

PROCEEDINGS OF THE 19th SCIENTIFIC ADVISORY COMMITTEE MEETING OF KVK SUNDARGARH-I

The 19th Scientific Advisory Committee meeting of KVK, Sundargarh-I was held on 16.12.2022 at 10.00 am in the training hall of KVK, Sundargarh-I under the Chairmanship of Dr. Hemanta Kumar Sahoo, Deputy Director Extension, DEE, OUAT, Bhubaneswar. and Dr. Abhijit Haldar, Principal Scientist, ATARI, Kolkata, Dr. Pramod Kumar Panda, Principal Scientist, IWM, Bhubaneswar & Dr. Sanjukta Mohapatra, ADR, RRTTS, Chiplima were also present on this occasion. All the SAC members were present in the meeting are annexed herewith.

At the outset Dr. Laxmipriya Pradhan, Senior Scientist and Head, KVK, Sundargarh-I welcomed the members to the meeting.

After the introductory remark, respected Chairman asked the Senior Scientist and Head to start the proceedings as per the agenda.

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

The Senior Scientist and Head, KVK, Sundargarh-I, appraised the house by circulation of the proceedings to the members and presented the action taken report of the last 18th SAC meeting held on 29.12.2021. The Chairman was pleased to approve the proceedings after taking consent of the members.

Agenda 2 – Action taken on the proceeding of last SAC (18th) meeting

The Senior Scientist and Head presented various actions taken by the KVK as per recommendations of the last SAC meeting.

Salient recommendations of 18th SAC and action taken

Sl No	Recommendations	Action taken
01	Impact of nutri-garden on various nutrition parameters should also be assessed in addition to yield and consumption pattern	➤ Consumption of vegetables has been taken as parameter. ➤ Impact assessment will be done after another one year
02	Short duration Arhar varieties (within 120 days) should be assessed under Sundargarh condition during Kharif	➤ PRG 176 & BRG 5 varieties has been assessed by KVK, Sundargarh-1 during 2019-20 and 2020-21. Now PRG 176 taken as promising variety in our district.
03	Performance of chickpea should be studied in low land and heavy soils under residual moisture during rabi season	➤ Chickpea has been demonstrated by Agril. Dept. in Rice Fallow areas of (Tangarpali, Subdega, Bargaon, Sadar) block and is being assessed by KVK Scientists
04	Front Line Demonstration should be conducted on Pointed gourd and purple coloured sweet potato varieties	➤ Pointed gourd var. Swarna Aloukik has been demonstrated in KVK campus & in farmers field of Kirei, Gurubasa, Damkuda & Sahebdera
05	Skill development training on nursery management should be imparted to the	➤ Training has been imparted during exposure visit of 7 group watershed area beneficiaries to KVK

Sl No	Recommendations	Action taken
	beneficiaries of watershed/WADI project	campus ➤ Skill development training shall be imparted to beneficiaries of WADI project during last week of December this year.
06	Awareness on FPO formation and specific training need of FPO should be addressed by KVK	➤ Training has been given on Online marketing avenues in sale of agriculture produce involving FPO members(1 nos), Integrated nutrient mgt. for increase in production of paddy & vegetables (2nos), Off-season cultivation of vegetables for increased income(2nos). ➤ Training on establishment of low cost poly tunnel nursery for nursery raising of vegetables & nutritional garden for year round production of vegetables.(3 nos)
07	Indigenous/local varieties of vegetables, millet should be demonstrated in KVK campus	➤ Seven varieties Red foxtail millet, Finger millet, Little millet, Barnyard millet, White Jowar, Yellow Jowar, Pearl millet has been demonstrated in a crop cafeteria at KVK
08	Organic and biological methods of pest control should be promoted in millet cultivation	➤ Technical guidance has been given to Kisan sathi foundation(30nos) , NGOs partner and farmers (more than 100), for preparation of dashparni arka, Nimastra, Neem oil, Neem seed kernel extract(NSKE) for pest control in ragi and kodo millet
09	A small Spirulina culture demonstration unit may be established at KVK with financial support of DMF	➤ Training has been taken by Scientist and Senior Scientist & Head from CFTRI, Mysore and spirulina culture maintain by KVK and cultivation unit construction is going on through DMF
10	KVK should suggest suitable IFS models to different categories of beneficiaries of farm pond scheme and provide training on IFS	➤ KVK has given suggestion for development of suitable IFS model in farmers field through farmers footfall, Training as well as field visit ➤ KVK is promoting 8-9 nos of IFS model at Kirei, Gurbasa, Samina, Ratanpur, Phuldhudi, Amasaranga villages ➤ KVK have a Horticulture based a farming system(Fruits + paddy +Vermicompost+ Mushroom+ Poultry +vegetables+ Poultry) ➤ KVK scientists visited Watershed farm pond and plan to developed IFS model as per the need
11	KVK may promote Button mushroom in the district through training and exposure visit with the financial support of ATMA	➤ KVK has conducted training programme for rural youths on button mushroom cultivation.
12	Beneficiaries of Agricultural production clusters (APCs) may be trained on vermicompost production	➤ Selected the farmers from APC to trained on Vermicompost

