

**PROCEEDINGS OF THE 17<sup>TH</sup> SCIENTIFIC ADVISORY COMMITTEE MEETING**  
**KRISHI VIGYAN KENDRA, BOUDH**

The 17<sup>th</sup> Scientific Advisory Committee (SAC) both online and offline meeting of KVK, Boudh was held on Dt. 05.02.2021 at 10.30 AM in KVK training hall under the Chairmanship of Hon'ble Vice-Chancellor & Conducted by Dr. L.M.Garnayak, Dean Extension Education, OUAT, Bhubaneswar & Dr. F.H.Rahman, Principal Scientist, ATARI, Kolkata, Dr. Govinda Acharya, OIC & Head, Dr. Madhumita Das, Principal Scientist, IIWM and Sri. Sarada Prasad Mishra, Chief District Agriculture Officer, Boudh participated in the SAC meeting. Members present in the meeting are annexed herewith. Dr. Sutanu Kumar Satapathy, Senior Scientist & Head, KVK, Boudh made a brief welcome to the SAC 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 held on Dt. 27.01.2020.

<b>Recommendations</b>	<b>Action Taken</b>
➤ Popularisation of potential technologies on Kharif, late kharif onion cultivation	One OFT taken during Kharif-2020 on ➤ Assessment of Onion Varieties of Kharif Season
➤ BPH management technologies	➤ During kharif, 2020 FLD on BPH tolerant high yielding rice var. Hasanta was taken up to find out suitable management of BPH in the district. ➤ Training to F/FW was conducted on IPM modules for BPH management in low land rainfed rice
➤ More emphasis on soil health programme	➤ During 2020-21, 05 Nos of soil awareness camp was organised at villages- Rampur, Kultakhali, Lambakani, Kirasira, Badhigaon

	<ul style="list-style-type: none"> <li>➤ Total No of soil tested: 220 Nos</li> <li>➤ Soil Health Card distributed: 680 Nos</li> <li>➤ Water Sample tested: 10 Nos</li> </ul>
➤ Awareness on diary, poultry and their marketing management	➤ An Animal Health camp was organised during 2019-20 in colabration with veterinary deptt.
➤ Popularisation of onion varieties of NHRDF series and garlic variety Jamuna Safed series	<ul style="list-style-type: none"> <li>➤ Garlic variety Jamuna Safed was taken as trial basis in crop cafeteria during 2020-21 from NHRDF.</li> <li>➤ Popularization of onion variety(Agrifound dark red) as taken as trials at crop cafeteria during the year 2020-21.</li> </ul>
➤ Production technologies of pigeon pea varieties specific to bund cultivation and technologies for increasing yield	➤ Demonstration on Integrated Nutrient Management in Pigeonpea where application of NPK @25:50:50 kg/ha with rhizobium @ 20g/kg seed asseed inoculation + below seed zone application ofPSB@ 5kg/ha taken during Kharif 2020 programme.
➤ Varietal trial on pungency of chilli with local variety	➤ Chilli local variety was taken as trial basis in crop cafeteria during 2020-21
➤ Crop diversification in unbunded uplands specially with sweet corn	➤ During Rabi 2019-20 Demonstration on high yielding sweet corn variety: Sugar-75 was taken
➤ Popularisation of production technologies for scented rice in the district	➤ OFT on Assessment of Aromatic paddy varieties such as Geetanjali and Nua Kalajira was taken during Kharif -2020 programme for more popularization of scented varieties in the district
➤ Focus on marketing of tomato during rabi	➤ One OFT has been taken Assessment of different planting time from better market price of tomato in Rabi 2020-21
➤ Production technologies of vegetables with highly nutritive lalue	<ul style="list-style-type: none"> <li>➤ Organised traning programme on Nutri – garden among farm women and Anganwadi workers under POSHAN MAAH Programme during 2020-21</li> <li>➤ Distribution of 100 Nos of kitchen garden seed kits to farm women &amp; Anganwadi workers</li> </ul>
➤ Focus on marketing of Tomato during Rabi	➤ OFT Conducted during 2020-21 On different planting time for better market price of Tomato
➤ Entrepreneurship development through Capacity Building	➤ Training programme conducted for SHGs members under Mission Shakti on Nursery Management & Vermicomposting for their Capacity Building

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

The Senior Scientist and Head presented the overall achievements made by the KVK during Rabi 2019-20.

