

Proceeding of the Scientific Advisory Committee Meeting of Krishi Vigyan Kendra (KVK), Jajpur

The 9th Scientific Advisory Committee (SAC) meeting of Krishi Vigyan Kendra, Jajpur (Barchana) was held on 08.08.2014 in the conference hall under the chairmanship of Prof(Dr.) S.S.Nanda, Dean Extension Education, OUAT, Bhubaneswar.

Dr.(Mrs.) T. Pattnaik, Programme Coordinator after welcoming the members requested the chairman and other dignitaries to inaugurate the meeting by lighting the lamp. The Programme Coordinator requested DEE, OUAT to chair the session.

After a brief introductory remark, the chairman advised the Programme Coordinator to present the report as per agenda.

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

The programme Coordinator stated that the proceedings of the last SAC meeting were circulated to all the members. She also presented the proceedings in brief. The chairman after taking the consent of the members approved the proceeding.

AGENDA-2: Action taken on the proceeding of the last SAC meeting

The programme Coordinator presented the following action taken by KVK on the recommendation of 8th Scientific Advisory Committee meeting held on 19th July 2013

Sl .N o.	Recommendation	Action taken
1	Mineral mapping of forage in mining area for preventing Toxicosis and accurate mineral supplement recommendation	For mineral mapping of Jajpur district Dept. of Animal Nutrition of Odisha Veterinary College was contacted. AICRP on 'Improvement of Feed resources and nutrient utilization in Raising animal production' have already done mineral mapping of agro climatic zones of Jajpur district found the soil and fodder of Jajpur is deficit in calcium and phosphorous. About 70% of cows of Jajpur is found to have sub normal calcium & phosphorus levels in blood. As regards the micro nutritional status of district the Dept of animal nutrition has informed that area specific mineral

		mixture (ASMM) will be recommended in due course of time.
2	Popularisation of improved varieties of poultry bird among farmers	In the year 2013-14 more than 4500 no of birds were developed in KVK demo unit and given to the farmers for small scale rearing. These included improved varieties (for both egg and meat) such as Banaraja, Red Cornish, RIR, Black rock, Rain bow rooster. The farmers of different blocks i.e. Badachana, Korei, Sukinda, Dharmasala, Danagadi block were benefitted. KVK also tested 130 no of ducks under OFT programme during the year 2013-14 and conducted demonstration on Khaki Campbell (100no.) in farmers premises under FLD programme 2013-14.
3	Scented variety Geetanjali and Nua kalajeera to be included in ATMA Trials for larger area of adoption	Scented variety Geetanjali was undertaken in FLD programme in 1ha patch at village Sankha of Dharmasala block having average yield 45q/ha.
4	Value addition of fruit , vegetable and mushroom to be taken extensively by SMS(Hort.) and SMS(H.Sc.)	Four no of training programme conducted for selfhelp group i.e. on preservation of seasonal fruits, vegetables and mushroom.
5	Bimonthly meeting is to be organised at KVK with all officials of line departments, on different issues of the district. Strategic plan such as Entrepreneurship activity promotion of farmers group etc to be formulated.	Farmer scientist interaction programme was held at KVK with officers of line Dept, Farmers fair cum farmer scientist interaction programme organized at Niladeipur with Hon'ble Minister Panchayatiraj, Dean Extension Education, OUAT, Professors from OUAT and all line Dept. officials attended the function on 17.01.14. Celebration of district level Akhitrutiya was held at KVK campus on 02.05.14 where all District level officers , Hon'ble Collector as chief guest, PD,DRDA attended the function
6	Green gram variety SML-668 of should be horizontally spread among the farming community	Green gram variety SML- 668 was undertaken Under FLD on oilseed and pulse programme in 15 hectares of area in different places Abhayapur, Araikana and Bamphu of Dharmasala block.
7	The area under Kharif Onion should be increased for larger adoption. An exposure visit programme may be organised jointly by KVK and Horticulture Dept. taking interested farmers group to the onion growing area of the	The area under Kharif onion is 150ha. And this year exposure visit will be organized jointly by KVK and Horticulture Dept.

