INTRODUCTION

Krishi Vigyan Kendra, Ganjam-II was established by ICAR in June 2012 under the control of OUAT at Ratanpur farm. At present this institution is operating in its new location at Golanthara, block -Rangeilunda. It is surrounded by Kandhamal in the North-West, Nayagarh in the North, Khurda in the North-East, Gajapati district in the West and Bay of Bengal in the South-East. On its southern periphery the district borders the state of Andhra Pradesh. Ganjam district is broadly divided into two divisions spreading over an area of 8206.0 Sq.km. The plains lies between the Eastern Ghats and the Bay of Bengal. Since the hills are close to the sea, the rivers flowing from hills are not very long and are subject to sudden floods. The plains are narrow because of the absence of big rivers. The coastal plains in the east contain more fertile and irrigated lands. The south eastern portion is fertile. Ganjam economy is predominantly agrarian. Around 80 percentage of the population depends on agriculture and allied activities. The long sea and Chilika coast line is a source of rich marine products and lime shells. Ganjam is a major salt producing district in the state.

KVK serves as the knowledge hub and resource centre of agricultural technologies for the farmers of the district. It operates as per mandates of ICAR for the upliftment of socioeconomic condition of the farming community. Ganjam-II is the 2nd Krishi Vigyan Kendra of Ganjam district and lies between 19⁰4' to 20⁰17' Longitude and 84⁰7' to 85⁰12'. Latitude

MANDATE

Assessment, refinement and demonstration of proven technologies/products under different 'micro farming' situations.

K.V.K ACTIVITIES

The mandate of KVK is Technology Assessment and Demonstration for its application and Capacity Development to implement the mandate effectively, the following activities are envisaged.

- On-farm testing to assess the location specificity of agricultural technologies under various farming systems.
 - Frontline demonstrations to establish production potential of technologies on the farmers' fields.
- Capacity development of farmers and extension personnel to update their knowledge and skills on modern agricultural technologies.
- To work as Knowledge and Resource Centre of agricultural technologies for supporting initiatives of public, private and voluntary sector in improving the agricultural economy of the district.
- Provide farm advisories using ICT and other media means on varied subjects of interest to farmers
- In addition, KVKs produce quality technological products (seed, planting material, bio-agents, livestock) and make it available to farmers, organize frontline extension activities, identify and document selected farm innovations and converge with ongoing schemes and programs within the mandate of KVK.

BASIC INFORMATION OFGANJAM DISTRICT

Agro-climatic Zone	East and South East Coastal Plain Zone
Geographical Area	8,21,000 ha
Cultivated Area	4,06,000 ha
High Land	1,89,715 ha (47% of cultivated area)
Medium Land	1,13,460 ha (28% of cultivated area)
Low land	1,02,825 ha (25% of cultivated area)
Irrigation Potential	
KharifArea Irrigated	2,89,591 ha
RabiArea Irrigated	61,779 ha
Soil Type	Laterite soil, Black cotton soil, Red
Average annual rainfall	1275.2mm
Cropping Intensity	202 %
Major crops grown	Paddy, ragi, greengram, blackgram, sesame, groundnut, vegetables, sugarcane, chilly, ginger, cotton etc.

ADOPTED VILLAGES

Village Name	Year of adoption	Block Name
Raijhol	2012	Kukudakhandi
Padripalli	2012	Kukudakhandi
Dighapada	2012	Hinjilikatu
Bhimpur	2013	Pursotampur
Balrampur	2013	Chhtrapur
Giria	2016	Hinjilikatu
Putipadar(ST)	2017	Rangeilunda
Jharapadar	2017	Ganjam
Rajanapalli	2017	Chhatrapur
Narayanpur(ST)	2019	Patrapur
Panada	2019	Chikit
Sanabiswanathpur	2020	Rangeilunda

CROPPING SYSTEM

Sl No.	Name of the block	Cropping system followed
1	Khalikote	Rice-oilseed/pulse, Rice-vegetable, Vegetable-vegetable
2	Ganjam	Rice-pulse/oilseed, Vegetable-vegetable,
3	Chatrapur	Rice-pulse/oilseed
4	Purushotampur	Rice-pulse/oilseed, Rice-vegetable, Vegetable-vegetable
5	Rangeilunda	Rice-pulse, Rice- vegetable, Vegetable-vegetable
6	Patrapur	Rice-pulse, Rice- vegetable, Rice-fallow
7	Chikiti	Rice-pulse, Rice-vegetable
8	Kukudakhandi	Rice-pulse, Rice-vegetable, Vegetable-vegetable
9	Hinjili	Rice-pulse/oilseed, Rice-vegetable, Vegetable-Vegetable
10	Digapahandi	Rice-pulse,
11	Sanakhemundi	Rice-pulse/vegetable- Sesame ,Vegetable-vegetable

