14TH SCIENTIFC ADVISORY COMMITTEE MEETING

On 17thDec.2024

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^{0}4' to 20^{0}17' Latitude and 84^{0}7' to 85^{0}12' 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
- Streaming the functioning of the existing FPOs
- Providing suiting IGA of women SHG

BASIC INFORMATION OFGANJAM 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	
*Kharif*Area Irrigated	3,02,109 ha
*Rabi*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, 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
Medinipur	2022	Kukudakhandi
Radhamohanpur	2023	Chikiti
Medinipur	2023	Kukudakhandi
Gokanpur	2023	Digapahandi
Bhejiput	2023	khalikote

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

13TH 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 theutmost careto SAC recommendations during the formulation of the KVK action plan (Intervention framework) for the district context.

Sl. No	Recommendation	Action taken
1.	To assess different new varieties of little millet in the OFT programme	➢ OFT on little millet (CV. Kalinga Suan -217 & OLM-208)has been taken during Kharif 2024 ➢ Villages covered- Tumba, S Badapur, Patrapur ➢ Farmers covered- 10 ➢ Area-2 ha ➢ Training conducted- 2 ➢ KMAs- 01
2.	Ragi Variety Shreeratna should be included in the action plan.	➢ FLD on Ragi(var. Shreeratna) has been taken up in Kharif 2024 ➢ Villages covered- Panada, Patrapur, Kusumi, Santrapur ➢ Farmers covered- 20 ➢ Area- 3 ha ➢ Training conducted- 2 ➢ Field day -1 ➢ KMAs- 3
3.	Drought and Flood resistant rice variety should be included in the action plan.	➢ 4 ha of flood resistant variety Swarna sub-1 has been taken as seed production programme (FS) under revolving fund ➢ FLD on drought tolerant rice variety Swarna shreya has been taken in Kharif programme ➢ Villages covered- Radhamohanpur, Kusumi, Bhejiput ➢ No of farmers covered: 30 ➢ Area covered- 3.8 ha ➢ Group discussion conducted- 2

		➢ Field Day-1 ➢ KMAs- 6
4.	Micro irrigation and crop diversification should be given due priority with inclusion more non-rice crops	➢ Demonstration of micro-irrigation has made operational for the farmers in the newly developed fruit orchard of KVK under MIDH project ➢ FLD on IFS has been taken up comprising suitable crop and non-crop components and guiding more than 40 IFSs ➢ Villages covered- Govindanagar, Golanthara, Nandika, Ambagaon, Balipada, Rangailunda-T. Giria, Padripali, Kukudakhandi- Nistipur, Sumandi, Sukunda, Pallinabhapur, Hinjali, Sasanpadar, Dayapalli, Santoshpur ➢ No. of farmers covered: 32 ➢ Area covered- 8.16 ha. ➢ Training conducted- 7 ➢ KMAs- 4
5.	Programmes on mulching and INM in chilli should be done in Purusottampur block	➢ FLD on INM in chilli has been taken up with scientific approaches, However mulching in Chilli will be conducted during Rabi 2024-25 in Pursottampur block. ➢ Villages covered- Handigarh, Jaleswarkhandi, Bhimpur ➢ No of farmers covered: 10 ➢ Area covered- 01 ha ➢ Training conducted- 1 ➢ KMAs- 1
6.	Vermi-compost production should be popularised	➢ FLD on vermicomposting has already been taken under SCSP programme ➢ Villages covered- Sanabiswanathpur, Radhamohanpur, Kishorechandrapur, Kadarpali, Barjishpentha ➢ No of farmers covered: 10 ➢ Training conducted- 2 ➢ KMAs- 1
7.	Programmes on crab cultivation should be taken extensively	➢ FLD on crab cultivation has been taken during Kharif 2024 ➢ Villages covered- Sonapur, Kaitha, Surala ➢ No of farmers covered: 20 ➢ Area covered- 3 ha ➢ Training conducted- 2 ➢ KMAs- 3 , Video – 1 ➢ App developed: 1

