

15TH SCIENTIFIC ADVISORY COMMITTEE MEETING



KRISHI VIGYAN KENDRA, GANJAM-II, BERHAMPUR

**ODISHA UNIVERSITY OF AGRICULTURE & TECHNOLOGY
BHUBANESWAR**



INTRODUCTION

Krishi Vigyan Kendra, Ganjam-II, Berhampur was established by ICAR under OUAT officially in June 2012. It is operating now from Golanthara farm, block-Rangeilunda of Ganjam district since January 2019. This district is surrounded by Kandhamal district in the North-West, Nayagarh in the North, Khurda in the North-East, Gajapati district in the West and the 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 lie between the Eastern Ghats and the Bay of Bengal. Since the hills are close to the sea, the rivers flowing from the 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 southeastern portion is most fertile. Ganjam's economy is predominantly agrarian. Around 80 percent of the population depends on agriculture and allied activities. The long sea and Chilika's coast line is a source of rich marine products and lime shells. Ganjam is a major salt-producing district of the state. KVK serves as the knowledge hub and resource center of agricultural technologies for the farmers of the district. It operates as per mandates of ICAR for the upliftment of socio-economic condition of the farming community. KVK, Ganjam-I was established during 1986 in the South East Hill agro-climatic zone. Being the most populated district of the state, another KVK at Berhampur under East and South East Coastal Plain Zone was envisaged. Thus, KVK, Ganjam-II is the 2nd Krishi Vigyan Kendra of Ganjam district, lies between 19^o4' to 20^o17' Latitude and 84^o7' to 85^o12' Longitude.

MANDATE

The mandate of KVK is **Technology Assessment and Demonstration** for its **Application and Capacity Development**.

K.V.K. ACTIVITIES

To implement the mandate effectively, the following activities are envisaged for each KVK

1. On-farm testing to assess the location specificity of agricultural technologies under various farming systems.
2. Frontline demonstrations to establish the production potential of technologies on the farmer's fields.
3. Capacity development of farmers and extension personnel to update their knowledge and skills on modern agricultural technologies.
4. To work as Knowledge and Resource Centre of agricultural technologies for supporting initiatives of the public, private and voluntary sector in improving the agricultural economy of the district.

5. 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 them 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.

THRUST AREAS OF KVK

- Increasing productivity of cereals, pulses and oilseed.
- crop diversification in upland area during Kharif.
- Increasing yield and quality of vegetables.
- Promoting organic farming
- Popularization of high valued crops
- Yield enhancement in aquaculture
- Streamlining the functioning of the existing FPOs
- Providing suiting IGA of women SHG

BASIC INFORMATION OF GANJAM DISTRICT

Agro-climatic Zone	East and South East Coastal Plain Zone (Ganjam-II) North Eastern Ghat Zone (Ganjam-I)
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	
<i>Kharif</i> Area Irrigated	3,02,109 ha
<i>Rabi</i> Area Irrigated	52,802 ha
Soil Type	Laterite soil, Black cotton soil, Red
Average annual rainfall	1276.2mm
Cropping Intensity	202 %
Major crops grown	Rice, ragi, green gram, black gram, 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
Medinipur	2022	Kukudakhandi
Radhamohanpur	2023	Chikiti
Gokanpur	2023	Digapahandi
Ralaba	2024	Hinjilikatu
Hinjiligaon	2024	Chikiti

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

FARMERS PROBLEMS

- Natural calamities- Drought & Cyclone.
- Poor irrigation facilities - 41.5% (Moisture stress during Rabi pulses and oilseeds).
- Poor crop intensification in rice fallows
- Severe infestation of diseases and pests in major crops
- Weed problem in major crops
- Improper Nutrient of management in crops
- Soil acidity- More than 65%.
- Low productivity of crops, livestock and Pisciculture.
- Small size and fragmented land holding-0.92 ha.
- Lack of income generating avenues from farm women
- Non availability of assured marketing system for agricultural produces

14TH SAC RECOMMENDATIONS

As per the guidelines of the Indian Council of Agricultural Research (ICAR), New Delhi and after obtaining the administrative approval of the Hon'ble Vice-Chancellor, Odisha University of Agriculture and Technology, the Scientific Advisory Committee has been formed. Hon'ble Vice-Chancellor, OUAT acts as the Chairman and the Dean, Extension Education, OUAT, acts as the Co-chairman of the SAC committee. Zonal Project Director, Zone-VII, ICAR; Chief District Agriculture Officer, District Agriculture Officer, Dy. Director Horticulture, Horticulturist, Soil Conservation Officer, District Fishery Officer, Chief District Veterinary Officer, Lead Bank Manager, Director All India Radio; Director, Doordarshan; District Manager, OAIC; General Manager, DIC; District Social Welfare Officer, two progressive farmers male, two progressive farm women and heads of two NGO are the esteemed members of the committee. Sr. Scientist and Head of K.V.K. acts as the member secretary of the committee. KVK always gave the utmost care to SAC recommendations during the formulation of the KVK action plan (Intervention framework) for the district context.

