

**PROCEEDINGS OF THE 33<sup>RD</sup> SCIENTIFIC ADVISORY COMMITTEE MEETING  
OF KRISHI VIGYAN KENDRA, GANJAM-I HELD ON 12<sup>TH</sup> NOVEMBER 2024**

The 33<sup>rd</sup> Scientific Advisory Committee (SAC) meeting of the Krishi Vigyan Kendra, Ganjam-I was held on dt.12.11.2024 in the KVK campus both in hybrid mode under the Chairmanship of Prof. Prasannajit Mishra, Dean Extension Education. Dr. Prasanta Kumar Mohanty, JDE, OUAT, Bhubaneswar and Dr. Partha Pratim Pal, Principal Scientist, ICAR-ATARI, Kolkata also attended the meeting virtually. All the SAC members including line dept. officials, representatives from NGOs, farmer's representative participated in the meeting on hybrid mode (list Annexed). The meeting was started with welcome address by Dr. Sutanu Kumar Satapathy, Sr. Scientist and Head. The Chairman, after brief introductory remarks invited Sr. Scientist and Head to start the proceedings as per the agenda.

**AGENDA-I: Approval of the proceedings of the 32<sup>nd</sup> SAC meeting**

The 32<sup>nd</sup> Scientific Advisory Committee (SAC) meeting was held on 6<sup>th</sup> January 2024. The Senior Scientist and Head, KVK, Ganjam-1, presented the action taken report on the recommendations of the 20<sup>th</sup> SAC meeting.

<b>Sl. No.</b>	<b>Salient recommendations</b>	<b>Actions taken</b>
1	Black/brown var. of sesame may be tested for oil content as compared to white var. of sesame	Three sesame varieties viz. Smarak (white seeded), Suprava and Kalinga (brown seeded) has been grown in KVK campus in collaboration with ICRISAT. Oil content and yield potential of these varieties would be documented.
2	Steps should be taken for improving the productivity of fruit crops	Improved orchard management practices like poly-mulching, drip irrigation and INM practices have been demonstrated in KVK farm under MIDH for farmers awareness on different crops (guava, banana, pineapple, papaya, sapota, ber, and mango)
3	FPOs should be strengthened for better sustainability	Within our jurisdiction we collaborate with 13 FPOs (300 to 500 members each). We provide tailored training programmes for these FPOs in regular basis and have conducted assessments to evaluate their effectiveness across varieties of tasks additionally from OUAT side we have established CoE for FPOs to support a wide range of FPO related activities. A district level launching workshop was successfully established on 8 <sup>th</sup> November, 2024.
4	Management of fruit	One training programme was conducted involving 25 farmers

<b>Sl. No.</b>	<b>Salient recommendations</b>	<b>Actions taken</b>
	drops in mango should be demonstrated	on fruit drop management of mango on dt.20.11.2024. Front Line Demonstration on Anthracnose was conducted in 2.0 ha involving 10 farmers
5	Power weeder in vegetable crops should be popularized in large scale	We conducted demonstration on power operated weeder in vegetable fields across 5 villages engaging 50 farmers in the process. The results were highly promising, especially given the challenge of labour scarcity. Following the demonstration we have seen a growing interest from farmers enquiring about subsidy options and leaching out to line departments for further support
6	Vegetable planter may be tested to reduce drudgery	Regarding vegetable planter scheduled demonstration to take place during Rabi, 2024-25. This timing allows farmers to seamlessly integrate the new planting technique, enhancing efficiency in the upcoming vegetable season.
7	For increasing income floriculture i.e. tube rose and marigold should be promoted.	FLD has been conducted on tube rose and marigold involving 20 farmers of villages viz. Dihapadhala, Golapada, Agalapada, Buguda, and Ambapua
8	Training on value addition of fruits and vegetables may be conducted.	Three training programme have been conducted in different FIG groups in villages viz. Kulada and Kotibaradi.
9	Awareness and trials on Antimethanogenic feed in ruminant should be conducted	Demonstration has been conducted on bypass feed involving 10 farmers (20 CB cattle) in the village Mangalpur, Panchbhuti, Ambapua, Nada, Tulasipalli, Gereda, Raipalli and Chadheyapalli.
10	Duck breed should be promoted in IFS pond-based system for better sustainability.	OFT on Khaki Campbell and Desi x Khaki Campbell breed will be tested involving 10 farmers. Two training programme in respect on duck farming and IFS conducted involving 50 farmers.
11	Popularization of OUAT poultry breed-Kalinga Pallishree	Total 670 chicks provided to 20 farmers in village Ekagharia, Balakiari, Udhura, Pantikhari, Jhadabhumi, Gayaganda, and Muzagada.

