

Hi-Tech Fruits Farming

KVKs : Balaghat , Betul , Chhindwara, Dindori , Damoh, Harda, Katni, Satna, Mandla, Narsinghpur, Panna, Rewa, Sagar , Shahdol , Seoni, Tikamgarh, Umaria, Badwani , Dhar , Jhabua, Shivpuri , Khandwa, Indore, Ratlam , Mandsaur, Bhind, Neemuch, Guna, Shajapur, Durg, Bhatapara, Dantewara, Kanker, Kawardha, Rajnandgoan, Bilaspur, Surguja, Mahasamund

Description of technology adopted

High value fruit crops such as bananas, papayas etc. are suited to maximum production by using plastic mulches with following advantages-

- ▶ Tissue culture banana was planted at 1.5x1.5 meter row and plant distance with drip irrigation and fertigation.
- ▶ Tissue culture seedlings were treated with carbendazim + thiram @ 1+2 gram/liter of water followed by Imidacloprid @ 0.3 ml/liter of water, Integrated nutrient management with N: P: K (75:100:50 kg/ha)
- ▶ Timely trimming and pruning with application of bio-manures and bio-agents.
- ▶ New variety of papaya grown on drip fertigation with plastic mulch have been control of weed incidence higher water use efficiency, water and fertilizer saving, check soil erosion and 8-10 times more improved quality yield.

S.No.	Characteristics	Observation (Unit)
1.	Yield enhancement (%)	40
2.	Water saving (%)	15-22
3.	Water and fertilizer use efficiency (%)	70-80
4.	Yield qt/ha A. Banana B. Papaya C. Guava D. Mango (at the age of 6 th yr.)	1050-1170 600-650 225-265 280-325



Hi-tech Farming (Fruit production-Tissue culture Banana)

Horizontal spread of technology

University	No. of village covered	No. of farmers	Area in ha
JNKVV	862	4391	4114
RVSKVV	490	6691	21158
IGKVV	342	1365	2492
Total	1694	12447	23650

Name of schemes supported Central/ State Govt. in large scale dissemination under convergence

S. No.	Scheme	State Govt./Central Govt.
1.	KVK, NHM	District Horticulture Department, NHB
2.	Pradhan Mantri Krishi Sinchai Yojna	Drip irrigation scheme in Badi of maginal/ Small farmers
3.	National Horticulture Mission	State micro-irrigation Scheme

Fruits condition	Economics of adopted technology/ha (pooled data)			
	Cost (Rs.)	Gross return	Net return (Rs.)	B:C ratio
A. C.G.				
Mango	42900	162000	119100	3.80
Banana	125000	357500	232500	2.90
Litchi	48200	180500	132300	3.74
B. MP				
Guava (Maize+Ginger intercropping)	230000	1165000	934000	5.06
Papaya	185000	700000	415000	3.80
Banana	80000	300000	220000	3.75
Mango	44200	168000	123800	3.80

Impact of adopted technology in economic and social terms

- ▶ This technology brought out the changes life style of the farmers through increased production and income.
- ▶ Good crop for resourceful farmers for crop diversification option and economic growth.

Details of most suitable variety of fruits crops:

- ▶ Mango- Amrapali, Mallika
- ▶ Papaya- Red lady no.786 & Australian Valley
- ▶ Guava-Allahabadi safeda and L-49
- ▶ Banana-G-9



Agriculture Minister, GoMP, visited to High density orchard at KVK, Shahdol

District wise horizontal spread of technology in JNKVV

District	No. of village covered	No. of farmers	Area in ha
Balaghat	6	6	10
Betul	5	8	10
Chhindwara	16	870	2174
Dindori	312	1760	393
Damoh	112	702	833
Harda	24	175	95
Katni	85	352	123
Satna	23	38	34
Mandla	20	55	35
Narsinghpur	6	25	55
Panna	14	22	13.58
Rewa	37	49	67
Sagar	40	40	25
Shahdol	55	95	22.5
Seoni	94	167	214
Tikamgarh	3	3	2
Umaria	10	24	8

District wise horizontal spread of technology in RVSKVV

Name of KVKs	No of village covered	No of farmers	Area in ha or No of units
Badwani	24	212	1600.00
Burhanpur	15	850	5250.0
Ratlam	110	15	45.0
Dhar	18	500	500
Khandwa	86	1915	1148
Morena	12	74	15
Shajapur	225	3125	12600





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