

Proceedings of the 16thScientific Advisory Committee Meeting of KVK, Boudh

The 16thscientific advisory committee meeting of KVK, Boudh was held at 10.30 AM on Dt. 27.01.2020 at KVK training hall under the chairmanship of Dr. Hemant Sahu, Deputy Director Extension OUAT, Bhubaneswar. Dr. Sarat Kumar Mishra, Chief District Veterinary Officer, Boudh participated in the SAC meeting as Chief Guest. Members present in the meeting are annexed herewith. Dr. Sutanu Kumar Satapathy, Senior Scientist & Head, KVK, Boudh made a brief welcome to the Hon'ble Members and requested the dignitaries to inaugurate the meeting by lightening the lamp and requested the Chairman to conduct the meeting.

After a brief introductory Remark, the Chairman asked the Sr. Scientist & Head to start the proceedings as per the agenda.

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

The Sr. Scientist & Head briefly presented the proceedings of the last SAC meeting. The chairman taking the consent of the members approved the proceedings.

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

The Sr. Scientist & Head presented the following action taken report on the recommendations of last SAC meeting having relevance to Kharif season.

15th Scientific Advisory Committee Meeting held on 21.12.2018

Recommendations	Action Taken
More seedlings and propagating materials of medicinal plants to be produced at KVK level	In year 2018-19, 386490 nos. vegetables seedlings & 4,50,000 vegetable seedlings have taken prepared in year 2019-20.
Popularization of local Brinjal variety by planting in scientific way at crop cafeteria	Brinjal variety <i>Niranjan</i> has been included in crop cafeteria and popularized in adopted village Lambkani.
Onion varieties to plant in convergence with NHRDF for their varieties	Agri found light red onion variety has been included in crop cafeteria in year 2019-20
Different varieties of Banana crop to be planted in the crop cafeteria through AICRP	Banana varieties- <i>Champa</i> , <i>Amrutpani</i> & <i>G-9</i> has been planted in crop cafeteria year 2019-20 supplied by Biotechnology lab near Baramunda, Bhubaneswar
Different breeds of poultry to be managed in separate capsules and a brooding room to be managed for upto 21 days old chicks	Breeds of poultry like Kadaknath, Rainbow rooster & Aseel are managed in poultry unit & a separate brooding chamber has been maintained in 2019-20
Forestry unit to be impoverished by introducing shade loving plants, planting of Black Pepper, ginger etc. to be introduced	Shade loving plants like Turmeric, Colocassia, Black peaper & Paddy straw mushroom has been introduced in the forestry unit in 2019-20
Different components of decomposing to be	Different components of decomposing like

introduced at vermicompost polythene units like vegetable waste, decomposes liquid, etc. as separate component units	vegetable waste, decomposer, paddy straw waste has been practised in separate vermicompost unit
OFT on cotton to be introduced in the next Kharif Season	FLD on “Demonstration on Integrated Weed Management in Cotton “has been implemented in Kharif 2019
Different varietal trial based upon the rainfed condition of Boudh district e.g. short duration varieties	FLD on “Demonstration on drought tolerant paddy Variety Swarna Shreya” has been implemented in Kharif 2019
Problems in fruit crops like mango and guava to be indentified and solution for reducing the gap to be carried out accordingly	FLD on “Demonstration on management of flower & fruit drop in Mango” has been implemented in Rabi- 2019-20
Importance shall be given on fruit crops and encouraging the value chain and marketing to be carried out	FLD on “Demonstration on Management of Watermelon wilt” has been implemented in Rabi-2019-20
Problem identification regarding cultivation of pumpkin and watermelon shall be carried out	FLD on “Demonstration on Management of Watermelon wilt” & FLD on “Demonstration on fruit fly management in pumpkin “has been implemented in Rabi- 2019-20
Animal health camp to be organized in KVK operated villages in convergence with veterinary department	Web Telecast of National Animal Disease Control Awareness Programme has been jointly organized by CDVO ,Boudh & KVK, Boudh on Dt. 11.09.2019
Importance to be given on off season vegetable cultivation	A F/Fw training has been conducted on “Off season vegetable cultivation”
Awareness and encouragement of farmers regarding maize cultivation and pulse cultivation to be given	FLD on “Demonstration on Sweet Corn Variety- Sugar 75” has been implemented in Rabi- 2019-20
Training, Awareness and trials to be conducted based on INM and IPM	<ol style="list-style-type: none"> 1. Validated IPM interventions for Onion 2. Garlic & INM in solanaceous vegetable 3. INM in chilli <p>Three training has been taken in 2019-20</p>

