

**PROCEEDINGS OF THE 19th SCIENTIFIC ADVISORY COMMITTEE MEETING OF
KRISHI VIGYAN KENDRA, RAYAGADA, GUNUPUR.**

The 19th Scientific Advisory Committee meeting of KVK, Rayagada was held at 11 AM on dt.16.02.2024 in offline-online mode at KVK instructional farm, Gunupur under the Chairmanship of Dean Extension Education Prof. Prasannajit Mishra, Directorate of Extension Education, O.U.A.T, Bhubaneswar & Dr. P.K Mohanty, Deputy Director, DEE participated in the meeting as Co-Chairman. Dr. K. S. Das, Principal Scientist, ICAR- ATARI, Kolkata attended the meeting.

After an introductory remark on agro-scenario of the district, Chairman briefed participants about the importance of the meeting and participation of the members. Then he asked Sr. Scientist & Head to start the proceedings as per the agenda.

Agenda – 1: Approval of the proceedings of last SAC meeting.

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

Action taken on the proceedings of the last (18th) SAC meeting.

The Senior Scientist & Head presented the actions taken by the KVK on the recommendation of the last SAC meeting as follows:-

Salient recommendations of last (18th) SAC and action taken.

Sl. No.	Recommendation of last year SAC meeting	Action Taken
1.	Organic management as well as ITK practices may be tested in addition to chemical one for FLDs and OFTs of Plant Protection discipline.	<ul style="list-style-type: none">• Brinjal plot with organic management of disease pest has been trialed in crop cafeteria at KVK campus.• Assessment of management of wilt complex in tomato by using Jivamrita and Bijamrita is continuing in 7 locations covering 3 villages (Rupapadar, Ghanatri, Gugurpang).• No. of trainings conducted (Disease pest management using broad spectrum botanicals) – 3 No. of Villages covered -5 Nos. of farmers and farm women covered-82

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.	<ul style="list-style-type: none"> • In addition to demonstration on backyard poultry of different dual purpose breed (Vanaraj, Kadaknath, Vezaguda, RIR), training on feed management housing management and disease management has been conducted in convergence with district department. • Poultry demo unit with different breeds is maintained at KVK campus for visiting farmers& farmwomen. • Awareness is created on Govt. schemes attached to poultry rearing for income enhancement of farmers, farm women and SHGs. • Poultry rearing as income generating activities for SHGs & No of trainings conducted- 2 No. of villages covered- 17 No. of farmers and farm women covered- 163
3.	Demonstration on Crossandra cultivation should be taken up as an income generating activity for farmers, farm women and SHGs.	<ul style="list-style-type: none"> • Awareness programme on cultivation of Crossandra as income generating activity for SHG & farm women arranged in different villages of Kuturu, Khadasi, Sinjamguda, Gunupur, Putasing, Pradhaniguda. • Training on scientific cultivation of Crossandra with emphasis on it' spost harvest handling for higher profitis also arranged in Khadasi& Srirampur involving farmers, farm women and SHG group . • Exposure of SHGs women to Crossandra field of Mr. B. Krishna of Gunupur and Mr. K. Siba Kumar of village Kuturu also has been conducted. No. of trainings conducted- 3 SHGs covered- 4 No. of villages covered: 7
4.	KVK is suggested to go for diversification in thematic areas for its mandatory activities. .	<ul style="list-style-type: none"> • Availability of 3 nos. of scientists i.e Plant Protection, Agril. Extension, Agril. Engineering has limited the coverage of diversified thematic areas in OFT FLD (fishery, livestock). • However training has been conducted in multifarious theme in liasoning with district departments and resources from ring partners. • With posting of scientist from Livestock management, Fishery, Horticulture and Soil Science discipline KVK will be able to cover diversified field in agriculture and allied sector. •