SWOT (Strengths, Weakness, Opportunities and threats) Analysis of KVKs

Strength	Weakness	Opportunities	Threats
(i)Ecological	(i) Ecological	(i) Ecological	(i)Ecological
-Hot and humid climate	-Low and fluctuating	-Integrated watershed	-Weather
favoring rice crop	rainfall leading to	management	aberration like
-Low rainfall, well	drought situation	-Potential for sea shore	drought and flood
drained sandy loam	-Acid soil with low	plantation of cashew and	-Gradual decline in
soil for kharif	water holding	coconut	ground water table
groundnut	capacity	-pisciculture in tank	-Upsetting natural
-Alluvial soil,moderate	-soil erosion causing	-Expansion of area under	balance due to
rainfall and high water	land degradation	coconut, mango ,citrus and	deforestation
table for vegetable	- Indiscriminate	banana.	
-Saline marshy land	deforestation and	-Harnessing ground water	(ii) Socio-
and water bodies for	siltation of reservoirs	potential	economic
fish cultivation	and water storage	(ii)Socio-economic	-Diversion of
-Good forest cover with	structure	-labour intensive work	agriculture land to
fertile soil	-Prone to cyclone	-Women SHG	non-agricultural
(ii)Socio-economic	-soil salinity due to	- Availability of family	use
-social cohesion among	ingress of sea and	labour	-Exploitation of
the farmer	Chilika water		middle men
-Cheap and efficient	-Low ground water	(iii)Infrastructure	-Migration of
labour force	table	-Formation of FPO	agricultural labour
-Existence of women	-Flood situation	-Construction of MIP,	to industrial work
SHG	during kharif	Cross bunds and tube well	(11) T. C
-Comitted net work of	(ii)socio economic	-Installation of cold storage	(iii)Infrastructure
NGO	- Alcoholism in male	-Establishment of fish and	-Procurement of
-Traditional fishermen	-Castism and	prawn processing units	seed, vegetable and
community	superstitions	-Agro service centers and	fruits from
-Large and skilled farmers for	-Exploitation by rural money lenders	seed processing units -Installation of fruit	neighboring states -Potential risk for
farmers for entrepreneurship	-Migration of labour	preservation and processing	Aska sugar factory
development	force	unit	(iv)Production
(iii)Infrastructure	-Small and	(iv)Production	system
-Well communicated	fragmented land	-Expansion of area under	-Distress sale and
road ways and rail	holding	lime and mango	middle-men-ship
ways	-predominance of		<u> </u>
-Viable credit	landless and marginal	turmeric and ginger	market
institution, SCSs and	farmer	cultivation	-Imbalance use of
commercial banks	-Lack of farmers	-Commercial floriculture	fertilizer leading to
-Milk route of grater	organization	-Rejuvenation of old	land degradation
Gajapati Ganjam Milk	-Exploitation of	orchard	-Wild boar and
union	middle man	-Apiary for landless farmer	monkey menace
-Fish seed hatchery	(iii)Infrastructure	-Expansion of area under	-Leaching of soil
-Diversities	-Inadequate agro-	sugarcane	nutrient due to
(iv)Production system	processing and	-Breed up gradation and	flooding
-Diversities of paddy to	storage structure	dairy	
pulse, oilseed and	-Inadequate irrigation	-Community fodder	
vegetable crop varieties	-Disorganized	cultivation for dairy	
-village tank for fresh	marketing	-Scope for breed up	
water fish culture	-Non availability of	gradation in goatery and	
-Rearing of cows, goat	fruit preservation unit	poultry	
and poultry birds	-Defunct LIPs	-Renovation of fish tanks	
-Brackish water prawn	(iv)Production system	and composite pisciculture	

aultura shrima and	Viold can due to leels	Erach water movem	
culture, shrimp and	-Yield gap due to lack	_	
marine fish cultivation	of scientific	hatchery	
and integrated fish	knowhow	- establishment of poultry	
production	-Mono-cropping of	•	
-Cashew plantation	sugarcane	-Brackish water fishery	
-commercial Kewda	-Poor soil and water	- Pisciculture in water	
cultivation for perfume	management	logged waste land	
industry	-Excess use of	-Protected cultivation of	
-Extensive cultivation	nitrogen and	vegetable and flowers	
of coconut and areca	imbalance fertilizer	- micro irrigation for fruit	
nut	dose	cultivation	
-Agro forestry and	-Zinc deficiency in		
silvi-pasture	field crop		
-Mango and orange	-Distress sale of rice		
orchard	and vegetables		
-High water table for	-Technological gap in		
irrigation	management of		
- extensive sugarcane	livestock		
and maize cultivation	-high mortality of		
-Ginger and turmeric	goat		
cultivation	- non availability of		
Cultivation	green fodder for		
	ruminants		
	-Monkey and wild		
	boar menace		
	-Low market price of		
	dairy product		
	-Lack of rejuvenation		
	of old orchard		

