

PROCEEDINGS OF 18th SCIENTIFIC ADVISORY COMMITTEE MEETING
KVK, RAYAGADA

The 18th Scientific Advisory Committee Meeting of KVK, Rayagada was held on Dt.01.02.2023 at 10.30 AM in the KVK premises under the Chairmanship of Prof. A. K. Senapati, HOD (Plant Pathology) OUAT. Prof. A. Khuntia, JDE, Directorate of Extension Education, OUAT, Bhubaneswar attended the meeting and Dr. K. S. Das, Principal Scientist, ICAR- ATARI, Kolkata attended the meeting virtually. The members present in the meeting were annexed herewith. Mr. Rajib Tudu, Senior Scientist and Head, KVK Rayagada made a brief introduction and Smt. Swarnasrika Behera, Farm Manager welcomed the dignitaries & members followed by inauguration of the meeting by lighting the holy lamp.

After a brief introductory remark about mandates of KVK and importance of SAC meeting, the Chairman requested the Senior Scientist and Head to start the proceedings as per agenda.

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

The Senior Scientist and Head stated that the proceedings of last SAC meeting were communicated to all the SAC members. He also presented the proceedings in brief. The Chairman taking the consent of the members approved the proceedings.

Agenda-2: Action taken on the proceedings of last SAC meeting

Sl. No.	Recommendation of last year SAC meeting	Action Taken
1.	Popularization of suitable drought tolerant rice varieties through demonstrations.	Suitable drought tolerant short duration rice var. CR Dhan 102 has been taken under FLD programme during <i>Kharif</i> 2022 with 10 no. of beneficiaries in village Pradhaniguda, Rupapadar, Nuagaon&Jaltar in 2.0 ha. area.
2.	Conversion of the best technology assessed under OFT for management of sheath blight disease in rice to FLD.	During <i>Kharif</i> 2022, sheath blight management in rice has been taken under FLD in village Kalma, Panasaguda, Pradhaniguda and Gugurupanga in 2.0 ha. area with 10 no. of beneficiaries.
3.	Popularization of improved backyard breed like Kalinga brown, Pallishree and Kadaknath	600 nos. of RIR and Vezaguda poultry breed have been distributed to the beneficiaries for popularization in village Rupapadar, Srirampur, and Pradhaniguda to 10 no. of beneficiaries.
4.	To conduct more nos. of training on mushroom and flower cultivation for entrepreneurship development of F/FW and also suggestions were given for conducting OFT on weed management in onion.	<ul style="list-style-type: none">• Seven nos. of training on mushroom and flower cultivation have been imparted to the F/FW and RY involving 175 no. of participants.• The OFT on weed management is being carried out during this rabi season in village Gugurpang, Chinasari and Pradhaniguda in 1.0 ha. area with 7 no. of beneficiaries.



5.	To conduct training on bund plantation with fruits and vegetable crops in IFS unit.	Two nos. of training on IFS and bund planting with fruits and vegetables were undertaken involving 50 nos. of participant.
6.	For dairy farming, trainings should be given on fodder cultivation at village level.	Two nos. of training on fodder cultivation and rearing of backyard poultry imparted to the F/FW and SHG members at village Turkaniguda and Pagadabili involving 50 no. of participants.
7.	To conduct FLD and training on fall armyworm management in maize and pod borer management in pigeon pea.	<ul style="list-style-type: none"> • FLD on fall armyworm management in maize has been carried out in village Bagsala, Pradhaniguda & Gugurupanga in 2.0 ha. area with 10 no. of beneficiaries. • FLD on pod borer management in pigeon pea has been conducted during Kharif 2022 in village Kalma, Armada and Gulumunda in 2.0 ha. area with 10 no. of beneficiaries.
8.	Development of nutritional garden for farm families for nutritional security and to conduct trainings on different vegetables & flowers cultivation.	<ul style="list-style-type: none"> • FLD has been conducted on development of nutritional garden in village Pradhniguda and Rupapadar in 2.0 ha. area involving 10 no. of beneficiaries. • Two nos. of training programmes were conducted on high value vegetables and flower cultivation with 50 nos. participants.
9.	Assessment and popularization of wet land power weeder in paddy.	<ul style="list-style-type: none"> • OFT on wet land power weeder in paddy has been conducted during <i>Kharif</i> 2022 for popularization in village Pradhaniguda, Labaguda and Rupapadar in 1.4 ha. area with 7 no. of beneficiaries. • Two nos. of training programme has been conducted involving 50 nos. of participants.
10.	Focus should be given on imparting training on scientific beekeeping and value addition of different fruits and vegetables.	<ul style="list-style-type: none"> • One 07 days residential Skill Training for Rural youth on Scientific Beekeeping has been imparted to 15 nos. of participant at KVK campus. • Training also imparted on value addition of tomato and mushroom to the farm women and SHGs members.
11.	Assessment and popularization suitable varieties of rice for rainfed medium land.	OFT on rice varieties Kalinga Dhan 1203 & 1205 has been conducted during <i>Kharif</i> 2022 in village Bagsala, Srirampur & Titimiri in 1.4 ha area with the participation of 7 no. of beneficiaries.
12.	Providing technical support to the farming community regarding pisciculture and IFS	Awareness has been created through different extension activities on pisciculture and pond based IFS.