Sl No	Recommendations	Action taken
13	Emphasis should be given to provide soil health cards to farmers	➤ Two awareness programme conducted on Soil Health camp involving 300 participants at Hemgiri and Tangarpalli block ➤ Collecting samples from adopted villages and OFT/FLD areas, ➤ 20 soil health card distributed to farmers on World soil day
14	KVK should work on various activities related to drought prone areas	➤ KVK worked on (IRRI) drought tolerance varieties like DRR- 44, DRR-42 & Sahabhagi Dhan. ➤ KVK has already conducted OFT & FLD on drought tolerant variety Swarna Shreya during 2019-20, 2020-2021 & 2021-22. Now it has been under seed chain. ➤ KVK linked with IRRI On farm-Trial on Assessment of seven rainfed upland paddy varieties (CO-51, CG-Barani, Soubur-Harshit, DRR-42, Tripura-Hakuchk, Swarna Shakti, Rajendra-Saraswati) under DSR at Kupatanga & Beheradihi village of Balisankara Block
15	OFT should be conducted on application of ICT on Agriculture and allied fields	➤ Demonstration has been taken on effectiveness of short technology videos on technology adoption for Integrated weed management and Nutrient management in Rice ➤ Video on nutrient & weed management in Rice has been prepared by KVK & sent via social media platforms
16	Production & productivity enhancement & value addition of millets should be promoted by KVK	➤ Crop cafeteria on 7 types millet has been established at KVK campus. ➤ Training has been conducted for scientific production & productivity enhancement of Ragi to 230 nos of farmers & farmwomen ➤ Massive awareness has been made through Kisan Mela, Group meetings & other extension activities ➤ One skill development training on value addition of millets will be held during January 2023. ➤ Awareness through millet food festival (International Womens' day-8th March 2022, Kisan Mela 26th April 2022, National campaign on nutrition 17th September 2022) ➤ Promoted Dhanalaxmi SHG producer group for millet processing & value addition
17	Seed production of local varieties of vegetables such as Black brinjal, chilli and bottle gourd etc. should be carried out in Nutri-gardens by SHGs with	➤ Local variety Bamra Chilli has been collected & demonstrated at KVK campus & supplied to RRTTS, Keonjhar for trial ➤ Local brinjal & chilli are being cultivated by

Sl No	Recommendations	Action taken
	awareness and training programme	WSHG in the KVK developed nutri-gardens in the villages
18	More no. of training programmes for farmers and farm women should be conducted	➤ 59 nos of training for F/FW, 13 nos for Rural Youth(3-5 days), 9 nos for Inservice personnel(2 days), 2nos training under Jalshakti Abhiyan in total involving 2340 participants
19	Impact of nutri-garden on various human health parameters should also be assessed in addition to yield and consumption pattern	➤ Consumption of vegetables pattern has been taken as parameter
20	Emphasis should be given to indentify farmers based on bee colony and honey production separately	➤ Till now 230 nos farmers producing honey and 4 to 5 farmers are separating the colonies from Bee box & supplying to others

Agenda-3 : Achievement made by the KVK

The Senior Scientist and Head presented the overall achievements made by the KVK for the period Rabi,2021-22 and Kharif,2022.

Summary of Achievements for Rabi, 2021-22 and Kharif, 2022

Rabi-2021-22				Kharif 2022		Total	
Activities	Category	No.of activity	Participants	No.of activity	Participants	No.of activity	Participants
Training	F&FW	35	1050	33	1030	68	2080
	Rural Youth	06	92	05	100	11	192
	Extension functionaries	5	100	04	90	09	190
	Sponsored	4	120	04	120	08	240
OFT		03	21	05	35	08	56
FLD		8	80	10	130	18	210
CFLD (Oilseeds)	Sesamum (Smarak)			1(20ha)	50	1	50

Extension Activities conducted (April to December' 2022)

Sl No	Total no of Activity	Total No of participants
1.	Farmers' Fair (BPKP)	150
2.	Farmers' Fair (BPKP)	55
3.	Akhaya Trutiya	100
4.	National campaign under Azadi ki Amrit Mahotsav	90
5.	ICAR Foundation Day	67
6.	Parthenium Week	40
7.	OUAT Foundation Day	25
8.	National campaign on Poshan Abhiyan & Tree Plantation	130
9.	Rastriya Mahila Kisan Diwas	30
10.	World Food day	67
11.	PM Kisan Sammelan	51
12.	Vigilance Awareness week	152
13.	Kisan Mela on Jal Shakti Abhiyan	320
14.	Constitution Day	15
15.	Agriculture Education Day	150
16.	World Soil Day	113