#### **On-Farm Testing**

Three numbers of OFTs have been conducted during Rabi- 2019-20 involving 21 farmers based on problem of farmers. Some of salient achievements of the OFTs were as follows:

In OFT on “Assessment of different Herbicides for weed management in green gram” The application of Pendimethalin @ 1 kg/ha as pre emergence fb Imazethapyr @ 75 g/ha as post emergence at 20 DAS recorded 6.1 q/ha yield as compared to 4.1 q/ha yield in Farmers Practice. OFT on “Assessment of Triple disease resistant tomato hybrid Arka Rakshak & Arka Samrat during Rabi Season”. Arka Rakshak recorded 477.9 q/ha yield as compared to 283.6 q/ha yield in Farmers Practice and 351.3 q/ha in var: Arka Samrat. OFT on “Assessment of different planting time for better market price of Tomato” Planting of seedling 15 days before onset of normal planting period recorded 326.2 q/ha yield as compared to 309.4 q/ha yield in Farmers Practice and Planting of seedling 15 days after onset of normal planting period gives 314.8 q/ha yield.

#### **Front Line Demonstration**

K.V.K conducted 07 nos. of frontline demonstrations during Kharif-2020. Salient achievement of some FLDs were given below.

Demonstration on “Demonstration on Sweet Corn Variety- Sugar 75” gave cob yield of 75.5 q/ha as compared to 40.0 q/ha in Farmers Practice which is 88.7% change in yield. Demonstration on “Weed Management in Rabi Onion” gave yield of 237.2 q/ha as compared to 181.3 q/ha in Farmers Practice which is 30.8% change in yield. Demonstration on “Arka Vegetable special for Management of Blossom end rot of Tomato” gave yield of 264.8 q/ha as compared to 225.1 q/ha in Farmers Practice which is 17.6% change in yield. Demonstration on “fruit fly management in pumpkin” gave yield of 321.0 q/ha as compared to 232.0 q/ha in Farmers Practice which is 38.4% change in yield. Demonstration on “Management of leaf curls in chilli” gave yield of 17.68 q/ha as compared to 14.94 q/ha in Farmers Practice which is 18.34% change in yield. Demonstration on “Management of flower & fruit drop in Mango” gave yield of 92.0 q/ha as compared to 63.0 q/ha in Farmers Practice which is 46 % change in yield. Demonstration on

“Management of Watermelon wilt” gave yield of 234.8 q/ha as compared to 195.5 q/ha in Farmers Practice which is 20.1 % change in yield.

#### **Agenda- 4 Achievements made during: Kharif- 2020**

The Senior Scientist and Head presented the overall achievements made by the KVK during Kharif-2020.

##### **On-Farm Testing**

Three numbers of OFTs have been conducted during Kharif- 2020 involving 21 farmers based on problem of farmers. Some of salient achievements of the OFTs were as follows:

In OFT on “Assessment of Aromatic paddy varieties in medium Irrigated Land, Geetanjali recorded 39.5 q/ha yield as compared to 26.0 q/ha in Farmers Practice and 37.5 q/ha in rice var. Nua Kalajeera. In OFT on “Assessment of high protein nutrient rich Rice Varieties CR Dhan-310 and CR Dhan-311, CR Dhan-310 recorded 42.0 q/ha yield as compared to 33.2 q/ha in Farmers Practice and 39.6 q/ha in rice var. CR-Dhan-311. In OFT on “Assessment of Onion Varieties of Kharif Season, Arka Niketan recorded 243.9 q/ha yield as compared to 184.3 q/ha in Farmers Practice and 209.7 q/ha in var. Bhima Super

##### **Front Line Demonstration**

K.V.K conducted 05 nos. of frontline demonstrations during Kharif-2020. Salient achievement of some FLDs were given below.