13.	To conduct FLD on mini dry land power weeder in maize.	<ul style="list-style-type: none"> • FLD on mini dry land power weeder in maize was conducted in village Gugurpang, Pradhaniguda and Podosing in 2.0 ha. area with 10 no. of beneficiaries. • One training has been imparted to 20 nos. of rural youth in KVK campus.
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Agenda- 3: Achievements of KVK

The Senior Scientist and Head presented the achievements of KVK for *Rabi* 2021-22, *Kharif* 2022 and *Rabi* 2022-23.

4 nos. of Frontline Demonstrations & one On Farm Testing were conducted in *Rabi* '2021-22 while 07 nos. of Front Line Demonstrations & 4nos. of On Farm Testing were taken up in *Kharif* 2022 and 5 nos. of Frontline Demonstrations & 3nos. of On Farm Testing in *Rabi* '2021-22 (including FLD oilseeds, pulses and TSP) in the farmers field. Cluster Front Line Demonstrations of 2 nos. in *Kharif* 2022 on greengram and blackgram have been successfully conducted under Cluster Frontline Demonstration on pulse programme.

Achievements of *Rabi* '2021-22:

- i. Assessment of different planting dates for better market price of tomato revealed that planting seedlings before one month of normal onset of planting, gave yield of 407.2 q/ha with net income Rs.3,71,924.00 per ha while planting seedlings 1 month after completion of normal planting period gave yield of 424.5 q/ha with net income Rs.3,42,780.00 per ha while farmers practice of normal planting in the month of November gave yield of 392.8 q/ha with net income Rs.2,79,660.00 per ha.
- ii. Demonstration on tea mosquito bug management in cashew gave yield of 8.3 q/ha and net income of Rs.7,32,00.00 as compared to yield of 5.6 q/ha and net income of Rs. 45100.00 in farmers' practice.
- iii. Demonstration of fruit fly management in mango gave yield of 28.5 q/ha and net income of Rs. 1,66,300.00 as compared to yield of 21.0 q/ha with net income of Rs. 1,17,250.00 in farmers' practice.
- iv. Demonstration on Scientific Beekeeping gave yield of 6.4 kg/box and net income of Rs. 3,600.00 as compared to yield of 2.7 kg/box and net income of Rs. 310.00 in farmers' practice.
- v. Demonstration of Mini dry land Power Weeder in Maize gave yield of 41720 cobs/ha and net income of Rs. 185120.00 as compared to yield of 41720 cobs/ha and net income of Rs. 138600.00 in farmers' practice.