Agenda- 3 Achievements made during: Rabi- 2019-20

The Senior Scientist and Head of KVK, Dr. S.K.Satapathy presented the overall achievements made by the KVK during the year 2019-20 including mass dissemination by KMAS, Voice message, message in newspaper etc.

On-Farm Testing:

Seven numbers of OFTs have been assessed during 2019-20 involving 49 farmers in farmer's field based on problem of farmers. Some of Salient achievements of the OFTs are discussed.

➤ Assessment of rice varieties tolerant to BPH during Kharif

TO 1- Hasanta (OR-2328-5) suitable for rainfed /irrigated shallow low land, 145 days duration, Avg.yield: 3.9 t/ha tolerant to BPH, WBPH, Blast, Leaf folder

TO 2- Pratikshya suitable for shallow low land, 145 days duration, Avg.yield: 4.5 t/ha resistant to Blast, field tolerant to BPH and other major pests.

➤ Assessment of different Herbicides for weed management in green gram

TO1 -The application of Pendimethalin @ 1 kg/ha as pre emergence

TO2- The application of Imazethapyr @ 75 g/ha as post emergence at 20 DAS

TO3- The application of Pendimethalin @ 1 kg/ha as pre emergence fb Imazethapyr @ 75 g/ha as post emergence at 20 DAS

➤ Assessment of Onion Varieties of Kharif Season

TO1-BHIMA SUPER-Bulbs are pink light colour, globular in shape, matured in 100-110 DAT. Recommended for growing on Kharif season to all over the country & Yield 20-22 t/ha.

TO 2-BHIMA DARK RED - Bulbs are dark Red in colour, flat, globular in shape, matured in 95-100 DAT. Recommended for growing on Kharif season to all over the country & Yield 20-22 t/ha.

➤ Assessment of Triple disease resistant tomato hybrid Arka Rakshak & Arka Samrat during Rabi Season

TO-1, Arka Rakshak First F1 hybrid with triple disease resistant to ToLCV, BW and early blight. Fruits square round, large (90-100g), deep red colored and firm. Suitable for fresh market and processing. Yield: 75-80 t/ha. In 140 days. Seed 100g/ha. Transplanting at a spacing of 90*60 cm.

TO-2, Arka Samrat First F1 hybrid with triple disease resistant to ToLCV, BW and early blight. Fruits oblate to high round, large (90-100g), deep red and firm. Suitable for fresh market. Yield: 80-85 t/ha in 140 days.

➤ Assessment of IPM modules for fruit & shoot bore in Kharif Brinjal

TO1- Collection and destruction of damaged shoots & fruits, installation of pheromone traps for Lorbonalis @ 25 nos. /ha & release of Trichogramma chilonis @ 50000/ha 10 days interval 6 times followed by spraying of Neem oil 1500 ppm @ 5ml/lit at weekly intervals

TO2- TO 1 + Application of Spinosad 4 MI/ 10 lit at weekly intervals

➤ **Assessment of fungicide against Banana wilt in Kharif season**

TO1- Application of Neem cake @ 250 g/plant + Application of lime (CaCO₃) @ 10g/plant + sucker dipping in Carbendazim (0.2%) for 30 minutes + carbendazim drenching (0.2%) @ 3.5 L/plant (2nd 4th 6th MAP)

TO2- TO 1 + Carbendazim injection @ 3 ML of 2% solution (3rd 5th 7th MAP)

➤ **Assessment of different planting time for better market price of Tomato.**

TO1- Planting of seedling 15 days before onset of normal planting period.