8.	Floriculture programmes should be taken by KVK in its demonstration and training programme	➢ FLD on floriculture has been taken up in SCSP programme ➢ Villages covered- Ralaba, Govindanagar, Golanthara, Nandika, Jugudi, Chandanpur, ➢ No of farmers covered: 20 ➢ Area covered- 03 ha . ➢ Training conducted- 2 ➢ KMAs- 4
9	KVK should prepare technical bulletins for crab farming especially on Fattening method, Duckery to be added in IFS.	➢ FLD on IFS has been taken up with duckery as a component in farmers field as well as in KVK ➢ Villages covered- PPN pur, Satyanarayanpur, Jugudi, Rangeilunda, Badagumula ➢ Training conducted- 2 ➢ Crab farming App developed : 1

ACHIEVEMENTS OF THE MANDATORY ACTIVITIES

(Rabi 2023-24 to Kharif 2024)

Detail of On-Farm Testing

Crop/ Component	Technology Assessed	Technology option	Details of technologies	Yield (q/ha)
Rice	Assessment of Decomposer for in-situ residue management in Rice	FP	Harvesting of Rice in combine harvester and burning of residue in the field	0.43
		TO_1	NRRI consortia @1 kg /ton of paddy straw + 5 kg urea along with 0.5% jaggery solution + cow dung slurry in 100 lit of water for 1 ha.	0.47
		TO_2	PUSA decomposer@ 4 capsules in 25 lit of water with 2 % jaggery solution and pulse powder for 1 ha.	0.51
Millet	Assessment of Little millet varieties for better yield	FP	Cultivation of local Suan	6.7
		TO_1	Cultivation of little millet Var. OLM 208	9.1
		TO_2	Cultivation of little millet Kalinga suan -217	10.2
Rice	Assessment of medium duration rice varieties under rainfed condition	FP	Rice variety- Lalat	40.2
		TO_1	Rice variety- Kalinga Dhan-1203	47.3
		TO_2	Rice variety- Kalinga Dhan-1204	44.0
		TO_3	Rice variety- Kalinga Dhan-1205	41.7
Ridge gourd	Assessment of integrated	FP	Application of N-P_2O_5-K_2O (100:50:30)	96.4

	nutrient management in ridge gourd	TO_1	50%STBF (NPK) + 25%STBF N through vermicompost + Azotobacter @4kg/ha and PSB @4 kg/ha	122.7
		TO_2	STBF (NPK) +FYM@10t/ha+ consortia of azotobacter , azosprillum and PSB @ 4 kg/ha each	127.9
Kewda	Assessment of integrated nutrient management in Kewda (Contg..)	FP	Application of FYM @ 20 kg /pit/ year and no application of fertilizer	25.21
		TO_1	STBF + FYM @ 10 kg/ pit twice	29.11
		TO_2	STBF + FYM @ 10 kg/pit +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	30.78
Ridge gourd	Assessment fruit fly management in Ridge gourd	FP	Application of Chloropyriphos @1lt/ha	98.4
		TO_1	Soil application of Chloropyriphos 1.5 % dust @ 25kg/ha at 30 DAG,application of Jgerry (100gm),Cartap hydrochloride (2gm) & water (1 liter) poison bait,Cue lure @ 20/ha,periodical removal of damaged fruits.	122.1
		TO_2	Food bait @ 20/ha,100ml(mixture of 1 kg cucumber pulp,50g gur,100ml cow urine,0.5lt of water soaked over night & Spinosad 45% SC @ 20ml/ha at 30,45,60 & 75 DAS.	127.3
Rice	Assessment of different management practices for YSB and Leaf folder in Rice	FP	Foliar spray with (Chlorpyriphos + 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	43.4
		TO_2	Foliar spray with Tetraniliprole 20SC @ 250 ml/ha at 25, 45 and 65 DAT	44.5
		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	45.9

