



DEMONSTRATION ON EFFICACY OF ORGANIC INPUTS FOR YIELD ENHANCEMENT IN BLACK GRAM

Season – *Rabi*, 2022-23 No. of beneficiaries – 10 Area- 1 ha Village – Patraput & Chandrapada

FP

DEMO

No use of organic inputs

Soil application: Inoculation of 3.5 ltr. PSB with 100 kg vermicompost incubating at room temperature for 7 days at 30% moisture and application at the time of sowing

p^H – 5.4. EC – 0.1 ds/m, O.C – 0.4 % (L) Avail (N – 235 kg/ha, P - 16 kg/ha, K - 220 kg/ha)



Results	No. of pods/plant	Yield (q/ha)	% Change over FP	Cost of cultivation (Rs/ha)	Gross return (Rs/ha)	Net return (Rs/ha)	BC ratio
FP	27.5			Continuing			
Demo	38.7						



DEMONSTRATION OF RICE VARIETY KALINGA DHAN-1203 (ORJ-1135)



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

FP

DEMO

Rice variety MTU-1001

Rice var. Kalinga Dhan-1203 (ORJ-1135), avg. grain yield-54.2 q/ha, Duration-135 days, Plant height-111 cm, Moderately resistant to sheath rot, BPH, stem borer & leaf folder



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	1000 grain wt (g)						
FP	8.1	109.5	19.2	42.57	17.19	45600	86850	41250	1.9
Demo	9.2	112.4	19.3	49.89		45600	101784	56184	2.2

Farmer's Feed back : Farmers appreciated Kalinga Dhan-1203 for its highest tillering capacity



DEMONSTRATION ON HYBRID MAIZE-KALINGA RAJ (OMH 14-27)

Season – Kharif, 2022 No. of beneficiaries – 20 Area- 5 ha Village – Lekidiguda,

FP

DEMO

Hybrid maize (CP-333)

Hybrid maize [Kalinga Raj (OMH 14-27)], Avg. cob yield – 79.5 q/ha, Duration-92 days, Moderately resistant to (MLB, TLB, Charcoal rot and bacterial stock rot)



Results	No of cobs/ plant	No of seeds/ cob	1000 grain wt(g)	Yield (q/ha)	% change in yield	Cost of cultivation (Rs/ha)	Gross return (Rs/ha)	Net return (Rs/ha)	B:C
FP	1.4	578.3	209.4	55.7	15.8	53500	104171	50671	1.95
Demo	1.5	624.6	212.2	64.5		53500	120628	67128	2.25

Farmer's Feed back : Farmers appreciated Kalinga Raj hybrid for its higher yielding performance than CP-333



Demonstration on Late *Kharif* Onion var. Bhima super



Season – *Late kharif*, 2022-23

No. of beneficiaries – 50

Area- 1 ha

FP

RP

**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)	Cost of cultivation (Rs/ha)	Gross return (Rs/ha)	Net return (Rs/ha)	B:C
FP	22	55	387.5	136257	387500	251243	2.84
RP	35	95	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 OF AMC FOR YIELD ENHANCEMENT IN CHILLI



Season – *Kharif*, 2022

No. of beneficiaries – 10

Area- 1 ha

Village – Gunthaput

FP

DEMO

Application of FYM without any bioinoculants

Application of AMC @ 5 kg mixed with 500 kg of FYM and applied at the rhizosphere



Results	Plant height (cm)	No. of fruits/pl ant	Length of fruit (cm)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs./ha)	Net return (Rs./ha)	B:C
FP	68.6	101.2	6.8	63.9	98,875	191700	92825	1.93
RP	74.8	134.3	10.2	68.7	1,04,875	2,06,100	97225	1.96

Farmer's Feed back :





DEMONSTRATION ON WILT RESISTANT TOMATO VAR. ARKA RAKSHAK

Season – Rabi, 2020-21

No. of beneficiaries – 10

Area- 1 ha

FP

RP

Lakshmi

(Suceptible to BW, ToLCV and early blight(EB))

Triple disease resistant tomato var. Arka Rakshak



Results	Plant height (cm)	No of fruits/pl ant	Weight of fruit (g)	Yield (q/ha)	Cost of cultivation (Rs/ha)	Gross return (Rs/ha)	Net return (Rs/ha)	B:C
FP	68.9	82	82	595.7	129143	373225	2,97,850	2.89
RP	73.8	93	90	619.7	130550	391650	3,09,915	3.0

Farmer's Feed back : Farmers highly appreciated the variety due to more yield/plant(13kg) and resistant to BW, ToLCV and early blight(EB)





DEMONSTRATION ON BAMBOO AS A SUSTAINABLE LIVELIHOOD IN WASTELAND CONDITION OF KORAPUT



Season – *Kharif*, 2022 No. of beneficiaries – 10 Area- 1 ha Village – Lekdiguda & Khirajhola

FP	RP
Raising of <i>Bambusa arundinasia</i> (up to 15 m tall, internodes 30–35 cm long, stems thorny, leaves thin, linear, up to 20 cm long	Raising of <i>Bambusa vulgaris</i> (up to 15 - 20 m tall. The thin-walled, hollow canes are 40 - 120mm in diameter with internodes 35 - 45cm long)



Result	Height (m)	Diameter (cm)	No. of culms	Internodal Length (cm)	Cost of cultivation (Rs/ha)	Gross return (Rs/ha)	Net return (Rs/ha)	B:C
FP	3.46	2.01	5	18.66	Continuing			
RP	5.90	3.50	6.46	30.47				



DEMONSTRATION ON CULTIVATION OF BROOM GRASS FOR CONSERVATION OF SOIL AND MOISTURE WITH ENHANCING RURAL LIVELIHOOD



Season – *Kharif*, 2022 No. of beneficiaries – 10 Area- 1 ha Village – Lekdiguda & Mulaguda

FP		RP
Local hedge (Agave)	natural plants	Hilly areas planting in contour lines or on the bunds of terraces at a spacing of 6 x 6 ft is good and about 2500 to 4000 plants are required for one hectare area



Results	Height of tussock (cm)		No. of culms /tussock	Leaf number/tussock	Yield	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
	60 DAP	120 DAP							
FP				12 leaf		Crop is at vegetative stage			
RP	75	100	15	62					