	state	
8	Quality seed, seedling and planting materials should be produced at KVK and farmers should be trained up to take seed production programme in the own field.	During the year 2013-14 181qtl of paddy seed (FS) (Pooja, MTU-7029, Sahabhagi dhan handed over to OSSC and one lakh seedling material (tuberose, marigold, chilli, brinjal, papaya, cauliflower, drum stick, onion) has been supplied to farmers.
9	Commercial crop like pointed gourd and marigold area to be extended	FLD on cultivation of marigold variety Seracole in 0.4ha area conducted and field day was conducted for diffusion of flower production technology. Commercial cultivation of pointed gourd area increased upto 2030ha and seedling raising training was imparted by KVK.
10	Two nos of poly house to be developed in KVK adopted village with the financial assistant of NABARD	2 no of low cost polyhouse was developed by KVK Jajpur in the district
11	Popularisation of Bio-agents for control of major pest of Sugarcane, Paddy and vegetable in the district. Project proposal may be submitted for the establishment of Bio control Unit at KVK. Two thousand nos of Bio-agent materials should be supplied by KVK to the farmers.	Popularisation of Bio-agents for control of major pest of Sugarcane, Paddy and vegetable was under taken by the help of biocontrol programme of Dept of Entomology (OUAT), in 100, 200, 100 ha respectively at Dharmasala block and 1000 no cards were distributed & released six times at 10 days interval, and 1Ha of FLD was taken by KVK at Niladeipur.
12	Publication of technical bulletins, leaflets and literature should be developed by each scientists of KVK with financial assistance from NABARD and ATMA.	10nos of technical bulletin, leaflets and literature on different technology has been developed by the KVK scientists. Proposal for publication of literature has already submitted to NABARD but no financial assistance released till now.
13	The farmers should be regularly updated with recent technologies through KMAS being finalised after discussing with DDA.	165 No of messages has been sent to 915 no of beneficiaries.
14	Popularisation of farm	For popularization of farm mechanization in large scale

	<p>mechanisation in the district to be extended in larger scale.</p>	<p>in the district different OFT, FLD and training programmes has been undertaken on improved machineries like tractor drawn rotavator, self propelled rice transplanter, self propelled vertical conveyor reaper, tractor drawn axial flow thresher, tractor drawn seed cum fertilizer drill, drum seeder, power paddy weeder etc.</p> <p>The area under drum seeder has been increased to 20 hectare. Around 30 no of tractor drawn seed cum fertilizer drill is now available in district. Area under tractor drawn seed cum fertilizer drill for sowing paddy has increased to 40 hectare and area for sowing greengram has also increased to 80hectare. Area under self propelled rice transplanter has also increased to 300 hectare in kharif and 80 hectare in Rabi. Tractor drawn rotavator sold in the year 2013-14 was 45. Area under vertical conveyor reaper for harvesting paddy also increased to 100 hectare. In the year 2013-14, 12no of axial flow thresher has been sold. Total no of combine harvester in district is 6 at present and area under combine harvester is around 400 hectare.</p>
<p>15</p>	<p>An Impact Assessment study to be undertaken on different technologies popularised by KVK since inception</p>	<p>Agricultural Engineering: The area under drum seeder has beenincreased to 20 hectare. Around 30 no of trator drawn seed cum fertilizer drill is now available in district. Area under tractor drawn seed cum fertiliser drill for sowing paddy has increased to 40 hectare and area for sowing green gram has also increased to 80 hectare. Area under self propelled rice transplanter has also increased to 300 hectare in kharif and 80 hectare in Rabi. Tractor drawn rotavator sold in the year 2013-14 was 45. Area under vertical conveyor reaper for harvesting paddy also increased to 100 hectare. In the year 2013-14, 12 no of axial flow thresher has been sold. Total no of combine harvester in district is 7 at present and area under combine harvester is around 400 hectare.</p> <p>Animal Science. Last year more than 250 no of farmers of Barchana block contacted KVK for information on color bird rearing. Out of these 85% were new and irregular farmers (Flock size 5-20). 12 % were small regular farmers (Flock size 30-50) and 3% were medium and regular farmers (Flock ize100-400). During the year 2013-14 KVK Jajpur developed and sold more than 4500 no of chicks to farmers. KVK also helped farmers procure and equal no of birds for brooding and</p>