<table>
<tr><td rowspan="3">Fish</td><td rowspan="3">Refinement on control of Argulosis in fish</td><td>FP</td><td>Application of synthetic pyrethroids like cypermethrin 10% EC/deltamethrin 2.8% EC</td><td>$24.75^{a} \pm 2.15$</td></tr>
<tr><td>TO_1</td><td>Ivermectin 2% w/w in feed @250 ppm & fed to the fishes for 4-5 days</td><td>$29.68^{bc} \pm 2.15$</td></tr>
<tr><td>TO_2</td><td>CIFRI-Argcure (DANAV/TANDAV) @ 40 ml / acre meter depth, 3 times at interval of 7 days</td><td>$31.19^{b} \pm 2.15$</td></tr>
<tr><td rowspan="3">Fish</td><td rowspan="3">Assessment of different wet feeds on growth performance of mud crab Scylla serrata during fattening.</td><td>FP</td><td>Indiscriminate feeding of trash fish</td><td>$210^{a} \pm 3.85$</td></tr>
<tr><td>TO_1</td><td>Feeding with Chicken Intestine</td><td>$280^{b} \pm 2.62$</td></tr>
<tr><td>TO_2</td><td>Feeding with low value fish</td><td>$310^{bc} \pm 2.55$</td></tr>
<tr><td rowspan="3">Fish</td><td rowspan="3">Assessment of economic performance of different species in Biofloc System (Continuing)</td><td>FP</td><td>Stocking Vietnam koi @ 100 per m^3</td><td rowspan="3">(Continuing)</td></tr>
<tr><td>TO_1</td><td>Stocking of all male tilapia fingerlings @ 100 per m^3 (Technical Bulletin (NFDB), 2018)</td></tr>
<tr><td>TO_2</td><td>Stocking of Singhi fingerlings @ 150 per m^3 (Technical Bulletin (NFDB), 2018)</td></tr>
<tr><td rowspan="3">Marketing strategies On sweetcorn</td><td rowspan="3">Assessment of suitable marketing strategies for better marketing of high value crops</td><td>FP</td><td>Traditional marketing in local market /Haat fetching lower return</td><td rowspan="3">
<table>
<tr><td colspan="4">Price at local market</td></tr>
<tr><td>Low</td><td>Med</td><td>High</td><td>SD</td></tr>
<tr><td>11</td><td>13</td><td>6</td><td>2.94</td></tr>
<tr><td>9</td><td>6</td><td>15</td><td>3.74</td></tr>
</table>
<table>
<tr><td colspan="4">Traders price</td></tr>
<tr><td>Low</td><td>Med</td><td>High</td><td>SD</td></tr>
<tr><td>13</td><td>10</td><td>7</td><td>2.45</td></tr>
<tr><td>6</td><td>15</td><td>9</td><td>3.74</td></tr>
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<tr><td colspan="4">Gate sell price</td></tr>
<tr><td>Low</td><td>Med</td><td>High</td><td>SD</td></tr>
<tr><td>9</td><td>14</td><td>7</td><td>2.94</td></tr>
<tr><td>5</td><td>8</td><td>17</td><td>5.10</td></tr>
</table>
<table>
<tr><td colspan="4">Quantity sold</td></tr>
<tr><td>Low</td><td>Med</td><td>High</td><td>SD</td></tr>
<tr><td>14</td><td>10</td><td>6</td><td>3.63</td></tr>
<tr><td>4</td><td>10</td><td>16</td><td>4.90</td></tr>
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</td></tr>
<tr><td>TO_1</td><td>Sell to local traders at the farm gate</td></tr>
<tr><td>TO_2</td><td>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</td></tr>
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Details of Front Line Demonstration

Sl No	Technology demonstrated	Detail of Technology		Results (q/ha)
1	Demonstration on weed management in maize	FP	Hand weeding at 40 -45 DAS	13.3
		RP	Post-emergence application of tembotrione 34.4% SC @ 100 g/ha at 20 DAS (4-5 leaf stage)	3.3
2	Demonstration of foliar nutrition on mung bean productivity	FP	Basal application of 15: 40:0 NPK kg/ha.	39.3
		RP	Use of NPK (19:19:19) along with application of Boron (20%) @ 2.5 g/ litre of water at flower initiation	47.6
3	Demonstration on High yielding millet variety- Shreeratna.	FP	Ragi variety: Budha mandua	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 weed management in transplanted Rice	FP	Hand weeding at 30 DA	41.9
		RP	Pre-emergence application of pretilachlor 6% + bensulfuron methyl 0.6 % GR(Ready mix) 600g/ha at 3 DAT fb post emergence application of Bispyribac Sodium 10 EC 25g/ha at 20 DAT	47.6
5	Demonstration on integrated nutrient management in chilli	FP	Application of NPK fertilizers only (80:40:40 kg N: P_2O_5 :K_2O /ha)	119.6
		RP	Use of STBF NPK, Nitrogen to be applied in 3 split doses, Soil application of Azospirillum @ 5kg/ha should be mixed with 100 kg FYM	151.8
6	Demonstration on integrated nutrient management in betel vine	FP	Application of N-P_2O_5-K_2O (100:50:50) + Mustard Oil Cake (MOC) @ 3 q /ha	3.56
		RP	STBF (50%) +MOC @ 1.5 t/ha + Vermicompost (VC) @ 10 t/ha + consortia of azotobacter, azosprillum	4.71

