

PROCEEDINGS OF 25TH SCIENTIFIC ADVISORY COMMITTEE MEETING OF KVK, KALAHANDI HELD ON 28TH NOVEMBER 2024

The 25th Scientific advisory committee meeting of KVK, Kalahandi was held on 28.11.2024 in the Training hall of KVK, Kalahandi under the chairmanship of Dr. P. K. Mohanty, Joint Director, DEE, OUAT, Bhubaneswar. Among the other delegates Dr. K. S. Das, Principal Scientist, ICAR-ATARI, Kolkata and Dr. Amit Phonglosa DDE (Soil Science), OUAT, Bhubaneswar was present at meeting. Prof P.J. Mishra, Dean, Directorate of Extension Education, OUAT, Bhubaneswar joined the meeting on Virtual mode. The list of members attended the meeting is attached (Annexure-I).

The meeting started with a warm welcome address by Sri B.K.Jena, Scientist (Plant Science) KVK, Kalahandi followed by a formal inauguration and watering holy plant by the dignitaries present in the meeting. The Dean, Directorate of Extension Education briefed the purpose and objective of the SAC meeting. Later the Chairman of this august house delivered the introductory remarks.

AGENDA-1: Approval of the proceedings of the last SAC meeting.

The Senior Scientist & Head presented the proceedings of the last SAC meeting in the house which was held on 13.02.2024 and also highlighted on the activities undertaken based on the recommendations.

The Senior Scientist & Head presented the following actions taken on the recommendation of the 24th SAC meeting.

Sl. No.	Recommendation	Actions taken
1.	Popularization of mechanized DSR in the district	➤ Demonstration of DSR in 5 villages of Bhawanipatna and Narla blocks of the district for rice variety Chandragiri and Mahendragiri in 20 ha.(Village-Sankhairmal, Bhangabari, Indramal, Khairbadi and Bagpur) ➤ DSR in variety Chandragiri under RF in KVK during Kharif 2024. ➤ Popularization of DSR through NICRA in two villages, Bagpur and Khairbadi of Narla block area 20 ha. ➤ 143 farmers of 8 villages adopted DSR in Bhawanipatna and Kesinga (village-Boria, Nagupalla, Sankhairmal, Paralsingha, Chancher, etc.) ➤ Imparted training 30 farmers and farm women (M-22, F-8) in collaboration with IRRI village Sankhairmal on dt.05.07.2024 ➤ Collaborative programme with Bayer India.
2.	Focus on intercropping in mango orchard	➤ Two demonstrations on Pineapple as intercrop in mango orchards in Rengali, and Dahal villages of Kesinga and Narla blocks with 13 beneficiaries and 0.4 ha area during Kharif 2024-25. ➤ Demonstration on blackpepper in mango orchard under SCSP programme 2024-25 in village Ghatpada, Chhatrapur, Batelima, Mandiarucha of Lanjigarh blocks and Kendugupka village of bhawanipatna block of area 0.4 ha with 13 beneficiaries.

Sl. No.	Recommendation	Actions taken
		➤ One training programme on “Intercropping in Mango Orchard” involving 30 farmers and farm women (M-21, F-9) in Bhawanipatna block on dt.26.09.2024.
3.	Technology intervention on millets	➤ Demonstration on IWM in ragi in rainfed upland in 13, Bhawanipatna block with pre-emergence application of Oxyflurofen @ 37.5 g a.i./ha + one hand weeding at 45 DAT. ➤ Demonstration of ragi variety Shreeratna of OUAT, Bhubaneswar to 10 farmers at Gudang village under NICRA project of the KVK, 2024-25. ➤ 30 farmers and farmwomen (M-19, F-11) trained in Rengali village of Kesinga about improved production technology of ragi on dt.01.08.2024. ➤ Convergence with Millet Mission for cultivation of ragi in 43 farmers’ field (15 ha) in Bhawanipatna and Kesinga.
4.	Processing and value added product of millets	➤ One vocational training on Value added products in Agricultural crops under 100 days programme of ICAR covering 30 participants for 5 days (dt.23.09.2024 to dt.27.09.2024) involving preparation of Millet cookies, Millet-Mushroom cookies, Khir, Laddu. ➤ One sponsored training programme on primary processing, value addition and packaging of Ragi at KVK involving 30 farm women of Mission Shakti, GoO. ➤ One F and FW training at village Pokhara block Th Rampur 26.12.23 covering 30 participants on value addition in Ragi involving RTS products as Pakoda, Roti, Mandia Chalha etc.
5.	Popularization of moisture conservation technology	➤ Poly mulching in vegetable crops in 10 farmers’ field in tomato under NICRA project in 1.5 ha area. ➤ Seed treatment of pigeonpea using salicylic acid in 2.0 ha. At Khairbadi and Indramal village during Kharif season, 2024-25 under NICRA Project. ➤ Anti-transpirant application in vegetables to reduce moisture loss will be conducted in Rabi 2024-25 under NICRA Project. ➤ One training to 30 farmers and farm women (M-21, F-9) for soil moisture conservation in horticultural crops in Bagpur village under SCSP of NICRA Project on dt.20.07.2024. Popularization of Trench Bunding, raising bund height were also promoted. ➤ Seed production of Dhaincha by KVK in 2.5 ha. ➤ Green manuring of Sunhemp in 2 ha in Indramal and Khairbhadi village under NICRA Project.
6.	Need for area expansion of Kharif onion	➤ Training cum method demonstration on nursery management in the village Nuapada, Borda and Bargaon of Bhawanipatna block on dt.28.05.2024 ➤ With collaboration of horticulture department, one field visit conducted in onion growing areas of village Sinapali, Gandamer and Golmunda on dt.07.06.2024 ➤ Two off campus Training programmes on Nursery management practices and weed management practices of