Sl. No	Recommendation	Action taken
1.	KVK should include Programmes on Natural Farming in its mandatory activities and further steps should be taken to make wide spread awareness	<ul style="list-style-type: none"> ➤ One OFT on natural farming “ Assessment of Natural farming practices in vegetables” conducted during Rabi season under crop production discipline ➤ Crops e.g tomato, brinjal, cowpea grown in Natural farming in crop cafeteria ➤ Villages covered- Radhamohanpur, Panada, Kishorechandrapur ➤ Farmers participated: 37 ➤ Area-2 ha ➤ Workshop conducted : 01 ➤ Training conducted- 3 ➤ KMAs- 02
2.	Finger millet programme should be popularised by KVK	<ul style="list-style-type: none"> ➤ Finger millet has been popularized in Hinjilicut, Digapahandi, Patrapur blocks under KVK FLD programme and RIISE project ➤ Farmers covered- 42 ➤ Area- 6.5 ha ➤ Training conducted- 2 ➤ KMAs- 3 ➤ Booklet published- 1

3.	Steps should be taken to increase the income from Kewda cultivation	<ul style="list-style-type: none"> ➤ On Farm Trial on Assessment of INM in Kewda has been conducted ➤ Villages covered- Sanabiswanathpur, Katuru, Bayali ➤ No. of farmers involved : 07 ➤ Area covered- 1 ha. ➤ Training conducted- 02 ➤ KMAs- 02
4.	KVK should promote inclusion of honey bee in IFS programme	<ul style="list-style-type: none"> ➤ Apiculture is included in KVK demonstrated IFS with 15 honey bee boxes ➤ Awareness programmes taken in Villages - PPN pur, Satyanarayanpur, Jugudi, Rangeilunda, Badagumula ➤ Training conducted- 2 ➤ KMA: 02 ➤ Entrepreneur created -1
5.	Strengthening of FPOs should be included in action plan	<ul style="list-style-type: none"> ➤ Two District level capacity development programmes have been conducted ➤ Training programmes were conducted involving Baba Biswanath FPO, Ujjaleswar FPO, Maa Bhairabi Women FPO, Chikiti & Patrapur FPOs ➤ Inter-state exposure visit of FPOs to Green Bird, Green Blend FPOs of Srikakulam, Andhra Pradesh was conducted ➤ KMAs- 4
6.	Floriculture programmes should be promoted by KVK in its demonstration and training programmes	<ul style="list-style-type: none"> ➤ FLD on floriculture has been taken up in SCSP programme ➤ Villages covered- Ralaba, Govindanagar, Golanthara, Nandika, Jugudi, Chandanpur, ➤ No of farmers covered: 1360 ➤ Area covered- 80 ha . ➤ Training conducted- 5 ➤ KMAs- 4
7.	Owing to diversified resources in fishery in the district, Integrated Management of Argulosis, Freshwater prawn culture should be taken	<ul style="list-style-type: none"> ➤ FLD on Use of Aargucure (TANDAV) for controlling Argulus in carp culture has been taken up (Area-3.60 ha, No of Farmers- 15) ➤ FLD on Use Polyculture of ICAR-CIFA GI Scampi conducted (2.40ha, No of Farmer- 10) ➤ Training conducted- 02 nos ➤ KMAs- 02

8.	Water quality monitoring in crab Fattening should be recorded to prevent possible contamination. Newly innovated product by ICAR-CIFA-the Brood-VAC vaccine should be taken while formulating any breeding programme by KVK.	<ul style="list-style-type: none"> ➤ Regular water quality monitoring is done in the OFT/FLD Programmes on crab culture. ➤ Assisted breeding using ICAR-CIFA Brood Vac at Govt. Fish Hatchery- Bhanjanagar, Digapahandi. ➤ Training conducted- 02 nos ➤ KMAs- 02
9	Various Ivy gourd varieties like Arka Neelachal Sabuja, Arka Neelachal khunki should be promoted and popularized among farmers	<ul style="list-style-type: none"> ➤ In last two years FLD on ivy gourd variety has been already taken up ➤ A permanent ivy gourd unit , Arka Neelachal khunki is established in KVK and seedlings prepared from it, is sold to farmers ➤ Villages covered- Ralaba, Govindanagar, Golanthara, Nandika, Jugudi, Chandanpur, Bhejikut ➤ No of farmers covered: 520 ➤ Area covered- 10 ha . ➤ Training conducted- 2 ➤ KMAs- 4
10	KVK should develop a fodder demonstration unit with suitable varieties and ensuring the availability of slips/planting material for farmers of the district	<ul style="list-style-type: none"> ➤ A fodder demonstration unit consisting of two types of napier such as Red napier and Super napier demonstrated in the crop cafeteria. ➤ Fodder demonstration has been taken up in SCSP programme in farmers field ➤ Villages covered- Radhadeipur & Pudamari ➤ Training conducted : 01 ➤ Farmers participated : 30 ➤ Area covered- 02 Ac .
11	Crop cafeteria of KVK should contain different varieties of various crops round the year	<ul style="list-style-type: none"> ➤ Crop cafeteria of KVK consists of different crops such as Brinjal, Tomato, Sweet corn, maize, vegetable in trellies, marigold, tuberos and different vegetable in nutritional garden round the year
12	Proper documentation of KVK activities as well as KVK portal up-dation should be done for better visibility of the KVKs	<ul style="list-style-type: none"> ➤ Regular update KVK website with all activities ➤ Only KVK of the nation publishing monthly e- news letter on regular basis since 2023 ➤ Sending SMS on regular basis through M kisan , Kisan Sarathi and whatsapp groups KVK activities are published regularly in State and National dailies, ICAR website as well as in electronics media ➤ One mobile app developed by KVK on Crab farming (more than 1500+ downloads)