9th SAC RECOMMENDATION

Salient Recommendations	Action taken
Cultivation of Faba bean as	Awareness has been created among the farmers for
moisture stress tolerant crop.	cultivation of Faba bean as stress tolerant crop.
	Demonstration will be taken up under SCSP programme
	with availability of seed.
Demonstration of super early	Green gram var. Virat-IPM 25 has been demonstrated in
variety green gram(Virat-	farmer's fields under RESILIENCE project, rabi 2020-21.
IPM 25).	
Groundnut var. Dharani	Demonstration on Groundnut var. Dharani (TCGS 1043)
(TCGS 1043) is to be	has been included in SCSP demonstration programme.
popularized.	
Emphasis should be given on	Assessment on ragi varieties, demonstration on its
package and practices of ragi	scientific cultivation has been taken up in adopted villages.
cultivation. Simultaneously	Need based training with odia literature are also supported.

training has to be imparted to	Training has been conducted from time to time on post
SHG group members on value	harvest management and value addition of finger millet.
addition of finger millet.	
Distribution transferrable	Technologies demonstrated are being presented before line
technology of KVK to the	department personnel during field days, meeting and
district in odia language.	seminar. Publication of each demonstrated technology in
	odia language are provided to farmers. During exhibition &
	farmer's fair, literatures are also distributed for its large
	scale dissemination.
Popularization of	FLD on back yard poultry var. Kadaknath will be taken up
Kadaknathbreed of poultry in	during rabi, 2020-21 in identified villages. A
the district.	demonstration unit of Kadaknath has been maintained in
	the campus for imparting training to visiting farmers.
Economic and disconification	Formary and transfer towards non-raddy and accident
Focus on crop diversification.	Farmers are trending towards non paddy crop as evident
	from increase in area of pulse and oil seed cultivation in
	the district. CFLD on oil seeds and pulses are being
	conducted every year to increase area under non paddy
	crop.
Training on Lac cultivation	KVK scientists visited Lac cultivation cluster patch at
	village Makarajholo. Training will be provided on its
	package and practices to the targeted farmers.
	package and practices to the targeted farmers.
Demonstration of low cost	Women friendly technologies such as mushroom
women friendly technology	cultivation, back yard poultry rearing, value addition,
	nutritional gardening, flower cultivation and use of small
	farm implements for drudgery reduction etc. have been
	popularised through FLD, OFT and training progrmme.

ACHIEVEMENTS OF THE MANDATORY ACTIVITIES

(Rabi 2019-20 to Kharif 2020)

Detail of On –Farm Testing

Crop/ Component	Technology Assessed	Technology option	Details of technologies	Yield (q/ha)
Component	Assessed	option		(q/11a)
Blackgram	Assessment on	FP	No use of weedicide	4.21
\mathcal{E}	chemical weed	TO ₁	Pendimethalin 30 % EC @ 1kg/ha	5.73
	management in	1	at 3 DAS as PE	
	Blackgram	TO ₂	Pendimethalin 30% EC+	6.64
		2	Imazethapyr 2%EC premix @1.00	
			kg a.i/ha at 2DAS as pre emergence	
Ragi	Assessment of	FP	Use of local variety Budha mandia	13.2
	performance of	TO ₁	Cultivation of Ragi variety	16.2
	high yielding ragi varieties		BHAIRABI (Source: CPR, Berhampur,OUAT)	
	varieties	TO ₂	Cultivation of Ragi variety ARJUN	19.3
		TO ₂	ę ,	
		TO ₃	Cultivation of Ragi variety KALUA	18.6
Chilli	Assessment of chilli	FP	Cultivation of F1 hybrid Daiya	25.8
	varieties	TO ₁	Cultivation of hybrid chilli variety	31.62
		TO	Arka Meghna	20.22
		TO_{2}	Cultivation of hybrid chilli variety Arka Harita	29.22
Tuberose	Assessment of	FP	Cultivation of old existing variety	4.71
ruberose	tuberose cultivars	11	Calcutta single	7./1
		TO,	Cultivation of variety Arka Prajawal	5.42
		TO_{2}	Cultivation of variety Arka Nirantar	5.01
Cauliflower	Assessment of	FP	Low curd quality and yield due to	191.3
	secondary (sulphur)		secondary and micro nutrient	
	and Micro (Boron)		deficiency	
	nutrient for curd	TO ₁	STBF (NPK) + Sulphur @ 30 kg ha ⁻¹	241.4
	quality and higher	1	+ 1 kg Boron as Borax as basal	
	yield in cauliflower		application	
		TO_{2}	STBF (NPK) +Sulphur @ 30 kg ha ⁻¹	235.7
			+ two foliar spray Borax @ 0.25% at 10 days interval starting from 30	
			days after planting	
Green gram	Assessment of	FP	Application of chemical fertilizer	5.1
oreen grean	integrated nutrient		(15:40:0 Kg N: P ₂ O ₅ : K ₂ O /ha) only	0.1
	management on	TO ₁	100% STBF + FYM @5t ha ⁻¹	6.0
	yield enhancement	TO ₂	100% STBF + FYM@5t ha ⁻¹ +	6.3
	of green gram	2	Rhizobium seed treatment@20g kg	3.5
			⁻¹ seed+ Soil application of PSB @ 4	
			kg ha ⁻¹	
		TO ₃	100% STBF + FYM@5t ha ⁻¹ + Lime	7.2
		3	@0.2 LR + Rhizobium seed	
			treatment@20g kg -1seed+ Soil	
			application of PSB @ 4 kg ha ⁻¹	