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		onion involving 60 farmers and farm women (M-43, F-17) in Village Tentulipada and Indramal on dt.20.07.2023 and 18.08.2023.
7.	Promotion of spices crops in the district	➤ 13 progressive farmers for demonstration on blackpepper in mango orchard in village Ghatpada, Chhatrapur, Batelima, Mandiarucha of Lanjigarh blocks under SCSP Programme of KVK, Kalahandi. ➤ One OFT on Assessment of dual purpose coriander cultivars covering 07 beneficiaries' area 0.52 ha of adopted villages Rengali, Bindhaniguda and Kendugupka. ➤ One farmer & farm women (M-26, F-4) training programme was conducted covering 30 beneficiaries on dt.11.07.2024 ➤ One black pepper nursery verification programme was conducted at Paralsinga Village of Kesinga Block in convergence with Horticulture Dept. ➤ During 2024-25, 50 ha area was planted with Black Pepper as an intercrop in mango orchard in convergence with Horticulture Dept.
8.	Management practices of Important Pest and Diseases	➤ 2 acres paddy field in Amatha village of Kesinga block was infested by Bacterial leaf blight (BLB) found under diagnostic field visit on dt.22.08.2024 ➤ Amguda and Chichia village of Golamunda block was identified to be infested with Yellowing of leaves (2 ha area), Blast, Brown spot and sheath blight (2 acres) under paddy fields on dt.30.08.2024 ➤ Two diagnostic field visit on BPH survey was conducted at Behera village of Dharmagarh block and Salebhata village of Bhawanipatna Block. ➤ Conducted 2 awareness campaign in village Indramal and Narla covering 100 beneficiaries and 1030 pest and disease sample collection and 58 diagnostic field visit under Plant health clinic project (MIDH) for the year 2023-24
9.	Promotion of Azolla cultivation in farmer's field.	➤ Azolla unit established in KVK campus. ➤ In Nagupala village 30 Farmers and Farm women were trained on production and use of Azolla. ➤ Two hundred thirty farmers were supplied with Azolla free of cost from KVK for production and use. ➤ Awareness creation to 200 farmers for use of Azolla as livestock feed and biofertilizer has been popularized. ➤ One hundred eighteen farmers are provided with Azolla in convergence with Dept.

Sl. No.	Recommendation	Actions taken
10.	Need based training programme on value addition in Mango (Amba soda) to different SHG groups.	➤ One training programme conducted involving 30 farmers of Village Melghara of Block Th. Rampur involving 30 farmer women of 3 WSHGs. ➤ One method demonstration on Mango Leather preparation was conducted in village Dumerguda of M. Rampur Block covering 30 farmers of 5 WSHGs.
11.	Water use efficiency and resource conservation techniques should be disseminated to the farmers.	➤ Renovation of farm pond in Khairbadi village under NICRA Project for surface water conservation. ➤ Digging of trench in 2ha cashew fields in Indramal in convergence with MNREGA ➤ Cultivation of <i>Dhaincha</i> and sunhemp improve soil nitrogen and organic content in 5ha area in Indramal and Kharbadi. ➤ Cultivation of Hybrid Napier in 1.0 ha area to increase fodder for livestock. ➤ Training to 120 farmers and farm women in Indramal, Khairbhadi, Punjam and Kendugupka on water management and resource conservation for sustainable agriculture on 20.07.2024, 5.11.2024 and 14.11.2024. ➤ Establishment of Natural farming unit to conserve soil micro flora and fauna and develop a healthy environment.