Sl. No.	Salient recommendations	Actions taken
12	Awareness on Mastitis and mammary edema	Four trainings are conducted involving 100 farmers of villages namely, Khetamundali, Tirigochha, Gramadebati, Shisundha, Dubapalli, Patangi, Mangalpur, Rudhapadara, Ghogada, Naragadu, Khajuripalli, and Dasha sahi on scientific dairy farming and health management

After a brief discussion on the action taken report, the proceeding of the last SAC meeting was approved.

#### AGENDA-II: Achievements of 2024-25

The Senior Scientist & Head presented the detailed achievements as per the action plan for the year 2023-24 (*Rabi*) and 2024-25 (*Rabi*).

- a) **OFTs**- KVK has completed 10 OFTs involving 70 farmers and 9 OFTs involving 63 farmers and farm women are ongoing

Sl. No.	Title of the OFTs	Significant Achievements
1	Assessment of management practices against YMV disease in green gram	Seed treatment with Imidacloprid 600 FS @ 5 ml/kg of seed, placement of yellow sticky trap @ 50/ha, spraying of Neem oil 0.15% @ 2 ml/L at 30 DAS and spraying of Diafenthiuron 50 WP @ 1 g/L at 45 DAS resulted in 74% reduction in YMV incidence and 46% (7.6 q/ha) more yield as compared to farmers practice (Thiamethoxam @ 150 g/ha.)
2	Assessment of different growing media for raising vegetable seedlings	Mix sterilized cocopeat @ 300 kg with 5 kg neem cake along with Azospirillum and Phosphobacteria each @ 1 kg. Sow the treated seed in protrays. Drench with 19:19:19 @ 0.5% (5 g/L) at 18 days after sowing have shown that 33% more germination, 63% less seedling mortality with net incremental income of ₹2,195.
3	Assessment of preparation of Sugarcane jaggery	Use of Vegetable Clarificant (Groundnut paste) for Jaggery preparation showed that increase life period of 04 days (12 days) with net incremental income of ₹616 per quintal (₹2860/q) as compared to farmers practice (Using calcium hydroxide) for Jaggery preparation)
4	Assessment of inclusion of broken rice as a substitute for maize as feed ingredient in poultry feed	Provisioning feed with ground maize 30%, GNOC 23%, Fish meal 10%, wheat bran 15%, broken rice 20%, vitamins and mineral mix 2% increased the survivability by 42% and body wt gain of chicks by 40%

Sl. No.	Title of the OFTs	Significant Achievements
	formulations on growth of chicks in semi-intensive system of rearing	
5	Assessment of two different ethno-veterinary formulation for treatment of lumpy skin disease in cattle	Prepare a paste by mixing betel leaves 10 nos., black pepper- 10 gm., salt-10 gm. Mix this paste with jaggery. Day-1: Feed this one dose to infected animal every 3 hr. interval. Day-2: Feed three doses daily from second day onwards for 2 weeks. The ethno-veterinary formulations have positive effect on LSD weight loss in calves, Effective at early stage of infection with 50 % less recovery period as compared to farmers practice (Antibiotic and Symptomatic treatment)
6	Assessment of the performance of FPOs with varied levels of task and commodity to enhance profitability	FPO dealing with multi-commodity with multi-task showed that higher performance and stable business planning as compared to Unorganized farmers fetching low return from the farm produce
7	Assessment of Integrated Nutrient Management practices in Banana	Application of gypsum 1 kg/ plant + FYM 15 kg/ plant + recommended of N, P and 120% K in saline sodic soil increased the yield by 26 % ( 287 q/ha) with net incremental income of ₹1,54,820/ha as compared to farmers practice (200:100:100 g NPK/plant)
8	Assessment of improved techniques of paddy straw mushroom cultivation using crumbled straw	Circular compact method of Paddy straw mushroom resulted in 25 % more biological efficient with net incremental income of ₹16/- per bed (0.59 kg/bed) as compare to famers practice (rectangular compact size)
9	Assessment of effectiveness of different extension methods to access information on rice production	Farmers to farmers + Short video lecture + Focus group discussion showed that higher rate of technology transfer as compared to farmers to farmers transfer of technology
10	Assessment of effectiveness of various sources of information for pest management in rice	Technological back stopping from Front line extension workers (KVK/RRTTS/ SAU/ICAR) resulted in significant improvement in farmers' knowledge, skills, and attitudes toward pest management

b) *FLDs*-KVK has completed 14 *FLDs* involving 140 farmers and 16 *FLDs* involving 160 farmers and farm women under different crops and enterprises are ongoing.