			and PSB @ 4 kg/ha inoculated to 300kg VC, mixed with 15 kg lime incubated at 30 % moisture for a week and applied in the rhizosphere.	
7	Demonstration on integrated nutrient management on growth and yield of papaya	FP	Application of chemical fertilizer NPK (200:200:200 g/plant)+FYM @1kg/plant	151.8
		RP	75% RDF + vermi-compost @ 4 t/ha + Azotobacter@4kg/ha + PSM@4 kg/ha	146.5
8	Demonstration on IPM-Aphid management in Marigold	FP	Spraying of Imidacloprid@ 200ml/ha	89.2
		RP	Application of neemcake @2.5q/ha at the time of planting, Installation of Yellow sticky trap @ 50/ha & foliar spraying of Flonicamide 50%WG @ 200gm/ha twice at 15 days interval.	122.4
9	Demonstration on chemical management of fruit borer in pointed gourd	FP	Application of Chloropyriphos @1lt/ha	170
		RP	Application of Neemazole @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.	242
10	Demonstration of IDM practices for Die back management in Chilli	FP	Spraying of Carbandazim@ 1kg/ha	122.4
		RP	Seed treatment with *T.viridae*@ 2.5g/ kg of seed and application of Pyraclostrobin 20 WG @ 1gm/lt of water from initial disease appearance at 10 days interval	160.2
11	Demonstration on integrated management of thrips and mite in Chilli	FP	Spraying of Imidachloprid@ 200ml/ha	Contg..
		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	
12	Demonstration of Fall Armyworm management practices in Maize	FP	Spraying of Chloropyriphos @ 1lt/ha	40.6
		RP	▪ First Window (seedling to early whorl stage): spray 5% NSKE or	48.1

<table>
<tr><td></td><td></td><td></td><td>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</td><td></td></tr>
<tr><td>13</td><td>Demonstration on use of Probiotic for enhanced pond productivity</td><td>FP</td><td>Indiscriminate application of Lime and Organic mannure</td><td>25.28</td></tr>
<tr><td></td><td></td><td>RP</td><td>Alternative application of both soil and water probiotic @1kg or lt/Ac at fortnight interval.</td><td>38.75</td></tr>
<tr><td>14</td><td>Demonstration of strengthening of pond based IFS</td><td>FP</td><td>Un-utilized or Under-utilized farm pond bund area</td><td rowspan="2"><table><tr><td colspan="4">Yield q/ha</td></tr><tr><td rowspan="2">Fish</td><td rowspan="2">Vegetable</td><td colspan="2">Poultry</td></tr><tr><td>Meat</td><td>Egg</td></tr><tr><td>28.20</td><td>2.1 q</td><td>-</td><td>-</td></tr><tr><td>31.70</td><td>3.8 q</td><td>320 Kg</td><td>1250 no</td></tr></table></td></tr>
<tr><td></td><td></td><td>RP</td><td>Fish-Horticulture-Livestock integrated farming</td></tr>
<tr><td>15</td><td>Demonstration on Polyculture of CIFA-GI Scampi with Carps (Continuing)</td><td>FP</td><td>Culture of IMC only (SD @ 7500 nos Fingerlings/ha) in few cases stocking of wild collected Scampi Seed</td><td>Cont..</td></tr>
<tr><td></td><td></td><td>RP</td><td>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)</td><td></td></tr>
<tr><td>16</td><td>Demonstration on transfer of technology through harnessing human values in agriculture</td><td>FP</td><td>Progressive farmers under govt. demonstration</td><td rowspan="2"><table><tr><td>Observation parameters</td><td colspan="2">Farmers Practice</td><td colspan="2">Demonstrated Practice</td></tr><tr><td>(1-3 scale)</td><td>MS</td><td>Rank</td><td>MS</td><td>Rank</td></tr><tr><td>Dissemination of technology</td><td>1.51</td><td>IV</td><td>1.95</td><td>IV</td></tr><tr><td>Horizontal spread</td><td>1.24</td><td>V</td><td>1.58</td><td>V</td></tr><tr><td>Technology Adoption</td><td>1.23</td><td>VI</td><td>1.49</td><td>VI</td></tr><tr><td>Increase social recognition</td><td>1.75</td><td>II</td><td>2.14</td><td>II</td></tr><tr><td>Increase cosmopoliteness</td><td>1.80</td><td>I</td><td>2.05</td><td>III</td></tr><tr><td>Treated as resource person</td><td>1.74</td><td>III</td><td>2.32</td><td>I</td></tr></table></td></tr>
<tr><td></td><td></td><td>RP</td><td>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.)</td></tr>
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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 Activities	Achievement	
	No	Participants
Field Days	10	300
Kisan Mela	3	mass
Diagnostic visit	78	1120
Group Meeting	6	150
Scientific Visit to farmers Fields	140	1052
Lecture Delivered by KVK Scientists	16	500
Exhibitions	3	Mass
Film Shows	5	Mass
Radio Programmes	15	Mass
TV Shows	08	Mass
KMAs(Portal + Kisan Sarathi)	62	34200
Soil Testing Campaigns	04	100
Soil sample testing	545	1240
Celebration Day	15	1850