ACHIEVEMENTS OF THE MANDATORY ACTIVITIES

(Rabi 2024-25 to Kharif 2025)

Detail of On-Farm Testing

Sl No.	Crop/Component	Technology Assessed	Technology option	Details of technologies	Yield (q/ha)
01	Rice	Assessment of medium duration rice varieties under rainfed condition	FP	Rice variety- Lalat	40.2
			TO ₁	Rice variety- Kalinga Dhan-1203	44.7
			TO ₂	Rice variety- Kalinga Dhan-1204	43.2
			TO ₃	Rice variety- Kalinga Dhan-1205	43.8
02	ridge gourd	Assessment of integrated nutrient management in ridge gourd	FP	Application of N-P ₂ O ₅ -K ₂ O (100:50:30)	97.2
			TO ₁	50%STBF (NPK) + 25%STBF N through vermicompost + Azotobacter @4kg/ha and PSB @4 kg/ha	125.7
			TO ₂	STBF (NPK) +FYM@10t/ha+ consortia of azotobacter , azosprillum and PSB @ 4 kg/ha each	129.4
03	rice	Assessment of standardisation of NPK dose in medium land rice	FP	Application of N: P ₂ O ₅ :K ₂ O @ 80:40:40 kg/ha+ FYM @ 5 t/ha	41.5
			TO ₁	Application of N: P ₂ O ₅ :K ₂ O @ 80:40:60 kg/ha + FYM @ 5 t/ha	42.8
			TO ₂	Application of N: P ₂ O ₅ :K ₂ O @ 100:50:50 kg/ha + FYM @ 5 t/ha	48.4
04	Kewda	Assessment of integrated nutrient management in Kewda	FP	Application of FYM @ 20 kg /pit/ year and no application of fertilizer	33.65
			TO ₁	STBF(NPK) + FYM @ 10 kg/ pit twice	42.86
			TO ₂	STBF(NPK) + FYM @ 10 kg/pit twice +inoculation of OUAT consortia bio-fertilizers	45.72
05	Ridge gourd	Assessment of management practices against fruit fly in Ridge gourd	FP	Application of Chloropyriphos @ 1lt/ha.	97.4
			TO ₁	Soil application of Chlorpyriphos 1.5% dust	119.6

				@ 25kg/ha at 30 DAG, application of Jaggery(100gram) , Cartap hydrochloride(2gram) & water (1litre) poison bait, Cue lure @ 20/ha., Periodical removal of damaged fruits	
			TO ₂	Food bait @ 20/ha ,100ml(mixture of 1kg cucumber pulp,50g gur,100ml cow urine, 0.5 l of water soaked over night & diluted to 05 lt. & add 10 ml malathion.)Cue lure @ 25/ha, Spinosad 45SC @ 20ml/ha at 30,45, 60 & 75 DAS	124.3
06	Rice	Assessment of different management practices for YSB and Leaf folder in Rice	FP	Foliar spray with (Chlorpyrifos + Cypermethrin) 1 l/ha @ or Profenophos @1l/ha	38.8
			TO ₁	Foliar spray of Flubendiamide 20% WG @ 125 g/ha at the vegetative phase and at flowering stage	42.8
			TO ₂	Foliar spray with Tetraniliprole 20SC @ 250 ml/ha at 25, 45 and 65 DAT	45.0
			TO ₃	Soil application twice of (Cartap hydrochloride 7.5% + Emamectin benzoate 0.25% G) @ 7.5 kg/ha at 30 DAT and PI stage	47.0
07	Fish	Assessment of economic performance of different species in Biofloc System	FP	Stocking Vietnam koi @ 100 per m ³	275 ^a ±2.45
			TO ₁	Stocking of all male tilapia fingerlings @ 100 per m ³ (Technical Bulletin (NFDB), 2018)	474 ^b ±2.62
			TO ₂	Stocking of Singhi fingerlings @ 150 per m ³ (Technical Bulletin (NFDB), 2018)	215 ^c ±2.87
08	Crab	Assessment of different wet feeds on	FP	Feeding with trash fish (Indiscriminate feeding	540 ^a ±3.85 (Kg/ 15m ³ /Cycle)

		growth performance of mud crab <i>Scylla serrata</i> during fattening	TO ₁	Feeding with semi-processed Chicken Intestine	780 ^b ±2.62 (Kg/ 15m ³ /Cycle)
			TO ₂	Feeding with low value fish	830 ^{bc} ±2.55 (Kg/ 15m ³ /Cycle)
09	Fish		Assessment of economic performance of different species in Biofloc System	FP	Stocking Vietnam koi @ 100 per m ³
		TO ₁		Stocking of all male tilapia @ 100 per m ³	453 ^b ±2.62 (Kg/ 15m ³ /Cycle)
		TO ₂		Stocking of Singhi fingerlings @ 150 per m ³	243 ^c ±2.87 (Kg/ 15m ³ /Cycle)