Sl. No	Title of the <i>FLDs</i>	Significant achievements
1	Demonstration on Integrated Nutrient management in Sesame	STBFR + Bio-inoculation of Azotobacter + Azospirillum + PSB @ 2.5 kg/ha each produced 12.5% (7.2 q/ha) more yield as compared to application of N-P <sub>2</sub> O <sub>5</sub> -K <sub>2</sub> O @ 50:25:25 kg/ha
2	Demonstration on Anthracnose disease management in Chilli	Seed treatment with (Carboxin 37.5% + Thiram 37.5% ) @ 0.2% followed by three sprayings with Difenconazole @ 0.1% from initial disease appearance at 10 days interval produced in reduction of 75% disease incidence and 09% (264 q/ha) more yield as compared to farmers practice (Spraying of Carbandazim @ 1 kg/ha)
3	Demonstration on INM practices in Bittergourd	STBF + vermicompost (2.5 ton/ha) + Azotobator: Azospirillum: PSB @ 1:1:1 @ 4 kg/ha resulted in 19% (147 q/ha) more yield with net incremental income of ₹42600/ha as compared to farmers practice (50:30:30 kg NPK/ha)
4	Demonstration on marigold cultivation for income generation of farm women	By cultivating Bidhan marigold – 2 the yield increased by 18% (98.6 q/ha) with net incremental income of ₹50,800/ha as compared to farmers practice (Mandaphula)
5	Demonstration on value addition of finger millet for enhancing income of SHG	Value addition of finger millet by preparing Muruku resulted in net incremental income of ₹310 per 10 kg of ragi as compared to ragi powder selling.
6	Demonstration on usefulness of health management calendar for Ganjam goats	A colourful calendar in local language which include pictures and information related to de-worming, vaccination, supplement feeding, pregnant animal care resulted in increased goat health, body wt. gain and decrease in mortality of goat.
7	Demonstration on dry land power weeder in Rabi vegetables	By using Power weeder (capacity: 0.08-0.1 ha/h (12.5 h/ha) in vegetable crops resulted in reduction of 72% man days and net incremental income of ₹7,200/ha as compared to manual weeding
8	Demonstration on stocking of grow out ponds with yearlings	Stocking with Indian Major carp yearling @ 5000 nos. per acre in seasonal grow out pond, floating feed @ 5% of Bio-mass resulted in 81% survivability with 52.1 % ( 40.6q/ha) more yield as compared to farmers practice (Stocking of fish fry and not maintaining the stocking ratio)
9	Demonstration on	Cultivation of maize hybrid Kalinga Raj (OMH 14-27)

Sl. No	Title of the FLDs	Significant achievements
	maize hybrids for rainfed upland	produced 11% (48.2 q/ha) more yield with net incremental income of ₹9,680/ha as compared to farmers practice (JK hybrid)
10	Demonstration on Chilli hybrids for resistance to multiple disease	By cultivating Chilli hybrid- Arka Sanvi the leaf curl virus decreased by 86% with 20% ( 148.6q/ha) more yield as compared to farmers practice( Royal bullet)
11	Humidity management in paddy straw mushroom production unit in summer season	Bundle paddy straw substrate (3 layers) + covering the floor with 2 inch sand in moist condition + installation of fogger system produced 0.78 kg mushroom/bed as compare to 0.45 kg mushroom/bed in conventional method with net incremental income of ₹45 per bed
12	Demonstration on perennial fodder production and feeding in dairy farming	Fodder (CO <sub>4</sub> , guinea, para) cultivation and feeding @ 10% of body wt. produced 0.52 L more (6.54 L/day) milk (in 90 days) with net incremental income of ₹6,165/ cow as compared to straw/concentrate feeding.
13	Demonstration of bypass fat feeding to increase milk yield and milk fat % in case of dairy cows	Grazing and bypass fat feeding as fat source along with mineral mix resulted in 28% more milk yield (9.35 L/day), 61% more fat and net incremental income of ₹99/cow as compared to Grazing and Inadequate commercial grain feeding
14	Demonstration on dietary supplementation of mineral mixture and concentrate on juvenile growth of goats	Feeding of kids (3 months of age) with mineral mixture @ 10 g/day and concentrate @ 50-80 g/goat/day up to 60 days (proper deworming) resulted in 80% decrease in mortality of kids, 29% (8.21 kg at 06 months) more body wt. gain with net incremental income of ₹394/goat.