Agenda 4: Action plan for 2023(January to December)

Training Programmes to be Organised		
Type of Training	No proposed	No of participants
Farmers and Farmwomen	70	2100
Rural Youth	15	300
Extension Personnel	07	140
Total	92	2540
OFTs to be conducted		
Title of OFT	No Proposed	No of Participants
Assessment of nano-urea liquid fertilizer in transplanted rice	1	7
Assessment of Organic Inputs in aromatic Rice	1	7
Assessment of weed management in maize	1	7
Assessment of Decomposer for in-situ residue management in Rice	1	7
Assessment of the improved techniques for cultivation of Paddy straw mushroom (<i>Volvariella volvacea</i>) using crumpled straw	1	7
Assessment of different methods of production of paddy straw mushroom in winter	1	7
Assessment of the performance of FPOs with varied levels of task & commodity to enhance income	1	30
Total	7	72
FLDs to be conducted		
Title of FLD	No Proposed	No of Participants
Demonstration of Bunch feeding in banana for yield enhancement	1	10
Demonstration of INM in Brinjal	1	10
Demonstration of Integrated Nutrient Management in Tomato	1	10
Demonstration of Zn & B application in transplanted rice	1	10
Demonstration of Integrated Nutrient Management in Ragi	1	10
Demonstration on high yielding Ragi var- KMR-16 (TSP)	1	10
Demonstration on weed management in transplanted Rice	1	10
Demonstration on weed management in Blackgram	1	10
IDM practices for wilt complex in Brinjal	1	10
Demonstration on effectiveness of short technology videos on technology adoption for Integrated weed management and Nutrient management in Rice	1	20
Demonstration on Stocking of Growout ponds with yearlings	1	10
Nutritional Garden for nutritional security of farm families (TSP)	1	10
Demonstration on production of paddy straw mushroom in threshed straw for income generation.	1	10
Demonstration on oyster mushroom (<i>Hypsizygus ulmarius</i>) in threshed straw for income generation (TSP)	1	10
Demonstration on low-cost portable poly tunnel for seedling raising under TSP	1	10
Demonstration on rearing of honey bee under TSP	1	10
Demonstration on production of vermicompost for income generation under TSP	1	10
Demonstration on Marigold (Bidhan Marigold-2) cultivation	1	10
Total	18	190

Agenda – 5: Areas of improvements in KVK for enhancing its performance

- ❖ Farm development of rocky and undulating land areas to cultivable form
- ❖ Construction of new administrative building
- ❖ Furnishing of the Farmers' Hostel for more effective trainings
- ❖ Training hall to accommodate more than 100 nos. of participants.
- ❖ Filling of vacant scientific & technical staffs of KVK.

Suggestions of the members

The following action points were suggested by members of the SAC

1. In small pond based IFS model culture of fry to fingerlings should be included.
2. KVK should provide trainings and demonstration on value addition of millets to SHGs.
3. Demonstration of millets (Crop cafeteria) at KVK campus
4. Various Govt. schemes & programmes should be shared by line dept officials in R-E linkage meeting organized by KVK.
5. KVK should include training & awareness programmes on farm mechanization, water management, water use efficiency.
6. KVK should conduct demonstrations in small Dal mill & Oil mill and drudgery reducing farm implements.
7. Programme Asst (Fishery Science) should conduct at least one OFT on fishery.
8. KVK should conduct more no of OFT & FLD on millets
9. More no of training, awareness should be conducted on millets
10. Bee-Keeping should be promoted in the district.
11. Suitable agro-forestry models should be tested through OFT for different agro-ecological situations of the district.
12. Pineapple, Custard apple, stone apple etc should be tested under Sundargarh condition.
13. Species suitable for Bio-floc technology should be tested under Sundargarh condition.
14. Horesegram in rainfed delayed areas of the district.

Agenda – 5: Areas of improvements in KVK for enhancing its performance

Farm development of rocky and undulating land areas to cultivable form

- ❖ Construction of new administrative building
- ❖ Furnishing of the Farmers' Hostel for more effective trainings
- ❖ Training hall to accommodate more than 100 nos. of participants.
- ❖ Filling of vacant scientific & technical staffs of KVK.

Recommendation of SAC meeting:

The following action points were recommended in the SAC meeting.