The Chairman taking the consent of the members approved the proceedings.

AGENDA-2: Achievement made during Rabi 2023-24 and Kharif 2024.

The Senior Scientist & Head presented the overall achievements made by the KVK during the period from January 2023-December 2024 which was properly discussed by the house.

On farm testing: During the period, 08 OFTs were taken in different discipline and the result has been found satisfactory.

- Assessment of weed management practices in cotton (FP-HW at 30 DAS, TO1- Application of pyriithabac sodium 6% + Quizalofop ethyl 4% @ 500 ml/ha at 20 DAS as post emergence spray TO2- Pre emergence application of pendimethalin @ 300 ml/ha and post emergence application of Quizalofop ethyl @ 1000 ml/ha at 20 DAS) The result showed that WCE (%) for TO2 is 76% and get higher yield 16.1 q/ha
- Assessment of herbicides for weed management in transplanted rice (FP-HW at 30 DAS, TO1: Application of Cyhalofop butyl + Penoxsulam @ 135g/ha at 20DAT, TO2: Pre-emergence application of Pretilachlor @ 500 g/ha fb post emergence application of Chlorimuron ethyl + Metsulfuron methyl @ 4 g/ha at 20 DAT) The result showed that WCE (%) for TO1 is 81% and get higher yield 47.8 q/ha
- Assessment of dual purpose coriander cultivars in Kharif(FP- Coriander var. AK-47, TO1: coriander var. Arka Isha Line sowing of treated coriander seeds with Bavistin @ 1gm/100gm with average spacing of 5-10 cm plant to plant & 30 cm from row to row, TO2: coriander var.. Sadhana line sowing of treated coriander seeds with Bavistin @ 1gm/100gm with average spacing of 5-10 cm plant to plant & 30 cm from row to row) Farmer get 84.8 q yield with 4 green leaf cutting in 90 days.

- Assessment of the effect on foliar application of micronutrient on growth and yield of bitter gourd (FP: Use of NPK (120:60:60) as basal application without any micronutrient, TO₁: Foliar application of mixture of micronutrients involving Zn, Mo, Cu, Fe and Mn (50 ppm of Mo and 100 ppm each), TO₂: Combined application of micronutrients B and Zn @ 100 ppm each) Farmer get 24.2% higher yield in combine application of micronutrients B and Zn @100 ppm each.
- Assessment of management practices for control of foliar disease in ground nut (Farmers practice: Spraying of Metalaxyl 8% + Mancozeb 64% @ 2-3 gm/litre water after disease appearance. TO₁: Seed treatment with Tebuconazole @ 1.5 g/kg followed by furrow application of T. viride @ 4 kg enriched in 50 kg FYM/ha as basal application, then broadcasting of T. viride @ 4 kg enriched in 250 kg FYM/ha at 40 DAS & 2 sprays of Tebuconazole @ 1 ml/L. Starting from initiation of foliar diseases and 2nd spray at 15 days intervals. TO₂: Seed treatment with Tebuconazole 2DS @1.5 g/kg seeds + spraying Tebuconazole 50% + Trifloxystrobin 25% WG @1.32 g/L at 40 and 65 DAS)
- Assessment of the performance of FPOs with varied levels of task and commodity to enhance income (Farmers practice: Farmers marketing their produce through intermediaries, Kalampur) TO₁: FPO dealing with Multi commodity with single-task (Banana Production-Marketing) TO₂: FPO dealing with multi-commodity with multi-task (KPPCL, Pigeon pea, Green gram, Blackgram Production-sorting, grading, packaging-marketing) FPO dealing with multi commodity with multi task performed better TO₂>TO₁>FP

Frontline Demonstrations and Cluster Frontline demonstration: All total 16 frontline demonstrations have been conducted and cluster frontline demonstration on pulses covering 40 ha area.