Demonstration on “BPH tolerant high yielding rice variety: Hasanta” gave yield of 45.0 q/ha as compared to 32.6 q/ha in Farmers Practice which is 38.0% change in yield. Demonstration on “INM in Brinjal” with application of N-125 kg, P-50 kg, K-50 kg/ha, 5 kg of Azospirillum & PSB each and Foliar application of Boron @ 2gm/lit of water, gave yield of 345900 q/ha as compared to 293700 q/ha in Farmers Practice which is 17.47% change in yield. Demonstration on “Management of shoot and fruit borer of Brinjal” with Foliar spraying of Flubendiamide 480 SC @ 78.70 g ai/ha and Rynaxypyr 20 SC @ 33.33 ai/ha gave yield of 248.7 q/ha as compared to 204.4 q/ha in Farmers Practice which is 13.8% change in yield. Demonstration on “IDM Package for Pumpkin” with Seed treatment with Carbendazim 12 % + Mancozeb 63% @ 3g/kg drenching of captan 70% + Hexaconazole 5 % WP @ 0.1 % AT 15 Days after germination. Spray with Imidacloprid 17.8 SL @ 7.5 ML/15l + Neem oil @ 0.2 % at 25 days after germination. Spray of captan 70 % + Hexaconazole 5 % WP @ 0.1 % at 35 days after germination. Spray of fosetyl- Al @ 0.1 % at 45 days after germination. Gave yield of

244.2 q/ha as compared to 182.6 q/ha in Farmers Practice which is 25.2% change in yield. Demonstration on “Integrated pest management on fall army worm in maize” with Seed treatment with Imidacloprid 600 FS, 20 DAG Chlorantraniliprole 18.5 SC (0.3/lit) ,30 DAG- Spinetorom (0.5 ML/lit), 40 DAG- Poison bait with thiodicarb (100/gm/acre). Gave yield of 40.1 q/ha as compared to 27.6 q/ha in Farmers Practice which is 31.1% change in yield.

### **Training**

KVK imparted training to 900 farmers & farmwomen through 36 training programmes, 75 rural youths trained on quality planting material production in vegetable, Bee keeping, Paddy straw & oyster mushroom cultivation, Production of quality planting material under protected condition, entrepreneurship development, value addition of vegetables through 05 Nos. of trainings was conducted during the period.

### **Other Extension Activities**

KVK conducted other extension activities viz. Scientist visit to farmers fields 125 Nos, Farmers visits to KVK 206 Nos, 4 Field days, 2 nos of farmers fair, 2 nos of Spl. Day celebration, 4 nos of exhibition and 14 Film shows. Scientists of KVK published 1 no of news letters, 3 nos. of popular articles, 3 nos of extension literatures. 2 Nos of Kissan mela/web telecast has been conducted. 24 nos. of messages has been sent to 32508 nos of farmers regarding ICM, INM, IPM, IDM crop management, weather etc. KVKs celebrated Akshaya trutiya, Women in agriculture day, Agriculture Education day, Webinar, etc. during the period.

KVK produced Pigeonpea variety (PRG-176) 4.0 qtls and Dhanicha (local) 2.0 qtls at its own farm. KVK produced seedling of Brinjal (Niranjan) 3225 nos, Onion (Bhima Super & Arka Niketan) 2,20,000 nos, Chilli (Arka Sweta) 2,625 nos, Tomato (Arka Rakshyak, Laxmi) 20,700 nos, Cabbage (Harekrishna) 2500 nos, Cauliflower (Megha) 3600 nos. during the year.

### **Agenda 5: Action Plan for Rabi 2020-21**

There is a plan of conducting 04 nos. of OFTs and 08 FLDs during Rabi -2020-21.