TO2- Planting of seedling 15 days after onset of normal planting period.

Front Line Demonstration:

K.V.K has conducted 5 Nos. of frontline demonstrations in Kharif -2018. Salient achievement of some FLDs are given below.

➤ **Demonstration on drought tolerant paddy Variety Swarna Shreya**

➤ Swarna Shreya is suitable for rainfed low land and direct seeded aerobic condition with duration of 120-125 days. It has capacity to withstand drought and also tolerance to many disease and insects. Average productivity of this variety is 4.5 to 5.0 t/ha.

➤ **Demonstration on weed management in paddy in kharif.**

➤ Pendimethalin is a pre emergence herbicide which gives wide spectrum of weed control like grasses, sedges and broadleaf weeds. The mode of action of herbicide is inhibition of root and shoot growth resulting in inhibition of emergence. Bispyribac sodium is a post emergence herbicide which also gives wide spectrum of weed control with ALS inhibitions mode of action restricting production of essential amino acids.

➤ **Demonstration on Integrated Weed Management in Cotton**

➤ Pendimethalin is a pre emergence herbicide which gives wide spectrum of weed control like grasses, sedges and broadleaf weeds. post emergence application of Quizalop p-ethyl helps in controlling grassy Weeds. It also helps in reducing no of Weeds /m².

➤ **Demonstration on Sweet Corn Variety- Sugar 75**

➤ Plant height 5-6 ft , Maturity: 78-85 days. 50% silking : 53-55 days. Population/ha: 55000-60000. & Seed treated with bio-fertilizer before sowing and application of Chemical fertilizer@ 120:60:60 Kg N:P:K /ha

- **Demonstration on INM in Chilli in Kharif**
 - Application of 75% recommended dose of N (100 kg/ha) along with full P & K (60 kg/ha) and Azospirillum (10 kg/ha) recorded highest Green Chilli Yield.
- **Demonstration on INM Practices in Banana**
 - Application of 75% of RDF (300:100:300 gm NPK/Plant)+ 125 gm each of Azotobactor, Azospirillum & PSB incubated in FYM /Plant resulted higher Yield.
- **Demonstration on Weed Management in Rabi Onion.**
 - Pre – emergence application of Pendimethalin 750gm/ha followed by application of quizalofop-p-ethyl @50gm/ha at 20 DAS is most effective in controlling Weed complex in Onion.
- **Demonstration on Arka Vegetable special for Management of Blossom end rot of Tomato.**
 - Arka Vegetable special for micro-nutrient suppliment (IIHR, Bengaluru) 12.5kg/ha innoculated with FYM.
- **Demonstration on fruit fly management in pumpkin**
 - Soil application of chlorpyriphos dust around the plant at 30 DAG, placement & Application of jaggery (100g), dichlorvos (2ml) & water (1 lit) poison bait (BAT) , Installation of cue lure @ 20/ha (MAT) & Periodic removal and destructions of damaged fruits effectively reduced the fruit damaged.
- **Demonstration on management of leaf curls in chilli**
 - Spray of Acephate @ 1.5 g/L + Neem oil @ 2 ml/L followed by spray of Cyazypy @ 1.5 MI/L at weekly interval till fruit formation
- **Demonstration on management of flower & fruit drop in Mango**
 - Four sprays of Metarhizium anisopliae oil formulation @ 0.5 ml/L at weekly interval
- **Demonstration on Management of Watermelon wilt**
 - Seed treatment with Talc based formulation bio-agents Trichoderma or Pseudomonas @ 35-50/kg of seed forming slurry + seedling drench near root zone @ 25 gm/lit of water as suspension after 15-20 DAS (2-4 leaf stage).
- **Demonstration on Effectiveness of short technology videos on technology adoption.**
 - Production package will be divided into different segments and short videos will be produced and disseminated through whatsapp.