Publication

Sl.No	Item	No.	No. of copies printed
1	Book/ Booklet	3	1500
2	Leaflets	3	1500
3	Poster/Flex	20	20
4	News letter	2	1000
5	News paper Coverage	15	-

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	Swarna Sub-1	FS	5.00	5.00	95.00	88.00
Dhanicha	-	TL	3.00	3.00	5.08	4.20

(ii) Quality planting material production

Name of crop	**Variety**	**No. produced Achievement (No.)**
Drumstick	ODC-3	1670
Papaya	Red Lady	1520
Tomato	Arka samrat	30,000
Chilli	Royal Bullet	5,000
Marigold	Bidhan Marigold -2	25,000
Brinjal	Akshita	20,000
Onion	Agri found Light red	30000

Other materials

Name of item	**Quantity/No.**
Vermi-compost	20.20 q
Earthworm(*Eisenia Foetida*)	8 kg
Fish	1.50 q
Ornamental fish	200 pairs
Yearling	3.00 q
Fingerlings	40000 nos
Honey	6 kg
Poultry (21 days)	500 nos

ACTION PLAN 2025-26

ON-FARM TESTING (OFT)

Sl. No.	Crop	Technology Assessed	Details of technologies		Observation Parameter
1	Rice	Assessment of medium duration rice varieties under rainfall condition (Year-II)	FP	Rice variety-Lalat	Effective tillers /m^2 , No. of filled grains/ panicles, test weight, yield, economics
			TO_1	Rice Variety: Kalinga Dhan-1203	
			TO_2	Rice Variety: Kalinga Dhan-1204	
			TO_3	Rice Variety: Kalinga Dhan-1205	
2	Cotton	Assessment of weed management practices in cotton	FP	**HW at 30 DAS**	Weed count ,WCE, Cotton yield, cost saving in weeding, economics.
			TO_1	Application of Pyrithiabac sodium6% + Quizalfop-ethyl 4% @ 500ml/ha at 20 DAS as post emergence spray.	
			TO_2	Pre- emergence application of pendimethaline@ 3300 ml /ha and post emergence application of Quizalfop-ethyl @ 1000ml/ha at 20 DAS.	
3	Kewda	Assessment of integrated nutrient management in Kewda (Year-II)	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.
			TO_1	STD(NPK) + FYM @ 10 kg/ pit twice ,	
			TO_2	STD(NPK) + FYM @ 10 kg/pit twice +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 (RDF=50:25:25 g NPK/plant)	
4	Sesame	Assessment of effect of boron and sulphur in sesame (Year-I)	FP	N: P_2O_5 :K_2O @ 20:20:0	Yield , plant height, soil testing values
			TO_1	STD(NPK) + Boron@ 0.5kg/ ha+ sulphur @30kg/ha	
			TO_2	STD(NPK) + Boron@ 1.0 kg/ ha+ sulphur @30kg/ha	

