



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



ASSESSMENT OF BIO-FORTIFIED SWEET POTATO VARIETIES FOR NUTRITIONAL SECURITY



Season – Rabi (2023-24)

No. of beneficiaries – 7

Area- 0.42 ha

Village- Lekidiguda

FP

TO₁

TO₂

Kisan
(Non-biofortified 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

Bhu Krishna (PFSP)

High anthocyanin (90mg/100gm) , tuber yield - 18 t/ha, dry matter - 24.5 – 25.5%, starch - 19.5%, total sugar: 1.9–2.2% and salinity stress tolerant, 105-100 days

p^H – 5.4, EC – 0.1 ds/m, O.C – 0.3 % (L), Avail (N – 235 kg/ha, P - 16 kg/ha, K - 220 kg/ha)



TO₁



TO₂



Technology options

Yield attributes

Vine length at 60 DAP (cm)

Length of tuber (cm)

No. of tuber/plant (No.)

Avg. tuber yield/plant (kg)

Yield (q/ha)

% change in yield

Cost of cultivation (Rs./ha)

Gross return (Rs/ha)

Net return (Rs./ha)

BC ratio

FP

139.65

17.46

2.45

258.95

135.4

36000

1,35,400

99,400

3.76

TO₁

213.5

15.98

2.44

262.7

148.7

9.8

38000

1,48,700

1,10,700

3.91

TO₂

198.7

13.85

3.22

252.8

144.9

7.0

38000

1,44,900

1,06,900

3.81

CD (0.05)

15.90

2.84

0.35 **NS**

17.87

9.88

Recommendation : The sweet potato variety Bhu Sona performed well with higher yield and good marketability.



ACHIEVEMENT ***KHARIF , 2024*** **(OFTs)**



ASSESSMENT ON APICAL ROOTED CUTTINGS (ARC) OF POTATO



Season – Kharif, 2024

No. of beneficiaries – 07

Area- 1 ha

Village – Gunthaput, Hadiguda

FP

TO₁

TO₂

**Cultivation of potato
var. Kufri Jyoti**

**Planting of Apical rooted cuttings of
potato var. Kufri Karan**

**Planting of Apical rooted cuttings of
potato var. Kufri Himalini**



FP



TO₁



TO₂

Results	Plant height (cm)	No. of branches/plant	No. of tubers/plant	Late blight incidence (PDI) (%)	Yield (q /ha)	% change in yield	Cost of cultivation (Rs/ha)	Gross return (Rs/ha)	Net return (Rs/ha)	B:C
FP	49.56	5.24	6.49	14.8	158.2		146450	316400	169950	2.16
TO ₁	55.20	6.30	8.20	6.7	182.9	15.6	150600	365800	215200	2.42
TO ₂	62.30	7.16	9.36	9.6	189.5	19.7	150600	379000	228400	2.51
CD(0.05)	3.5	0.8	0.9	1.2	12.6					

Farmers' feedback : Farmers appreciated the performance ARC of K. Himalini variety on the basis of higher yield potential and moderately resistant to late blight disease.



ASSESSMENT OF FINGER MILLET VARIETIES



Season – *Kharif*, 2024

No. of beneficiaries – 7

Area- 0.4 ha

FP

TO₁

TO₂

Local Ragi var. Budi Mandia

Finger Millet var. Arjuna, OEB-526

Finger Millet var. Kalinga -601



FP



TO₁



TO₂



Technology options	Yield attributes		Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
	No. of EBT/plant	Fingers / Ear head (No.)					
FP	1.6	5.2	11.8	31600	50622	19022	1.60
TO₁	1.8	5.9	13.4	31600	57486	25886	1.82
TO₂	1.9	6.2	13.9	31600	59631	28031	1.89
CD(0.05)	0.24	0.56	1.2				

Recomendation: Kalinga - 601 was found superior than OEB-526 and Budi mandia in comparison to yield attributes.



ASSESSMENT OF LITTLE MILLET VARIETIES



Season – Kharif, 2024

No. of beneficiaries – 7

Area- 0.4 ha

FP

TO₁

TO₂

Local little millet var. Sana Suan

Little Millet var. OLM 208

Little Millet var. Kalinga suan - 217



Technology option	No. of EBT/plant	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
FP	3.2	9.68	30100	48400	18300	1.61
TO ₁	3.5	10.62	30100	53100	23000	1.76
TO ₂	4.1	12.38	30100	61900	31800	2.06
CD(0.05)	0.36	0.71				

Recomendation : Kalinga Suan – 217 was found superior than OLM - 208 and Sana Suan in camparison to yield.



ASSESSMENT OF EFFECTIVENESS OF DIFFERENT EXTENSION METHODS TO ACCESS INFORMATION ON RICE PRODUCTION



Season – Kharif, 2024

No. of beneficiaries – 30

Village- Gunthaput, Lekidiguda, Missingguda

FP	TO ₁	TO ₂
Farmers getting information from peer group, input dealers extension functionaries, mass media and KMA	Delivering need based technology through video lecture followed by focus group discussion along with traditional existing extension methods would provide need based information, skill and objective clarification through FGD, along with traditional existing mechanism of transfer of technology.	Providing timely & need based information to farmers regarding situation specific rice varieties, crop management, farm machinaries, nutrient and pest management, post harvest management etc. through rice Xpert App along with traditional existing mechanism of transfer of technology.



Observation parameter (farmers' opinion)	percentage (%)	FP	TO ₁	TO ₂
Timely availability/delivery of information	%	43.33	73.33	76.67
Suitability of technology	%	40.00	66.67	73.33
Easy handling of extension method	%	36.67	63.33	70.00
Retention and retrieval	%	33.33	56.67	66.67
Change in knowledge	%	46.67	63.33	76.67
User friendly extension method	%	43.33	56.54	82.24
performance & recommendation	FP + using of “rice Xpert”(TO ₂) APP performed better than >TO ₁ > FP			