**c) Training-** KVK has conducted 39 training programmes for practicing farmers and farm women, 6 trainings for rural youth and 3 for in-service personnel.

**d) Other extension activities-** KVK organized 12 field days, 15 film shows, 8 method demonstrations, 54 diagnostic field visits, provided 66 farm advisory services, 2 exposure visits, 2 animal health camp, 1 soil health camp, 2 soil test campaigns, and 13 special days. Apart from these KVK prepared 3 technology videos, 2 extension literatures, 10 different activities cover by news papers and a total of 9154 farmers got benefited.

#### **AGENDA-III: Action Plan for 2025-26**

Activities	Target
OFTs	11
FLDs other than oilseed pulse	20

FLDs oilseed pulse	01 (Sesame)
Trainings	(60 FW, 8 RY, 4 Ex.)
Ext. activities	1040
Newsletter	4
Soil sample	350
KMAS	80

Sl. No.	Title of OFT	Title of FLD
<b>Kharif 2025</b>		
1	Assessment of IWM practices in Pigeonpea. (Repeat)	Demonstration on polythene mulching in Chilli for higher yield profitability. (Repeat)
2	Assessment of INM practices in banana. (Repeat)	Demonstration of Okra variety Kashi Chaman. (Repeat)
3	Assessment of production of straw mushroom from semi-composted substrate. (New)	Demonstration on training & pruning in Guava. (K/R) (New)
4	Assessment on value added products of Millets (Millet Bar) for income generation . (New)	Demonstration of Ganga Maa Mandal Nutri Garden Model for Household nutritional security. (K/R). (NEW)
5	Assessment of effectiveness of different extension methods to access information on Rice crop production. (Repeat)	Demonstration of tuberose cultivation for income generation of farm women. (Repeat)
6	Assessment of different millet based fodder crops on livestock production. (New)	Demonstration of Mechanized Phoola Bari maker. (Repeat)
7	Assessment of different housing system on body weight gain performance of goats. (New)	Demonstration on supplementation of mineral mixture & dried curry leaves powder on fertility of CB cattle. (New)
8		Demonstration on low cost concentrate feed mixture with Vit E & Se therapy on reproductive performances of CB heifers. (Repeat)
9		Demonstration on dietary supplementation of mineral mixture and concentrate on juvenile growth of goats. (Repeat)

Sl. No.	Title of OFT	Title of FLD
10		Demonstration on backyard or low input technology (LIT bird breed-Kalinga Pallishree). (Repeat)
11		Demonstration of Genetically Improved (GI). (Repeat)
<b>Rabi 2025-26</b>		
12	Assessment of effect of foliar application in Blackgram (Rabi) (NEW)	Demonstration on Integrated Crop Management in Sunflower. (New)
13	Assessment of herbicides for weed management in Tomato (Repeat)	Demonstration on management of Anthracnose disease in Mango. (Repeat)
14	Assessment of gender responsiveness in climate smart agriculture interventions delivered through different channels (New)	Demonstration on wilt complex in Tomato by using JIVAMRITA & BIJAMRITA. (New)
15	Assessment of different duck breeds for better production in the district. (Repeat)	Demonstration on different mulching on growth yield of strawberry. (New)
16		Demonstration on tomato powder for increasing self-life & income generation. (Repeat)
17		Demonstration of Single Row Vegetable Transplanter. (Repeat).
18		Demonstration of short technical video for dissemination of climate resilient agriculture. (New)
19		Demonstration on low-cost feed formulation for semi-intensive poultry. (New)
20		Demonstration of CIFA- carp grower feed. (Repeat)

#### **AGENDA-IV: Salient recommendations of the SAC members**

The action points those are suggested and proposed by all the members of the SAC during the course of presentation is summarized and presented below.

