



ANNUAL REPORT 2021 (January-December 2021)

**KRISHI VIGYAN KENDRA,
DEOGARH, ODISHA**

Odisha University of Agriculture and Technology

ANNUAL REPORT 2021 (January 2021 to December 2021)

1. GENERAL INFORMATION ABOUT THE KVK

1.1. Name and address of KVK with phone, fax and e-mail

Address	Telephone		E mail
	Office	FAX	
Krishi Vigyan Kendra, Deogarh Near Horticulture Farm, At/Po-Purunagarh, Dist-Deogarh, Pin-768119	06641- 295265	-	kvkdeogarh.ouat@gmail.com

1.2 .Name and address of host organization with phone, fax and e-mail

Address	Telephone		E mail
	Office	FAX	
Odisha University of Agriculture & Technology, Bhubaneswar	0674- 2562509	-	deanextension_ouat@rediffmail.com deanextensionouat@yahoo.com deanee@ouat.nic.in

1.3. Name of Senior Scientist and Head with phone & mobile No.

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Sujit Ku. Nath	Deogarh	9437360866	kvkdeogarh.ouat@gmail.com

1.4. Year of sanction of KVK: 2006

1.5. Staff Position (as on 1st Jan, 2022)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline/	Pay Scale with present basic	Date of joining	Permanent/ Temporary	Category (SC/ST/ OBC/ Others)
1	Senior Scientist& Head	Dr. Sujit Ku. Nath	Senior Scientist & Head	Agriculture Extension	22320-39100 AGP- 8000	17.05.2018	Permanent	General
2	Subject Matter Specialist	Sri Laba Soren	Scientist	Plant Protection	15600 – 39100 AGP-6000	24.12.2009	Permanent	ST
3	Subject Matter Specialist	Sri Sabyasachi Sahoo	Subject Matter Specialist	Agronomy	15600 – 39100 AGP-5400	18.07.2018	Permanent	General
4	Subject Matter Specialist	Miss Sadhana Swastika	Subject Matter Specialist	Horticulture	15600 – 39100 AGP-5400	06.03.2019	Permanent	ST
5	Subject Matter Specialist	Vacant						
6	Subject Matter Specialist	Vacant						
7	Subject Matter Specialist	Vacant						
8	Programme Assistant	Sri Chinmaya Mishra	Programme Asst. (Soil Sc.)	Soil Science	9300 – 34800 AGP-4200	28.12.2015	Permanent	General
9	Computer Programmer	Sri Gangadhar Moharana	Programme Asst. (Computer)	Computer	9300 – 34800 AGP-4200	21.07.2014	Permanent	OBC
10	Farm Manager	Vacant						
11	Accountant / Superintendent	Vacant						
12	Stenographer	Sri Benudhar Moharana	Steno cum Computer operator	-	5200-20200 GP-2400	11.10.2006	Permanent	Others
13.	Driver	Sri Ugreswara Pati	Driver cum Mechanic	-	5200-20200 GP-1900	19.10.2016	Permanent	Others
14.	Driver	Sri Akrura Mohapatra	Driver cum Mechanic	-	5200-20200 GP-1900	22.05.2018	Permanent	SC
15.	Supporting staff	Vacant						
16.	Supporting staff	Vacant						

1.6. **Total land with KVK (in ha)** :

S. No.	Item	Area (ha)
1	Under Buildings	1.5
2	Agro polytechnic	1.5
3	Under Demonstration Units	1.0
4	Under Crops	3.0
5	Orchard/Agro-forestry	1.8
6	Others with details	11.2
a	Rain water harvesting structure	0.4
b	Forest land	10.8
	Total	20.0

1.7. **Infrastructure Development:**

A) Buildings and others

S. No.	Name of infrastructure	Not yet started	Completed up to plinth level	Completed up to lintel level	Completed up to roof level	Totally completed	Plinth area (sq.m)	Under use or not*	Source of funding
1.	Administrative Building					Totally completed	303.23	Use	ICAR
2.	Farmers Hostel					Totally completed	329.06	Use	ICAR
3.	Staff Quarters (6)					Totally completed	421.59	Use	ICAR
4.	Piggery unit								-
5	Fencing							Incomplete	RKVY
6	Rain Water harvesting structure							Not functioning	RKVY
7	Threshing floor					Totally completed	222.96	Use	RKVY
8	Farm godown					Totally completed	46.45	Use	ICAR
9.	Dairy unit								-
10.	Poultry unit					Totally completed		Use	RKVY
11.	Goatary unit								-
12.	Mushroom Lab					Totally completed	6.87	Use	RKVY
13.	Mushroom production unit								-
14.	Shade house					Totally completed	18.58	Use	RKVY
15.	Soil test Lab					Totally completed	92.90	Use	ICAR

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total km. Run	Present status
Mahindra Bolero	2017	8,00,000/-	79128	Good
Mahindra Tractor	2006	4,75,000/-	842 hrs	Good
Hero Honda Passion	2010	45,945/-	60639	Good

C) Equipment & AV aids

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
a. Lab equipment				
Drying cabinet	2018	19425.00	Good	ICAR
Decanter glass bottle with cap, 500 ml	2018	1262.00	Good	ICAR
ABBE refractometer	2018	14805.00	Good	ICAR
Crown cap sealing machine	2018	5985.00	Good	ICAR
Vacuum sealing machine	2018	1942.50	Good	ICAR
Electric motor operated pulse thresher	2018	84375.00	Good	ICAR
DE-stoner	2018	152287.00	Good	ICAR
Platform OE scale	2018	11328.00	Good	ICAR
Digital balance	2018	9971.00	Good	ICAR
Moisture meter for pulse	2018	16756.00	Good	ICAR
Portable back stitching machine	2018	7616.00	Good	ICAR
Sealing machine	2018	3186.00	Good	ICAR
Sampling trier(2.5cm dia)	2018	4130.00	Good	ICAR
Sampling trier(1.25cm dia)	2018	3186.00	Good	ICAR
Seed divider	2018	15930.00	Good	ICAR
Plastic crates	2018	9676.00	Good	ICAR
Fumigation cover	2018	7788.00	Good	ICAR
Dunnage material	2018	51861.00	Good	ICAR
Fire extinguisher	2018	10620.00	Good	ICAR
PE sheet	2018	10416.00	Good	ICAR
Seed processing unit with gravity separator	2018	1099674.00	Good	ICAR
b. Farm machinery				
Power Tiller	2017	155597.00	Good	ICAR
Brush cutter	2017	15999.00	Good	ICAR
Chain saw	2016	18000.00	Good	ICAR
c. AV Aids				
Canon DSLR camera	2018	50000.00	Good condition	ICAR
LG LED 43 Inch Smart	2018	44500.00	Good condition	ICAR
UPS(V GUARD)	2018	2120.00	Good condition	ICAR
Desktop computer	2018	108000.00	Good condition	ICAR
Chairman unit microphone	2019	7400.00	Good condition	ICAR
Delegate unit microphone	2019	92680.00	Good condition	ICAR
Conference system amplifier	2019	21020.00	Good condition	ICAR

D) Farm implements

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
Sprayer	2017	4410.00	Good	ICAR
Digger	2017	48300.00	Good	ICAR
Disc Plough	2017	25000.00	Good	ICAR

1.8. Details SAC meeting* conducted in the year

Sl.No.	Date	Number of Participants	Salient Recommendations	Action taken
1.	01.12.2021	24	Promoting sweet potato & custard apple in the district.	OFT has been taken in bhukrishna & bhusona in kharif programme. ICAR-CHES is requested to provide Arka Bikram variety custard apple for FLD programme.
			Apiculture to be promoted through training programmes.	Rearing of honey bee is included in SCSP programme. District OLM is taking up apiculture promotion. KVK is coordinating in supply of units and training.
			Replacement of local greengram variety	Virat variety of greengram is taken up in our seed production programme.
			Intercropping in fruit orchards to be encouraged along with automation	In KVK instructional farm, intercropping in fruit orchards is demonstrated as well as in WADI project of NABARD.
			IFS should be popularised in the district	KVK is working with watershed and other depts for promotion of IFSs in the district.
			Trellies system popularisation in gourds	After our OFT & FLD programme, OLM has taken up trellies system in gourds in larger scale.
			Kharif onion should be emphasized	Kharif onion is included in our FLD programme this year
			Subhra variety of sesame to be popularised	It will be taken up after availability of seeds from AICRP, Sesame
			Compilation of success stories should be done in KVK.	Compilation of success stories is continuing.

PROCEEDINGS OF THE 17th SCIENTIFIC ADVISORY COMMITTEE MEETING OF KRISHI VIGYAN KENDRA, DEOGARH

The 17th Scientific Advisory Committee (SAC) meeting of KVK, Deogarh was held at 10.30 AM on dt. 01.12.2021 in the training hall of KVK under the chairmanship of Prof. P.J. Mishra, Dean Extension Education, OUAT, Bhubaneswar. Dr.M.P.Nayak, Joint Director(information), OUAT, Bhubaneswar was also present in the meeting as the cluster head of the KVKs of the zone. The meeting was organised both in physical and virtual mode keeping the COVID guidelines in mind. At the outset, Senior Scientist and Head welcomed the chairman, invitees as well as the members of the SAC meeting and briefed about the objectives of the meeting. He also highlighted the mandates and functioning of the KVK and continued the meeting as per the agenda.

Agenda 1: Approval of the proceedings of last SAC meeting

The Senior Scientist and Head stated that the proceedings of the last SAC meeting was circulated to all the members vide letter no 19. He also presented the action taken report on the recommendations of last SAC meeting as follows.