5.	For higher adoption of IFS unit by farming communities in district, exposure visit of farmers to model IFS units may be placed in action plan.	<ul style="list-style-type: none"> • IFS units has been maintained at farmers field with regular technological support, guidance and supervision of KVK scientists. • In addition to it training programme on scientific management of IFS and a number of awareness programme also been conducted covering different blocks to increase knowledge of the farmers& farm women and motivate them for adoption of IFS units in higher scale. • Exposure visit of 25 nos. of farmer is also been organized to model IFS units at Ramanaguda and Gunupur. No. of trainings conducted- 8 Farmers and farm women covered- 224 No. of villages covered- 8 (Srirampur, Tikarpada, Kotur, Rupapodar, Pradhaniguda, Khilapodar, Omding and Laxmipur, Gumuda).
6.	Demonstration on cultivation of Arka Samrat should be conducted for its higher yield.	<ul style="list-style-type: none"> • Demonstration on triple resistant tomato hybrid Arka Samrat conducted at 4 location during Rabi,2022-23. • Seedlings of this variety has been supplied to farmers and farm women under TSP programme during kharif and Rabi, 2023-24. • In convergence with IIWM, farmers and farm women of Khaira village has been technologically supported for cultivation of this variety. • However on demand of the farmers/ farm women, KVK will supply the seedlings of triple resistant tomato hybrid Arka Samrat. No. of trainings conducted- 2 Farmers and farm women covered- 120 No. of villages covered- 12
7.	Farmers, farm women, rural youth and SHGs should be trained on income generating activities suitable to local condition.	<ul style="list-style-type: none"> • Training on vermin compost preparation, honey bee rearing, mushroom cultivation, value addition of millet, floriculture, backyard poultry rearing has been taken up on regular basis under income generating activities. • During 2024 a number of programme will be conducted on value addition on tamarind, cashew apple, pine apple, jack fruit etc. No. of trainings conducted- 16 Farmers and farm women covered- 750 No. of villages covered- 23

8.	More numbers of capacity building programme on mushroom cultivation and its post harvest management should be carried out.	<ul style="list-style-type: none"> • As per the approved action plan KVK is approaching to cover maximum blocks through cultivation of both paddy straw and oyster mushroom. • It is the only institution in the district who is making availability of quality spawn throughout the year. • During 2023-24, trainings on mushroom cultivation with emphasis on spawn production and post harvest management conducted in convergence with different institutions. • This year with availability of RKVY funding skill training will be imparted enrolling beneficiaries from 11 blocks. <p>No. of trainings conducted- 16 Farmers and farm women covered- 2127 No. of villages covered- 54</p>
9.	Ongoing and upcoming events of KVK activities should be uploaded regularly.	<ul style="list-style-type: none"> • Ongoing activities are being uploaded regularly in KVK website and ICAR portal. • Training calendar is also uploaded for prior information on upcoming training schedule. However care has been taken for uploading the upcoming event.
10.	Impact on successful technologies has to be documented and communicated to district for references.	<ul style="list-style-type: none"> • Documentation of success stories of farmers through KVK intervention is a regular mandatory activity. Example of doubling farmers income (110 nos.) has been documented and communicated to ICAR-ATARI, Kolkata. • During SAC meeting we are also presenting some success in farmers' field through adoption of scientific practices.

Agenda-2: Achievements made by the KVK:

The Sr. Scientist & Head presented the overall achievements made by the K.V.K during the period Rabi- 2022-23 & Kharif-2023 & Rabi-2023-24 and action plan for 2024-25.

Summary of achievements for Rabi- 2022-23 and Kharif-2023

- 1. Trainings-** KVK has conducted 45 nos. of trainings for practicing farmers and farmwomen, 12 nos. of rural youth trainings and 4 nos. of in-service trainings involving 1390 nos. of beneficiaries.

2. On Farm Testing—A total of 6 nos. of OFTs were conducted on assessment. of weed management in onion, assessment of poultry breed in backyard, assessment of different planting times for better market price of tomato, assessment of medium duration rice varieties under rainfed condition, assessment of sucking pest management in chilli, assessment of humidity management in paddy straw mushroom production involving 38 nos. of farmers and farm women during Rabi- 2022-23 & Kharif-2023.