Details of Front-Line Demonstration

SI No	Technology demonstrated	Detail of Technology		Results (q/ha)
1	Demonstration on toria variety Sushree	FP	Var. desi sorisha	6.2
		RP	Var. Sushree (seed inoculation with Azotobactor, PSB along with 50-25- 25 NPK kg/ha along with application of 25 kg ZnSo4 and 1kg B per ha	9.5
2	Demonstration on ICM in Groundnut	FP	Sowing behind furrow, manual weeding , NPK@ 15-35-0	17.5
		RP	Groundnut Var. Dharani, STBF +gypsum@ 2.5q/ha and Boron 1 Kg/ha + Trichoderma. Pre-emergence application of Pendimethalin@ 2.5l/ha fb post emergence application of Quizalfop P ethyl 1000ml/ha with mechanical harvesting	22.0
3	Demonstration on High yielding millet variety- Shreeratna.	FP	Ragi variety: Budha mandia	13.8
		RP	Ragi variety: Shreeratna (OEB-601),Duration-117 days, Average Yield-23.5q/ha, semi-dwarf, light brown colour seed, Resistant to pest and disease like Brown spot, stem borer, aphids, and Grasshopper	18.2
4	Demonstration on Little millet variety- Kalinga Suan- 217	FP	Local suan var. sana suan	7.5
		RP	Little millet variety-Kalinga suan 217.Duration-105-110 days, resistant to rust, grain smut, tolerant	10.2
5	Demonstration on application of OUAT consortia biofertiliser in cauliflower	FP	Application of chemical fertilizer 120:40:30 N:P ₂ O ₅ :K ₂ O Kg/ha	188.7
		RP	STD+ inoculation of OUAT consortia bio-fertilisers to pre-limed (5%) 300 Kg FYM/VC(1:25) incubated for 7 days at 30% moisture and applied in the rhizosphere on the day of planting	242.4

6	Demonstration on application of lime for management of blossom end rot in tomato	FP	Application of NPK fertiliser @100:50:40 kg N: P ₂ O ₅ :K ₂ O/ha (RDF=180:120:150)	197.6
		RP	STD+ Soil application of lime @0.2LR	259.3
7	Demonstration on integrated nutrient management in betel vine	FP	Application of N:P ₂ O ₅ :K ₂ O @ 100:50:50 + Mustard Oil cake @ 3q/ha	1053221 (No. of leaves/ha)
		RP	STBF (50%) +MOC @ 1.5 t/ha + Vermicompost (VC) @ 10 t/ha + consortia biofertiliser @ 12 kg/ha inoculated to 300kg VC, mixed with 15 kg lime incubated at 30 % moisture for a week and applied in the rhizosphere.	1416853 (No. of leaves/ha)
8	Demonstration on integrated management of thrips and mite in Chilli	FP	Spraying of Imidachlopid@ 200ml/ha	94.3
		RP	Soil application of neem cake @ 2.5 q/ha, installation of blue sticky traps @ 50 nos/ha, application of Difenthiuron 50WP + Spiromesifen 240 SC @ 500 ml/ha at 10 days interval starting from 30 DAT	114.5
9	Demonstration on IPM against Mealy bug in Okra	FP	Spraying of Imidaclopid @ 200ml/ha.	8.1
		RP	Removal of grasses from the bunds, removal and destruction of affected plants, spraying of Fenitrothion 50 % EC @1.5 l/ha twice at 10 days interval.	3.6
10	Demonstration on chemical management of fruit borer in pointed gourd	FP	Application of Imidachlopid @200ml/ha	96.7
		RP	Application of Neemazole @2.5ml/lt at 15 days interval upto flowering , need base application of Flubendiamide 39.35%M/MS.c @ 125ml/ha and Chlorotraniliprole 18.5% W/WS.c @150ml/ha twice after 15 days interval.	119.1
11	Demonstration of Fall Armyworm management practices in Maize	FP	Spraying of Chloropyriphos @ 1lt/ha	41.8
		RP	<ul style="list-style-type: none"> ▪ First Window (seedling to early whorl stage): spray 5% NSKE or Azadirachtin 1500 ppm @ 5 ml/l of water, ▪ Second window (mid whorl to late whorl stage): To manage 2nd and 3rd instar larvae at 10-20% damage spray Spinetoram 11.7% SC @ 0.5 ml/l of water ▪ Poison baiting: Poison baiting is recommended for late instar larvae of second window. Keep the mixture of 10 kg rice bran + 2 kg jaggery with 2-3 litres of water for 24 hours to ferment. Add 100g Thiodicarb just half an hour before application in the field. The bait should be applied into the leaf whorl of the plants. Hand picking of the larvae is advisable. 	49.5
12	Demonstration on integrated management of	FP	Spraying of Imidachlopid@ 200ml/ha	119.7
		RP	Soil application of neem cake @ 2.5 q/ha, installation of blue sticky traps @ 50 nos/ha, application of Difenthiuron 50WP +	141.5