- vi. Under assessment on rice varieties in rain-fed medium land, Var. KalingaDhan 1205 gave yield of 45.87 q/ha and net income of Rs. 36574.00 and Var. KalingaDhan 1203 gave yield of 47.25 q/ha and net income of Rs. 39390.00 as compared to yield of 42.5 q/ha and net income of Rs. 29700.00 in farmers' practice.
- vii. Assessment of sucking pest management in chilli gave yield of 112.5 q/ha and net income of Rs. 2,81,750.00 in TO₁ - Foliar spray of Spiromesifen 22.9% SC @400 ml/ha which effectively lowered incidence of pests, with least reduction in population of beneficial insects. In TO₂ - Seed treatment with Imidachloprid 600FS @ 5ml /kg seed and foliar spraying of Spiromesifen 22.9%SC @ 0.8 ml/ l of water twice at 30 and 45 DAT significantly reduced the incidence of sucking pest complex (thrips and mite) and gave yield of 116.25 q/ha and net income of Rs. 294375 as compared to yield of 42.5 q/ha and net income of Rs. 29,700.00 in farmers' practice.
- viii. Assessment of different chemicals for controlling competitor moulds in paddy straw mushroom reveals that Pre-soaking of the paddy straw bundle with 0.02% of Bleaching powder gave yield of 1.2kg/bed with net income of Rs. 72.00 per kg, Pre-soaking of the paddy straw bundle with Calcium carbonate to control competitor moulds growth like *Coprinus* spp., *Aspergillus* spp. gave yield of 1.4 kg/bed with net income of Rs. 96.00 per kg, soaking of paddy straw bundle with 1% calcium carbonate gave yield of 1.1 kg/bed with net income of Rs. 62.00 per kg and in farmers' practice without any chemical application gave yield of 1.1 kg/bed with net income Rs. 62.00 per kg
- ix. Under assessment of Wet Land Power Weeder in Paddy, weeding by using Mandwa weeder has the field capacity of 0.013 ha/h and Weeding Efficiency is 0.86 and Weeding by using wet land power weeder, the field capacity is 0.076 ha/h and Weeding Efficiency is 0.93 than manual weeding.
- x. Demonstration on short duration rice variety Santha Bhima (CR Dhan 102) in rain-fed uplands gave yield of 37.2 q/ha and net income of Rs. 29,188.00 as compared to yield of 31.4 q/ha and net income of Rs. 17356.00 in farmers' practice.
- xi. Demonstration on sheath blight management in rice gave yield of 45.0 q/ha and net income of Rs. 35,400.00 as compared to yield of 34.5 q/ha and net income of Rs. 37,800.00 in farmers' practice.
- xii. Demonstration on management of fall armyworm (*Spodoptera frugiperda*) in Maize gave yield of 46000 cobs/ha and net income of Rs. 1,95,000.00 as compared to yield of 37800 cobs/ha and net income of Rs. 1,09,700.00 in farmers' practice.

- xiii. Demonstration of nutritional garden for Improving Nutritional Security of farm family gave yield of 937 kg./ 0.002ha and net income of Rs. 4870.00 as compared to yield of 530 q/ha and net income of Rs. 2000.00 in farmers' practice.
- xiv. Assessment of bullock drawn puddler for puddling in paddy: There is requirement of 11h/ha for puddling by bullock drawn puddler instead of 45.9 h/ha for conventional method to reduce puddling cost, save time and reduce drudgery for sitting arrangement of operator.
- xv. Demonstration on production of paddy straw mushroom with scrambled straw gave yield of 5.7 kg/bed, net income of Rs. 724.00 and B:C ratio 3.19 as compared to yield of 6.8 kg/bed, net income of Rs.778.00 and B:C ratio 2.62 in farmers' practice.
- xvi. Demonstration on use of Groundnut decorticator for drudgery reduction revealed that the energy expenditure 18.94 kj/min with output 31.08 kg/hr as compared to energy expenditure 9.31 kj/min with output 1.07 kg/hr in farmers' practice.
- xvii. Demonstration of oyster mushroom *P. pulmonarius* in winter gave yield of 2.1 kg/bed and net income of Rs. 117.00 as compared to 1.2 kg/bed and net income of Rs. 42.00 in farmers' practice.
- xviii. Demonstration of Mini dry land Power Weeder in Maize: There is requirement of 8MD/ha for weeding by Power weeder instead of 40MD/ha for conventional method which reduced weeding cost, time consumption and drudgery.
- xix. Demonstration of Single Row Vegetable Transplanter: Use of single row vegetable transplanter helps to avoid bending posture during vegetable transplanting and saves around 18 man days per hectare.

Agenda – 4: Constraints of the K.V.K.

The Senior Scientist and Head presented the constraints of the KVK and drawn kind attention of DEE, OUAT, Bhubaneswar and members of the house.

1. There is vacant of post of Senior Scientist and Head since long.
2. Shortage of scientific staff especially scientists (Agronomy, Horticulture and Animal Science) causing hindrance in carrying out mandatory activities.
3. There is 800 m. of incomplete boundary wall in seed production unit.
4. Lack of proper drainage channel causing water logging condition during rainy season.