- In assessment of weed management in onion TO₁ : Application of oxyfluorfen 23.5 EC @ 2 ml/lt with one manual weeding at 40-60 DAT weed population reduced 63% and WCE increased 72.88% over farmers' practice.
- In assessment of poultry breed in backyard TO₁- Backyard rearing of Poultry breed "RIR" recorded increase in meat 117.7% followed by Poultry breed "Vezaguda" 98.6% higher yield over farmer's practice.
- In assessment of different planting times for better market price of tomato. TO₂- Planting of seedlings 1 month after completion of normal planting period, resulted higher BC ratio 4.47 than normal planting time followed by farmers i.e planting in the month of November with BC ratio of 4.09.
- In assessment of medium duration rice varieties under rainfed condition TO₁- Kalinga Dhan 1203 recorded 11.2% higher yield than FP var. MTU 1001 with BC ratio 1.69.
- While assessing sucking pest management in chilli TO₂-Seed treatment with Imidachloprid 600FS @ 5ml /kg seed and Foliar spraying of Spiromesifen 22.9% SC @ 0.8 ml/ llt of water twice at 30 and 45 DAT proved to be more effective than TO₁- Foliar spray of Spiromesifen 22.9% SC @ 400 ml/ha & 89% reduction in pest infestation over FP is also recorded.
- In assessment of humidity management in paddy straw mushroom production. TO₂- Mushroom production by using bundled paddy straw substrate (3 layers) with Installation of Fogger and hanging of folding type of Gunny bag outside the shade net resulted highest mushroom i.e 0.8 kg / bed with BC ratio of 2.4 in comparison to FP with mushroom yield 0.35 kg/bed & BC ratio of 1.26.

3. Front Line Demonstration- KVK has conducted 10 nos. of FLDs i.e demonstration of HYV Ragi var. Arjuna, demonstration on weed management in Maize, demonstration on sheath blight management in rice, demonstration on pod borer management in pigeon pea, demonstration on nutritional garden for Improving Nutritional Security of farm family, demonstration on integrated weed management in groundnut, demonstration on INM in Blackgram, demonstration on collar rot management in groundnut, demonstration on backyard poultry breed Sonali & demonstration on scientific honey bee rearing.

- In demonstration of HYV Ragi var. RP-.Arjuna gives 37.6 % more yield than farmers existing variety Budha mandia and higher BC ratio 1.67 as compared to FP is 1.33.

- In demonstration on weed management in Maize, RP-Pre-emergence application of Atrazine 50 % wp @1.0 kg ai/ha followed by Tembotrione 287.5 ml/ha at 21 DAS (4-5 leaf stage) + one hand weeding at 40DAS resulted in 31% decrease in weed density in demo. plot as compared to FP as well as increase of BC ratio from 1.38 to 1.68.
- Approx. 27% reduction in control of sheath blight as well as 31% higher yield was recorded over farmers' practice in RP- Spraying of the combination fungicide Azoxystrobin+ Difenconazole @ 1ml./l. twice at 15 days interval starting from initiation of the infection in demonstration on sheath blight management in rice.
- In demonstration on pod borer management in pigeon pea, RP- Maize as border crop, installation of pheromone traps & helilure @ 20 nos./ha, Spraying of Azadiractin 0.15% at 50% flowering followed by Flubendiamide 48SC at pod formation stage and Bt at 15 days intervals gives 39.13% more yield and increase in BC ratio from 1.86 to 2.24 than farmers practice.
- In demonstration on nutritional garden for Improving Nutritional Security of farm family RP-Nutritional Gardening in proper lay out involving vegetables(Spinach, Amaranthus, Coriander, Green peas, Carrot, Broccoli, Radish, Tomato, Onion, Cowpea, cucurbits and one drumstick) and fruits (Two Papaya Plants, One Lime and two Banana) for getting available nutrition year round recorded 75.7% increase in daily intake of vegetable/day /head and increase in BC ratio to 2.05 in comparison to FP with BC ratio 1.6.
- To address the problem of collar rot incidence in ground nut through seed treatment with (Carboxin 37.5% + Thiram 37.5 %) @ 2.5 g/kg seeds and alternate spraying with Chlorothalonil 75% WP @ 1.5 g/L and Carbendazim 2 g/L at 15 days interval resulted 69% reduction in disease instances and 31.09% increase in yield.
- In demonstration on integrated weed management in groundnut, pre-emergence application of pendimethalin 30% + imazethyper 2% @1.0 kg/ha ready mix fb post emergence application of quizalofop-p-ethyl @50g/ha at 20 DAS gives 19.7 % more yield than farmers' practice and it has higher BC ratio 1.95 as compared to FP is 1.73.
- In demonstration on INM in Blackgram use of soil test based fertilizers application+ organic integration (FYM @ 5t/ha or vermicompost 2.5t/ha) + seed inoculation of Rhizobium @1.25kg/25 kg of seed.resulted 17.85 % more yield than farmers' practice and it has higher BC ratio of 1.74 as compared to FP is 1.62.
- In demonstration on scientific honey bee rearing with *Apis cerana indica* RP -Regular and periodic bottom board cleaning, maintaining healthy and populous colony, regular and periodic dearth feeding, removal of old combs and allowing new comb construction, need based brood comb alteration and need based colony union or division fetched an additional income of Rs. 3600.00 / box/ year to the farmer & farmwomen.
- Demonstration on Poultry in backyard about 62% increase in meat and 51% increase in egg is recorded in poultry breed Sonali in comparison to local breed