	thrips and mite in Chilli,		Spiromesifen 240 SC @ 500 ml/ha at 10 days interval starting from 30 DAT	
13	Demonstration on IPM against Mealy bug in Okra	FP	Spraying of Imidacloprid@ 200ml/ha	126.8
		RP	Removal of grasses from the bunds, removal and destruction of affected plants, spraying of Fenitrothion 50 % EC @ 1.5 l/ha twice at 10 days interval.	153.6
14	Demonstration on Polyculture of CIFA-GI Scampi with Carps	FP	Culture of IMC only (SD @ 7500 nos Fingerlings/ha) in few cases stocking of wild collected Scampi Seed	30.15 Carp
		RP	Stocking of CIFA-GI Scampi PL@10,000/ha along with carps@6000/ha (Catla@3000 Nos, Rohu@2000 Nos, Mrigal@500 Nos and Grass carp@500 Nos)	Carp-27.80 GI Scampi-10.30
15	Demonstration on Use of CIFRI Argcure (Tandav) for controlling Argulus in carp culture	FP	Application of synthetic pyrethroids like cypermethrin 10% EC / deltamethrin 2.8% EC/ Formalin	25.95
		RP	Application of CIFRI-Argcure (Tandav/Danav) @ 40 ml per acre-m, 3 times in 7 days interval	32.36
16	Demonstration of strengthening of pond based IFS	FP	Un-utilized or Under-utilized farm pond bund area	Fish-27.50, Veg-1.85q
		RP	Fish-Horticulture-Livestock integrated farming	Fish-32.45 , veg-2,76, meat 245kg, egg- 730 no
17	Demonstration of FERTIFISH (Fermented Fish Waste solution) on growth and yield of Vegetables	FP	Commercial grade expensive growth promotor application	192
		RP	Foliar spray of organic fermented fish waste solution @ 5-15 ml in 15 litre of water. Source: Annual Report, ICAR-CIFT – 2019	207
	Demonstration on Polyculture of prawn along with Carps	FP	Culture of IMC only, few cases stocking of wild collected Scampi Seed	Crap-30.15
		RP	Stocking CIFA-GI Scampi PL@10,000/ha along with carps@6000/ha	Crap-26.35 Scampi-05.65
18	Demonstration on transfer of	FP	Progressive farmers under govt. demonstration	

technology through harnessing human values in agriculture	RP	Progressive farmers designated by an organization as per the domain of specialization serves as an ambassador of change in the process of technology transfer. (Farmer scientist, farmer professor, farm captain, blue farmer of the district, mushroom lady etc.)	Observation parameters	Farmers Practice		Demonstrated Practice	
			(1-3 scale)	MS	Rank	MS	Rank
			Dissemination of technology	1.51	IV	1.95	IV
			Horizontal spread	1.24	V	1.58	V
			Technology Adoption	1.23	VI	1.49	VI
			Increase social recognition	1.75	II	2.14	II
			Increase cosmopolitaness	1.80	I	2.05	III
			Treated as resource person	1.74	III	2.32	I

Training

Type	Achievement		
	No.	Duration (in Days)	No of Farmers
Farmers & Farm Women	54	54	1620
Rural Youths	16	32	240
In-Service Personnel	10	10	200
Total	80	96	2060

Other Extension Activities

Extension Activitiesk	Achievement	
	No	Participants
Field Days	14	300
Kisan Mela	3	Mass
Diagnostic visit	78	1120
Group Meeting	17	315
Scientific Visit to farmers Fields	165	1213
Lecture Delivered by KVK Scientists	41	1230
Farmers visit to KVK	526	526
Soil test campaigns	3	85
Plant health clinic	4	157
Exhibitions	3	Mass
Film Shows	5	Mass
Radio Programmes	15	Mass
TV Shows	08	Mass
KMAs (Portal & Kisan Sarathi)	60	49200
Soil Testing Campaigns	04	100
Soil sample testing	523	1289
Celebration Day	15	1850

Publication

Sl.No	Item	No.	No. of copies printed
1	Book/ Booklet	4	2000
2	Leaflets	4	2000
3	Poster/Flex	20	20
4	News letter	2	1000
5	Newspaper Coverage	20	-
6	Popular Articles	8	4000
7	Technical bulletins	15	15
8	Technical report	12	24
9	Training material	05	-
10	CDs/ DVDs	01	10

Revolving Fund

(i) Achievement Paddy seed

Crop	Variety	Class	Area (ha)		Production (q)	
			Target	Achievement	Unprocessed	Processed
Rice	MTU-1224	FS	4.00	4.00	188	-
Dhanicha	-	TL	3.00	3.00	5.08	4.53

(ii) Quality planting material production

Name of crop	Variety	Achievement (No.)
Drumstick	PKM-1	1100
Papaya	Red Lady	1100
Tomato	Arka samrat	5,000
Chilli	Royal Bullet	20,000
Marigold	Ceracol	20,000
Brinjal	Akshita	20,000
Onion	Agri found Light red	50000

Other materials

Name of item	Quantity/No.
Vermi-compost	18.50 q
Earthworm(Eisenia Foetida)	11.20 kg
Table size fish	1.60q
Fish Yearlings	55200 Nos.
Ornamental fish	280 Pair
Poultry chick	845 Nos

ACTION PLAN 2026-27

ON-FARM TESTING (OFT)