Groundnut	Assessment of	FP	Spraying of Carbandazim@ 1kg/ha	31.7
	Integrated disease	TO ₁	Seed treatment with carboxin 37.5%	33.8
	management	1	+ Thiram 37.5 % (Vitavax power) @	
	practices for Collar		2.5 gm/ kg seeds during sowing and	
	rot in Rabi,		need base alternative spraying of	
	Groundnut		chlorothalonil 75% wp (Kavach) @	
			1.5 gm/lt. and carbendazim 2 gm/lt	
			at 15 days interval	
		TO ₂	Seed treatment with Tebuconazole	35.6
		2	@ 1.5 g/kg followed by furrow	
			application of T. viride @ 4kg	
			enriched in 50kg FYM/ha as basal	
			application, then broadcasting of T.	
			viride @ 4kg enriched in 250kg	
			FYM/ha at 40 DAS & 2 sprays of	
			Tebuconazole @ 1ml/lit. starting	
			from initiation of foliar diseases and	
			2nd spray at 15 days interval	
Beetle vine	Assessment of	FP	Spraying of Carbandazim@ 1kg/ha.	-
	Integrated disease	TF.0	12 q/ha	
	management	TO_{1}	Planting material treatment with	-
	practices for Collar		Trichoderma viridae@ 2g/lt at the	
	rot in Beetle vine		time sowing and need base	
			alternative spraying of chlorothalonil	
			75% wp (Kavach) @ 1.5 gm/lt. and	
			carbendazim 2 gm/lt at 15 days	
		TO	interval.	
		TO_2	Planting material treatment with	-
			Tebuconazole @ 1.5 g/lt followed by furrow application of T. viride @	
			4kg enriched in 50kg FYM/ha as	
			basal application, then broadcasting	
			of T. viride @ 4kg enriched in 250kg	
			FYM/ha at 40 DAS & 2 sprays of	
			Tebuconazole @ 1ml/lit. starting	
			from initiation of foliar diseases and	
			2nd spray at 15 days interval.	
Fish	Assessment of	FP	Stocking ratio Catla: Rohu: Mrigal::	23.22±
	Amur carp for		30:40:30	1.24
	increasing fish	TO ₁	Stocking ratio Catla: Rohu: Mrigal	33.43±
	production in mixed	•	:Amur carp :: 30:40:20:10	2.32
	carp culture	TO ₂	Stocking ratio Catla:	32.21±
	_	2	Rohu:Mrigal:Amur carp ::	3.20
			30:40:15:15	
		TO ₃	Stocking ratio Catla:	34.33±
		3	Rohu:Mrigal:Amur carp ::	2.50
			30:40:10:20	
Fish	Assessment of	FP	Mechanical removal of the Parasite	23.80±
	different		or in few cases use of Formalin (37%	3.22
	Parasiticidal agents		HCHO)	
	in controlling	TO ₁	Pond application of Synthetic	28.68±
	external parasites in	1	Pyrethroid like Deltamethrin	2.85

	grow-out carp culture system		(Deltaguard) 2.8% @ 80ml/Acre-mt (4 times in weekly interval	
	culture system	TO ₂	Application of Ivermectin (Paracure IV) @ 50 µg/Kg ⁻¹ fish through feed.	30.09± 3.28
Mushroom	Assessment on management of	FP	Existing practices of farmers with no management of moulds	0.61
	competitor moulds in paddy straw mushroom	TO ₁	Pre soaking of paddy straw bundle with 0.02% of bleaching powder for 6 hours	0.94
		TO ₂	Presoaking of Paddy straw with 1% calcium carbonate for 6 hours	1.1