5. Sandy soil in block 'A' needs renovation and leveling.
6. There is need of fund for pond based IFS (Integrated Farming System) and infrastructure development.
9. There is requirement of seed godown, parking shed and staff quarters.

Agenda- 5: Salient recommendations

1. Organic pest management as well as ITK practices may be tested in addition to chemical one for FLDs and OFTs of Plant Protection discipline.
2. Training on management of backyard poultry should be imparted in convergence mode with line department to farmers and farm women, CIGs and SHGs for better output.
3. Demonstration on Crossandra cultivation should be taken up as an income generating activity for farmers, farm women and SHGs.
4. KVK is suggested to go for diversification in thematic areas for its mandatory activities.
5. For higher adoption of IFS unit by farming communities of district, exposure visit of farmers to model IFS units may be placed in action plan.
6. Demonstration on cultivation of Arka Samrat should be conducted for its higher yield.
7. Farmers, farm women, rural youth and SHGs should be trained on income generating activities suitable to local condition.
8. More numbers of capacity building programme on mushroom cultivation and its post harvest management should be carried out.
9. Ongoing and upcoming events of KVK activities should be uploaded in KVK website regularly.
10. Impact on successful technologies has to be documented and communicated to district for references.

The meeting ended with vote of thanks by Scientist (Ag. Extension), KVK, Rayagada followed by visit of demonstration units of the KVK by the SAC members.

Rajib Tudu
21.06.2023
Sr. Scientist & Head
KVK, Rayagada

[Signature]
21/06/23
JOINT DIRECTOR EXTENSION
(DISTANCE EDUCATION)
O.U.A.T., BHUBANESWAR

Approved.
[Signature]
21/6/23

Dean
Extension Education
O.U.A.T, Bhubaneswar

ANNEXURE
Participants of 18th Scientific Advisory Committee meeting held on Dt.01.02.2023

Sl. No.	Name	Designation	Remarks
1.	Prof. A. K. Senapati,	HOD (Plant Pathology) OUAT, Bhubaneswar	Chairman
2.	Prof. Amresh Khuntia	JDE, Directorate of Extension Education, OUAT, Bhubaneswar	
3.	Dr. Kalyan Sundar Das	Principal Scientist, Zone- V, ICAR- ATARI, Kolkata	Member
4.	Subarna Prasad	CDPO, Gunupur	Member
5.	Bishnu Prasad Sahu	ADO, Gunupur	Member
6.	Purnapriya Suara	AFO, Gunupur	Member
7.	Satyabrata Sahu	AHO, Gunupur	Member
8.	Mr. RajibTudu	Senior Scientist and Head	Member
9.	Santosh Kumar Samal	DDM, NABARD, Rayagada	Member
10.	Jayashankar Pradhan	SMS (Agro-meteorology), KVK, Gajapati	Invitee
11.	Dr. Sangram Paramguru	SS & Head, K.V.K. Gajapati	Invitee
12.	B. C. Behera	Scientist (Ag. Extension)	Member
13.	Madhumita Sarangi	Scientist (Home Science)	Member
14.	Kiran Kumar Dash	P.C., MASS, Aspirational District, Rayagada	Member
15.	Soumendra Narayan Dash	Agriculture Officer, ITDA	Member
16.	Mr. Debendra Gouda	MASS, Rayagada	Member
17.	Mr. Jagabandhu Puhana	L. I. Division, Gunupur	Member
18.	Mr. Sudeep Kumar Sahoo	District Co-ordinator, 4S-JTC-MOK	Member
19.	Mr. Dalapati Karjee	Secretary, RMC, Gunupur	Member
20.	Madhu Humtal	SCOCUM P.I.A., W/S, Padmapur	Member
21.	Dharmaraj Samal		Member
22.	Mr. Rajendra Kumar Nimalu	Farmer	Member
23.	Smt. SushilaMohapatra	Farm Women	Member
24.	Mr. Sankar Nimalu	Farmer	Member
25.	Smt. PramilaMajhi	Farm Women	Member
26.	Mr. Narayan Sabar	Farmer	Member
27.	Mr. Bibhu Prasad Satapathy	Reporter, Diganta News	Invitee
28.	Indrajit Kumar Panda	Reporter, OTV	Invitee
29.	B. Satish Kumar	Reporter, Kalinga TV	Invitee
30.	Mr. Jagabandhu Lima	Progressive farmer	Invitee
31.	Mr. Kailash Chandra Gouda	Progressive farmer	Invitee