Other Extension Activities:-

Sr. Scientist & Head indicated that apart from the regular demonstration and training activities, KVK has also conducted 1111 nos. of extension activities covering about 64306 nos of beneficiaries which includes field days, kisan melas, soil testing campaign, diagnostic field visits, Kissan gosthi, Radio & TV talk, Ex-trainees sammelon etc.

Cluster Front Line Demonstration: Cluster Demonstration on Pigeon pea var, LRG-52 was conducted in 40 ha. area covering 100 nos. of beneficiaries. Improved package of practices has been demonstrated for increasing the productivity of Pigeon pea var. LRG-52 during Kharif 2023. Average yield obtained is 12.1 q/ha as compared to 8.2 q/ha in farmers' practice.

Cluster Demonstration on Groundnut was conducted in 20 ha. area enrolling 50 nos. of beneficiaries. Improved package of practices has been demonstrated for increasing the productivity of Groundnut var. Smruti (OG 52-1) & var. Nithya Haritha during rabi 2022-23 & Kharif 2023 with an average yield of 19.8 q/ha and 19.7 q/ha respectively as compared to 14.6 q/ha and 14.5 q/ha in farmers practice .


Agenda-3: Action Plan, 2024-25

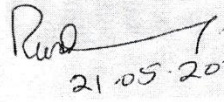
- 1.Training-**The Sr. Scientist & Head presented the detailed action plan of KVK for the year 2024-25 which includes 54 nos. of F/FW training programmes, 12 nos. of RY trainings 06 nos. of IS trainings covering 1590 nos. beneficiaries.
- 2. On Farm Testing-**Total 6 nos. of OFTs will be conducted viz. assessment of medium duration rice varieties under rainfed condition, assessment of high yielding varieties of sesame, assessment of management of wilt complex in tomato by using Jivamrita and Bijamrita, assessment of Brinjal fruit and shoot borer management, assessment of humidity management in paddy straw mushroom production & assessment of processing and packaging methods of Jackfruit.
- 3. Front Line Demonstration-** In a total 12 nos. of FLD will be conducted viz.demonstration on weed management in maize,demonstration of high yielding fodder varieties for round the year production,demonstration on Integrated Nutrient Management in Cabbage, demonstration on integrated weed management in groundnut, demonstration on sucking pest management in chilli,demonstration on fruit borer management in okra,demonstration on Anthracnose disease management in Mango,demonstration on collar rot management in groundnut,demonstration of nutritional garden for Improving Nutritional Security of farm family,demonstration on preparation of value added product from Tamarind,demonstration on brooding management in chicks, demonstration of oyster mushroom *Blue oyster* in winter.


Suggestion of SAC members:

Following action points were suggested by members of the 19th SAC:

- KVK should give emphasis on drought tolerant varieties in demonstrations.
- Technologies with reference to crop diversification should be given priority.
- More number of farmers should be trained on orchard management in district.
- Varieties suitable under perennial fodder cultivation are to be included in demonstration. Super Napier can be placed in crop cafeteria.
- Farmers and farmwomen should be trained on brooding management of day old chicks with supply of chicks under TSP programme.
- More number of farmers should be covered in training and awareness on soil health management with emphasis on improvement of soil fertility and subsequently high return.
- SHGs may be trained on flower cultivation for economic empowerment.
- More and more villages are to be covered in paddy straw mushroom training programme.
- Strawberry cultivation may be introduced in district through KVK activity.
- Awareness programme on Kissan App and e-NAM App may be arranged for farmers and farmer women.