Details of FLD

Technology demonstrated		Detail of Technology	Results (q/ha)	% increase in Yield
Demonstration Of	FP	No use of herbicide, hand weeding at 20 DAS	18.66	Ticiu
herbicides in weed management in Groundnut	RP	Pre emergence application of Oxyflourfen @ 0.2 kg/haat 2DAS followed by early post emergence spray of imazethapyr100g/ha at 15 DAS	22.95	23 %
Demonstration of	FP	KBSH-1(matures in 90-95 days,plant height 150-180cm,size of head 15-20cm, oil content 42-44 percent, Yield-12-15 q/ha but susceptible to downy mildew diseases	13.8	
sunflower hybrid- LSFH-171	RP	Cultivation of downy mildew resistant sunflower hybrid LSFH-171(Duration: 100-120 days, seed yield-15-22qtl/ha, oil content 38-40 %.resistant to downy mildew resistant)	18.2	31.9
	FP	Cultivation of rice variety MTU 1001	35.12	
Demonstration of High yielding rice variety Pratibha	RP	Cultivation of rice variety Pratibha (Duration 125 days, potential yield- 52.3 q/ha, adaptability to rainfed and irrigated medium land, Resistance to brown spot and glume discoloration)	42.89	22.12
	FP	Manual weeding (Hand weeding at 21 DAT)	34.3	
Demonstration of herbicide in Rice	RP	Bispyribac sodium + Almix(metsulfuron methyl + chlorimuron- ethyl) on 25 @ (20+4 g)/ha as post emergence	43.37	26.44
Demonstration of tomato variety-	FP	Cultivation of hybrid tomato variety Laxmi yield potential of 350q/ha	350.3	
tomato variety- Arka Rakshak	RP	Cultivation of hybridtomato variety- Arka Rakshak	412.5	17.75 %

Demonstration of	FP	No spray of micronutrient	95.9	
Foliar Spray of Micronurient in Marigold	RP	Foliar Spray of Micronurient in Marigold	114.4	19.29%
Demonstration on cowpea variety-	FP	Cultivation of varieties (bhagyalaxmi) which is attacked by YMV with yield potential of 120q/ha	102.1	
Kashi Kanchan	RP	Cultivation of variety Kasi Kanchan	119.4	16.94 %
Demonstration on wilt complex management in Tomato	FP RP	Spraying of Carbandazim@1kg/ha Management of wilt complex in Tomato	218 280	28.44
Demonstration on consortia	FP	Application of chemical fertilizer 120:46:30 N:P ₂ O _{5:} K ₂ O Kg/ha	336.6	
biofertiliser application in tomato	RP	Demonstration on consortia biofertiliser application in tomato	415.7	23.5
Demonstration on	FP	Application of NPK fertilizers only (20:40:40 Kg N: P ₂ O ₅ :K ₂ O /ha)	18.74	-
INM in groundnut	RP	Demonstration on INM in groundnut	23.16	23.6
Demonstration on acid soil	FP	Application of NPK fertilizers only (50:69:30 Kg N: P ₂ O ₅ :K ₂ O /ha)	13.46	
management in sunflower	RP	Demonstration on acid soil management in sunflower	18.47	37.22
Demonstration on integrated nutrient	FP	Application of 100% RDF+ FYM 1kg/m ²	4.72	
management in tuberose	RP	Demonstration on INM in tuberose	5.92	25.4 %
Demonstration on	FP	Spraying of Imidacloprid@ 200ml/ha	420	
management of Diamond back moth in Cabbage	RP	Management of Diamond back moth in cabbage	500	19.04
D	FP	Spraying of Carbandazim@ 1kg/ha	36.7	
Demonstration on management of Blast disease in Rice	RP	Seed treatment with tricyclazole @ 3 g/kg of seed and foliar spraying of tricyclazole @ 300 g/ ha, twice at 15 days interval	44.2	20.43
Demonstration of Rice varieties for	FP	Growing of Pooja varieties (145-150 days)	41.2	-
tolerance against BPH in Kharif Rice	RP	Growing of Hasant varieties (145 days)	45.4	10.19
Demonstration on Yearling stocking	FP	Stocking of Fish fry/fingerlings and not maintaining the stocking ratio	31.70	75
for yield enhancement in Community pond	RP	Yearling Stocking in Community pond @ 5,000 Nos./ha; Surface : Column : Bottom feeder :: 3 : 4 : 3	42.00	94
Demonstration on	FP	Practicing only pisciculture	26.70	-
Pond based Farming System	RP	Fish-cum-poultry-vegetable Integrated farming system	31.25	4.30