Sl.	Recommendation	Action taken
1	Promoting sweet potato & custard apple in the district.	OFT has been taken in bhukrishna&bhusona in kharif programme. ICAR-CHES is requested to provide Arka Bikram variety custard apple for FLD programme.
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4	Intercropping in fruit orchards to be encouraged along with automation	In KVK instructional farm, intercropping in fruit orchards is demonstrated as well as in WADI project of NABARD.
5	IFS should be popularised in the district	KVK is working with watershed and other depts for promotion of IFSs in the district.
6	Trellies system popularisation in gourds	After our OFT &FLD programme, OLM has taken up trellies system in gourds in larger scale.
7	Kharif onion should be emphasized	Kharif onion is included in our FLD programme this year
8	Subhra variety of sesame to be popularised	It will be taken up after availability of seeds from AICRP, Sesame
9	Compilation of success stories should be done in KVK.	Compilation of success stories is continuing.

After a brief discussion on the action taken report, the proceeding of the last SAC meeting was approved.

Agenda 2: Achievements during the year Rabi-2020-21 and Kharif 2021-22

The Senior Scientist & Head presented the achievements made by KVK during the year Rabi-2020-21 & Kharif- 2021-22

On Farm Testing: Results of 07 OFTs conducted involving 56 farmers during the period to solve location specific problems were presented by the Senior Scientist and Head.

- An OFT was taken on assessment of PGR application for regular bearing in mango where two treatments were taken. First treatment (TO₁) was Application of Ethephon 5 to 8 sprays @ 200 ppm fortnightly interval & TO₂ was application of paclobutrazol 1.0 ml/meter canopy diameter. In case of TO₁ number of flowering shoot/branch was found to be 70.00 as compared to 68.48 in FP(farmers not applying any hormone). In TO₂ number of flowering shoot/branch was found to be 77.93. As the current year was a positive year for mango production, the result was not appreciated by the farmers.
- Assessment of IPM module for management of fruit sucking moth in sweet orange was taken as the usual farmers practice of burning the fire in evening. TO₁ was foliar application of neem oil(1%) at 10 days interval & TO₂ was poison bait and field sanitisation. In TO₁ and TO₂ percentage of infestation was reduced to be 16% and 10% as compared to 22% in FP. As the infestation was not controlled as per the farmers satisfaction, it was proposed to continue it again.
- An OFT was taken on assessment of IPM module for management of shoot gall psylla in mango. The (TO₁) was pruning of egg bearing leaves during march last week and pruning of shoots up to 30 cm which bears gall during September & TO₂ was spray Profenophos 50% EC and Dimethoate 30% EC @ 2ml/lit during middle of August against the farmers practice, as no control measures taken. In TO₁ and TO₂ percentage of infestation was reduced to be 17% and 11% as compared to 25% in FP.
- Two treatments were taken in the OFT on nutrient management for blossom end rot in tomato i.e foliar application of CaCO₃(0.5%)(TO₁) and Use of AMC(10-20g/litre)(TO₂) against the farmers practice (Use of NPK only) average yield of fruit per plant was found to be 5.33kg and 5.28 kg as compared to 4.52 kg in FP. BER percentage was reduced to 15% and 18% respectively .
- OFT was taken on substitution of long duration rice variety Pooja in kharif, where in TO₁ was Mrunalini and in TO₂ was Pradhandhan during kharif 2021-22. Crop was in harvesting stage during the reporting period.
- An OFT was taken on assessment of sweet potato varieties for Deogarh district. CTCRI developed two varieties, orange fleshed (Bhu Sona) and purple fleshed (Bhu Krishna) were taken against the existing nail kandamula. Crop was in pre-harvesting stage.
- In assessment of IPM module for management of a new insect in rice i.e panicle mites. Two treatments were taken. TO₁ was Spraying of Diafenthuron 50% SC@ 2g/lit at PI stage & TO₂ was Spraying of Milbemectin 1 EC@ 1ml/lit+ Propiconazole 25 EC@ 1 ml/lit at PI stage. Crop was in pre-harvesting stage.

Frontline Demonstrations: Results were presented of 09 FLDs conducted during rabi 2020-21 and Kharif 2021-22 involving 110 farmers in participatory mode.

- Integrated crop management practices in litchi was demonstrated in Kala, Khajurianali and Kureibahal village. Yield was increased to 30% over farmers practice. Less fruiting was recorded due to sudden climatic change.
- IPM module for management of fruit borer in litchi yield was increased to 26.6% over FP and percentage of infestation was reduced to 9% over FP.

- IPM module for management of tea mosquito bug in cashew nut was taken under FLD programme, where yield was increased to 13.5% over FP and percentage of infestation was reduced to 11% over FP.
 - In demonstration on bunch feeding in banana yield was increased to 15% over FP and bunch wt. was increased to 18.5 kg as compared to 15.5 kg in FP.
 - FLD on ginger var. Subhada was taken during kharif 2021-22. Crop was in Pre-harvesting stage. Many plants died due to wilting and heavy rainfall as per the farmers feedback.
 - Demonstration programme was taken on high yielding onion variety in kharif (Agri found dark red). Crop was in pre-harvesting stage. Nursery management and drainage during continuous rain period was a major problem.
 - High yielding variety of spine gourd var. ArkaNeelanchal Shree was taken in FLD programme and the crop was in vegetative stage.
 - FLD on collar rot management in ground nut was taken where yield increased over FP was 26.2% and percentage of infestation reduced to 16%.
 - FLD programme was taken on management of fruit flies in pointed gourd where yield increased over FP was 17.3% and percentage of infestation reduced to 8%.
- i) **Training:** During the year Rabi 2020-21, 36 nos of farmers and farm women training programme were conducted involving 900 nos farmers, 3 nos of rural youth trainings involving 45 farmers and 3 nos of in-service personnels training programme were conducted involving 30 nos of farmers.. During the period Kharif 2021-22, 18 nos of farmers and farm women training programmes involving 450 farmers, 4 nos of rural youth training programmes involving 60 farmers and 3 nos of in-service personnels training programmes involving 30 nos. of farmers were conducted.
- ii) **Other Extension Activities:** KVK has organised 116 other extension activities during year 2020-21 involving 1850 nos. of farmers & 85 nos of other extension activities during the year kharif 2021-22 involving 560 nos. of farmers for technology dissemination.

Agenda 3: Action Plan for 2022-23

The Senior Scientist and Head placed the Action Plan for 2022-23 before the scientific advance committee. Detail discussions were made on action plan.

OFTs to be conducted

- ✓ Assessment of sweet potato varieties for Deogarh district.
- ✓ Assessment of herbicides for weed management in kharif tomato
- ✓ Assessment of IPM module for management of fruit sucking moth in sweet orange.
- ✓ Assessment of fall army worm management in maize,
- ✓ Assessment of tobacco caterpillar management in cauliflower.

FLDs to be conducted

- ✓ Demonstration of medium duration rice variety in kharif cv. Pratiba.
- ✓ Demonstration of linseed cv. Arpita in rice fallow.

- ✓ Demonstration of ginger var. Subhada.
- ✓ Demonstration of preemergence weedicides in onion.
- ✓ Demonstration of production of healthy tomato seedlings in pro tray
- ✓ Demonstration of marigold variety Bidhan marigold-2.
- ✓ Demonstration of management of early blight in potato.
- ✓ Demonstration of management of fruit borer in spine gourd.
- ✓ Demonstration of management of whitefly in pointed gourd.
- ✓ Demonstration of management of fusarium wilt in chilli.
- ✓ Demonstration on INM in tomato.
- ✓ Demonstration on biofertilizer consortia application for yield enhancement in cowpea.

A total of 36 nos of farmers and farm women, 6 nos of rural youth and 10 nos of in-service personnels training are to be conducted during 2022-23.

Agenda 4: Constraints of the KVK :

The Senior Scientist and Head presented the constraints faced by the KVK for smooth implementation of KVK activities.

- i) Delaying of filling up of the post of scientists and section officer affects the technical and administrative work of the KVK.

Agenda 5: Suggestions of Hon'ble Members and Chairman, SAC:

1. ADH suggested to promote coriander in open field condition in the district and to conduct training on sweet orange cultivation.
2. CDAO suggested to conduct trial on cotton and to promote suitable pulse variety for rabi season.
3. AGM,NABARD suggested to promote spawn unit , multi commodity processing unit, value addition of tomato and tamarind in the district. Climate resilient technology need to be kept in action plan.
4. PD, Watershed emphasized for IFS development and to conduct convergence meeting with KVK.
5. District fisheries officer suggested to appoint fishery scientist in KVK.
6. LDM suggested to assist OLM in promoting roadside marketing hub or outlet in the district.
7. Secretary CSDR,NGO suggested to promote tomato processing unit and to conduct a buyer-seller meet in the district.
8. Joint Director(Information),DEE, OUAT, Bhubaneswar told to make a orchard based IFS model in KVK campus in convergence with ATMA. Inter institutional workshop or hybrid mode training on litchi and sweet orange to be done.
9. The chairman SAC, DEE, OUAT, Bhubaneswar emphasized on pond based, animal based, orchard based IFS model. Success stories of farmers to be circulated to all district officials.

The chairman in his presidential remarks thanked all the members and special invitees and urged cooperation from all line departments for benefit of farming community of the district.