	<p>developing at farmers own premises. Impact assessment was done in 3 areas.</p> <p>Introduction of new farmers to colour bird rearing After contact with KVK through training, scientist farmer interaction programmes, farmers visit to KVK about 30% on new farmers started rearing developed birds on regular basis in numbers ranging from 5-20 for periods ranging from 3 months through egg laying stage. They made arrangements for separate sanitary housing and feeding of birds feeders and drinkers.</p> <p>Up gradation of existing small farmers to higher stock size rearing Farmers who were previously rearing birds with capacity of 30-50 were encouraged to go for higher capacity rearing though improved feeding and marketing practices. About 50% of farmers improved their stock size from 40-50 to 80-150 depending on market demand.</p> <p>Up gradation of farmers with higher stock rearing to capacity for brooding and improved marketing. A small number of farmers were confident to go for brooding of their own day old stock which was in the range of 150-200. They were motivated to go for higher rearing capacity for specific occasions when the market demand is high such as Raja, Chhadkhai and Holi. Most of them concentrated on these occasions with by increasing capacity from 20% to 100% KVK helped them procure day old chicks from government hatcheries.</p> <p>Home Science: FLD, OFT and training programmes of KVK Jajpur were focused on development of entrepreneurial skills for mushroom cultivation and value addition of agricultural products. KVK activities directly benefitted 362 persons from 51 villages of the district in mushroom cultivation. Programme on value addition of agricultural produces benefitted 164 nos farm women belonging to 31 villages. KVK also gave emphasis on development of nutritional gardens for security on nutrition. On this aspect 292 persons of 28 villages adopted the technology.</p>
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AGENDA-3: Achievement made by KVK

The Programme Coordinator presented the overall achievement of the KVK during Kharif 2013 emphasizing the district profile and outreach of KVK in the district. Detail report is presented below.

1. ON FARM TESTING

Problem diagnosis	Title of OFT	Crop & enterprises	No of Trials	Result (Yield q/ha)		Increase in yield (%)	Cost of cultivation		Net return		B.C. ratio
				Farmer practice T1	Rec. Tech T2		T1	T2	T1	T2	
Low yield due to old variety Lalat	Assessment of paddy variety "Hiranyamayee"		13	36.2	45.5	25.69	29300	29300	15950	27575	1.9
Low yield due to imbalanced nutrition in groundnut	Assessment of sulphur application in groundnut.	G.nut	13	13.5	15.6	15.5	30100	31000	23900	31400	2.01
Proper land preparation is not done by using tractor drawn nine tyne cultivator	Assessment of performance of tractor drawn rotavator	Enterprise	13	42.3	44.9	6.15	26420	24920	26455	31205	2.25
Manual weeding	Assessment of	Enterprise	13	42.8	43.4	-	2836	2646	25140	2779	2.05

in rice is cost intensive due to labour scarcity and high wages ,	performance of power paddy weeder						0	0		0	
Heavy pest attack on paddy causes low yield	Assessment of Integrated management practices to control of yellow Stem Borer in Paddy	Paddy	13	38.9	45.3	16.5	28890	32560	21680	26330	1.8
Yield losses due to heavy disease incidence	Assessment of IDM practices for control of leaf curling in chili	Chilli	13	85.3	110.8	29.89	65430	68950	62520	97250	2.4
Low birth weight and high mortality rate in kids	Effect of balanced feeding in pregnant and lactating does.	Goatary	13 (26 no of goats)	Weight at birth 1.6 kg Morbidity rate 36% Weight at weaning 2.3kg	Weight at birth 1.9 kg Morbidity rate 14% Weight at	19% (change in weight)	Rs 550 / 2 does / 45 days	Rs 750 / 2 does / 45 days	1500	2300	3.73

					weaning 2.8 kg						
Higher incidence of diseases due to climatic stress	Assessment of scientific rearing practices on poultry diseases caused by climatic stress.	Poultry	13 (130 no)	Disease incidence 60% Mortality rate 60%	Disease incidence rate 20% Mortality rate 5%						3.07
							Rs 600 / 10 birds	Rs 650/10 birds	400	1350	
Low egg laying capacity of country bird.	Assessment of Blackrock poultry in semi intensive system	Income generation	13	Body weight 7.5 kg/ 10 nos of birds	Body weight 33.0 kg/ 10 nos of birds	340	Rs 400/ unit	Rs 700/u nit	Rs 2100/u nit	Rs 4250 /unit	4.5

Front Line Demonstration:

Technology demonstrated	Name of Crop/ Enterprise	Area	Result q/ha		% change	Cost of cultivation		Net returns		B.C. ratio
			RP	FP		RP	FP	RP	FP	
			Demonstration of post	Paddy			45.8	39.2	16.83	

emergence weed controlling by Almix		1 ha								
Demonstration of Zinc Sulphate application in medium land transplanted paddy.	Paddy	1ha	45.6	39.5	15.44	29300	2700	27000	22375	1.94
Demonstration on Boron application in Brinjal.	Brinjal	1ha	251	218	15.13	55000	52000	95600	78800	2.73
Demonstration on Groundnut variety Devi with proper management practices	Groundnut	5 ha	15.7	12.5	25.6	31000	30100	31800	19900	2.02
Demonstration on Blackgram variety T-9	Blackgram	5 ha	6.3	5.1	23.52	14000	12000	14350	10950	2.0
Demonstration on application INM in Papaya	Papaya	0.4	473	569	33	20800	218700	62400	118700	1.54
Demonstration on cultivation of Tuberose var. pearl	Tuberose	0.2 ha	42	29	44	89200	59632	50300	20768	1.56
Demonstration on use of drum seeder	Enterprises	1 ha	44.3	42.8	3.5	24400	29650	30975	23850	2.27