Demonstration on use of Calcium propionate	FP	Salting or drying practice followed in un-hygenic condition without any effective preservation methods/value addition	8.5±1.67	30±3.20
[Ca(C ₂ H ₅ COO) ₂] during fish curing	RP	Application of food grade preservatives		
Golding Holl Colling		during curing;	9.53 ± 1.35	15.4±2.89
	FP	Rearing of indigenous bird	Yield	
			kg/bird	
			(6 month)-	
Demonstration on			0.43	
low input poultry	RP	Rearing of Kadaknath breed	Yield	Mortality(%)
breed Kadaknath		Kadaknath bird body wt at 20 weeks	kg/bird	decrease-
in Backyard		1170g, Avg. annual egg production 190.	(6 month)-	25%
III Dackyaid		Tolerance to acute stress condition.	0.65	
		Brooding management for 21 days,		
		vaccination with against RD on 7 th Day,		
		28 day, IBD on 14 th day		

CLUSTER DEMONSTRATION ON PULSE

Sl No.	Name of crop	Variety	Location Village/Block	Area (ha) / No.	No. of beneficiary
1	Greengram	IPM 02-14	Jharapalli,Panada Block-Chikiti	10	25

TRAININGS

Туре	Target			Achievement		
	No.	Duration (in Days)	No of Farmers	Vo.	Duration (in Days)	No of Farmers
Farmers & Farm Women	60	60	1500	60	60	1500
Rural Youths	20	40	300	20	40	300
In-Service Personnel	6	12	60	3	6	30
Total	86	112	1860	83	106	1830

OTHER EXTENSION ACTIVITIES

Extension Activities	Achievement (Up to March 18)		
	No	Participants	
Field Days	8	400	
Kisan Mela	2	600	
Diagnostic visit	48	790	
Group Meeting	6	150	
Scientific Visit to farmers Fields	170	830	
Farmers Visits	250	250	
Lecture Delivered by KVK Scientists	20	700	
Exhibitions	2	Mass	

Film Shows	1	Mass
Radio Programmes	6	Mass
TV Shows (News-18- Annadata & DD-Oriya-	15	Mass
Palishri		
Soil Testing Campaigns	170	170
KMA	41	20200
Celebration Day	12	2100

PUBLICATION

Sl.No.	Item	No.	No. of copies printed
1	Book/ Booklet	3	1500
2	Leaflets	02	2000
3	Poster/Flex	18	18
4	News letter	1	500
5	News paper Coverage	12	-
6	Popular Articles	10	5000
7	Technical bulletins	14	14
8	Technical report	06	30
9	Training material	06	12
10	Training Calender	01	100
11	CDs/ DVDs	01	10

REVOLVING FUND

(i) Achievement Paddy seed

Season	Variety	Category	Area (ha)	Production (q)
Kharif 2020	Paddy seed- Swarna Sub-1	FS	5.0	200 q
Kharif 2020	Greengram-IPM02-14	TL	2.0	10.2 q
Rabi 2020-21	Greengram-IPM02-14	TL	1.0	Cont

(ii) Quality planting material production

Name of plant	Variety	No. produced
Papaya	Red lady / Sapna F1	1500 nos
Drumstick	PKM-1	1100 nos
Tomato	Arka Rakshak	5000 nos
Chilli	Arka harita/ Arka Meghana	7000 nos
Onion	Arka bindu	100000 nos
Brinjal	Akshita	10000 nos

Name	No. produced
Vermicompost	22.5 q
Vermin	16.00 kg

Existing Demo Units:

Demo-Units	Quantity of Output Area/No./ Kg etc	Demo-Units	Quantity of Output Area/No./ Kg etc
Vermicompost	3q	Azola Unit	3 nos.
Medicinal garden	40 no of plant variety	Sunflower(LSFH-171)	0.05 ha
Drumstick Unit (PKM-1)	0.05 ha	Mango orchard (Amrapalli, Malika, Dusheri)	120 nos
Poly house (seedlings of Tomato, brinjal, broccoli, capsicum, chilli)	2 units	Green gram(IPM 02- 14)	1 ha
Poultry(Var. Kadaknath, Chabro)	100 chicks	Ornamental fish culture , biofloc	5 units
Pond based farming system	1 unit	Crop cafeteria	0.08 acre
Peri urban garden	1 unit	Broad spectrum botanicals	3 units