Training Programmes:

Sl. No	Type of Training	No of training Programme	Total Participants
1	Training for Farm & Farm women	33	825
2	Rural Youth	05	75
3	In-service Personnel	01	15
	Total	39	915

Other Extension Activity

Extension Activities	Number	Participants
Scientist visit to farmers fields	95	235
Farmers visits to KVK	246	256
44 CD Film Shows	14	330
KMAS	27	32508
Spl. Day celebration	2	80
Field Day	3	150
Group meeting	6	150
Kissan Mela / Web Telecast	2	200
Lecture delivered as resource person	7	150
Exposure visit	1	10
Leaflets	2	1000
Newsletter	1	500

Publications

Sl.No.	Item	No.	No. of copies printed
1	Book/ Booklet	3	3000
2	Leaflets	2	2000
3	Poster/Flex	19	19
4	News letter	2	1000
5	News paper Coverage	13	-
6	Technical report	3	12
7	Year planner	1	50
	Total	43	6081

Instructional Farm Activity**Status of seed**

Seed / QPM/ Other Critical Production Inputs	Quantity of production during 2019-20	Target for 20-21
Pigeonpea (PRG-176)	4.0	8.0
Dhanicha (Local)	1.0	2.0

Status of seedling

Seed / QPM/ Other Critical Production Inputs	Quantity of production during 2019-20	Target for 20-21
Brinjal (JK-8030)	1130	3000
Onion (Bhima super, Bhima Dark Red)	3,70,000	4,00,000
Chilli (Arka sweta)	1000	1500
Tomato (Arka Rakshyak, Arka Samrat)	15,060	20,000
Cabbage (Harekrishna)	1030	3500
Cauliflower (Megha)	1560	4200
Total	3,89,780	4,32,200

Achievement of CFLD

Crop & Variety	Year & Season	Area (ha)		Name of villages & No. of Beneficiaries	Yield (q/ha)		Increase over FP (%)	Net Income (Rs / ha)		BCR	
		Targed	Achieved		CD	FP		CD	FP	CD	FP
Greengram (IPM-02-03)	Kharif (2019-20)	10	10	Amthapada,Lu lutakhali 25no.	5.2	4.3	20.93	19700	14000	1.94	1.62
Blackgram (Prasad)	Kharif (2019-20)	10	10	Erda,Kulutakh ali 25nos.	4.8	3.6	33.3	17500	13500	1.7	1.48
PigeonPea (PRG-176)	Kharif (2019-20)	10	10	Erda,Kulutakh ali 25nos.	8.5	5.6	51	27400	15000	2.1	1.6
Mustard (Uttara)	Rabi (2019-20)	50	50	Kulutakhali, Jadapal, Kanakpur	6.4	5.2	23	13850	10550	2.16	1.84

The members interacted among themselves and following action points were suggested.

The Chairman appreciated in his presidential remarks stated that convergences of all line departments with KVK are doing betterment of the farming community. The meeting was ended at 2.30 pm with vote of thanks by Smt. J.R.Mallick, Scientist (Plant Protection).