**Senior Scientist and Head
Member secretary of SAC
meeting**

**Joint Director Extension Dean Extension Education,
OUAT Chairman**

LIST OF 17th SCIENTIFIC ADVISORY COMMITTEE MEMBERS OF
KVK, DEOGARH 2021-22

Sl. No.	Name	Designation & Address
1.	Dr. Pawan Kumar Agrawal	Vice-Chancellor, OUAT, Bhubaneswar & Chairman, SAC meeting
2.	Prof. P. J. Mishra	Dean, Extension Education, OUAT, Bhubaneswar & Co-chairman, SAC meeting
3.	Dr. M. P. Nayak	Joint Director (Info), Dean Extension Education, OUAT
4.	Sri Lokesh Pradhan	PD, DRDA, Deogarh
5.	Dr. Govind Acharya	Director, ICAR-CHES, Bhubaneswar, Member
6.	Sri Devesh Behera	AGM, NABARD, Sambalpur, Member
7.	Sri Balakrushna Gauda	CDAO, Deogarh, Member
8.	Sri Antaryami Sahoo	ADH, Deogarh, Member
9.	Dr. Nimai Ch. Pattanaik	CDVO, Deogarh
10.	Sri Narottam Naik	DFO, Deogarh
11.	Sri Sudhakar Satapathy	PD, Watershed, Deogarh
12.	Sri Bhima Ch. Majhi	LDM, Deogarh
13.	Sri Bishnu Ch. Bhoi	DMOAIC, Deogarh
14.	Smt. Smaranika Mohapatra	DPM, OLM, Deogarh
15.	Sri Ramesh Kumar Patel	GM, DIC, Deogarh
16.	Miss Sangita Minz	FA, ADS, Deogarh
17.	Sri Ashok Ku Panigrahi	Secretary, SARC NGO, Member
18.	Sri Arjun Ku Sahu	Secretary, RCMS Ltd., Member
19.	Smt. Rita Rani Rout	Secretary, CSDR, NGO, Deogarh
20.	Smt. Sukumari Sahu	Farmer representative, Kailash, Member
21.	Sri Purandhar Sahu	Farmer representative, Hinjilita, Member
22.	Sri Nabaghana Sahoo	Farmer representative, Deogarh, Member
23.	Sri Babaji Behera	Farmer representative, Kirtanapali, Member
24.	Dr. Sujit Ku Nath	Senior Scientist and Head-cum-Member Secretary

2.a. District level data on agriculture, livestock and farming situation (2021)

Sl. no.	Item	Information
1	Major Farming system/enterprise	Mushroom, Pisciculture, Dairy, Goatery, Backyard poultry. Rice-Pulses, Rice-Vegetables, Rice-Oilseeds
2	Agro-climatic Zone	North-western Plateau
3	Agro ecological situation	Low rainfall lateritic soils
4	Soil type	Sandy loam
5	Productivity of major 2-3 crops under cereals, pulses, oilseeds, vegetables, fruits and others	Rice(Kharif)-1925kg/ha, Rice(Rabi)-2650 kg/ha, Sesame(Kharif)-427 kg/ha, Sesame(Rabi)- 408 kg/ha Greengram(Kharif)-325 kg/ha, Greengram(Rabi)-377 kg/ha Mango- 2234 kg/ha, Litchi-3800 kg/ha Sweet orange-8970 kg/ha
6	Mean yearly temperature, rainfall, humidity of the district	26.5, 1585.5mm, 53
7	Production of major livestock products like milk, egg, meat etc.	Meat- 30qtl, Egg-20000

2.b. Details of operational area / villages (2021)

Sl. No.	Name of Taluk	Name of the block	Name of the villages	Major crops & enterprises	Major problems identified (crop-wise)	Identified Thrust Areas
1	Tileibani	Tileibani	Kalchipada dihi	Rice, Tomato, seasonal vegetables, Goatery	Acidic soil, imbalance fertilizer application, pest and diseases	Acid soil management, crop diversification, off-season vegetables cultivation, INM, IPM
2	Tileibani	Tileibani	Kailash	Rice, Sunflower, Mushroom, Goatery, pisciculture, poultry	Acidic soil, imbalance fertilizer application, pest and diseases	Acid soil management, crop diversification, off-season vegetables cultivation, INM, IPM
3	Tileibani	Tileibani	kurod	Rice, vegetables, pulses	Acidic soil, imbalance fertilizer application, pest and diseases	Acid soil management, crop diversification, off-season vegetables cultivation, INM, IPM
4	Reamal	Reamal	Kirtanpali	Rice, Vegetables, Apiculture, Pisciculture, Mushroom	Acidic soil, imbalance fertilizer application, pest and diseases	Acid soil management, crop diversification, off-season vegetables cultivation, INM, IPM
5	Barkote	Barkote	Jhumpura	Rice, Pulses, Vegetables, Fruits	Acidic soil, imbalance fertilizer application, pest and diseases	Acid soil management, crop diversification, off-season vegetables cultivation, INM, IPM

2. c. Details of village adoption programme:

Name of the villages adopted by PC and SMS (2021) for its development and action plan

Name of village	Block	Action taken for development
Kalchipada Dihi	Tileibani	1. Application of different micronutrients, biofertiliser and staking technologies in tomato. 2. Use of different wilt tolerant tomato varieties in late kharif season. 3. Drip system in sweet potato cultivation.
Kailash	Tileibani	1. Mushroom cultivation throughout the year(Paddy straw and oyster) 2. Introduction of new poultry breed Kadaknath and Asli. 3.FLD programme on ginger cultivation where new variety Subhada introduced. 4.CFLD Programme on mustard cultivation.
Kurod	Tileibani	1. STB application of fertilizer including micronutrients in medium land rice. 2. STB application of fertilizer including micronutrients, weed management in medium and low land rice. 3. OFT Programme on sweet potato cultivation. 4. FLD on spine gourd cultivation.
Kirtanpalli	Reamal	1.Trellies system in bittergourd introduced. 2. New rice variety swarnashreya introduced. 3. Paddy straw and Oyster mushroom cultivation round the year. 4. Training programme on beekeeping was conducted and 5 honeybee boxes were installed in the village. 4. CFLD programme on pulse and oilseed was taken for development. 5. OFT on sweet potato cultivation.
Deojharan	Barkote	1. Watermelon and pumpkin seeds provided under SCSP programme. 2. Spine gourd cultivation in trellies.

2.1 Priority thrust areas

S. No	Thrust area
1.	Yield enhancement of cereals, pulses, oilseeds, fruit & vegetable crops through improved crop management strategies
2.	Popularize diversified cropping pattern in upland & medium land situation
3.	Promote INM & IPM modules in different crops
4.	Economic empowerment of farm women through alternate income generating activities
5.	Emphasize on increasing productivity of fruits like Mango, Banana, Citrus & Litchi
6.	Promote cultivation of off season & exotic vegetables (Non-traditional) for higher income
7.	Agro based income generation activities to rural youths and farm women
8.	Strengthening of marketing channels
9.	Need based IFS models for small farm holders

Seed production (q)		Planting material (in Lakh)	
Target	Achievement	Target	Achievement
4.0	5.0	1.0	1.06

Livestock strains and fish fingerlings produced (in lakh)*		Soil, water, plant, manures samples tested (in lakh)	
Target	Achievement	Target	Achievement
-	-	1000	1000

Publication by KVKs							
Item	Number	No. circulated	No. of Research papers in NAAS rated Journals	Highest NAAS rating of any publication	Average NAAS rating of the publications	Details of awarded publication, if any	Details of Award given to the publication
Research paper	1	-	1	3.96	3.96	-	-
Seminar/conference/ symposia papers							
Books							
Bulletins	1						
News letter	2						
Popular Articles	2						
Book Chapter							
Extension Pamphlets/ literature	3						
Technical reports	15						
Electronic Publication (CD/DVD etc)	5						
TOTAL	29						

1 Achievements on technologies assessed and refined

OFT-1

1.	Title of On Farm Trial	Assessment of PGR application for regular bearing in Mango
2.	Problem diagnosed	Low income due to irregular bearing.
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	TO1 : Application of Paclobutrazol @ 3.2ml/ meter canopy diameter through soil drenching during September for non-bearing trees during first fortnight of September will induce flowering and fruit set yield during off years. TO2 :Application of total 5 sprays of ethephon 200ppm , 1st spray in Mid October and subsequent sprays in fortnightly interval to control alternate bearing in Mango.
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	Source: IIHR Annual Report 2017-18.
5.	Production system and thematic area	Integrated crop management.
6.	Performance of the Technology with performance indicators	Cost of intervention. Additional income over additional investment Yield (q/ha), B:C ratio
7.	Final recommendation for micro level situation	Final recommendation can't be given as it requires more research.
8.	Constraints identified and feedback for research	As the year was (on year) in mango so no such significant difference was found in yield ,so it requires more research.
9.	Process of farmers participation and their reaction	As the year was (on year) in mango so no such significant difference was found in yield

Thematic area: Integrated crop management.

Problem definition: Low income due to irregular bearing

Technology assessed: Assessment of different PGR application for regular bearing in Mango

Result

Table: 1

Technology option	No. of trials	Yield component			Yield (q/ha)	Cost of cultivation(Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No of flowering shoots	Fruit set/panicle						
FP	7	30.15	10.50		125.20	185000	472000	287000	2.55
TO ₁	7	33.30	10.11		128.50	191500	526500	335000	2.75
TO ₂	7	40.15	11.20		129.20	200000	564000	364000	2.82

OFT-2

1.	Title of On Farm Trial	Assessment of IPM module against shoot gall psylla in mango.
2.	Problem diagnosed	Lack of conviction on timing of pesticide application.
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	FP- No use of pesticides due to not aware about the pest and time of infestation TO ₁ -Pruning of egg bearing leaves during march last week and pruning of shoots upto 30cm which bears gall during September TO ₂ -Spray Profenophos 50% EC and Dimethoate 30% EC @ 2ml/lit during middle of Augus
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	Annual Report ICAR-CISH, 2016
5.	Production system and thematic area	Integrated pest management.
6.	Performance of the Technology with performance indicators	% infestation, Cost of intervention. Additional income over additional investment Yield (q/ha), B:C ratio,
7.	Final recommendation for micro level situation	Timely application insecticides and other cultural practices
8.	Constraints identified and feedback for research	Infestation occurs during August to September but gall appear during flowering. Hence, it is difficult to control without studying the insect biology.
9.	Process of farmers participation and their reaction	Farmers are satisfied with the performance of the technology but psylla infestation was very less as compared to previous years.

