

Details of the
Best **OFTs** conducted
during last year along with
action photographs

2024-25

Assessment of Onion Varieties in Rabi Season

Season & Year	Rabi 2024-25
Crop / commodity	Onion
Problem diagnosed	Low yield due to Unavailability of Suitable variety.
FP	Cultivation of farmer own variety
TO- 1	Cultivation of Onion variety: Bhima Shakti
TO-2	Cultivation of Onion variety: Bhima Dark Red
Characteristics of technology	<p>Bhima Shakti: Bulbs are light bronze color, globular round shape, bulb diameter 5.5-6.0 cm. Bulb mature in 120-130 days after transplanting.</p> <p>Bhima Dark Red: Bulb are dark red in colour globular round in shape, thin neck and 5.5-6.25 cm in diameter. Bulb matures in 110-120 days after transplanting. Keeping quality is also good.</p>



Parameters Technology options	Bulb diameters (cm)	Bulb weight (gm)	Yield (q/ha)	% increase in Yield	Cost of Production (Rs/Bed)	Gross Return (Rs/Bed)	Net Return (Rs/Bed)	B:C ratio
FP	4.8	82.1	225.8	-	1,65,792	3,37,500	1,71,708	2.05
TO ₁	5.3	112.3	281.2	24.88	1,82,842	4,21,500	2,38,658	2.30
TO ₂	5.1	95.1	260.5	15.0	1,82,842	3,90,000	2,07,158	2.13

OFT Title		Assessment of Eco-friendly management of pod borer complex in pigeonpea					
No. of Trials & Area		07					
FP		Farmers are not following the proper management practices during the need of application or any proper insecticides. Farmers are applying non targeted pesticides in improper dose like chloropyriphus, cypermethrin .					
TO- 1		Application of Azadirachtin 0.15% @ 1.5 Lit./ ha + Spinosad 45 SC @ 200 ml / ha at 50% flowering and second 15-20 days after 1 ST spraying.					
TO-2		Application of Azadirachtin 0.15% @ 1.5 Lit./ ha + Emamectin Benzoate 5 SG @ 200 gm / ha at 50% flowering and second 15-20 days after 1 ST spraying.					
Characteristics of technology		Application of Azadirachtin 0.15% at 50 % flowering stage can minimize the pest infestation to 40 % and application of Spinosad 45 SC and Emamectin Benzoate 5 SG alternatively at 15 days interval can 90 % reduced the pod borer complex in pigeonpea crop.					



Result: The Azadirachtin + Emamectin Benzoate strategy provides sustainable, eco-friendly, and cost-effective control of the pod borer complex in pigeon pea, minimizing environmental risks while ensuring high yields. Because using a botanical (Azadirachtin) and a microbial-based insecticide (Emamectin Benzoate) reduces the chances of resistance development in pod borers.

Observation to be taken.	Yield (q/ha)	No. of pod borer affected plant/5 mt2	Leaf webber %	Lemon butter fly affected plant/5 mt2	Pod borer infestation %	Net Return (Rs.)	B:C
FP	8.9	6	24	5	42	Rs. 35,600/-	1.80
TO-1	12.7	2	8	2	11	Rs. 66,300/-	2.38
TO-2	14.5	1	5	1	8	Rs. 81,000/-	2.63

OFT Title	Assessment of Production of Paddy Straw Mushroom From Crumpled Straw
No. of Trials & Village	07, Baikunthapur, Landrijharpur, Rampur
FP	Production of paddy straw mushroom from bundle straw in rainy season
TO- 1	Production of paddy straw mushroom from crumpled paddy straw from bullock treading/tractor treading.
TO-2	Production of paddy straw mushroom from crumpled straw (axial flow thresher)
Characteristics of technology	Mushroom cultivation in crumpled paddy straw for its economic utilization, pin head initiation (10 days) first plucking in (13 days), Biological efficiency (7%)



Parameters Technology options	Production/unit (Kg/Bed)	Cost of substrate (Rs./Bed)	Biological Efficiency (%)	Cost of Production (Rs/Bed)	Gross Return (Rs/Bed)	Net Return (Rs/Bed)	B:C ratio
FP	1.0	20	10	90	200	110	2.2
TO₁	0.8	Through away price (0)	16	50	160	110	3.2
TO₂	0.9	Through away price (0)	18	50	180	130	3.6