ACTION PLAN (Rabi-2020-21)

ON FARM TESTING (OFT)

Crop	Title	Treatments	No. of farmers
Blackgram	Assessment on chemical weed management in	FP -No weeding TO ₁ - Pendimethalin 30 % EC @ 1kg/ha at 3 DAS as PE	7
	Blackgram	TO ₂ -Pendimethalin 30% EC+ Imazethapyr 2% EC premix @1.00 kg a.i/ha at 2DAS as pre emergence	
Chilli	Assessment of chilli varieties	FP - Cultivation of Chili F1 hyb. Daya TO _{1 -} Cultivation of Chili F1 hyb. Arka Harita TO _{2 -} Cultivation of Chili F1 hyb. Arka Meghna	7
Cauliflower	quality and higher yield in cauliflower	FP - Application of chemical fertilizer (110:46:45Kg N: P ₂ O ₅ :K ₂ O /ha) only TO ₁ - STBF (NPK) + Sulphur @ 30 kg ha ⁻¹ + 1 kg Boron as Borax as basal application TO ₂ - STBF (NPK) +Sulphur @ 30 kg ha ⁻¹ + two foliar spray Borax @ 0.25% at 10 days interval starting from 30 days after planting	7
Greengram	Assessment of integrated nutrient management on yield enhancement of greengram	FP - Application of chemical fertilizer (15:40:0 Kg N: P ₂ O ₅ :K ₂ O /ha) only TO ₁ - 100% STBF + FYM @5t/ha TO ₂ - 100% STBF + FYM@5t/ha+Rhizobium seed treatment@20g/kg seed+ Soil application of PSB @4 kg/ha TO ₃ -100% STBF + FYM@5t/ha + Lime @ 0.2 LR + Rhizobium seed treatment@20g/kg seed+ Soil application of PSB @ 4 kg/ha	7
Fish	Assessment of Soil and water Probiotics as remedial measures for pisciculture in problematic waters.	FP - Application of Organic manure TO ₁ - Application of Water probiotic @ 1kg/Ac at fortnight interval. TO ₂ - Application of Soil Probiotic @ 1lt/Ac at Fortnight interval. TO ₃ - Alternative application of both soil and water probiotic at fortnight interval.	7
Fish	Assessment of different Parasiticidal agents in controlling external parasites in grow-out carp culture system		7

FRONT LINE DEMONSTRATION

Crop	Title	Technology	No. of demo	Area (ha)
Groundnut	Demonstration Of	FP-No use of herbicide, hand weeding at 20 DAS	10	2 ha
Groundilat		RP-Technology to be demonstrated : Pre	10	2 114
	management in			
	Groundnut	kg/ha followed by early post emergence spray of		
		imazethapyr 0.12/ha.		
Sunflower	Demonstration of	FP-KBSH-1(matures in 90-95 days, plant height	10	2
Builliower		150-180cm, size of head 15-20cm, oil content 42-	10	_
	LSFH-171	44 percent, Yield-12-15 q/ha but susceptible to		
		downy mildew diseases		
		RP-Cultivation of downy mildew resistant		
		sunflower hybrid LSFH-171 with		
		60:90:60NP2O5K2O Kg/ha .Application of		
		sulphur @20kg/ha SSP OR apply gypsum		
		@200kg/ha as basal. Spray Borax @ 0.2%(2g/l of		
		water) to capitulum at ray floret opening stage to		
		improve seed set and seed filling.		
Onion	Demonstration on	FP-Cultivation of varieties (Agrifound darkred)	10	1
		susceptible to neck benting		
	bindu	RP-Demonstration on onion variety- Arka bindu		
Tomato	Demonstration of	FP-Cultivation of hybrid tomato variety Laxmi	10	1 ha
		yield potential of 350q/ha		
	Arka Rakshak	RP-Cultivation of tomato variety- Arka Rakshak		
Marigold	<u> </u>	FP-No spray of micronutrient	10	1
		RP-Foliar spray of 0.5% Zinc sulphate sprayed at		
	Micronurient in	10 th and 30th day after transplanting of seedlings		
	Marigold	10 and 30th day after transplanting of seedings		
Sunflower	Demonstration on	FP-Application of NPK fertilizers only (50:69:30	10	2
	acid soil	Kg N: P2O5 : K2O /ha)		
	management in	RP-STBF +FYM @5t/ha +lime @0.2 LR +Bio-		
	sunflower	inoculant (azotobacter and azospirillum)@10		
		kg/ha		
Tomato	Demonstration on	FP-Application of chemical fertilizer 120:46:30	1010	1
	consortia	N:P ₂ O _{5:} K ₂ O Kg/ha		
	biofertilisers	RP-STBF+ inoculation of OUAT consortia bio-		
	* *	fertilisers to pre-limed(5%) 300 Kg		
	tomato	FYM/VC(1:25) incubated for 7 days at 30%		
		moisture and applied in the rhizosphere on the day		
		of planting/sowing of crops		
Chilli		FP-Application of NPK fertilizers only (20:40:40	10	1
	_	Kg N: P ₂ O ₅ :K ₂ O /ha		
	0	RP-Use of STBF based NPK + biofertilizer		
	chilli	(Azotobactor, Azosprillum &PSB @ each		
		4kg/ha)+ vermicompost @5t/ha increases the dry		
		chilli by 8.5% over soil test based fertilizer		
D:	D	application CP : (145.150.1	10	_
Rice		FP-Growing of Pooja (145-150 days)	10	2
	rice varieties for			

