

PROCEEDINGS OF THE 33rd SCIENTIFIC ADVISORY COMMITTEE MEETING

KRISHI VIGYAN KENDRA, GANJAM-I

The 33rd Scientific Advisory Committee (SAC) Meeting of KVK, Ganjam-I for the period 2024-25 was held on dt. 12.11.2024 in the KVK campus both in physical and hybrid mode under the Chairmanship of Prof. Prasannajit Mishra, Dean Extension Education & in presence of Dr. Prasanta Kumar Mohanty, JDE, Directorate of Extension Education OUAT, Bhubaneswar. 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 is attached in Annexure-1). The meeting was started with welcome address by Dr. Sutanu Kumar Satapathy, Sr. Scientist & Head. The Chairman, after brief introductory remarks invited Sr. Scientist & Head to start the proceedings as per the agenda.

Agenda-1: Approval of the proceedings of last SAC meeting

The proceeding of the last SAC meeting was presented by Senior Scientist and Head, KVK, Ganjam-I. As there was no modifications & objections reported by any members, the Chairman took the consent of all members and approved the proceedings.

Agenda-2: Action taken on the recommendation of last SAC

The Sr. Scientist & Head presented the following action taken report on the recommendations of last SAC meeting held on dt. 06.01.2024.

Sl. No.	Salient Recommendation	Action Taken
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 & Kalinga (Brown seeded) has been grown in KVK campus in collaboration with ICRISAT. Oil content & 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 & INM practices have been demonstrated in KVK farm under MIDH for farmers awareness on different crops (Guava, Banana, Pineapple, Papaya, Sapota, Ber, Mango)
3	FPO 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 & 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 th of this month.
4	Management of Fruit drops in mango should be demonstrated.	One training programme will be conducted involving 25 farmers on fruit drop management of Mango. Front Line Demonstration on Anthracnose will be conducted in 2.0 ha area involving 10 nos. of 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 & leaching out to line departments for further support

Sl. No.	Salient Recommendation	Action Taken
6	Vegetable planter may be tested to reduce drudgery	Regarding vegetable planter scheduled demonstration to take place after harvesting of Rice. This timing allow farmers to seamlessly interrater the new planting technique , enhancing efficiency in the upcoming vegetable season.
7	For increasing income Floriculture i.e. Tube rose & Marigold should be promoted.	FLD has been conducted on Tube rose & Marigold involving 20 farmers of villages viz. Dihapadhala, Golapada, Agalapada, Buguda, Ambapua
8	Training on Value addition of fruits & vegetables may be conducted.	Three nos. of training has been conducted in different FIG group in villages viz.Kulada, 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, chadeyapalli
10	Duck breed should be promoted in IFS pond based system for better sustainability.	OFT on Khaki campbell & Desi X Khaki Campbell breed will be tested involving 10 nos farmers. Two trainings on Duck farming & IFS will be conducted involving 50 farmers.
11	Popularization of OUAT poultry breed- Kalinga Pallishree	Total 670 nos. of chicks provided to 20 nos. of farmers in village Ekagharia, Balakiari, Udhura, Pantikhari, Jhadabhumi, Gayaganda, Muzagada
12	Awareness on Mastitis & mammary edema	Four trainings are conducted involving 100 farmers of vilages namely Khetamundali, Tirigochha, Gramadebati, Shisundha, Dubapalli, Patangi, Mangalpur, Rudhapadara, Ghogada, Naragadu, Khajuripalli, Dasha sahi on scientific dairy farming and health management

Agenda-3: Achievements made by KVK

The Senior Scientist & Head presented OFTs, FLDs, Trainings & other extension activities during the period Rabi, 2023-24, Kharif, 2024 & ongoing programme of Rabi, 2024-25.

- a) **OFT-** KVK has completed 10 nos. of OFT involving 70 numbers & 9 numbers OFTs in continuing stage involving 63 nos of farmers & farm women.

Sl. No.	Title of the OFTs	Significant Achievements
1	Assessment of managemet practices against YMV disease in Greengram	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/lit. at 30 DAS and spraying of Diafenthuron 50 WP @ 1 gm /lit. at 45 DAS resulted in 74 % reduction in YMV incidence & 46 % (7.6q/ha) more yield as compared to farmers practice(Thiamethoxam@ 150gram/ha.)
2	Assessment of different growing	Mix sterilized cocopeat @ 300 kg with 5 kg neem cake along with

	media for raising vegetable seedlings	Azospirillum and Phosphobacteria each @ 1 kg. Sow the treated seed in protrays. Drench with 19:19:19 @ 0.5% (5g/l) at 18 days after sowing have shown that 33% more germination, 63% less seedling mortality with net incremental income of Rs. 2195.
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 Rs. 616 per quintal (Rs. 2860/- per quintal) 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 formulations on growth of chicks in semi-intensive system of rearing	Provisioning feed with ground maize 30%, GNOC 23%, Fish meal 10%, wheat bran 15%, Broken rice 20%, Vitamins & mineral mix 2% increased the survivability by 42% and body wt gain of chicks by 40%
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 & 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 & 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 % (287q/ha) with net incremental income of Rs. 154820/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 Rs. 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) FLD-KVK** has completed 14 FLDs involving 140 & 16 numbers FLDs in continuing stage involving 160 farmers & farm women under different crops & enterprises.