Sl. No.	Crop	Technology Assessed	Details of technologies		Observation Parameter
1	Rice	Assessment of different crops for rice fallow management in East & SE coastal Plain zone.	FP	Rice-Fallow	Rice grain yield, Rabi crop growth and yield parameters system yield and economics
			TO ₁	Rice-Greengram Sowing of Greengram after harvest of Kharif rice.	
			TO ₂	Rice- Sesame Sowing of Sesame after harvest of Kharif Rice.	
			TO ₃	Rice-Black Gram Sowing of Blackgram after harvest of Kharif Rice	
2	Vegetable	Assessment of natural farming practices in vegetable crops	FP	Okra sole crop with conventional PoP	Sole crop and intercrop yield, main crop equivalent yield, changes in soil fertility parameters, soil pH, microbial counts, economics
			TO ₁	Okra + Cowpea (1:1)+Seed treatment with beejamrita 200 ml/kg seeds. Ghanjeevamrit 400 kg/acre 2 times 200 kg during sowing and 45 DAS (Placements)+ Application of Dhravajeevamrit, Soil application 3 times @200 l/acre each at 30, 60 and 90 DAS and foliar spray 4 times at 15,45,75, and 105 DAS @ 10% spray. Marigold as border crop, spraying Neemastra and Agniastra @ 5l in 200l of water at 10 days interval alternatively. Spraying of sour butter milk @ 6L in 100 L of water on incidence of diseases	
			TO ₂	Okra + Cluster bean (1:1)+ Green manuring through Dhaincha. Seed treatment with beejamrita 200 ml/kg of seeds for 7 hrs . Application of FYM 200 kg/acre + Ghanjeevamrit 25 kg/acre during sowing + Application of jeevamrit Soil application 6 times @200 l each at 15 days interval	

				after sowing along with irrigation water. 10 % desi cow urine spray if leaf turns yellow. 6 foliar spray of Jeevamrit @ 5 % at 20 days interval from sowing of main crop growing of trap crops marigold as border crop. Spraying Neemastra and Bhrahamstra @ 3 l in 100 l of water at 10 days interval alternatively. Spraying of sour butter milk @ 3l in 100 l of water on incidence of diseases.	
3	Kewda	Assessment of integrated nutrient management in Kewda	FP	Application of FYM @ 20 kg /pit/ year and no application of fertilizer	No. of flower/plant, length and weight of flower, soil testing values before and after crop
			TO ₁	STD(NPK) + FYM @ 10 kg/ pit twice ,	
			TO ₂	STD(NPK) + FYM @ 10 kg/pit twice +inoculation of OUAT consortia bio-fertilizers to pre-limed(5%) 300 kg FYM/VC(1:25) incubated for 7 days at 30% moisture and applied in the rhizosphere on the day of planting (RDF=50:25:25 g NPK/plant)	
4	Rice	Assessment of standardisation of NPK dose in medium land rice	FP	Existing recommendation of N: P ₂ O ₅ :K ₂ O @ 80:40:40) kg/ha + FYM @ 5 t/ha	No of tiller /hill, Thousand seed weight, Yield, soil test value, economics.
			TO ₁	Application of N: P ₂ O ₅ :K ₂ O @ 80:40:60) kg/ha + FYM @ 5 t/ha	
			TO ₂	Application of N: P ₂ O ₅ :K ₂ O @ 100:50:50) kg/ha + FYM @ 5 t/h	
5	Brinjal	Assessment on IPM modules for management of sucking pests in Brinjal (New)	FP	Spraying of Thiamethoxam 25WG @ 150 gm/ha .	No .of affected plant/100m2
			TO ₁	Installation of Yellow sticky trap @20/ha at 15 DAT, Alternate spraying of Spiromesifen 22.9 SC @ 400 ml/ha and Neem oil (300 ppm) @ 2.5 l/ha at 15 days interval from 30 DAT.	

			TO ₂	Installation of YST @ 20/ha at 15 DAT, alternate spraying of (Spirotetramat 11.01 + Imidacloprid 11.01 SC) @ 500 ml/ha and Neem oil (300 ppm) @ 2.5 l/ha at 15 days interval from 30 DAT.	
6	Greengram	Assessment of management practices against pod borer complex in Greengram	FP	Spraying of Chloropyriphos@ 1 lt/ha .	No. of damaged pods/plant, ICBR ,Yield (q/ha), B:C ratio
			TO ₁	Foliar spray of NSKE 5% at 30 DAS followed by Chlorantraniliprole 18.5 SC @ 200 ml/ha at 45 DAS	
			TO ₂	Foliar spray of NEEM OIL 1500PPM @3ml/lit at 30 days after sowing (DAS) followed by Flubendiamide 39.35% SC 200 ml/ha at 45 DAS	
7	Crab	Assessment on Integrated Management of Argulosis in carps	FP	Cypermethrin 10% EC @ 0.01 ppm	Disease incidence (%), Survivability (%), SG , ABW (Harvest), BC ratio
			TO ₁	Ivermectin 2% w/w in feed @ 250ppm (feeding for 4-5 days)	
			TO ₂	ICAR-CIFRI-(DANAV/TANDAV) @ 100 ml/ha-m/dose (3 doses in weekly intervals)	
8	Fish	Assessment of Standardization of Fish/Prawn Pickle Production for SHG-Based Enterprise in Ganjam District	FP	Traditional dry fish making	Processing loss (%), Shelf life (days), Microbial load Sensory evaluation score B:C ratio
			TO ₁	Blanching at 1000C for 3-5 minutes followed by controlled frying at 170-1800C and addition of Food grade vinegar@ 2-3%	
			TO ₂	Blanching at 1000C for 3-5 minutes followed by controlled frying at 170-1800C and addition of Tamarind pulp @ 2-3%	
9	-	Assessment of suitable marketing strategies for better marketing of high value crops	FP	Traditional marketing through in local market /Haat	Quantity of produce, price at local market, traders price, gate sale price, Quantity sold by different methods, Feedback of
			TO ₁	Sell to local traders at the farm gate	
			TO ₂	Fixing a banner at suitable place, preferably at main road indicating the place of production, mentioning the	