	Tolerance against BPH in Kharif, Rice	RP-Growing of Hasanta(145 days)		
Groundnut	Demonstration of chemical management of Collar rot disease in Rabi, Groundnut	FP-Spraying of Carbandazim@ 1kg/ha. RP-Management of collar rot problem in Groundnut.	10	2
Sunflower	Demonstration of management of tobacco caterpillar in Sunflower	FP-No spray of chemicals RP-Management of tobacco caterpillar in sunflower	10	2
Cashewnut	Demonstration on chemical management of tea mosquito bug in cashewnut	FP-No use of pesticides. RP-Demonstration on chemical management of tea mosquito bug in cashewnut	10	2
Poultry	Demonstration on artificial brooding management in chicks.	FP-Improper brooding management RP-Brooding management for 21 days with floor space of 0.3 sqft/bird with help of chick guards, artificial heat @ 1-3 watt per chick, feeders and drinkers @ 1 each per 50 chicks, vaccination with against RD on 7 th day, 28 day, IBD on 14 th day. Use of electrolytes, preventive antibiotics during brooding.	10	200 nos
Fish	Demonstration on Yearling stocking for yield enhancement in Community pond	FP-Stocking of Fish fry and not maintaining the stocking ratio RP-Yearling Stocking in Community pond	10	2
Fish	Demonstration on Use of Insulated fish bag to preserve quality of Fish	FP-Use of local made bamboo basket or Plastic bag during retail vending RP-Use of 3 layered insulated Fish carrying bag during retail vending.	10	2
Fish	Demonstration on Pond based Farming System	FP-Practicing only pisciculture RP-Full utilization of bund area (app.30% of WSA) with animal (Poultry/Duckery/Cow)-horticulture (Fruit and vegetables) components so as to get more production from unit area with a reduced avg. cost of cultivation		2
Fish	Demonstration on Amur carp as substitute to Mrigal in composite pisciculture	FP-Maintaining stocking ratio of Catla: Rohu: Mrigal:: 30:40:30 RP-Stocking ratio Catla: Rohu:Mrigal:Amur carp:: 30:40:10:20 @ 7500 nos/ha with proper soil and water quality management.	10	2
Poultry	Demonstration on low input poultry breed Kadaknath in Backyard	FP-Rearing of indigenous bird RP-Rearing of Kadaknath breed		200 nos

FRONT LINE DEMONSTRATIONS (PULSES)

Name of the crop	Variety	Demonstrated area	No. of. Demo
Greengram	PM02-14	10 ha	25

TRAININGS:

Туре		Target		
	No.	Duration (in Days)	Participants	
Farmers & Farm Women	30	30	750	
Rural Youths	10	20	150	
In-Service Personnel	5	10	50	
Vocational training	5	30	75	
Total	50	80	1025	

OTHER EXTENSION ACTIVITIES:

Extension Activities	Target		
	No	Participants	
Field Days	5	150	
Kisan Mela	2	2000	
Diagnostic visit	55	780	
Group Meeting	5	125	
Scientific Visit to farmers Fields	120	1000	
Farmers Visits	200	200	
Lecture Delivers by KVK Scientists	20	700	
Exhibitions	2	Mass	
Film Shows	2	100	
Radio Programmes	6	Mass	
TV Shows	6	Mass	
SAC Meeting	1	33	
KMA	30	20900	

PLANTING MATERIALS

Name	Details of production		
of the crop	Variety	Type of Produce	Qty.
Papaya	Red lady	PM	1000nos
Drumstick	PKM-1	PM	500nos
Tomato	Utkalraja	PM	8000nos
Chilli	Ukalrashmi	PM	8000
Capsicum	Onion	PM	10000