Demonstration on use of bullock drawn puddler-99	Enterprises	1 ha	45.2	42.4 (puddling index)	33.6 (puddling index)	28580	30580	27920	22670	1.98
Demonstration on management of early shoot borer in sugarcane	Sugarcane	1.0	115.2	95.9	20	89950	87520	185440	167480	2.5
Demonstration on management of wilting in Brinjal	Brinjal	1.0	259	228	13.5	81250	76540	125950	105860	2.6
Demonstration of scientific rearing practices in small scale poultry production.	Poultry	5 small poultry units (100 birds)	Mortality rate 16% 320 gms	Mortality rate 60% Body weight after 1 month 200 gms	73% 60%	Rs 940/20 birds/brooding	Rs560/20 birds/brooding	Rs 340 /20 birds	Rs 80 /20 birds	1.36
Demonstration of health management in kids.	Goatary	5 farmers (15 no of kids)	Number of kids surviving up to 6 months (%)= 79 Body weight 6 month	Body weight 79 9.7 kg	8.6% 13%	700-	400	1062	600	2.51

			h=8.6 kg							
Demonstration seating type groundnut decorticator	Enterprises	-	Decorticating capacity 29 kg/hr	2.5 kg/hr	% change 1160	-	-	40800	39200	2.04

TRAINING ACHIEVEMENT UP TO SEPTEMBER 2013

Type	Achievements		
	Number	Duration	No of participants
Farmers and Farm women	13	13	325
Rural youth	02	04	40
Total	15	17	365

3. Other Extension Activities:- Besides the mandatory activities KVK has also conducted other extension activities like one number of SHG conveners meeting, Celebration of Akshyatrutia, Parthenium awareness week special day celebration, 5 nos of club meeting, 8 nos of film show, 10 nos of group meeting, Farmers scientist interaction programme, 2 nos of News letter and 3 nos of booklets published, 78 no of Kisan Mobile Advisory sent benefiting 800 nos of farmers.

.AGENDA-4: Action Plan Kharif-2014

The Programme Coordinator and the scientists presented the Kharif action plan 2014 particularly for the adopted village as well as KVK operational area.

Activity	Target	
	Number of Activity	Number of farmers/beneficiaries
Total Number of Technologies Assessed/ Refined		
Total Number of On-Farm Trials	13	161
FLDs - Oilseeds activity in ha (Ground nut)	5	13
FLDs - Pulses activity in ha (Greengram)	5	13
FLDs - Other than Oilseed and pulse crops(activity in ha)	15	73

Training-Farmers and farm women	20	500
Skill training	8	200
Training- Extension functionaries	3	160
Extension Activities	600	6500
Seed Production (Number of activity as seeds in quintal)	175 qtl	
Seedling/Planting material ((Number of activity as quantity of planting material in quintal)	5000	-
Mushroom paddy straw	2 qtl	
Mushroom spawn bottle	700	
Sapling Production (Number of activity as number of sapling in numbers)	-	-
Other Bio- products (Vermicompost in Qt)	10	
Live stock products(poultry)	2000 no	
SAC Meeting (Date & no. of core/official members)	1	
Newsletters (no.)	2	100
Publication (Research papers, popular article)	3	1500
Convergence programmes / Sponsored programmes	2	
KVK -ATMA linkage	2	
Soil and water sample tested	400	400
KMA(no of message and beneficiary)	55	1000
Outreach of KVK in the District (No. of blocks, no. of villages)	5 blocks 20 villages	6700

The Dean Extension Education discussed on the performance of KVK activities and suggested to take steps on issues relating to plant protection measures in major field and horticultural crops in the district. He stressed open integrated farming, entrepreneurship development and secondary agriculture. Production of quality seed, seedling & planting materials in the KVK must be given importance and farmers should be trained to take seed production and planting material production in their own field. He also emphasized that the FLDs and OFTs must be executed with proper guidance and close supervision of KVK scientists as well as line department officials particularly during critical stages of the crop. Impact study must be given almost importance.