5	Rice	Assessment of different management practices for YSB and Leaf folder in Rice	FP	Foliar spray with (Chlorpyriphos + Cypermethrin) 1 l/ha @ or Profenophos @1l/ha	DH%, WEH%, leaf folder infestation %, egg mass/ hill
			TO_1	Foliar spray of Flubendiamide 20% WG @ 125 g/ha at the vegetative phase and at flowering stage	
			TO_2	Foliar spray with Tetraniliprole 20SC @ 250 ml/ha at 25, 45 and 65 DAT	
			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	
6	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.	
7	Crab	Assessment of wet feeds on growth performance of mud crab (Scylla serrata) fattening	FP	Indiscriminate feeding of trash fish	Average body weight (BW), Carapace width (CW) & Weight gain (WG), Survibility (%), Yield (q/ha), B:C ratio, Salinity, pH, DO2,, Hardness, Alkalinity
			TO_1	Feeding with Chicken waste (Viscera mass) @10-6 % Body weight (KUFOS, 2023)	
			TO_2	Feeding with low value fish@10-6% B wt. (CIBA, 2022)	
				Alternate application of Ivermectin 2% (w/v and 2% w/w) in pond in 10 days interval	
8	Fish	Assessment of economic performance of	FP	Stocking Vietnam koi @ 100 per m^3	ABW (gm), Survivability (%), Yield, Income, B:C Ratio
			TO_1	Tilapia fingerlings @ 100 per m^3 (Technical Bulletin (NFDB, 2018)	

		different species in Biofloc system	TO_2	Singhi fingerlings @ 150 per m^3 (Technical Bulletin (NFDB,2018)	
9	-	Assessment of suitable marketing strategies for better marketing of high value crops	FP	Sell of produce at local market/haat	Quantity of produce, price at local market, traders price, gate sale price, Quantity sold by different methods, Feedback of customers on the banner, quality of the produce
			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	
10	-	Assessing efficacy of different channels to get appropriate technology from reliable sources	FP	F-F extension	Timely Availability/ delivery of technology, suitability of technology, ease in handling, Complexity, cost of technology
			TO_1	Print media	
			TO_2	Mobile message from govt sources	
			TO_3	Blackboard technology	

FRONT LINE DEMONSTRATION

Sl No.	Crop	Title	Technology		Observation Parameter
1	Little millet	Demonstration on little millet varieties Kalinga Suan 217(Converted to FLD from OFT)	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	Finger millet	Demonstration on High yielding Finger millet variety-Shreeratna (OUAT Kalinga Finger Millet-1) (Year-II)	FP	Ragi variety-Budha mandia	Effective tillers/ $m^{2,}$ No of fingers per ear , no. of grains per ear, 1000 grain weight.
			RP	Shreeratna (OUAT Kalinga Finger Millet-1)	
3	Toria		FP	M -27	

		Demonstration toria variety-Sushree (Year-II)	RP	Toria (variety : Sushree)	No. of siliquae/ plant, no. of seeds/ siliquae, seed yield(kg/ha)
4	Groundnut	Demonstration on chemical weed management in groundnut (Year-II)	FP	Hand weeding at 20 -35 DAS	Weeds per meter sq., Weed control efficiency, Yield q/ha.
			RP	Pre-emeregence application of pendimethaline 30% + Imazethapyr 2% @ 1kg/ha readymix fb post emergenct application of quizolfop-P-ethyl @ 50gm /ha at 20 DAS	
5	Dragon fruit	Demonstration on Dragon fruit cultivation for income generation of farmers	FP	No Cultivation practices in waste land	No. of fruits/plant, Fruit weight (g), yield(q/ha)
			RP	Cultivation of Dragon fruit in upland with pit size of 60x60x60 cm , Single pole system planting is done at 3X3 m distance. four plants in each pole, Vertical height of pole is 1.5m to 2m at which point they are allowed to branch and hang down	
6	Ivy gourd	Demonstration of ivygourd for higher production	FP	Planting of locally available Varieties (chota turuda)	No of fruits/plant, Fruit wt (g), Yield (q/ha)
			RP	Cultivation of ivy gourd variety Arka Neelachal Kunkhi, Planted with a spacing of 2 m x 2 m. Fruits are extra-long (8.39 cm), weighing around 15-20g, uniform, cylindrical with attractive stripes .high yield (20-25 t/ha)	
7	Ridge gourd	Demonstration on integrated nutrient management in ridge gourd	FP	Application of N-P_2O_5-K_2O (100:50:30)	Yield (q/ha), Fruit wt.(g), Fruit length(cm), B:C Ratio
			RP	STBF (NPK) +FYM@10t/ha+ consortia of azotobacter , azosprillum and PSB @ 4 kg/ha each	
8	Betel vine	Demonstration on integrated nutrient management in betel vine (Year-III)	FP	Application of N-P_2O_5-K_2O (100:50:50) + Mustard Oil Cake (MOC) @ 3 q /ha	Vine length , No of leaves/ vine
			RP	STBF (50%) +MOC @ 1.5 t/ha + Vermicompost (VC) @ 10 t/ha + consortia of azotobacter, azosprillum and PSB @ 4 kg/ha inoculated to 300kg VC, mixed with 15 kg	

