

Assessment - Plant Protection

1	Title	Raising Chilli seedling in Protray
2	Objective	i) To minimize the seedling period in nursery ii) Early establishment of transplanted seedling in field iii) To increase the good quality of seedling iv) To minimize the mortality of seedling
3	Problem diagnose/ identified	Mortality of seedling observed at the transplanting time in drip irrigation system field.
4	Details of technologies selected for assessment	Preparation of nursery site. T1- Farmers practice: : Raising of seedling on raise bed method T2- Recommended treatment : Use of plastic protray for raising chilli seedling.
5	Source of technology	IIHR, Bangalore
6	Production system	Rabi season from October to May. Humid climate, Medium black soil condition.
7	Thematic area	Vegetable Nursery management
8	Performance of the Technology with performance indicators	1. Seed required per ha. 2. No of pickings. 3. Yield per hectare
9	Final recommendation for micro level situation	-
10	Constraints identified and feedback for research	Survival of seedling is higher therefore Seed rate reduced by 31.25% .First early picking 10days & one extra picking than the check 8.5 % increase in yield
11	Process of farmers participation and their reaction	Due to healthy seedling good establishment of crop within short period so receive early picking than raised bed method

12). Results of On Farm Trial

Crop/enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Chilli F1 Hybrid 4884	Irrigated	Mortality of Seedling observed in transplanting time in drip irrigation system field Excess seed/unit area required for raising hybrid chillies.	Raising Chilli seedling in Pro-trays	5	T1. Local practices. Raised bed method T2. Use of plastic portray technology for raising chilli seedling	Seed Rate gms/ha. Percent Survival No of pickings Yield q/ha	T1 – 240gr T2 - 165gr T1 – 73% T2 97% T1 - 6 T2 - 7 T1 – 132.2 T2 - 143.5	Survival of seedling is higher therefore Seed rate reduced by 31.25% First early picking 10days & one extra picking than the check 8.5 % increase in yield	Due to healthy seedling good establishment of crop within short period so receive early picking than raised bed method

Technology Assessed	Production Yield Qtl/ha	Cost of Production/ha	Gross Return Rs/ha	Net Return (Profit) in Rs. /Ha	BC Ratio
11	12	13	14	15	16
1. Local Practice	132.2	175000	489140	314140	1 : 2.79
2. Treatment Use of Pro tray	143.5	175000	530950	355950	1 : 3.03

Selling rate for green chilli Rs. 37 /Kg