Thematic area: Integrated pest management.

Problem definition: Lack of conviction on timing of pesticide application

Technology assessed: Assessment of IPM module against shoot gall psylla in mango.

Result

Table-2

Technology option	No. of trials	Yield component			Disease/ insect pest incidence (%)	Yield(q /ha)	Cost of cultivation(Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No. of effective tillers/hill	No. of spikelet per panicle	Test wt. (100 grain wt.)						
FP	7	-	-	-	22	136.5	52000	136500	84500	2.63
TO ₁	7	-	-	-	15	142.4	55000	148400	93400	2.70
TO ₂	7	-	-	-	9	165.8	60000	165800	105800	2.76

OFT-3

1.	Title of On Farm Trial	Assessment of long duration High yielding rice variety in kharif.
2.	Problem diagnosed	Low yield in existing old long duration variety for proximity to various pest and diseases
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	<p>TO₁: Mrunalini : Small bold grains, Semi dwarf, Maturity-146days, Moderately resistant to blast, sheath blight, sheath rot, Resistance to gall midge, yellow stem borer, leaf folder, resistance to lodging</p> <p>TO₂: Pradhandhan (CR Dhan 409) shallow lowlands of Odisha state, Maturity-160 days. Semi dwarf, non-lodging plant type, height -120-130cm, long slender grain, 350-400 panicles per m², high tillering (12-15) , test weight of 22.5g, moderate submergence tolerance, moderately resistant to leaf blast, neck blast, sheath blight, sheath rot, yellow stem borer.</p>

4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	Source: NRRI Annual Report,2014-15.
5.	Production system and thematic area	Varietal evaluation
6.	Performance of the Technology with performance indicators	Cost of intervention. Additional income over additional investment Yield (q/ha), B:C ratio.
7.	Final recommendation for micro level situation	Mrunalini is recommended to the farmers as it is same duration (145 days) to pooja variety and giving higher yield
8.	Constraints identified and feedback for research	Pradhan Dhan is prone to lodging
9.	Process of farmers participation and their reaction	Farmers are satisfied with the yield of both the new varieties. But the duration of Pradhan Dhan is longer and prone to lodging which discourage them.

Thematic area: Varietal evaluation.

Problem definition: Low yield in existing old long duration variety for proximity to various pest and diseases

Technology assessed: Assessment of long duration High yielding rice variety in kharif.

Result

Table: 3

Technology option	No. of trials	Yield component			Yield(q/ha)	Cost of cultivation(Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No. of effective tillers/hill	No. of spikelet per panicle	Test wt. (100 grain wt.)					
FP	7	8.8	7.4	35.8	36.7	28000	46950	18950	1.67
TO ₁	7	9.6	8.8	36.2	44.5	28000	58300	30300	2.08
TO ₂	7	11.5	1.05	36.5	44.2	28650	57600	28940	2.01

OFT-4

1.	Title of On Farm Trial	Assessment of sweet potato varieties for Deogarh District.
2.	Problem diagnosed	Low yield from local varieties
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	TO1:Cultivation of Orange fleshed sweet potato var. ST-14, (Bhu Sona) TO2:Cultivation of Purple fleshed sweet potato var. ST-13 (Bhu Krishna)
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	Annual Report,2018-2019, CTCRI, Bhubaneswar
5.	Production system and thematic area	Varietal evaluation
6.	Performance of the Technology with performance indicators	Days to maturity, Tuber weight(g),Tuber yield per plant
7.	Final recommendation for micro level situation	Bhu sona is recommended as it is quite similar to nali kandamula but lesser sweet
8.	Constraints identified and feedback for research	Tuber size was not upto the mark .
9.	Process of farmers participation and their reaction	Bhu Krishna is less preferred by farmers for its colour and taste.

Thematic area: Varietal evaluation

Problem definition: Low yield from local varieties

Technology assessed: Assessment of sweet potato varieties for Deogarh District

Table 4

Technology option	No. of trials	Yield component			Yield(q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		Sensory evaluation							
FP	7	9.0			110.0	85000	220000	135000	2.58
TO ₁	7	4.0			167.0	115000	334000	219000	2.90
TO ₂	7	6.0			181.0	120000	362000	242000	3.01

OFT-5

1.	Title of On Farm Trial	Assessment of IPM module for management of panicle mites in rice
2.	Problem diagnosed	Fails to diagnose the pest due to symptom appears during grain filling stage
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	TO1: Application of Diafenthiuron 50 wp @ 1g/lit + Propiconazole 25 EC @ 1ml/lit at PI stage. To2: Grain yields are better in application of Milbemectin + Propiconazole combination is 7564kg/ ha.
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	JNKVV Research Journal 48(1) : 104-105 (2014)
5.	Production system and thematic area	Integrated pest management
6.	Performance of the Technology with performance indicators	No. of sterile spikelets/panicle and no. of discoloured spikelets/panicle, yield (q/ha), B:C ratio
7.	Final recommendation for micro level situation	Timely application insecticides and other cultural practices
8.	Constraints identified and feedback for research	Infestation occurs during PI stage but symptoms appear during grain filling stage. Hence, it is difficult to control without studying the insect biology.
9.	Process of farmers participation and their reaction	Farmers are satisfied with the performance of the technology but psylla infestation was very less as compared to previous years.

Thematic area: Integrated pest management

Problem definition: Fails to diagnose the pest due to symptom appears during grain filling stage

Technology assessed: Assessment of IPM module for management of panicle mites in rice.

Table: 5

Technology option	No. of trials	Yield component			Disease/ insect pest incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No. of effective tillers/hill	No. of spikelet per panicle	Test wt. (100 grain wt.)						
FP	7	-	-	-	17	34.5	22500	44850	22350	1.99
TO ₁	7	-	-	-	9	42.6	31500	72420	40920	2.30
TO ₂	7	-	-	-	7	44.8	32500	76160	43660	2.34

OFT- 6

1.	Title of On Farm Trial	Assessment of fruit sucking moth management in sweet orange
2.	Problem diagnosed	Fruit sucking moth causes fruit drop at colour breaking stage
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	FP- Fire in every evening hour in orchard which fails to control the population of the moths TO ₁ - Removal of alternate host, installation of light trap @1 no./acre and poison bait with fumigation during evening hour, foliar application of neem oil (1%) at 10 days interval at coinciding with colour breaking stage of fruits. TO ₂ - Hanging of polypropylene sachets with Acephate 75% SP 10g @ 2 nos./tree coinciding with colour breaking stage
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	TO ₁ - Annual Report, ICAR-NRCC, 2016 TO ₂ - ICAR-CCRI, 2018
5.	Production system and thematic area	Integrated Pest Management

6.	Performance of the Technology with performance indicators	TO ₁ -Removal of alternate host arrest pest population, light trap & poison bait attract the moth, fumigation & spraying repel the moth colour breaking stage of fruits TO ₂ -Hanging polypropylene sachets with Acephate 75% SP act as a repellent of moth to the orchard.
7.	Final recommendation for micro level situation	Timely installation of poison bait, traps and other cultural practices
8.	Constraints identified and feedback for research	Infestation occurs during colour breaking stage of fruits, nocturnal in nature and having several alternate hosts. Hence, it is difficult to control without studying the insect biology.
9.	Process of farmers participation and their reaction	Farmers are satisfied with the performance of the technology but psylla infestation was very less as compared to previous years.

Thematic area:

Problem definition: Fruit sucking moth causes fruit drop at colour breaking stage.

Technology assessed: FP- Fire in every evening hour in orchard which fails to control the population of the moths

TO₁- Removal of alternate host, installation of light trap @1 no./acre and poison bait with fumigation during evening hour, foliar application of neem oil (1%) at 10 days interval at coinciding with colour breaking stage of fruits.

TO₂- Hanging of polypropylene sachets with Acephate 75% SP 10g @ 2 nos./tree coinciding with colour breaking stage

Table: 6

Technology option	No. of trials	Yield component			Disease/ insect pest incidence (%)	Yield(q/ha)	Cost of cultivation(R s./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No. of effective tillers/hill	No. of spikelet per panicle	Test wt. (100 grain wt.)						
FP	7	-	-	-	21	108	165000	324000	159000	1.96
TO ₁	7	-	-	-	14	125	185000	375000	190000	2.03
TO ₂	7	-	-	-	10	132	190000	396000	206000	2.08

3.2 Achievements of Frontline Demonstrations

A. Details of FLDs conducted during the year

Cereals

Sl. No.	Crop	Thematic area	Technology Demonstrated with detailed treatments	Area (ha)		No. of farmers/ demonstration								Reasons for shortfall in achievement	
				Proposed	Actual	SC		ST		Others		Total			
						M	F	M	F	M	F	M	F	T	
1.	Rice	Varietal evaluation	CR-Dhan-307 (Maudamani) irrigated ,135 days duration ,grain type-short bold, resistant against the pest stem borer, leaf folder, Green leaf hopper, gall midge, while it showed moderate reaction to WBPH, rice hispa, rice,thrips & moderately	2 ha	2 ha	7				18		25			

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (Kg/ha)			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P ₂ O ₅	K ₂ O					
Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (Kg/ha)	Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days		
				N	P ₂ O ₅	K ₂ O					
Rice	Kharif 2020	Rainfed	Sandy loam	265	26	136.2	Green gram	25.06.2021	05.11.2020	166.70	14
Rice	Kharif 2020	Rainfed	Sandy loam	145	31.5	124.5	Fallow	18.06.2021	22.10.2020	192.07	15