- Demonstration of green manuring of cow pea in niger: Green manuring of cow pea (sowing in 1st week of June, ploughed down in Aug 1st week) sowing of Niger in 2nd week of Aug. The research practices get higher yield 6.43 q/ha over farmer practices- 52.7 q/ha
- Demonstration on IWM in ragi in rainfed upland: Pre emergence application of oxyflurofen @ 37.5 g a.i./ha + one hand weeding at 45 DAT. No. of weeds/m² of RP-7 and yield- 13.1 q/ha
- Demonstration of high yielding watermelon variety Arka Akash: High yielding F1 hybrid, dark green with light green broken specks slightly deep foliage, oblong fruit red flesh with TSS 12-13° brix, average fruit weight 6.5 kg with fruit/vine duration- 90-95 days. Fruit yield 65-to 70 t/ha red flesh, juicy and very good taste. Good keeping and transportation quality. The result showed that RP-228 q/ha yield as compare to farmer practices 213 q/ha
- Demonstration on Dragon fruit cultivation: Cultivation of Dragon fruit in upland four plants in each pole with RDF + FYM. Single pole system planting is done at 3 m x 3 m distance. Vertical height of pole 1.5 to 2 m at which point they are allowed to branch and hang down. The research practices get higher yield 102 q/ha over farmer practices 89 q/ha
- Demonstration of usefulness of crop calendar (Cotton) for improving the technical knowledge of farmers and application of technology: Providing crop calendar with

multi-colour pictorial, concise and season specific message, very informative and particular information regarding specific technology for improving the technical knowhow of farmers and application of technology. Need & time based information FP-35.66% RP-87.66%, Applicability of the calendar FP-33.7 RP-84, Timely availability FP-45.5, RP-92.3, Reading frequency FP- 24.36, RP-91, and knowledge gain FP-39, RP-90.5

- Demonstration on preparation of value added products from tamarind: Preparation of value added products from tamarind such as sauce. No drudgery, RTS, better taste, Substitute to tomato sauce during high price, more profit than raw sale. Keeping Quality FP- 8 month RP- 3 month, Sensory Evaluation FP-6.5 RP-8.5
- Demonstration on preparation of Value-added products from Mahua flower: Preparation of Mahua Ladoo. Keeping Quality FP- 4 month RP- 2 month, Sensory Evaluation FP-5.5 RP-8.75 Farmers prefers RTS, Better taste, any stakeholder can eat, Substitute to kismis, more profit than raw sale.
- Under revolving fund 10 ha of paddy seed production was conducted. A total of 121800 nos vegetable seedlings, 42.3 q vermicompost and 0.09 q of Bio-agent (*Eisenia Foetida*), 3839 mushroom spawn bottles and 1.05 q of mushroom, 400 Table Egg and 3311 poultry chicks were produced.

AGENDA-3: Action plan for 2025-26

The Senior Scientist & Head presented the detailed action plan developed by the KVK for the year 2025-26 which includes 70 trainings for farmers and farm women, 9 trainings for rural youth, 10 in-service personnel trainings, 22 FLDs, 11 OFTs for the above mentioned period.

AGENDA-4: Interaction among the members of SAC (Open house discussion)

Interactions were made among the members and following action points were indicated as below:

- Increase farmer registration under KISAN SARATHI with a monthly target
- Under soil science discipline, inclusion of treatments based on natural farming in OFT programme
- Promotion of natural farming through training
- Well popularized technologies should be discontinued as OFT under social science discipline
- Evaluation of impact of adopted technologies by KVKs of last 10 years through new OFTs under social science
- Focus on micronutrient deficiency in soils of banana growing areas.
- Conduct awareness programme on important uses of secondary and micronutrients under horticultural crops for improved quality and palatability.
- Need based training programme on mushroom spawn production
- Promotion of value added product of millets and establishment of one baking unit in KVK campus
- Focus on soil moisture conservation practices demonstration viz., trenching under non arable lands

- Promotion of JEEVA initiative in Kalahandi through convergence between NABARD and KVK
- Promote soil testing to understand suitability of crops
- Sensitize farmers towards backyard poultry through supply of advanced breed
- Management practices of Important Pest and Diseases
- Focus on crop diversification and more emphasis on forgotten food crops
- Need based training programme on vermicompost production
- Popularization of rice cum fish farming
- Popularization of farm mechanization
- Convergence with line departments to monitor KVK activities in adopted villages
- To take advantage of advanced laboratory in College of Agriculture, Bhawanipatna
- Uploading data, reports, publications and overall activities in KVK Portal