Sr. Scientist & Head
K.V.K, Rayagada


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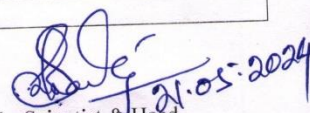
Annexure: I

Members participated in the 19th SAC Meeting on Dt.16.02.2024

Sl No	Name	Designation and address	Status
1	Prof. P.J. Mishra	Dean, DEE, OUAT, Bhubaneswar	Chairman
2	Dr. P.K. Mohanty	JD, UEBP, DEE, OUAT, Bhubaneswar	Co- Chairman
3	Dr. K.S.Das	Principal Scientist , ICAR, ATARI, Zone-V, Kolkata	Member
4	Dr. R. Devrajan	IISWC, Koraput	Member
5	Mr. Manoj Pradhan	CDAO-cum-PD ATMA, Rayagada	Member
6	Mr. Dayanidhi Rout	DDH, Rayagada	Member
7	Mr. Hadibandhu Bhoi	CDVO, Rayagada	Member
8	Dr. Gyanaloka Das	ADR, RRTTS, Kandhamal	Member
9	Mr. Santosh Ku. Samal	DDM, NABARD	Member
10	Purnapriya Saura	AFO, Gunupur	Member
11	Dr. Dayanidhi Bag	PD, watershed	Invitee
12	Brundaban Behera	ADO, Gunupur	Invitee
13	Jagannath Bindhani	ADH, Gunupur	Invitee
14	Satyabrata Sahu	AHO, Gunupur	Member
15	Ramakanta Mohapatra	PA, ITDA	Member
16	Dalapati Karjee	Secretary RMC	Member
17	Dharmaraj Samal	Soil Conservation Overseer	Member
18	Sushama Prasadi	CDPO, Gunupur	Member
19	Tanmaya Mohapatra	Assistant Field Officer, WOTR	Member
20	Niladri Sabara	Farm women	Member
21	Jayanti Nimalu	Farm women	Member
22	Chandra Shekhar Sabara	Farmer	Member
23	Raghunath Gamango	Farmer	Invitee
24	Bibhu Prasad Satpathy	Reporter, Dainika Asha	Invitee
25	Mr. Sanjib Ku. Mandi	SMS (Agro.)	Member
26	Narayana Sabara	President, FPO	Member convener
27	Dr.(Mrs) Susmita Mohanty	Sr. Scientist & Head, K.V.K., Rayagada	

Others attended the SAC meeting

1	Mr. Rajib Tudu SMS(Plant Protection.),KVK, Rayagada
2	Dr. Naram Ramu SMS(Agro.),KVK, Rayagada
3	Miss. Himadri Bag. Scientist (Agrometrology)
4	Mr. Parimal Tarai, Programme Assistant