- Orchard management in Mango
- Varietal trial on pungency of chilli with local variety
- Popularisation of potential technologies on Kharif, late kharif onion cultivation
- Production technologies for off season coriander cultivation methods in polyhouse.
- Production technologies for highly nutritive vegetables cultivation methods.
- Trail on BPH management technologies except for varietal trial
- Popularisation of short duration rice variety for drought tolerance.
- Introduction of a demonstration unit in KVK crop cafeteria.
- Popularisation of production technologies for *Tilapia* sp. production
- Emphasis on veterinary sector and demonstration based on Animal husbandry in KVK.
- Emphasis on maintenance of animal husbandry in KVK crop cafeteria as demonstration unit.
- Emphasis on entrepreneurship development through capacity building.
- Awareness on diary, poultry and its marketing management.
- More field visit activities to be followed for more interaction with farmers.
- Popularisation of the new varieties of NHRDF which includes onion varieties of NHRDF series and garlic variety Jamuna safeda series.
- Demonstration and training or involvement in Mission shakti activities for storage methods technologies of Rabi onion.
- More emphasis on crop diversification of high value crops or bankable projects for SHGs or entrepreneurs
- More emphasis on flower cultivation and its popularisation in the district among SHGs or women entrepreneurs
- Awareness on diseases related goatery and poultry.
- Production technologies on pigeon pea varieties specific to bund cultivation and its yield enhancement technologies.
- Crop diversification of unbunded upland condition with respect to introduction to specific varieties for crop sweet corn and vegetables.
- Popularisation of production technologies for scented rice in the district.
- Emphasis on marketing of tomato during Rabi
- Emphasis on more numbers of field visits.

Sd/-
**Sr. Scientist & Head
KVK, Boudh**

Annexure: IList of participants present in the Rabi 16th SAC meeting with their address and status in the meeting.

Sl. No	Name	Designation &Address	Status
1	Dr. Hemanta Sahoo	Dpty. Director, Extension Education, OUAT	Chairman
2	Dr. Sarat Kumar Mishra	CDVO, Boudh	Member
3	Sj. Himanshu Sekhar Acharya	ADH, Boudh	Member
4	Dr. Rajneesh Mishra	Dpty. Director of NHRDF, Boudh	Member
5	Sri R. K. Sethy	LDM, Boudh	Member
6	Sri Sanjiv Kumar Muduli	AAO, Boudh	Member
7	Sri Devdutta Mishra	DPC, Mission Sakti, Boudh	Invitee
8	Sri Ashit Kumar Kanhar	Range officer, Boudh	Invitee
9	Sri Manoj Kumar Bhuiya	DFO, Boudh	Member
10	Sir Pravat Kumar Sahu	IPO, DIC Boudh	Member
11	Sri Amarnath Pradhan	Progressive Farmer	Invitee
12	Sri Susanta Sahoo	Dharitri Reporter	Media
13	Sri Priya Brata Sahoo	Naxatra Reporter	Media
14	Sri Ghasiram Pradhan	Pramaya Reporter	Media
15	Sri Amarnath Pradhan	RMC, Boudh	Member
16	Sri Prabir Kumar Das	H.O.D, Botney, B.P. College, Boudh	Invitee
17	Sri Ramesh Naik	Progressive Farmer	Member
18	Sri Khetrabasi Naik	Progressive Farmer	Member
19	Sri Kusadwaja Naik	Progressive Farmer	Member
20	Sri Ritanjali Naik	Progressive Farmer	Member
21	Sri Kanan Khamary	Faculty, SBI, RSEHP, Boudh	Invitee
22	Smt Gurubari Sahoo	Progressive Farm women	Invitee
23	Smt Sobharani Bhoi	Progressive Farmer	Invitee
24	Sri Abhilash Mahakud	Technical Assistant, NHRDF, Boudh	Invitee
25	Sri Niramal Kumar Sahoo	Secretary, PSS, Telibandha, Boudh	Invitee
26	Sri Manoj Kumar Pradhan	Progressive Farmer	Invitee
27	Sri Ranjit Kumar Das	Technical Officer (PP) NHRDF, Boudh	Member
28	Sri Gadadhar Mahakud	Progressive Farmer	Invitee
29	Sri Sukanta Sahoo	Sambad Reporter	Media
30	Sri Girish Chandra Pradhan	Progressive Farmer	Invitee
31	Sri Prasant Mohapatra	Progressive Farmer	Invitee
32	Sri Purna Chandra Khatua	Secretary YCDA, Boudh	Member (NGO)

PHOTOGRAPHS OF 16TH SAC MEETING OF KVK, BOUDH