AGENDA-V: Salient recommendations of the SAC members

The Chairman appreciated the suggestions of the members and requested for their cooperation for better functioning of KVK. The following action points were suggested

1. Need-based training programme on vermicompost production
2. Promotion of natural farming
3. Focus on soil moisture conservation practices under non arable lands
4. Popularizing backyard poultry
5. Focus on micronutrient deficiency in soils of banana growing areas
6. Management practices of important pest and diseases
7. Popularization of farm mechanization
8. Convergence with line departments to monitor KVK activities in adopted villages
9. Statistical data included in OFT programs and recommended only if significant difference is found
10. Need based training programme on mushroom spawn production
11. Strengthening publication and documentation of KVK activities
12. Evaluation of impact study of adopted technologies by KVKs of last 10 years

The meeting ended at 3.00 pm with a vote of thanks by Scientist (Plant Science), KVK, Kalahandi.


Sr. Scientist & Head
KVK, Kalahandi

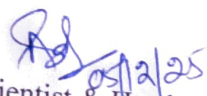
Approved


Dean Extension Education
OUAT, Bhubaneswar

Annexure-I**Participants List of 25th Scientific Advisory Committee Meeting
Krishi Vigyan Kendra, Kalahandi**

Sl. No.	Name of the Participants	Designation
1	Dr. K.S. Das	Principal Scientist, ICAR-ATARI, Kolkata
2	Dr. P. K. Mohanty	Joint Director, DDE, OUAT, Bhubaneswar
3	Dr. Amit Phonglosa	DDE(Soil Science), OUAT, Bhubaneswar
4	Dr. B. S. Nayak	ADR, RRTTS, Bhawanipatna
5	Dr. S. K.Tripathy	Dean, College of Agriculture, Bhawanipatna
6	Pravakar Nayak	PD W/S Kalahandi
7	Malay Kumar Parida	CDAO, Kalahandi
8	Dr.Saswat Kumar Kar	Scientist, ICAR-IISWC,RC, Koraput
9	M.Das	DDM, NABARD
10	Draupadi Majhi	District Fisheries Officer, Kalahandi
11	Dr. Madhusudan Das	CDVO, Kalahandi
12	Dr.Amitabh Panda	Sr. Scientist & Head, KVK, kalahandi
13	George M. Kerketta	Dy. CEO, ORMAS, Kalahandi
14	Dr. C.K. Behera	DPM, OLM
15	Sangeeta Minz	Asst. Director Sericulture, Kalahandi
16	Puja Mahaling	SPMO,OSSC, Kalahandi
17	DharmurajSunani	LDM, Kalahandi
18	Dr. Kedarnath Khamari	DTC, CDVO, Kalahandi
19	Premraj Nial	District Project Manager(M.I. division Kalahandi)
20	Haladhar Nial	DI & PRO, Kalahandi
21	Dr.Bijay Kumar Baidya	SMS (Horticulture) KVK, Nuapada
22	TribijayiBadjena	Scientist (Agriculture extension)
23	Tulasi Majhi	Scientist (Horticulture), KVK, Kalahandi
24	B.K.Jena	Scientist(Plant Science) KVK, Kalahandi
25	Dr. Shradha Mohanty	SMS (Soil Science) KVK, Kalahandi
26	Dr. Jagamohan Meher	SMS (Agriculture Engineer) KVK, Kalahandi
27	Subhashri Sahu	Programme Assistant (Home Science)
28	Sarat Chandra Mund	MD, TFPCL, Kalampur
29	Mujibun Nisha	DSWO, Kalahandi
30	Gopabandhu Sahu	Farmer
31	Ramesh Kumar Singh	Farmer
32	Bhumisuta Majhi	Farmer
33	Gouranga Sahu	Farmer
34	Puspa Shukla	Millet Shakti outlet Member

35	Banita Naik	BLF Member
36	Archana Naik	BLF Member
37	Swaraj Mehera	SRF, NICRA Project
38	Biswaranjan Barik	PHC, Assistant
39	Tusar Raja Panda	BPC, Shree Anne Abhya, DAPTA
40	Mihir Kumar Bhoi	AIR, Bhawanipatna
41	Pinaki Prasad Dash	DDK, Bhawanipatna
42	Jogendra Pradhan	A/O, DIC, Kalahandi


 Sr. Scientist & Head
 KVK, Kalahandi