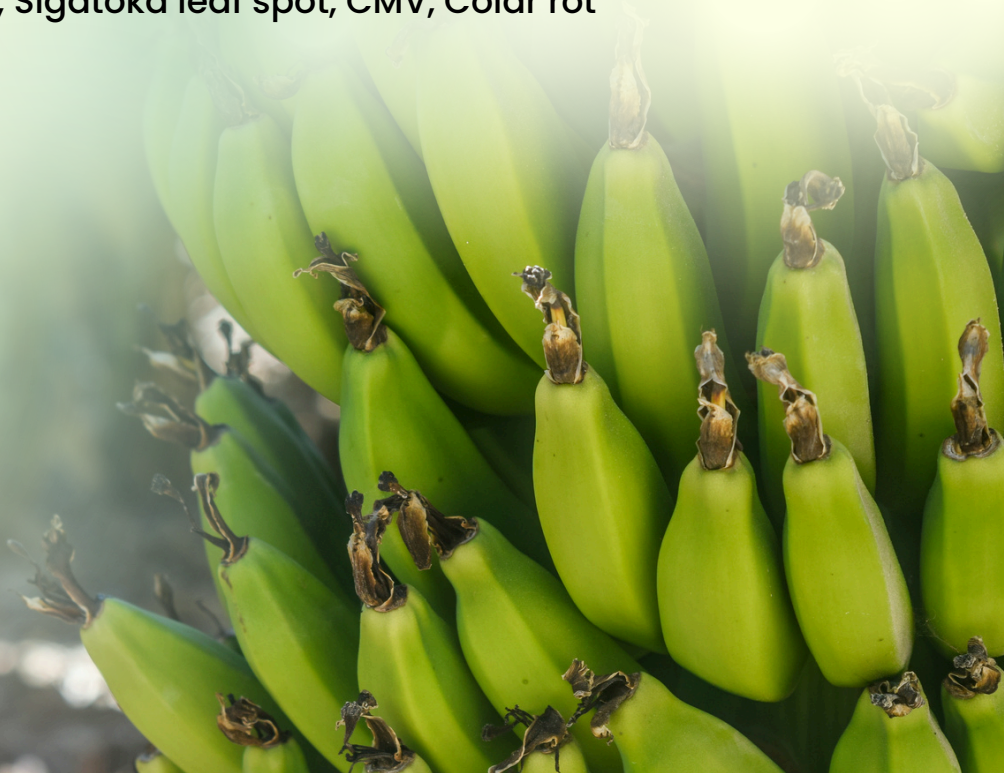
**Soil:** Well drained, medium to black soil, rich in organic matter, having optimum pH range 6.5-7.5 suitable for cultivation.

**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 and more than 40° 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).

**Pest:** Leaf eating caterpillar, Thrips, Aphid, Red spider mite, White fly.

**Disease:** Erwinia root rot, Sigatoka leaf spot, CMV, Colar rot



# Banana

## *Grand Nain Tissue culture*



**Contact for more details:**  
82 7373 3030/82 7373 3535

**Variety:** Grand Nain Tissue culture

**Plantation date:** Upcoming Plantation Spet-October 2025

**Spacing:** 6 x 5 Feet

**Plantation Area:** 20 R

**No. of plants:** 650 plants

**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 Crop Economics



Contact for more details:  
82 7373 3030/82 7373 3535

Subject	Crop	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 statement
		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
(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 benefit 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				