				lime incubated at 30 % moisture for a week and applied in the rhizosphere,	
9	Tomato	Demonstration on application of lime for management of blossom end rot in tomato (Year-II)	FP	Application of NPK fertiliser @100:50:40 kg N: P_2O_5:K_2O/ha (RDF=180:120:150)	Fruit weight, yield, Soil test value before and after crop
			RP	STD+ Soil application of lime @0.2LR	
10	Cauliflower	Demonstration on application of OUAT consortia biofertiliser in cauliflower (Year-II)	FP	Application of chemical fertilizer 100:40:30 N:P_2O_5:K_2O Kg/ha (RDF=120:60:60)	Fruit weight, yield, Soil test value 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	
11	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 ▪ 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. ▪ Third Window (8 weeks after emergence to tasseling and post tasseling): Hand picking of the larvae is advisable.	

12	Ridgegourd	Demonstration of fruit fly management in Ridgegourd	FP	Application of Chloropyriphos @1lt/ha.	No .of insect/m2
			RP	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 Indoxocarb.)Cue lure @ 25/ha, Spinosad 45%SC @ 20ml/ha at 30,45, 60 & 75 DAS	
13	Chilli	Demonstration on integrated management of thrips and mite in Chilli	FP	Spraying of Imidachloprid@ 200ml/ha	No .of affected plant/100m^2
			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	
14	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.	
15	Fish	Demonstration on Polyculture of CIFA-GI Scampi/ Freshwater Prawn with Carps	FP	Culture of IMC only (SD @ 7500 nos. Fingerling/ha) in few cases stocking of wild Scampi Seed	Survivability, Size, ABW, Yield
			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)	
16	Fish Vegetable	Demonstration of strengthening of pond based IFS	FP	Un-utilized or Under-utilized farm pond bund area	ABW, Size, Survivability, Yield, Income
			RP	Fish-Horticulture-Livestock integrated farming. Stocking of yearlings of IMC @ 5000 nos/ha, planting of papaya, banana, seasonal vegetables, drumstick etc. on pond dykes + Duck@250 nos/ha	
17	Fish	Demonstration on Use of CIFRI	FP	Application of synthetic pyrethroids like cypermethrin	Disease incidence (%),

		Agrcure (Tandav/ DANAV) for controlling Argulus in carp culture		10% EC, Deltamethrin 2.8% EC or Formalin	Mortality (%), SGR, ABW (Harvest), BC ratio
			RP	Application of CIFRI-Argcure (Tandav/Danav) @ 40 ml per acre-m, 3 times in 7 days interval	
18	Fish	Demonstration of FERTIFISH (Fermented Fish Waste solution) on growth/yield of Vegetable	FP	Commercial grade expensive growth promotor application	Disease and pest infestation (%), yield, economics
			RP	Foliar spray of organic FFWS solution @ 5% in vegetables	
19	-	Demonstration on transfer of technology through harnessing human values in agriculture	FP	Technology is often transferred through progressive farmers / change agents	Transfer of specific tech (Ha/number), Horizontal spread
			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.)	

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		

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