Other crops

Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	Area (ha)	Yield (q/ha)		% change in yield	Other parameters		*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demonstration	Check		Demo	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Litchi	Integrated crop management	Application of 2 foliar sprays of 20 ppm NAA, first at pea stage of fruit development and second ten days after the first spray and irrigation in regular intervals should be given during May- June to control this disorder.	10	2	30	24	25	-	-	24000	90000	66000	3.75	22000	72000	50000	3.24
Banana	INM	The technique involves blending of 15g of (approximately 7.5g of urea) and 7.5 g of potassium sulphate dissolved in 100 ml water in 500g of fresh cow dung and applying the slurry to the de-navelled stalk end of bunch soon after fruit set	10	2	345.0	300	15	81.5	65.0	100000	345000	245000	2.42	80000	225000	175000	2.11

Litchi	Integrated Pest Management	Spraying of Neem oil @ 5ml/lit before flower opening, Imidachloprid 17.8% SL @ 1ml/lit after 10 days of fruit setting and Enamectin Benzoate 5% SG @ 0.7g/lit 10 days before harvesting.	10	2.0	32.4	25.6	26.6	9	16	75000	162000	87000	2.16	65000	128000	63000	1.97
Pointed gourd	Integrated Pest Management	Installation of Cuelure (para pheromone trap) @ 8 nos. per hectare to attract and trap male fruit flies followed by™ spray Indoxacarb 14.5% SC @ 0.5 ml/l before maturity of fruits	10	1.0	148.4	126.5	17.3	8	15	110000	296800	186800	2.70	100000	253000	153000	2.53
Cashew nut	Integrated Pest Management	Spraying of Cyhalothrin 5% EC @ 0.6ml/lit at flushing stage followed by flowering and fruiting stage	10	2.0	13.5	10.8	25.0	12	18	75000	270000	195000	3.60	55000	183600	128600	3.34

Ginger	Varietal evaluation	Var. Subhada ginger rhizome skin color is glazy covered with brown scale leafs, cylindrical medium bold finger with short internode. yield 18 t/ha and 26.8% higher than suprava	10	199.3	141.3	41.04	19.05	12.1	182000	697550	515521	3.83	152000	494550	342521	2.0	3.25
Onion	Varietal evaluation	Agri found dark red bulbs are dark red, globular in shape, 4-6 cm in size with tight skin, moderately pungent. TSS is 12-13%. Plant matures in 95-110 days after transplanting. Average yield is (219.91 q/ha). Average keeping quality. Recommended for kharif season. Suitable for export purpose	10	1.0	225.2	125.8	79.01	0.52	0.86	126250	450400	324140	3.56	124350	377400	253050	3.03

Women empowerment

Farm implements and machinery

[illegible]

Demonstration details on crop hybrids

[illegible]

Technical Feedback on the demonstrated technologies

Sl. No	Crop	Feed Back
1	Greengram	Early sowing in green gram resulted better yield performance.
2	Rice	Hasanta var. rice effectively controlled BPH infestation.
3	Tomato	Farmers are satisfied with the quality and yield of varieties Arka Rakshak and Arka Samrat.
4	Bittergourd	More yield in trellis system compare to the traditional system
5	Onion	Agrifound dark red gave higher yield potential compared to local varieties.
6	Cauliflower	AMC application in cauliflower improved curd size and diameter.

Extension and Training activities under FLD

Sl. No.	Activity	Date	No. of activities organized	Number of participants	Remarks
1.	Field days	12.01.21 & 09.02.21	2	100	
2.	Farmers Training	14.1.21, 05.02.21, 08.04.21, 20.05.21 & 17.06.21	5	150	
3.	Media coverage	05.12.21, 16.10.21 & 07.09.21	5	450	
4.	Training for extension functionaries	18.08.21, 23.09.21, 11.10.21 & 09.12.21	4	40	

Performance of the demonstration under CFLD on Pulse and Oilseed Crops during Kharif2021 and Rabi 2021-2022:**1. CFLD on Pulses during Rabi 2021-2022****A. Technical Parameters:**

Sl. No.	Crop demonstrated	Existing (Farmer's) variety name	Existing yield (q/ha)	Yield gap (Kg/ha) w.r.to			Name of Variety + Technology demonstrated	Number of farmers	Area in ha	Yield obtained (q/ha)			Yield gap minimized (%)		
				District yield (D)	State yield (S)	Potential yield (P)				Max.	Min.	Avg.	D	S	P
1	Pigeonpea (PRG-176)	Local	8.6	160.0	36.0	1640.0	Variety : PRG-176, Seed treatment with Vitavax (carboxin+thiram) @ 2g per 1kg of seed, line sowing in spacing 75 cm X 30 cm., application of pre-emergence herbicide Pendimethalin 30 %EC @3 lit /ha and release of Trichogramma chilonis with need based plant protection measures	50	20						

B. Economic parameters:

Sl. No.	Variety demonstrated & Technology demonstrated	Farmer's Existing plot				Demonstration plot			
		Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio	Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio
1	Variety : PRG-176, Seed treatment with Vitavax (carboxin+thiram) @ 2g per 1kg of seed, line sowing in spacing 75 cm X 30 cm., application of pre-emergence herbicide Pendimethalin 30 %EC @3 lit /ha and release of Trichogramma chilonis with need based plant protection measures								

C. Socio-economic impact parameters:

Sl. No.	Crop and variety Demonstrated	Total Produce Obtained (kg)	Produce sold (Kg/ household)	Selling Rate (Rs/Kg)	Produce used for own sowing (Kg)	Produce distributed to other farmers (Kg)	Purpose for which income gained was utilized	Employment Generated (Mandays/ house hold)
1	Variety : PRG-176, Seed treatment with Vitavax (carboxin+thiram) @ 2g per 1kg of seed, line sowing in spacing 75 cm X 30 cm., application of pre-emergence herbicide Pendimethalin 30 %EC @3 lit /ha and release of Trichogramma chilonis with need based plant protection measures							

D. Pulse Farmers' perception of the intervention demonstrated:

Sl. No.	Technologies demonstrated (with name)	Farmers' Perception parameters					
		Suitability to their farming system	Likings (Preference)	Affordability	Any negative effect	Is Technology acceptable to all in the group/village	Suggestions, for change/improvement, if any
1	Variety : PRG-176, Seed treatment with Vitavax (carboxin+thiram) @ 2g per 1kg of seed, line sowing in spacing 75 cm X 30 cm., application of pre-emergence herbicide Pendimethalin 30 %EC @ 3 lit /ha and release of Trichogramma chilonis with need based plant protection measures						

E. Specific Characteristics of Technology and Performance:

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback

F. Extension activities under FLD conducted:

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended
1	Field Day	30.03.2021 and village Tabada	30

G. Sequential good quality photographs (as per crop stages i.e. growth & development):

H. Farmers' training photographs:



I. Quality Action Photographs of field visits/field days and technology demonstrated:



J. Details of budget utilization:

Crop (provide crop wise information)	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
Pigeonpea	i) Critical input	164000	164000	Nil
	ii) TA/DA/POL etc. for monitoring	8,000	8,000	Nil
	iii) Extension Activities (Field day)	5000	5000	Nil
	iv) Publication of literature	3000	3000	Nil
	Total	180000	180000	Nil

2. CFLD on Oilseed during Rabi 2021-2022

A. Technical Parameters:

Sl. No.	Crop demonstrated	Existing (Farmer's) variety name	Existing yield (q/ha)	Yield gap (Kg/ha) w.r.to			Name of Variety + Technology demonstrated	Number of farmers	Area in ha	Yield obtained (q/ha)			Yield gap minimized (%)		
				District yield (D)	State yield (S)	Potential yield (P)				Max.	Min.	Avg.	D	S	P
1	Mustard (Sushree)	Local, M-27	5.2	5.2	5.4	12.0	Variety-Sushree + seed treatment +soil test based fertiliser, Micronutrient recommendation, WSF foliar nutrient application , application of Thiomethoxam to control Aphids and application of Emamectin Benzoate to control pod borer	37	10						

B. Economic parameters:

Sl. No.	Variety demonstrated & Technology demonstrated	Farmer's Existing plot				Demonstration plot			
		Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio	Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio
1	Variety-Sushree + seed treatment +soil test based fertiliser, Micronutrient recommendation, WSF foliar nutrient application, application of Thiomethoxam to control Aphids and application of Emamectin Benzoate to control pod borer								

C. Socio-economic impact parameters:

Sl. No.	Crop and variety Demonstrated	Total Produce Obtained (kg)	Produce sold (Kg/ household)	Selling Rate (Rs/Kg)	Produce used for own sowing (Kg)	Produce distributed to other farmers (Kg)	Purpose for which income gained was utilized	Employment Generated (Mandays/ house hold)
1	Toria & Tapeswari	240	180	50	20	40	Livelihood support	25 MD

D. Oilseed Farmers' perception of the intervention demonstrated:

Sl. No.	Technologies demonstrated (with name)	Farmers' Perception parameters					
		Suitability to their farming system	Likings (Preference)	Affordability	Any negative effect	Is Technology acceptable to all in the group/village	Suggestions, for change/improvement, if any
1	Variety- Sushree + seed treatment +soil test based fertiliser, Micronutrient recommendation, WSF foliar nutrient application , application of Thiometoxam to control Aphids and application of Emamectin Benzoate to control pod borer						