### **Agenda 6: Suggestions from SAC members**

The following action points were suggested by the SAC members.

- Popularisation of Agri-silvicultural model through KVK by live demonstration units at the crop cafeteria
- Increase soil health card targets for each KVK to be achieved

- More emphasis is to be given to the non-paddy crops for efficient utilisation of uplands and making it as the second crop after paddy
- More focus is to be given to onion and cotton crops due to its feasibility and quality.
- Short duration paddy variety and crop with efficient water utilising variety is to be introduced
- Popularisation of traditional onion local (multiplier onion) and small onion varieties to be introduced in Boudh district and Collector and DM has also shown interest regarding the onion varieties
- The capacity of poultry unit at KVK is to be increased to 1000 chick's capacity.
- The breeds like Rainbow rooster, polychrome, Kadaknathare to be reared at the poultry units
- Awareness on Crop diversification is to be conducted.
- Importance to be given on Late kharif onion.
- Potential varieties of okra like ArkaNiketa to be encouraged among farmers
- OFT on multiplier onion variety is to be taken up with the local
- Capsicum can be introduced as a sole crop.
- Efforts are to be given to increase cropping intensity of the district
- Production technologies on organic vegetable and high value crops should be considered.
- Processing varieties for crops like jack fruit, tomatoes to be introduced in the district from IIHR through KVK, Boudh

The meeting was ended at 2.00 pm with vote of thanks by Smt. J.R.Mallick, Scientist (Plant Protection).

### ***Annexure: I***

#### **List of participants in the Rabi 17<sup>th</sup> SAC meeting**

<b>Sl. No</b>	<b>Name</b>	<b>Designation &amp;Address</b>	<b>Status</b>
1	Prof. Pawan Kumar Agarwal	Hon'ble Vice-Chancellor, OUAT,BBSR	Chairman
2	Dr. L.M.Garnayak	Dean Extension Education, OUAT,BBSR	Conduct the meeting
3	Dr. F.H.Rahman	Principal Scientist, ATARI, Kolkata	Member
4	Dr. Govinda Acharya	Director, CHES, IIHR, BBSR	Member
5	Dr. Madhumita Das	Principal Scientist, IWM,BBSR	Member

6	Sri Manoj Kumar Bhuinya	DFO,Boudh	Member
7	Sj. Sarada Prasad Mishra	CDAO, Boudh	Member
8	Dr. Amitav Panda	CDVO,Boudh	Member
9	Dr. Nirod Chandra Kanhar	ADVO,Bouodh	Representative
10	Sj. Jogendranath Mohapatra	ADH, Boudh	Member
11	Sj. Raghaba Mallick	PD, Watershed	Member
12	Dr. Rajneesh Mishra	Dy. Director of NHRDF,Boudh	Member
13	Sj. Lakshyapati Bhoi	DSWO, Boudh	Member
14	Smt Dipti Sagarika Sahoo	AHO, Boudh	Representative
15	Sj. Debadutta Mishra	DPC, Boudh	Member
16	Dr. Jeebanjeet Sen	Sr.Scientist & Head, KVK, Sonapur	Invitee
17	Sri Amarnath Pradhan	RMC.Boudh	Member
18	Sri Pradip Deuri	NGO, Pali vikas parisad, Boudh	Invitee
19	Sri Khetrabasi Naik	Progressive Farmer	Member
20	Smt Sobharani Bhoi	Progressive Farmer	Invitee
21	Sri Manoj Kumar Pradhan	Progressive Farmer	Invitee
22	Sri Girish Chandra Pradhan	Progressive Farmer	Invitee
23	Sri Nabakishor Meher	Sambad Reporter	Media
24	Sri Srikanta Sahoo	Dharitri Reporter	Media
25	Sri Priyabrata Sahoo	Nakhetra News	Media
26	Dr.S.K.Satapathy	Sr.Scientist & Head, KVK, Boudh	Member-Secretary