				special quality of the produce (Fresh / sweetness / organic etc.) with catchy captions and picture to attract the costumers	customers on the banner, quality of the produce
10	-	Assessing efficacy of different channels to get appropriate technology from reliable sources	FP	Farmer -Farmer extension	Timely availability of the information, understanding of the technology, easy to use, Change in Knowledge, technology adoption (%)
			TO ₁	Print media	
			TO ₂	Blackboard technology	

FRONT LINE DEMONSTRATION

Sl No.	Crop	Title	Technology		Observation Parameter
1	Little millet	Demonstration on little millet varieties Kalinga Suan 217(Year-II)	FP	Local suan var. sana suan	Effective tillers/ m ² , No of fingers per ear ,ear weight, no. of grains per ear, 1000 grain weight.
			RP	Little millet variety- Kalinga suan 217	
2	Rice	Demonstration on medium duration rice variety Kalinga Dhan - 1203.	FP	Rice variety- Lalat	Effective tillers/m ² , No. of filled grains/panicles, test weight, yield, economics
			RP	Rice variety- Kalinga Dhan-1203	
3	Mustard	Demonstration on Mustard Var. Sampoorna(OUAT Kalinga Mustard-1)	FP	Var. Sushree	No.of siliquae/plant, no. of seeds/siliquae, seed yield(kg/ha)
			RP	Var. Sampoorna(OUAT Kalinga Mustard-1)	
4	Rice	Demonstration on Weed management in transplanted Rice	FP	Pre-emergence application of Pretilachlor@ 1500 ml/ha	Weeds per meter sq., Weed control efficiency, Yield q/ha.
			RP	Pre-emergence application of pretilachlor @ 1500ml/ha fb post emergence application of triafomane+	

				ethosulfuron@ 220 g/ha at 15 DAT	
5	Ridge gourd	Demonstration on integrated nutrient management in ridge gourd	FP	50%STBF (NPK) + 25%STBF N through vermicompost + Azotobacter @ 4kg/ha and PSB @ 4 kg/ha ,	% of affected fruits , no. of fruit fly /trap
			RP	STBF (NPK) +FYM@10t/ha+ consortia of azotobacter, azosprillum and PSB @ 4 kg/ha each	
6	Sesame	Demonstration on application of elemental sulphur on sesame	FP	Application of N: P ₂ O ₅ :K ₂ O @ 30: 15: 15	Soil parameter before and after harvesting, pods/plant, yield , B:C
			RP	Application of STBF (NPK) + elemental sulhur @ 30kg/ha	
7	Tomato	Demonstration on application of lime for management of blossom end rot in tomato	FP	Application of NPK fertiliser @100:50:40 kg N: P ₂ O ₅ :K ₂ O/ha (RDF=180:120:150)	No. of infected fruits/m ² , initial and final soil status
			RP	STD+ Soil application of lime @0.2LR	
8	Cauliflo wer	Demonstration on application of OUAT consortia biofertiliser in cauliflower	FP	Application of chemical fertilizer 100:40:30 N:P ₂ O ₅ :K ₂ O Kg/ha (RDF=120:60:60)	Curd weight, Soil testing values before and after crop
			RP	STD+ inoculation of OUAT consortia bio-fertilisers to pre-limed (5%) 300 Kg FYM/VC(1:25) incubated for 7 days at 30% moisture and applied in the rhizosphere on the day of planting	
9	Maize	Demonstration of Fall Armyworm management practices in Maize	FP	Spraying of Chloropyriphos @ 1lt/ha	% of pest infestation, No of insect/plant, No of plant infested /m ²
			RP	▪ First Window (seedling to early whorl stage): spray 5% NSKE or Azadirachtin 1500 ppm @ 5 ml/l of water	