E. Specific Characteristics of Technology and Performance:

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback

F. Extension activities under FLD conducted:

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended

G. Sequential good quality photographs (as per crop stages i.e. growth & development)

	
Spraying at vegetative stage	Crop at Flowering Stage

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Others													
Total	9	32	20	52	8	7	16	34	25	62	75	55	130

C) Extension Personnel (on campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops													
Integrated Pest Management	1	2	2	4	1	0	2	2	2	4	6	4	10
Integrated Nutrient management	1	3	1	4	2	0	2	3	1	4	8	2	10
Rejuvenation of old orchards													
Protected cultivation technology													
Production and use of organic inputs													
Care and maintenance of farm machinery and implements													
Gender mainstreaming through SHGs	1	2	2	4	1	0	2	2	2	4	6	4	10
Formation and Management of SHGs	1	3	1	4	2	0	2	3	1	4	8	2	10
Women and Child care													
Low cost and nutrient efficient diet designing													
Group Dynamics and farmers organization													
Information networking among farmers													
Capacity building for ICT application													
Management in farm animals													
Livestock feed and fodder production													
Household food security													
Other													
Total	4	10	06	16	06	00	08	10	06	16	28	12	40

D) Farmers and farm women (off campus)

Thematic Area	No. of	No. of Participants	Grand Total
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[illegible]

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Organic manures production													
Production of fry and fingerlings													
Production of Bee colonies and wax sheets													
Small tools and implements													
Production of livestock feed and fodder													
Production of Fish feed													
Mushroom production													
Apiculture													
Others													
Total													
X. Capacity Building and Group Dynamics													
Leadership development													
Group dynamics													
Formation and Management of SHGs													
Mobilization of social capital													
Entrepreneurial development of farmers/youths													
WTO and IPR issues													
Others													
Total													
XI. Agro forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
Others													
Total													
XII. Others (Pl. Specify)													
GRAND TOTAL	46	328	259	408	78	26	99	370	143	520	870	282	1245

E) RURAL YOUTH (Off Campus)

[illegible]

[illegible]

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T	M	F	T
plants/orchards													
Rejuvenation of old orchards	1	4	2	6	1	1	2	4	2	7	9	6	15
Export potential fruits													
Micro irrigation systems of orchards	1	2	2	4	1	0	2	2	2	4	6	4	10
Plant propagation techniques													
Others													
Total (b)	4	15	6	21	4	1	6	14	8	27	34	16	50
c) Ornamental Plants													
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others													
Total (c)													
d) Plantation crops													
Production and Management technology													
Processing and value addition													
Others													
Total (d)													
e) Tuber crops													
Production and Management technology													
Processing and value addition													
Others													
Total (e)													
f) Spices													
Production and Management technology													
Processing and value addition													
Others													
Total (f)													
g) Medicinal and Aromatic Plants													
Nursery management													
Production and management technology													
Post harvest technology and value addition													
Others													
Total (g)													
Total(a-g)	24	178	43	230	40	11	48	211	86	290	430	145	575
III. Soil Health and Fertility Management													
Soil fertility management	1	5	2	7	2	0	2	8	4	12	15	6	21
Integrated water management													
Integrated Nutrient Management	3	18	3	21	3	0	1	21	8	29	42	13	55
Production and use of organic inputs	1	4	2	6	1	1	2	4	2	7	9	6	15
Management of Problematic soils	1	11	2	13	1	0	1	12	4	16	24	6	30
Micro nutrient deficiency in crops	3	24	6	36	10	2	11	32	8	40	66	16	82
Nutrient Use Efficiency													
Balance Use of fertilizer	3	30	6	36	10	1	11	32	10	42	72	18	90
Soil & water testing													
others													
Total	12	92	21	119	27	4	28	109	36	146	228	65	293

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T	M	F	T
Integrated fish farming													
Carp breeding and hatchery management													
Carp fry and fingerling rearing													
Composite fish culture													
Hatchery management and culture of freshwater prawn													
Breeding and culture of ornamental fishes													
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Others													
Total													
IX. Production of Input at site													
Seed Production													
Planting material production													
Bio0agents production													
Bio0pesticides production													
Bio0fertilizer production													
Vermi0compost production													
Organic manures production													
Production of fry and fingerlings													
Production of Bee0colonies and wax sheets													
Small tools and implements													
Production of livestock feed and fodder													
Production of Fish feed													
Mushroom production													
Apiculture													
Others													
Total													
X. Capacity Building and Group Dynamics													
Leadership development													
Group dynamics													
Formation and Management of SHGs													
Mobilization of social capital													
Entrepreneurial development of farmers/youths													
WTO and IPR issues													
Others													
Total													
XI. Agro forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
Others													
Total													
XII. Others (Pl. Specify)													
GRAND TOTAL	48	373	86	464	87	28	109	436	172	602	907	295	1202

ii. RURAL YOUTH (On and Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Nursery Management of Horticulture crops	1	0	5	5	0	2	2	0	8	8	0	15	15
Training and pruning of orchards	1	5	2	7	1	0	1	5	2	7	11	4	15
Protected cultivation of vegetable crops													
Commercial fruit production													
Integrated farming	2	8	3	11	2	2	4	10	5	15	20	10	30
Seed production	1	4	2	6	1	1	2	4	2	7	9	6	15
Production of organic inputs	1	5	2	7	1	0	1	5	2	7	11	4	15
Planting material production	1	4	2	6	1	1	2	4	2	7	9	6	15
Vermiculture													
Mushroom Production													
Beekeeping													
Sericulture	1	4	2	6	1	1	2	4	2	7	9	6	15
Repair and maintenance of farm machinery and implements	1	2	2	4	1	0	2	2	2	4	6	4	10
Value addition													
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Others													
Total	9	32	20	52	8	7	16	34	25	62	75	55	130

iii. Extension Personnel (On and Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops	1	2	2	4	1	0	2	2	2	4	6	4	10
Integrated Pest Management	1	3	1	4	2	0	2	3	1	4	8	2	10
Integrated Nutrient management													
Rejuvenation of old orchards													
Protected cultivation technology													
Production and use of organic inputs													
Care and maintenance of farm machinery and implements													
Gender mainstreaming through SHGs													
Formation and Management of SHGs													
Women and Child care													
Low cost and nutrient efficient diet designing													
Group Dynamics and farmers organization													
Information networking among farmers													
Capacity building for ICT application													
Management in farm animals													
Livestock feed and fodder production													
Household food security													
Other	1	3	1	4	2	0	2	3	1	4	8	2	10
Total	3	8	4	12	5	0	6	8	4	12	22	8	30

Please furnish the details of training programmes as Annexure in the proforma given below

Discipline	Clientele	Title of the training programme	Duration in days	Venue (Off / On Campus)	Number of participants			Number of SC/ST		
					Male	Female	Total	Male	Female	Total
Horticulture	FW	Post harvest management in tomato	1	Off	17	13	30	11	02	13
	FW	Transplanting method of watermelon	1	Off	23	7	30	13	04	17
	FW	Post harvest management of onion	1	Off	18	12	30	12	08	20
	FW	Use of plant growth regulator for regular bearing in mango	1	Off	07	03	10	03	02	05
	FW	Cultural practices in mango orchard	1	Off	05	05	10	03	02	05
	FW	Trelli system in tomato	1	Off	11	04	15	6	1	7
	FW	Training and	1	Off	13	07	20	07	05	12

		pruning in kharif tomato production								
	FW	Different type of mulching in litchi cultivation	1	Off	10	05	15	5	3	8
	FW	Water management in litchi cultivation	1	Off	08	07	15	04	03	07
	FW	Nursery raising of onion and its management	1	Off	15	10	25	7	4	11
	RY	Production of quality planting material of different fruit crops	1	On	11	04	15	6	1	7
	RY	Propagation technique of fruit plants and nursery management	1	On	07	03	10	03	02	05
Plant protection	FW	Management of purple blotch in onion	1	Off	23	7	30	13	04	17
	FW	Different cultural practices for management of fruit fly in mango	1	Off	18	12	30	12	08	20
	FW	Integrated pest management against aphid in green gram	1	Off	17	13	30	11	02	13
	FW	Management practices for control of anthracnose diseases in chilli	1	Off	14	12	26	6	5	11
	FW	Cultural practices for control of BPH in low land rice	1	Off	10	05	15	5	3	8
	FW	Management practices for control of pod borer in pigeon pea	1	Off	12	11	23	9	2	11
	FW	Cultural management practices for control of purple blotch of onion	1	Off	17	13	30	11	02	13
	FW	Management practices for control of pod borer in green gram	1	Off	18	12	30	12	08	20

	FW	Management practices for control of thrips in watermelon	1	Off	15	15	30	11	06	17
	FW	Production technologies for oyster mushroom cultivation	1	Off	23	7	30	13	04	17
	FW	Cultural practices to reduce fruit sucking moth infestation in sweet orange	1	Off	18	12	30	12	08	20
	FW	Cultural and chemical measures against fruit borer infestation in litchi	1	Off	17	13	30	11	02	13
	RY	Apiculture for income generation	1	On	08	07	15	04	03	07
	RY	Repair and maintenance of farm machinery and farm implements	1	On	11	04	15	6	1	7
	IS	IPM practices for control of major insect pest in rice	1	On	07	03	10	03	02	05
	IS	IPM practices for control of major insect pest in rice	1	On	07	03	10	03	02	05
Soil science	FW	Importance of soil testing and technique of soil sample collection	1	Off	17	13	30	11	02	13
	FW	Importance of soil testing and technique of soil sample collection	1	Off	15	15	30	11	06	17
	FW	Importance of soil testing and technique of soil sample collection	1	Off	23	7	30	13	04	17
	FW	Method of application of lime and micronutrient in tomato	1	Off	18	12	30	12	08	20
	FW	INM in banana	1	Off	08	07	15	04	03	07
	FW	INM in cauliflower	1	Off	13	07	20	07	05	12
	FW	INM in bitter gourd	1	Off	15	05	20	07	01	08
	FW	Method of application of biofertiliser in	1	Off	16	05	21	06	05	11

		vegetables								
	FW	Use and role of micronutrient in watermelon	1	Off	18	04	22	07	06	13
	FW	Deficiency symptoms of micronutrients and its management	1	Off	15	15	30	11	06	17
	FW	INM in litchi	1	Off	23	7	30	13	04	17
	FW	Acid soil management for productivity on Cole crops	1	Off	18	12	30	12	08	20
	RY	Commercial production of vermicompost and its uses	1	On	11	04	15	6	1	7
	RY	Acid soil management for higher production	1	On	08	07	15	04	03	07

