

**OFT-1 Year-2018-19**

**BEST ON FARM TESTING LAST FIVE YEARS**

<b>OFT Title</b>	<b>Assessment of BPH tolerant Rice varieties</b>		
<b>Season &amp; Year</b>	<b>Kharif, 2018</b>	<b>No. of Trials &amp; village</b>	<b>07 (0.5ha), Amthapada</b>
<b>Crop / commodity</b>	<b>Paddy</b>	<b>Farming Situation</b>	<b>Rainfed,medium land(Rice-fallow)</b>
<b>Problem diagnosed</b>	<b>Low yield due to more infestation of BPH</b>		
<b>FP</b>	<b>Swarna</b>		
<b>TO- 1</b>	<b>Hasanta-Small bold grains,white kernel, straw colour hull.Moderately resistance to leaf folder,leaf blast,sheath blight &amp; bacterial leaf blast Avg.yield-55-60qt,duration-145days</b>		
<b>TO -2</b>	<b>Pratiksyaa- Irrigated, Avg.yield-55-60qt, Duration-145 days. Resistance to WBPH</b>		
<b>Characteristics of technology</b>	<b>Good yield potential upto 5.2 to 5.5t/ha,maturity-145days Tolerant to BPH</b>		
<b>Observation Parameters</b>	<b>No.of BPH/hill, No.of grains/panicle, No.of affected panicles,Yield</b>		
<b>Source</b>	<b>Ouat- 2016</b>		

<b>RESULTS</b>	<b>No.of BPH /hill</b>	<b>No.of grains/panicle</b>	<b>Yield (q/ha)</b>	<b>% change in Yield</b>	<b>Net Income (Rs./ha)</b>	<b>BC Ratio</b>
<b>FP</b>	<b>25</b>	<b>178</b>	<b>26.07</b>	<b>-</b>	<b>14,622</b>	<b>1.4</b>
<b>TO-1</b>	<b>5</b>	<b>247</b>	<b>34.19</b>	<b>31.15</b>	<b>28,832</b>	<b>1.8</b>
<b>TO-2</b>	<b>8</b>	<b>226</b>	<b>32.10</b>	<b>23.14</b>	<b>25,175</b>	<b>1.7</b>



## OFT-2 Year-2019-20

OFT Title	Assessment of different Herbicides for weed management in green gram		
Season & Year	Rabi-2019-20	No. of Trials & village	07 , Rampur(0.5 ha)
Crop / commodity	Greengram	Farming Situation	Medium Irrigated, Rice-Greengram farming system
Problem diagnosed	Lower yield due to high weed infestation		
FP	Cultivation of Green gram without any weed management practices		
TO- 1	The application of Pendimethalin @ 1 kg/ha as pre emergence	Source: SLREC proceedings 2014 (Aicrp on mullarp)	
TO-2	The application of Imazethapyr @ 75 g/ha as post emergence at 20 DAS	Source: SLREC proceedings 2014 (Aicrp on mullarp)	
TO -3	The application of Pendimethalin @ 1 kg/ha as pre emergence fb Imazethapyr @ 75 g/ha as post emergence at 20 DAS	Source: slrec proceedings 2014 (Aicrp on mullarp)	
Characteristics of technology	Control weeds within 36 days of application and restrict the weed growth upto 10 nos /m <sup>2</sup> / 8 q.m		
Observation Parameters	Weed density, Weed control efficiency, Grain yield, No. of pods/plant, No.of grains /pod		

RESULTS	Weeds/sq.mt	Yield (q/ha)	% change in Yield	Net Income (Rs./ha)	BC Ratio
FP	25	3.5	-	9,412	1.6
TO-1	7	4.0	14.1	11,900	1.7
TO-2	5	4.2	20.0	13,295	1.8
TO-3	3	5.0	42.8	20725	1.93



### OFT-3 Year-2020-21

OFT Title	Assessment of Aromatic paddy varieties in medium Irrigated Land.
FP	Cultivation of local scented variety Kalajira
T O <sub>1</sub>	Scented Variety Geetanjali
T O <sub>2</sub>	Scented Variety Nua Kalajeera
Characteristics of technology	Geetanjali: Aromatic, Duration-135 days,suitable for irrigated Soil,An erect plant type ,it possess good grain quality after cooking,,Yield-6-10 tonnes /ha.
	Nua Kalajeera:Aromatic,short bold grain,maturity-145 days ,Moderately resistant to sheath Rot,Sheath Blight and blast. Yield: 3-4 tonnes/ha

RESULTS	No of panicles/Hills	Yield (q/ha)	% change in Yield	Net Income (Rs./ha)	BC Ratio
FP	8	26.0	-	18,568	1.2
TO-1	15	39.5	51.9	43,786	1.54
TO-2	13	37.5	44.2	40,050	1.50



## OFT-4 Year-2021-22

OFT Title	Assessment of biofortified rice varieties for nutritional security
No. of Trials & Area	07, 0.4 ha
FP	Rice variety - Naveen.
TO- 1	Rice variety CR-Dhan-310
TO-2	Rice variety CR-Dhan-311
Characteristics of technology	CR-Dhan-310: Medium Duration -125-130 Days,Semi-dwarf plant-110cm with medium slender and good grain quality ,yield-4.5 t/ha, & contain 10.2 % Protein. CR Dhan-311: It has high protein content 10.1% and moderately high level of Zinc Content (20PPM) in 10% polished rice,medium duration 125-130 days , semi dwarf-110 cm ,good grain quality with average yield of 5.5 t/ha.

RESULTS	No of grains/panicle	Yield (q/ha)	% change in Yield	Net Income (Rs./ha)	BC Ratio
FP	118.0	33.2	-	34,408	2.1
TO-1	129.0	40.2	21.0	47,988	2.59
TO-2	120.5	37.5	12.9	42,750	2.4



## OFT-5 Year-2022-23

<b>OFT Title</b>	<b>Assessment of Medium duration High Yielding Rice varieties</b>
<b>No. of Trials &amp; Area</b>	<b>07, 0.4 ha</b>
<b>FP</b>	<b>Rice variety - Pooja</b>
<b>TO- 1</b>	<b>Rice variety CR-317</b>
<b>TO-2</b>	<b>Rice variety CR-319</b>
<b>Characteristics of technology</b>	<b>CR- 317 : Irrigated, Resistant to BPH, tolerant to leaf folder, Gundi bug, WBPH, Duration: 135-140 days. CR -319:Irrigated Duration: 140 days ,highly tolerant to stemborer, leaf folder, rice thrips, moderate tolerant to BPH and other plant hopper yield: 6.0 t/ha</b>

Observation to be taken.	No of tillers/plant	Yield (q/ha)	% change in Yield	Net Income (Rs./ha)	BC Ratio
FP	9.81	40.02	-	48,540	1.3
TO-1	11.42	44.6	10.9	58,200	1.6
TO-2	14.85	50.8	26.9	71,600	2.04
CD(5%)	1.73	2.737	-	-	