Sl.No	Title of the FLDs	Significant achievements
1	Demonstration on Integrated Nutrient management in Sesame	STBFR + Bio-inoculation of Azotobacter + Azospirillum + PSB @2.5kg/ha each produced 12.5% (7.2q/ha) more yield as compared to application of N-P2O5-K2O @ 50:25:25kg/ha

Sl.No	Title of the FLDs	Significant achievements
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 & 09% (264q/ha) more yield as compared to farmers practice(Spraying of Carbandazim @ 1kg/ha)
3	Demonstration on INM practices in Bittergourd	STBF+vermicompost(2.5ton/ha)+Azotobactor:Azospirillum:PSB@1:1:1 @ 4 kg/ha resulted in 19% (147q/ha) more yield with net incremental income of Rs. 42600/- per 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 Rs.50800 per 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 Rs.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 & 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 & net incremental income of Rs.7200 per 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 maize hybrids for rainfed upland	Cultivation of Maize hybrid Kalinga Raj (OMH 14-27) produced 11% (48.2q/ha) more yield with net incremental income of Rs.9680 per 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 Rs.45 per bed
12	Demonstration on perennial fodder production and feeding in dairy farming	Fodder (CO4, Guinea, Para) cultivation and feeding@ 10% of Body wt. produced 0.52 Lt. more(6.54 Lt./day) milk yield (in 90 days) with net incremental income of Rs. 6165 per 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(9.35lt/day) ,61% more fat & net incremental income of Rs.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 (3months of age) with mineral mixture @ 10g/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 month) more body wt. gain with net incremental income of Rs. 394/goat.

c) Training- KVK has conducted 39 training programmes for practicing farmers & farm women, 6 trainings for Rural youth and 3 nos. 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 campaign, 13 special days. Apart from these KVK prepared 3 technology videos, 2 extension literatures, 10 nos. of different activities cover by news papers and a total of 9154 no. of farmers got benefited.

Agenda-4 Action plan for 2025-26

DETAILS OF ACTIVITY	TARGET
OFT	8
FLD other than Oilseed Pulse	23
FLD Oilseed Pulse	01 nos (Sesame)
Training	(60 FW, 8 RY, 4 Ex.)
Ext. Activities	1040
Newsletter	4
Soil Sample	350
KMAS	80

Agenda-5 Recommendation

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.

- ❖ Demonstration on Sesame should be propagated in the larger area & specifically in wild animal prone area.
- ❖ Fruit Orchard should be developed in the farmers' field with scientific management practices.
- ❖ IIHR varieties may be popularized & data generated should be provided to CHES for validation.
- ❖ Straw berry cultivation may be promoted in KVK & farmers field.
- ❖ Value added products of Ragi & vegetables may be branded by SHG with technical guidance of KVK.
- ❖ FPO should be strengthened for better sustainability through market linkage & livelihood promotion.
- ❖ Study may be done on vegetable planter performance.
- ❖ Summer Marigold variety may be evaluated in farmers' field.
- ❖ Black pepper & Crossandra may be included in FLD programme.
- ❖ Capacity building on Dragon fruit & Apple ber cultivation may be conducted by KVK.
- ❖ IFS farming model may be promoted in larger scale in the farmers' field.
- ❖ More awareness on Nutri-garden for the nutritional security of a family.
- ❖ Pond production improvement & intensive production technology may be adopted.
- ❖ Ganjam Goat, Ghumusuri cattle breed may be promoted for conservation.

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

Sd/-
Senior Scientist & Head
KVK, Ganjam-I

Dean Extension Education
OUAT, Bhubaneswar

List of 33rd SAC Members

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 & 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 & Head, KVK, Kandhamal	Invitee
19	Dr. Sujit Kumar Nath Senior Scientist & 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
26	Mrs. Sushree Sibanee Sardar, Farm Manager	Invitee
27	Dr. Sutanu Kumar Satapathy Sr. Scientist & Head, KVK, Ganjam-I	Member Secretary

Sd/-

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