H) Vocational training programmes for Rural Youth

a) Details of training programmes for Rural Youth

[illegible]

b) Details of participation

[illegible]

Total													
Livestock and fisheries													
Dairy farming													
Composite fish culture													
Sheep and goat rearing													
Piggery													
Poultry farming													
Other													
Total													
Income generation activities													
Vermicomposting													
Production of bio agents, biopesticides, biofertilizers etc.													
Repair and maintenance of farm machinery & implements													
Rural Crafts													
Seed production													
Sericulture													
Mushroom cultivation													
Nursery, grafting etc.													
Tailoring, stitching, embroidery, dying etc.													
Agril. Para-workers, para0vet training													
Other													
Total													
Agricultural Extension													
Capacity building and group dynamics													
Other													
Total													
Grand Total													

I) Sponsored Training Programmes

a) Details of Sponsored Training Programme

Sl.No	Title	Thematic area	Month	Duration (days)	Client	No. of courses	No. of participants	Sponsoring Agency
					PF/RV/EF			
1	PCRA training programme	Energy conservation	September 2021	4	PF	4	100	Govt. of India

3.4. A. Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers				Extension Officials			Total		
		M	F	T	SC/ST (% of total)	Male	Female	Total	Male	Female	Total
Field Day	3	78	36	114	26	4	2	6	82	38	120
Kisan Mela	3	87	43	130	32	-	-	-	87	43	130
Kisan Ghosthi	2	10	5	15	20	2	0	2	12	5	32
Exhibition	4	-	-	-	-	-	-	-	-	-	-
Film Show	3	45	15	60	40	-	-	-	45	15	60
Method Demonstrations	3	42	8	42	20	-	-	-	42	8	60
Farmers Seminar	4	68	28	96	30	4	-	4	72	28	100
Workshop	-	-	-	-	-	-	-	-	-	-	-
Group meetings	7								190	40	230
Lectures delivered as resource persons	18	310	100	410	18	7	3	10	310	110	450
Advisory Services											
Scientific visit to farmers field	85	817	202	1019	42	9	4	13	830	202	1246
Farmers visit to KVK	1	-	-	-	35	-	-	-	621	191	812
Diagnostic visits	54	93	71	164	30	6	2	8	101	71	374
Exposure visits	-										-
Ex-trainees Sammelan	1	22	3	25	16	-	-	-	22	3	25
Soil health Camp	2	42	18	60	25	-	-	-	42	18	60
Animal Health Camp	1	11	9	20	30	2	-	2	13	9	22
Agri mobile clinic											
Soil test campaigns	5	120	30	150	35	-	-	-	120	30	150
Farm Science Club Conveners meet	1	17	6	23	32	2	-	2	18	7	25
Self Help Group Conveners meetings	2	22	8	30	23	-	-	-	22	8	30
Mahila Mandals Conveners meetings											
Celebration of important days (specify)	6	325	94	419	35	22	9	31	350	100	450
Sankalp Se Siddhi											
Swatchta Hi Sewa	-	-	-	-	-	-	-	-	-	-	-
Mahila Kisan Divas	1	0	28	28	30	1	1	2	0	30	30
Any Other (Specify)											
Total	206	2109	704	2805	519	59	21	80	2979	1427	4406

B. Other Extension activities

Nature of Extension Activity	No. of activities
Newspaper coverage	24
Radio talks	4
TV talks	5
Popular articles	9
Extension Literature	2
Video prepared	2

3.5 a. Production and supply of Technological products

Village seed

Crop	Variety	Quantity of seed (q)	Value (Rs)	No. of farmers involved in village seed production	Number of farmers to whom seed provided							
					SC		ST		Other		Total	
					M	F	M	F	M	F	M	F
Pigeonpea	PRG-176	12.1	1,11,804	25	0	0	4	1	16	4	20	5

KVK farm

Crop	Variety	Quantity of seed (q)	Value (Rs)	Number of farmers to whom seed provided							
				SC		ST		Other		Total	
				M	F	M	F	M	F	M	F
Pigeonpea	PRG-176	Yet to be harvested	-	-	-	-	-	-	-	-	-
Sunhemp	Local	5.00	28500	04	02	24	06	42	28	70	36
Grand Total		5.00	28500	04	02	24	06	42	28	70	36

Production of planting materials by the KVKs

Crop	Variety	No. of planting materials	Value (Rs)	Number of farmers to whom planting material provided							
				SC		ST		Other		Total	
				M	F	M	F	M	F	M	F
Vegetable seedlings											
Cauliflower	Megha,Barkha	7450	14900	40	300	350	690	250	40	640	1030
Cabbage	Zenith	5800	11600	22	103	200	325	245	65	467	493
Tomato	Arka Rakhyak, Arka Samrat, Sakhyam	31000	46500	77	354	241	672	105	55	423	1081
Brinjal	Tarini,Akshita	6450	9675	102	307	311	720	112	32	525	1059
Chilli	Siamhot, Krishna	5500	8250	88	267	410	765	220	24	718	1056
Onion	Agrifound dark red	50000	25000	57	289	274	620	84	64	415	973
Others (Broccoli, Chinese cabbage,	Belstar, Omaxe Chinese,	1200	5000	6	45	47	98	61	16	114	159

Name of product	Quantity	Value (Rs.)	No. of Farmers benefitted									
	Kg		SC		ST		Other		Total			
			M	F	M	F	M	F	M	F		
Bio-fertilizers	750	11250	14	43	32	89	25	05	71	137		
Bio-pesticide												
Bio-fungicide												
Bio-agents(Vetmicompost)	3	4500	3	14	33	50	34	08	70	72		
Others, please specify.(Vermin)												
Total	753	15750	17	57	65	139	25	15	107	211		

[illegible]

Small ruminants											
Sheep											
Goat											
Other, please specify											
Poultry											
Broilers											
Layers											
Duals (broiler and layer)											
Japanese Quail											
Turkey											
Emu											
Ducks											
Others (Pl. specify)	Kadaknath	450	33750	31	14	-	-	-	-	-	-
Piggery											
Piglet											
Hog											
Others (Pl. specify)											
Fisheries											
Indian carp											
Exotic carp											
Mixed carp											
Fish fingerlings											
Spawn	Paddy straw, oyster	510	10200	34	22	20	15	48	32	112	69
Others (Pl. specify)											
Grand Total		510	10200	12	08	25	18	25	08	45	24

3.5. b. Seed Hub Programme-“Creation of Seed Hubs for Increasing Indigenous Production of Pulses in India”

i) Name of Seed Hub Centre: KVK Deogarh, Odisha

Name of Nodal Officer :	Senior Scientist and Head, KVK, Deogarh
Address :	At/Po-Purunagarh, Dist-Deogarh, Odisha, PIN-768119
E-mail :	kvkdeogarh.ouat@gmail.com
Mobile No./ Phone No:	Mob. No: 9437360866/ 06641-295265

ii) Quality Seed Production Reports:

Season	Crop	Variety	Production (q)			
			Target	Area sown (ha)	Production (q)	Category of Seed (F/S, C/S)
Kharif-2020	Pigeonpea	PRG-176	80.0	10.0	12.10	TL
Rabi 2020-21	-	-	-	-	-	-
Summer/Spring 2021	-	-	-	-	-	-

iii) Financial Progress:

Fund received (2016-17, 2017-18, 2018-19, 2019-20, 2020-21, 2021-22)	Fund received (Rs. in lakh)	Expenditure (Rs. in lakh)		Unspent balance (Rs. in lakhs)	Remarks
		Infrastruc ture	Revolving fund		
2016-17	90.0	40.0	0.12122	39.87878	Fund received from Comptroller, OUAT, BBSR
2017-18	0.32722	-	1.80810	39.1179	Fund received from sale proceed
2018-19	1.28276	-	3.74002	36.66064	Fund received from sale proceed
2019-20	4.00017	-	7.80539	32.85542	Fund received from sale proceed
2020-21	6.92375	-	2.72080	37.05837	Fund received from sale proceed
2021-22 (As on dt.10.02.2022)	3.31821	-	0.61317	39,76,341	Fund received from sale proceed

iv) Infrastructure Development

Item	Progress
Seed processing unit	Completed
Seed storage structure	

3.6. (A) Literature Developed/Published (with full title, author & reference)

Item	Title	Author's name	Number	Circulation
Research paper	Gender issues in pulse cultivation in plateau ecosystems of eastern India	S. K. Nath, H. K. Sahoo, K.C. Barik	3	
Seminar/conference/symposia papers	-	-	-	
Books	-	-	-	
Bulletins	-	-	-	
News letter	Pradhanpat krushi samachar patrika		2	
Popular Articles	Who ask the farmers(Krusakaku pachare kia), Ke kahi pariba purusha, Why the oil price is increasing(Tela tau kahinki), Our neglected farmers(Bisanna bippanna abasanna ama annadata0.	S.K.Nath	3	
Book Chapter	-	-	-	
Extension Pamphlets/ literature	Dragon fruit cultivation(Dragon phala chasa), Scientific onion	S. K. Nath, Laba Soren, Sabtasachi	3	

	cultivation (Baigyanika pranalire piaja chasa), Market oriented litchi cultivation (Byabasayabhitika lichu chasa).	Sahoo, Sadhan Swastika, Chinmay Mishra		
Technical reports	MPR, PMO, CFLD, seed hub, soil test, annual report, etc		15	
Electronic Publication (CD/DVD etc)	Video on Tomato cultivation & mushroom cultivation	KVK, Deogarh	2	
TOTAL			23	

N.B.: Please enclose a copy of each. In case of literature prepared in local language please indicate the title in English

(B) Details of HRD programmes undergone by KVK personnel:

Sl. No.	Name of programme	Name of course	Name of KVK personnel and designation	Date and Duration	Organized by
1.					