1. KVK should provide trainings and demonstration on value addition of millets to SHGs.
2. Demonstration of millets (Crop cafeteria) at KVK campus
3. KVK should include training & awareness programmes on farm mechanization, water management and water use efficiency.
4. KVK should conduct demonstrations in drudgery reducing farm implements.
5. KVK should conduct more no. of OFT & FLD, Training & Awareness programmes on millets
6. Bee-Keeping should be promoted in the district.
7. Suitable agro-forestry models should be tested through OFT for different agro-ecological situations of the district. Pineapple, Custard apple, stone apple etc should be promoted in forest areas of the district.
8. Emphasis should be given for Horesegram in rainfed dryland areas of the district.
9. Turmeric and Ginger cultivation should be promoted in wild boar menace areas.
10. Demonstration on Pusa /NRRI decomposer should be conducted by KVK.
11. KVK should conduct training & demonstration on value addition of Oyster mushroom
12. Large scale awareness on vermicomposting should be done.
13. Scientists of KVK should participate in agriculture and allied programmes of AIR, Rourkela for better dissemination of technical knowledge to farming community
14. Off-season vegetable cultivation should be promoted in the district.

Laxmipriya Pradhan

Senior Scientist & Head
KVK, Sundargarh-I

[Signature]
29/03/2023
Dy. Director *[Signature]*
(UEBP)

Approved.

[Signature]
29/3/23

DEAN
Extension Education
OUAT, Bhubaneswar

List of Members present in the SAC Meeting

Sl. No.	Name	Designation	Status
1.	Dr. Hemanta Kumar Sahoo	Deputy Director Extension, DEE, OUAT, BBSR	Chairman
2.	Dr. Abhijit Halder	Principal Scientist, ATARI, Kolkata	Member
3.	Dr. Pramod Kumar Panda	Principal Scientist, IIWM, Bhubaneswar	Member
4.	Dr. Sanjukta Mohapatra	ADR, RRTTS, Chiplima, Sambalpur	Member
5.	Mr. Arun Kumar Sahoo	Dist. Fisheries Officer, Sundargarh	Member
6.	Mr. Tapas Behera	DDM, NABARD, Sundargarh	Member
7.	Mr. Lambodar Patel	ADO, Sundargarh	Member
8.	Mr. Don Bosco	LDM, Sundargarh	Member
9.	Mr. Pradeep Brahma	Secy, SEWAK, Sundargarh	Member
10.	Mr. Binaya Kulu	AIR, Rourkela	Member
11.	Mr. Rabindra Kisan	AIR, Rourkela	Member
12.	Mr. Birendra Pratap Singh	AIR, Rourkela	Member
13.	Mr. Samir Prasanna Naik	JFTA, O/o – DFO, Sundargarh	Member
14.	Mrs. Prabasini Chakra	DSWO, Sundargarh	Member
15.	Mr. Sekhar Lakra	Asst Exec. Engineer, MI Division, Sundargarh	Member
16.	Mrs. Chuleswari Patel	Programme Officer, Collectorate	Member
17.	Mr. Gopal Chandra Sukla	SMS, O/o-Div. Forest Officer, Sundargarh	Member
18.	Dr. S P Mohapatra	VAS, Subdega, O/o – CDVO, Sundargarh	Member
19.	Mr. Gangadhar Kisan	CEO, Chhedlagan FPCL, Sundargarh	Member
20.	Mrs. Kiranmayee Pradhan	ADS, Sundargarh	Member
21.	Mr. Hijikiya Ku. Harpal	CBT, Watershed, Sundargarh	Member
22.	Mrs. Rajalaxmi Das	CEO, SSFPCL, Kiakachhar, Sundargarh	Special Invitee
23.	Mr. Ashok Kumar Das	MD, SSFPCL, Kiakachhar, Sundargarh	Special Invitee
24.	Mr. Jatindra Barwa	Progressive Farmer, Kunmuru, Rajgangpur	Member
25.	Mrs. Ketaki Kalo	Women Progressive Farmer, Phuldhudi, Sundargarh	Member
26.	Mr. L. N. Jaypuria	Progressive Farmer, Jarangloi, Sundargarh	Member
27.	Mr. Prafulla Ku. Patel	Progressive Farmer, Samina, Sundargarh	Member
28.	Dr. Manasi Bhol	Sr. Scientist & Head, KVK, Sundargarh-II	Member
29.	Dr. Samir Ranjan Dash	Sr. Scientist & Head, KVK, Jharsuguda	Member
30.	Dr. Sajeeb Ku Biswasi	Sr. Scientist, RRTSS, Kirei, Sundargarh	Member
31.	Dr. Dibyendu Mondal	SMS (Agronomy), KVK, Sundargarh-1	Member
32.	Dr. Manoj Kumar Jena	Scientist (Soil Science), KVK, Sundargarh-1	Member
33.	Mr. David James Bage	Scientist (Ag. Extn), KVK, Sundargarh-1	Member
34.	Mr. Mudada Dibyanath	Programme Asst (Fishery Science), KVK, Sundargarh-1	Member
35.	Dr. Laxmipriya Pradhan	Sr. Scientist & Head, KVK, Sundargarh1	Member Convenor