ACHIEVEMENT OF *RABI* (2023-24) (FLD)

Demonstration on Late *Kharif* Onion var. Bhima super

Season – ***Rabi*** (2023-24) **No. of beneficiaries** – 10 **Area-** 1 ha **Village** - Gunthaput, Lekidiguda, Mangaliguda

FP	Demo
N-53 (Flattish Bulbs, Days to maturity: 90-100 days)	Bhima Super(Single centered bulb, Days to maturity: 100-105 days, Yield potential:20-22 t/ha, Storability: poor 1 to 1.5 months)

Results	Plant height (cm)	Bulb weight (g)	Yield (q/ha)	% change in yield	Cost of cultivation (Rs/ha)	Gross return (Rs/ha)	Net return (Rs/ha)	B:C
FP	22.1	55.3	387.5	7.05	136257	387500	251243	2.84
Demo	35.3	95.4	414.8		162300	497760	335460	3.06

Farmer's feed back: Farmers appreciated Bhima Super variety of Onion for its higher yield and round the year cultivation as well as more shelf life of the bulb.

DEMONSTRATION ON INTEGRATED WEED MANAGEMEN IN MAIZE

Season – *Rabi* (2023-24) **No. of beneficiaries – 10** **Area-** 1 ha **Village –** Gunthaput, Rajput

FP	Demo
One hand weeding at 20 DAS	Post emergence application of Tembotrione 100g/ha + Atrazine 500g/ha at 20 DAS+ one hand weeding at 40DAS

Result	Dry weight of weeds(g/m$^{2)}$				Rows /cob	Grains/ row	Yield (q/ha)	(%) change in yield	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ ha)	BC ratio
	At 30 DAS	At 60 DAS	WCE (%) At 30 DAS	WCE (%) At 60 DAS								
FP	1.8	3.5	74	67	12.6	26.5	46.51		53500	86967	33467	1.6
Demo	1.2	2.2	82	79	14.7	29.4	56.98	22.5	55170	106546	51376	1.9
control	7.2	10.5										

Farmer's Feed back : Farmers appreciated the chemical weed management practices than hand weeding because higher WCE(79%) at 60 DAS in demo plot was recorded than FP(67%)

DEMONSTRATION ON OYSTER MUSHROOM

Pleurotus hypsizygus ulmarius (Blue oyster)

Season – *Rabi* (2023-24) **No. of beneficiaries** – 20 **Village** – Lekdiguda & Mangiliguda

FP	Demo
P. florida	*P. hypsigygus ulmarius*

Result	Yield (kg/bed)	% change in yield	Cost of cultivation (Rs/Bed)	Gross return (Rs/Bed)	Net return (Rs/Bed)	B:C
FP	1.3	30.7	60/-	140/-	80/-	2.3
Demo	1.7		60/-	190/-	130/-	3.1

ACHIEVEMENT
(FLDs)
KHARIF , 2024

DEMONSTRATION ON EFFECT OF MICRONUTRIENT ON GROWTH & YIELD OF GINGER

Season – *Kharif*, 2024 **No. of beneficiaries** – 10 **Area-** 1 ha **Village-Gunthaput, Malidoloambo, Panasput, Hadiguda, Phuladaba**

FP	Demo
No application of micronutrient to ginger crop	Application of IISR Micronutrient formulation for ginger (Mg-2.0-3.0 %, Zn-2.5-3.5%, B-1.0-1.5%, Fe—1.0-2.0%)

FP

DEMO

IISR- Micronutrient formulation for Ginger

Results	Plant height (cm)	No. of tillers/ plant	Rhizome Yield (q /ha)	% change in yield	Cost of cultivation (Rs/ha)	Gross return (Rs/ha)	Net return (Rs/ha)	B:C
FP	62.2	11.4	204.4	6.7	430940	1635200	1204260	3.79
Demo	63.1	13.8	218.2		434130	1745600	1311470	4.02

Farmers' feedback : After application of micronutrient the yield has significantly increased (6.75%).

DEMONSTRATION ON MANAGEMENT OF BACTERIAL WILT OF GINGER THROUGH CHEMICALS AND BIO-AGENTS

Season – *Kharif*, 2024 **No. of beneficiaries** – 10 **Area-** 1 ha **Village – Gunthaput, Manjuliguda, Panasput, Hundapur, Phuladaba, Malidoliambo**

FP	Demo
Application of *Trichoderma*+ FYM, application of Metalaxyl+Mancozeb @3g/l	Application of bio-agents (*Bacillus licheniformis* GAP10 7MTCC 12725) as Bacillich @ 5 l/bed at the time of planting & foliar spray @ 45,60 & 90 DAP


FP


DEMO

Results	Plant height (cm)	No. of tillers/ plant	Percentage disease incidence (PDI) (%)	Rhizome Yield (q /ha)	% change in yield	Cost of cultivation (Rs/ha)	Gross return (Rs/ha)	Net return (Rs/ha)	B:C
FP	90.1	24.4	22.2	191.8	6.9	431000	1534400	1103400	3.6
Demo	103.4	27.3	6.7	205.2		436140	1641600	1205460	3.8

Farmers' feedback : After application of bio agent, the disease reduced drastically and the yield increased (6.98%).