Sr. Scientist & Head
K.V.K, Rayagada

ଗୁଣପୁର ଠାରେ ଉନ୍ନବିଂଶ ବୈଜ୍ଞାନିକ ଉପଦେଷ୍ଟା ମଣ୍ଡଳୀ ବେଠକ ଅନୁଷ୍ଠିତ ।

16 FEBRUARY 2024 ● HITS: 132 RATING: ★ ☆ ☆ ☆



ଗୁଣପୁର : ୧୨/୨/୨୪ : ଆଜି କୃଷି ବିଜ୍ଞାନ କେନ୍ଦ୍ର ଗୁଣପୁର ଠାରେ ଉନ୍ନବିଂଶ ବୈଜ୍ଞାନିକ ଉପଦେଷ୍ଟା ମଣ୍ଡଳୀ ବେଠକ ଅନୁଷ୍ଠିତ ହୋଇଯାଇଛି । ଉକ୍ତ ବେଠକରେ ଡଃ.ପ୍ରସନ୍ନ କୁମାର ମହାନ୍ତି (ଡେପୁଟି ଡାଇରେକ୍ଟର ଅଫ୍ ଏକ୍ସଟେନ୍ସନ, ଓୟୁଏଟି, ଭୁବନେଶ୍ୱର) ଅଧ୍ୟକ୍ଷତା କରି କୃଷି ବିଜ୍ଞାନ କେନ୍ଦ୍ର ଆହୁରି କିପରି ଲୋକାଭିମୁଖୀ ହୋଇପାରିବ ଓ କୃଷକ ମାନଙ୍କ ଆୟ କିପରି ବୃଦ୍ଧିପ୍ରାପ୍ତ ହେବ ସେ ବିଷୟରେ ପରାମର୍ଶ ଦେଇଥିଲେ । ଡଃ କଲ୍ୟାଣ ସୁନ୍ଦର ଦାସ (ପ୍ରିନସିପାଲ ସାଇଟିଷ୍ଟ ଆଇ ସି ଏ ଆର, ଅହି, କୋଲକତା) ଆଭାସି ମାଧ୍ୟମରେ ବିଭିନ୍ନ କୃଷି ଭିତ୍ତିକ ଜ୍ଞାନ କୌଶଳ ସମ୍ପର୍କରେ ଆଲୋଚନା କରିଥିଲେ । କୃଷି ବିଜ୍ଞାନ କେନ୍ଦ୍ର ଗୁଣପୁର ମୁଖ୍ୟ ତଥା ବରିଷ୍ଠ ବୈଜ୍ଞାନିକା ସୁସ୍ମିତା ମହାନ୍ତି ରବି ଓ ଖରିଫ ଚାଷରେ କୃଷି ବିଜ୍ଞାନ କେନ୍ଦ୍ରର ଅବଦାନ ଓ ଆଗାମୀ ୨୪-୨୫ ବର୍ଷର ଚାଷ କ୍ଷେତ୍ରରେ କଣ ସବୁ ନୂତନ ପ୍ରୟୋଗ କରାଯିବ ତା ଉପରେ ଆଲୋଚନା କରାଯାଇଥିଲା । ଅନ୍ୟ ମାନଙ୍କ ମଧ୍ୟରେ ବୁଦ୍ଧାବନ ବେହେରା (ଏ ଡି ଓ ଗୁଣପୁର), ଜଗନ୍ନାଥ ବିଶ୍ୱାଣି (ଏ ଡି ଏଚ ଗୁଣପୁର) , ମନୋଜ କୁମାର ପ୍ରଧାନ (ସି ଡି ଏ ଓ ରାୟଗଡ଼ା), ଡଃ ହାଡିବନ୍ଧୁ ଭୋଳା (ସିଡି ଭି ଓ ରାୟଗଡ଼ା), ସତ୍ୟବ୍ରତ ସାହୁ (ଏ ଏଚ ଓ ଗୁଣପୁର), ଡଃ ଜ୍ଞାନଲୋକ ଦାସ, ଡଃ ଆର ଦେବ ରଞ୍ଜନ, ସତ୍ୟେଶ କୁମାର ସାମଲ, ତନ୍ମୟ ମହାପାତ୍ର , ସି ଡି ପି ଓ ଗୁଣପୁର ,ମୂର୍ତ୍ତୀ ଓ ଜଳ ସଂରକ୍ଷଣ ବିଭାଗ ଏବଂ ଅଗ୍ରଣୀ ଚାଷୀମାନେ ଯୋଗଦେଇ ନିଜ ନିଜ ସ୍ୱଚ୍ଛିତ ମତାମତ ପ୍ରଦାନ କରିଥିଲେ ।

ବିଶେଷ କରି ଆଗାମୀ ଖରିଫ ଋତୁରେ ମରୁଡି ସହନଶୀଳ ଓ ସ୍ୱଳ୍ପ ଅବଧି ଧାର ବିହନ , ଜୈବିକ କୃଷି , ମୋ ବଗିଚା , ଅଣ୍ଟା ଜଳସେଚନ , ପାଣିପାଗ ଅନୁକୂଳ ଚାଷ , ଛତୁ ଚାଷ ,ମହୁ ଚାଷ,ସମ୍ବିତ ଚାଷ , ଜୈବିକ ଉପାୟରେ ରୋଗପୋକ ନିୟନ୍ତ୍ରଣ , କୃଷକ ଉତ୍ପାଦନ ସଙ୍ଗଠନ ଓ ବଜାରିକରଣ ଉପରେ ଅଧିକ ଗୁରୁତ୍ୱ ଦେବାକୁ ଆଲୋଚନା ହୋଇଥିଲା । କୃଷି ବିଜ୍ଞାନ କେନ୍ଦ୍ରର ବୈଜ୍ଞାନିକ ରାଜୀବ ହୁଡୁ