1. Large-scale demonstrations on sesame cultivation should be undertaken, particularly in wild animal-prone areas, as a climate-resilient and less vulnerable crop option.
2. Improved varieties developed by IIHR should be popularized through frontline demonstrations and seed dissemination programmes.
3. Strawberry cultivation may be promoted both at KVK farms and in selected farmers' fields to enhance income through high-value horticulture.
4. Value-added products from ragi and vegetables should be developed and branded by SHGs with technical support and capacity building from KVK.

5. Farmer Producer Organizations (FPOs) should be strengthened through market linkage, collective marketing, and livelihood-oriented interventions to ensure long-term sustainability.
6. Marigold variety *Bidhan* may be popularized in farmers' fields through demonstrations and training programmes.
7. Demonstration units on dragon fruit and guava orchard cultivation should be established at KVK to showcase improved production technologies.
8. Integrated Farming System (IFS) models should be promoted on a larger scale in farmers' fields to enhance farm income, resource use efficiency, and resilience.
9. Awareness programmes on nutri-gardens should be intensified to ensure household-level nutritional security.
10. Pond productivity improvement through adoption of intensive fish production technologies should be encouraged among farmers.
11. Indigenous livestock breeds such as Ganjam Goat, Ganjam Sheep, and Ghumusuri cattle should be promoted for conservation, genetic improvement, and sustainable livelihood support.

The meeting ended at 2.30 PM with vote of thanks by Mrs. Anita Patro, Scientist (Home Science).

  
**Senior Scientist & Head  
KVK, Ganjam-1**

**Dean Extension Education  
OUAT, Bhubaneswar**

**SENIOR SCIENTIST & HEAD  
KVK, GANJAM-I, BHANJANAGAR**

MEMBERS PRESENT ON 33<sup>RD</sup> SAC MEETING OF KVK, GANJAM-1

Sl. No.	Dignitaries	Designation
1	Prof. Prasannajit Mishra, Dean Extension Education	Chairman
2	Dr. P. P. Pal, Principal Scientist, ICAR-ATARI	Member
3	Dr. Prasanta Kumar Mohanty JDE (UEBP), Directorate of Extension Education, OUAT, Bhubaneswar	Member
4	Dr. Gobinda Ch. Acharya Principal Scientist and Head, IIHR, CHES, Bhubaneswar	Member
5	Dr. Gyanlok Das ADR, RRTTS, G.Udayagiri	Member
6	Dr. Kandha Jena DDH, Ganjam	Member
7	Sri Rabi Narayana Panda CDAO, Ganjam	Member
8	Dr. P.K. Panda Scientist(Agri) CPR, Berhampur	Member
9	Smt. Milima Kumari Panda CDPO, Bhanjanagar	Member
10	Dr.Nishikanta Bala BVO, Bhanjanagar (Representative of CDVO)	Member
11	Ms. Sanskruti Padra AFO, Buguda (Representative of DFO)	Member
12	Mrs. Laxmi Nayak, Woman Farmer	Member
13	Mrs. Banita Bisoyi, Women Farmer	Member
14	Sri Muna Pradhan, Farmer	Member
15	Sri Pradeep Swain, farmer	Member
16	Dr. Pramod Kumar Mohapatra ADO, Aska	Invitee
17	Mr. Bymokesh Mishra ADO, Bhanjanagar	Invitee
18	Dr.Narayan Bar Senior Scientist and Head, KVK, Kandhamal	Invitee
19	Dr. Sujit Kumar Nath Senior Scientist and Head, KVK, Ganjam-II	Invitee
20	Sri Asit Chand Sahu Coordinator, B.MASS NGO, Bhanjanagar	Invitee
21	Mrs.Pankajini Bhadra SWATI NGO, Jagannath Prasad	Invitee
22	Mrs. Anita Patro, Scientist (Home Sc.)	Invitee
23	Dr. Santosh Kumar Samantray, scientist (Ag. Extension)	Invitee
24	Dr. Sidharth Ranabijuli, Scientist (Animal Sc.)	Invitee
25	Sri, Mudada Dibyanath PA (Fishery)	Invitee

<b>Sl. No.</b>	<b>Dignitaries</b>	<b>Designation</b>
26	Mrs. Sushree Sibanee Sardar, Farm Manager	Invitee
27	Dr. Sutanu Kumar Satapathy Sr. Scientist and Head, KVK, Ganjam-I	Member Secretary

*KS*  
*21/01/2026*

**Senior Scientist and Head-cum-Member Secretary  
KVK, Ganjam-I**

**SENIOR SCIENTIST & HEAD  
KVK, GANJAM-I, BHANJANAGAR**