DEMONSTRATION ON EFFECT OF BIOCAPSULES ON GROWTH & YIELD OF GINGER

Season – *Kharif*, 2024 **No. of beneficiaries –** 10 **Area-** 1 ha **Village – Gunthaput, Haridaput, Hundapur, Malidoliambo**

FP	Demo
Application of FYM @ 20t/ha	Application of Bio-capsules GRB-35 (*Bacillus amyloliquefaciens*) for seed treatment & soil drenching (One capsule dissolved in 100 lit. of water)

Results	Plant height (cm)	No. of tillers/ plant	Soft rot (%)	Rhizome Yield (q /ha)	% change in yield	Cost of cultivation (Rs/ha)	Gross return (Rs/ha)	Net return (Rs/ha)	B:C
FP	92.3	24.6	17.6	**213.4**	**3.3**	**431000**	**1707200**	**1276200**	**3.9**
Demo	104.6	28.2	7.4	**220.6**		**436140**	**1764800**	**1328660**	**4.04**

Farmers' feedback :By application of biocapsules, the soft rot percentage decreased significantly & yield enhancement of 3.37%.

DEMONSTRATION OF BIOFORTIFIED SWEET POTATO VAR. BHU SONA FOR NUTRITIONAL SECURITY

Season – *Kharif*, 2024 **No. of beneficiaries – 7** **Area- 0.42ha** **Village- Gunthaput, Durukaguda**

FP	Demo
Kisan (Non-bio fortified variety)	**Bhu Sona (OFSP)** High β–carotene (14.0 mg/100gm) content as compared to 2–3mg/100gm β–carotene in popular varieties, tuber yield 19.8 t/ha, dry matter : 27 - 29%, starch : 20%, total sugar : 2 - 2.4 %, 110 days

Technology options	Yield attributes				Yield (q/ha)	% change in yield	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
	Vine length at 60 DAP (cm)	Length of tuber (cm)	No. of tuber/plant (No.)	Avg. tuber yield/plant (kg)						
FP	139.65	17.46	2.45	258.95	135.4	9.8	36000	1,35,400	99,400	3.76
Demo	213.5	15.98	2.44	262.7	148.7		38000	1,48,700	1,10,700	3.91

DEMONSTRATION OF RICE VARIETY OUAT KALINGA RICE-1 (KOLAB)

Season – *Kharif*, 2022 **No. of beneficiaries –** 10 **Area-** 1 ha **Village –** Patraput, Bhairabaguda

FP	Demo
Rice variety MTU-1001	Rice var. OUAT Kalinga Rice-1 (Kolab) ,medium duration-130 days , average yield-5307 kg/ha ,Long slender grain, Moderately resistant to blast, sheath rot, brown leaf spot, BPH and gall midge.

Results	Yield attributes		Yield (q/ha)	% change in yield	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
	No. of EBT/hill	Grains/ Panicle						
FP	8.3	112.5	42.7	16.8	50800	98210	47410	1.93
Demo	9.4	128.7	49.9		50800	114770	63970	2.26

Farmer's Feed back : Farmers appreciated Kalinga Rice-1 (Kolab) for its highest tillering capacity.

DEMONSTRATION ON ICM FOR THE MANAGEMENT OF FALL ARMY WORM IN MAIZE

Season – *Kharif*, 2024 **No. of beneficiaries-** 10 **Area-** 1 ha **Village –** Lekidiguda, Sainipujariput

FP	Demo
Spraying of chlorpyriphos + cypermethrin @11/ha	Seed treatment with (cyzapyr + thiomethoxam) @ 6 ml/kg seed+ Installation of bird perches up to 45 DAS+ Foliar application of tetraniliprole@200ml/ha at 30 DAS +whorl application and field placement of poison baits(10 kg rice bran+2 kg jaggery+2-3 l of water+100g thiodicarb) at 45 DAS

Results	No of cobs/ plant	Percent infestation	Yield (q/ha)	% change in yield	Cost of cultivation (Rs/ha)	Gross return (Rs/ha)	Net return (Rs/ha)	B:C
FP	1.5	27.6	42.6	12.2%	51100	93720	42620	1.83
Demo	1.9	7.3	47.8		52400	105160	52760	2.01

Farmer's Feed back : Farmers appreciated the integrated crop management practices for control of fall army worm

DEMONSTRATION ON OUAT RAGI THRESHER AND PEARLER

Season – *Kharif*, 2024 **No. of beneficiaries-** 10 **Area-** 1 ha **Village –** Gunthaput, Haridaput

FP	Demo
Manual beating with a stick on a hard surface.	**OUAT Ragi thresher cum pearler**

Result	Threshing efficiency (%)	Cleaning efficiency (%)	Breakage (%)	Labour saving (%)	Capacity (kg/hr)	Threshing efficiency (%)
FP	30.8	10	20	-	9.8 kg/hr	30.8
Demo	88.5	70	10	93%	90.5 kg/hr	88.5

Specific feed back : Farmers appreciated the OUAT Ragi thresher and pearler for more labour saving, threshing efficiency and higher capacity than hand beating.