AGENDA-5: Constraints of the KVK

The Programme Coordinator pointed out the constraints of the KVK and drew kind attention of the Chairman and members of the house

- a. Delay in external electrification leads to poor irrigation facility in farm.
- b. Absence of proper drainage facility results water logging situation during rainy season.

Dean Extension Education, OUAT, DDA, Jajpur , AGM NABARD released KVK News letter, KVK year planner, booklet on Organic farming, C.D. on nursery raising techniques & pointed gourd cultivation. All the line department officers given their views on KVK activities.

In his concluding remarks Dean Extension Education advised the Scientist of KVK and all Govt officials work together for the benefit of the farmers of the district.

Salient Action points:-

1. Use of Bio-agents should be more popularised. At least Five thousand no of bio-agent materials should be supplied by KVK to farmers.
2. Production and supply of vermicompost and vermiworm in high quantities in the KVK farm.
3. The area under kharif onion should be increased for larger adoption.
4. Area under pointed need to be extended.
5. Value addition of fruit, vegetable should be done by SMS (Home Sc.)and SMS (Horticulture)
6. Training on preparation of mushroom soup power need to be imparted to SHG members.
7. Bimonthly meeting is to be organized at KVK with all the line Dept. Officials.
8. Popularisation of farm mechanisation in larger scale in the district.
9. Proposal to be given to the DDA for establishment of bio control lab in the district.
10. Publication of technical bulletins such as leaflets , booklets by KVK scientist to be done with financial assistance from NABARD.
11. Soil analysis should be done by organising soil health camps involving Govt. Officials.
12. Animal health camps should be organised involving Govt. officials.
13. Green gram variety (TARM-1) should be popularised among farmers.

14. Need based training programme should be conducted specially in Fishery sector.
15. Impact study to assess adoption of improved technologies & changes in income of poultry farming particularly in backyard poultry need to be conducted.

The meeting ended with vote of thanks offered by SMS (PP).

MEMBERS PRESENT IN SAC MEETING

Sl.No	Name	Designation	Remark
1.	Prof. Sankarsan Nanda	DEE, OUAT, BBSR	Chairman
2.	Mr. Rajib Lochan Das	DDA, Jajpur & PD ATMA	Member
3.	Mr. Aditya bikram Rath	AGM, NABARD	Member
4.	Dr. Shiv Mangal Prasad	PC,KVK, Cuttack	Invitee
5.	Mr. Bimalkanti Raptan	DAO, Jajpur	Invitee
6.	Dr. Amresh Khuntia	ADR,RRTTS, Ranital	Member
7.	Mr. Gourang charan Panda	PD, W/S Jajpur	Member
8.	Mr. Sarada Prasana pattanik	D.M Agro industries cropn, Jajpur	Member
9.	Mr. Ambika Prasad Nayak	SMS (Fy.Sc.) KVK, Bhadrak	Invitee
10.	Mr. Prasana Kumar Bisoi	Asst. Fishery Officer	Member
11.	Mr. Soumyashri Das	Progressive Farmer	Member
12.	Mr. Mahendranath Sahoo	Progressive Farmer	Member
13.	Mrs. Kusum Maharana	CDPO	Member
14.	Mrs. Swarnalata Das	M.S Coordinate	Invitee
15.	Mrs. Pramila Jena	Progressive farm women	Member
16.	Mrs. Renuka Mallick	Progressive farm women	Member
17.	Mr. Niranjana Dash	P.P.O, Jajpur	Invitee
18.	Mr. Bhagyadhar Sahoo	AAO, Dharmasala	Invitee
19.	Mr. Santosh Kumar Kar	D/C NFSM, Jajpur	Invitee
20.	Mr. Prabhat Kuamr Samal	SPO, Cuttack	Member
21.	Mr. B.M. Satpathy	FIC, DRDA	Invitee
22.	Mr. J.B. Nayak	LDM, Jajpur	Member
23.	Mr. Pradyuta Kumar Pattnaik	Asst. Agril Engineer, Dharmasala	invitee
24.	Mr. Ramesh Chandra Nanda	AAO, Barchana	Invitee
25.	Mr. Prahallad Sahoo	DAO, Jajpur road	Invitee
26.	Mr. Bijaya Kumar Rout	Asst. Horticulture Officer, Dharmasala	Member
27.	Dr. Santosh Kumar panda	B.V.O, Barchana	Member
28.	Mr. Maheswar Rout	E.TV Jajpur	Media Representative special invitee
29.	Dr(Mrs) Tilottama Pattnaik	PC,KVK, Jajpur	Member Secretary