				<ul style="list-style-type: none"> ▪ Second window (mid whorl to late whorl stage): To manage 2nd and 3rd instar larvae at 10-20% damage spray Spinetoram 11.7% SC @ 0.5 ml/l of water ▪ Poison baiting: Poison baiting is recommended for late instar larvae of second window. Keep the mixture of 10 kg rice bran + 2 kg jaggery with 2-3 litres of water for 24 hours to ferment. Add 100g Thiodicarb just half an hour before application in the field. The bait should be applied into the leaf whorl of the plants. <p>Third Window (8 weeks after emergence to tasseling and post tasseling): Hand picking of the larvae is advisable.</p>	
10	Rice	Assessment of different management practices for YSB and Leaf folder in Rice	<p>FP Foliar spray with (Chlorpyrifos + Cypermethrin) 1 l/ha @ or Profenophos @1l/ha</p> <p>RP Soil application twice of (Cartap hydrochloride 7.5% + Emamectin benzoate 0.25% G) @ 7.5 kg/ha at 30 DAT and PI stage</p>	DH%, WEH%, leaf folder infestation %, egg mass/ hill	
11	Chilli	Demonstration on integrated management of thrips and mite in Chilli	<p>FP Spraying of Imidachlopid@ 200ml/ha</p> <p>RP <ul style="list-style-type: none"> ▪ Soil application of neem cake @ 2.5 q/ha, installation of blue sticky traps @ 50 nos/ha, application of Difenthiuron 50WP + Spiromesifen 240 SC @ 500 ml/ha at 10 days </p>	No .of affected plant/100m ²	

				interval starting from 30 DAT	
12	Okra	Demonstration on IPM against Mealy bug in Okra	FP	Spraying of Imidacloprid@ 200ml/ha.	No of infected plant/100m ²
			RP	Removal of grasses from the bunds, removal and destruction of affected plants, spraying of Fenitrothion 50 % EC @1.5 l/ha twice at 10 days interval.	
13	Mud crab	Demonstration on the use of chicken viscera as feed in mud crab fattening	FP	Indiscriminate low value fish feeding	Yield (Kg/Ac), Survivability (%)Avg. Body Wt (g), FCR, Water Quality, B:C Ratio
			RP	Feeding with semi-processed Chicken Intestine during fattening phase	
14	Fish	Demonstration of mixed carp stunted fingerlings production in biofloc culture system	FP	Production of air-breathing fishes in biofloc	Yield, Survivability (%), Water Quality (pH, Ammonia, DO, TDS), B:C ratio
			RP	Stocking of 10,000 nos. of mixed carp advance fry or early FLs in a biofloc tank of 10 ton capacity with a production potential of 7000 - 8,000 nos. (more than 200kg) of bigger size stunted FLs within 3 months	
15	Fish	Demonstration on Culture of Singhi (Heteropneustes fossilis) in Biofloc System	FP	Stocking Vietnam koi/Tilapia in Biofloc system	Yield, Survivability (%), Water Quality (pH, Ammonia, DO, TDS), B:C ratio
			RP	Stocking of Singhi fingerlings @ 150 per m ³ with regular monitoring of floc and water quality	
16	Poultry	Demonstration on low cost feed formulation for semi-intensive poultry	FP	Feeding only broken rice	Body weight (g), Mortality (%), B:C ratio
			RP	Provisioning feed with ground maize 30%, GNOC 23%, Fish meal 10%, wheat bran 15%, Broken rice 20%, Mineral mixture & Salt 2% (CP% -18.83%, Crude Fibre-5.22%)	

17	Crop	Demonstration of usefulness of crop/livestock calendar for improving the technical knowledge of farmers and application of technology	FP	Existing agricultural technical print material	Applicability of calendar, Accessibility of calendar , Knowledge level, change in income
			RP	Supply of agricultural calendar for improving groundnut production through technical knowledge of farmers	

TRAINING

Category	No. of courses	No. of participants
Farmers and farm women	53	1570
Rural youth	16	225
Extension functionaries	10	200
Vocational training	6	90
SPONSORED	5	150
Total	90	2235

OTHER EXTENSION ACTIVITIES

Extension Activities	Achievement	
	No	Participants
Field Days	15	450
Kisan Mela	3	Mass
Diagnostic visit	58	810
Group Meeting	6	150
Scientific Visit to farmers Fields	152	750
Farmers Visits	260	260
Lecture Delivered by KVK Scientists	15	500
Exhibitions	3	Mass
Film Shows	5	Mass
Radio Programmes	20	Mass
TV Shows	10	Mass
Soil Testing Campaigns	2	100
KMA	35	34200
Celebration Day	18	1700
Video Documentation	5	-
Soil testing	500	-

Seed production

Crop	Variety	Class	Area (ha)
Rice	Swarna Sub -1	FS	5
Greengram	Virat	TL	1
Black gram	PU-39	TL	2

Quality Planting material production

Name of the crop	Details of production		
	Variety	Type of Produce	Qty.(Nos.)
Papaya	Red lady	PM	1000
Drumstick	PKM-1	PM	500
Tomato	Utkalraja	PM	30000
Chilli	Ukalrashmi	PM	20000
Brinjal	Akshita	PM	30000
Marigold	Bidhan Marigold -2	PM	25000

Other materials/ Commodities

Season	Name of item	Quantity/No.	Name of item	Quantity/No.
Kharif / Rabi	Vermi-compost	25 q	Paddy straw and oyster mushroom	1q
Kharif / Rabi	Earthworm(EiseniaFoetida)	20 kg	Poultry (21 days old)	1000 Nos
Kharif / Rabi	Fish	2 q	Honey	10 Kg
Kharif / Rabi	Ornamental fish	1000 pairs		
Kharif / Rabi	Yearling/Fingerling	3000 Kg		