3.7. Success stories/Case studies, if any (two or three pages write-up on 1-2best case(s) with suitable action photographs)

Name of farmer	Sri Narayana Dehury
Address	Village- Vejikudar, Block-Reamal , Dist-Deogarh
Contact details (Phone, mobile, email Id)	9937913770
Landholding (in ha.)	2.0
Name and description of the farm/ enterprise	Pond based farming system
Economic impact	Net annual income-3,00,000/-
Social impact	Climate resilient farmer
Environmental impact	Improves soil quality
Horizontal/ Vertical spread	15 ha

3.8. Give details of innovative methodology or innovative technology of Transfer of Technology developed and used during the year

Sl. No.	Name/ Title of the technology	Name/ Details of the Innovator(s)	Brief details of the Innovative Technology
1	Deogarh farmer inspires other villagers	Sri Narayan Dehury	Sri Narayan Dehury, Village- Vegikudar, Block-Reamal of deogarh district, aged-65 has become a source of inspiration and has given a ray of hope to other villagers. The primary means of his earning is integrated farming. He has adopted a self sufficient farming strategy keeping in view the problems and challenges rising out of climate change in the field of agriculture now a days. He has been able to compensate the losses incurred due to failed crops by cultivating another crop or taking up some other profitable farming. Using scientific methods, Dehury cultivates paddy on 3 acres of his 5 acres farm land and earns upto 48000/- per annum. Just after the kharif paddy harvest he grows mustard in 2 acres, which is otherwise known as rice-mustard cropping system. He has also taken up fish farming in 2 ponds dug on 1n

			acre of land. Annually he catches up to 10 quintals of fish and earns about Rs 80000/-. He also rears Vanaraja and Kadaknath poultry and earns 15,000 out of it. He earns 40000 annually from milk production. Taking advice of KVK he has bought an egg incubator and supplies kadaknath chicks to people. He has also kept 80 nos of ducks, which is meant for egg and meat production. In this way he compensates losses from one crop and earns Rs 300000/- annually.
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3.9. a. Give details of indigenous technology practiced by the farmers in the KVK operational area which can be considered for technology development (in detail with suitable photographs)

Sl. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK
1	Nursery management	Spreading neem leaves over nursery	To control termite damage

b. Give details of organic farming practiced by the farmer

Sl. No.	Crop / Enterprise	Area (ha)/ No. covered	Production	No. of farmers involved	Market available (Y/N)
1	Sesamum, mango	28.5 ha	350 q	45	Y

3.10. Indicate the specific training need analysis tools/methodology followed by KVKs

Sl. No.	Brief details of the tool/ methodology followed	Purpose for which the tool was followed
1.	Assessment of training needs	To reduce gap
2.	Group contact methods	To identify problems.
3.	Small group techniques	To teach new technologies
4.	Mass contact method	Awareness
5	Extension teaching methods	Public awareness

3.11. a. Details of equipment available in Soil and Water Testing Laboratory

Sl. No	Name of the Equipment	Qty.
1	Shaker	1
2	Meter	1
3	Hot plate	1
4	Sieve small	1
5	Sieve big	1
6	Solar plate with controller and cable	1
7	Manual	1
8	Funnel	20
9	Beaker	20
10	Test tube graduated 50ml	40
11	Glass test tube (50ml)	20
12	Spoon(small)	1
13	Spoon(big)	1
14	String rod(plastic)	2
15	String rod(glass)	2
16	Beaker glass 100ml	4

17	Graduated measuring cylinder glass(10ml)	1
18	Graduated measuring cylinder glass(50ml)	1
19	Reagent brown bottle glass (125ml)	2
20	Weighing balance	1
21	Wash bottle(500ml)	1
22	Wash bottle(250ml)	1
23	Tissue paper	2
24	Bottle brush	1
25	Test tube brush	1
26	Measuring cylinder glass (25ml)	1
27	Test tube stand	2
28	Safety glass (Goggle)	1
29	Training CD	1
30	Software for soil health card CD	1
31	Mridaparikshak soil testing kit (mini lab)	2
32	Flame photometer	1
33	Double beam UV visible spectro photometer	1
34	All glass double distillation unit	1
35	Distillation appts power supply	1
36	Rotary shaker	1
37	Digital balance	1
38	Automatic nitrogen analyser	1
39	PH,EC, TDS combined meter model	1
40	Digital soil mixture	1
41	Precision analytical balance	1
42	Magnetic stirrer	1
43	Hydrometer Boycous	1
44	Hot plate(rectangular)	1
45	Moisture dish	4

3.11.b. Details of samples analyzed so far :

Number of soil samples analyzed			No. of Farmers	No. of Villages	Amount realized (in Rs.)
Through mini soil testing kit/labs	Through soil testing laboratory	Total			
484	110	586	1258	14	-

3.11.c. Details on World Soil Day

Sl. No.	Activity	No. of Participants	No. of VIPs	Name (s) of VIP(s)	Number of Soil Health Cards distributed	No. of farmers benefitted
1	World soil day	35	-	-	15	85

3.12. Activities of rain water harvesting structure and micro irrigation system

No of training programme	No of demonstrations	No of plant material produced	Visit by the farmers	Visit by the officials
NA				

3.13. Technology week celebration

Type of activities	No. of activities	Number of participants	Related crop/livestock technology
Group meeting	1	25	Vegetable
Video show	1	30	Tomato cultivation
Farmers seminar	1	15	INM in watermelon
Method demonstration	1	18	Vermi composting
Soil test campaign	1	20	Soil testing

3.14. RAWE/ FET programme - is KVK involved? (Y/N)

No of student trained	No of days stayed
9	-

ARS trainees trained	No of days stayed
-	-

3.15. List of VIP visitors (Minister/ MP/MLA/DM/VC/Zila Sabhadipati/Other Head of Organization/Foreigners)

Date	Name of the person	Purpose of visit
01.12.2021	Prof. P.J.Mishra, DEE,OUAT,BBSR, Dr. M.P.Nayak, JD(Info)	SAC Meeting
05.12.2021	Smt. Sudhamayee Patel, Zilla Parishad, President	World soil day
16.12.2021	Sri Lukas Padhan, PD,DRDA,Deogarh	To visit KVK farm.

4. IMPACT

4.1. Impact of KVK activities (Not to be restricted for reporting period).

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Use of different tomato varieties with consumer preference for wilt tolerance in late kharif	72	80	45,000/-/ha	1,30,000/-/ha

4.2. Cases of large scale adoption

(Please furnish detailed information for each case)

Horizontal spread of technologies	
Technology	Horizontal spread
Trellis system in bitter gourd to check production of poor quality fruits due to soil contact	30 ha
Herbicide application in kharif groundnut	110 ha
Trellies system in tomato	150 ha

4.3.Details of impact analysis of KVK activities carried out during the reporting period

Sl. No.	Brief details of technology	Impact of the technology in subjective terms	Impact of the technology in objective terms
1	Kharif tomato popularisation	Large scale adoption	75% villagers of Kalchipadadihi adopted
2	IPM in pigeonpea cultivation	Large scale adoption	35% villagers of FLD beneficiaries adopted IPM technology against pod borer

4.4. Details of innovations recorded by the KVK

Thematic area	Integrated crop management
Name of the Innovation	Trellies system in tomato
Details of Innovator	Pradeep Lakra, Village- Kalchipodadihi, Block-Tileibani, District-Deogarh
Back ground of innovation	He is practicing different types of trellies system in tomato since last 2 years.
Technology details	Trellis should be of approximately 6 feet high with a top & bottom wire and plastic twine tied between the two wires at each plant. Posts should be no more than 15 feet apart and the top wire should be very tight. A stiff additional wire between posts may be required in the season when the fruit loads becomes heavy
Practical utility of innovation	For better quality of fruits.

4.5. Details of entrepreneurship development

Entrepreneurship development	
Name of the enterprise	Poultry and duckery
Name & complete address of the entrepreneur	Sri Narayan Dehury, Village- vegikudar, Block-Reamal, Dist-Deogarh
Role of KVK with quantitative data support:	Providing kadaknath breeds(30 nos.), Ducks(Khaki campbell-50 nos)
Timeline of the entrepreneurship development	Since last 5 years
Technical Components of the Enterprise	farm pond, poultry, dairy, incubator
Status of entrepreneur before and after the enterprise	Annual income before entrepreneur 1,00,000/- , after entrepreneur 3,00,000/-
Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference, marketing the product etc. (Economic viability of the enterprise):	Available of raw materials, no problem in marketing of the produce
Horizontal spread of enterprise	2 nos.

4.6. Any other initiative taken by the KVK

1. Swachha grama - Kirtanapalli
2. Mushroom village - Kailash

5. LINKAGES

5.1. Functional linkage with different organizations

Name of organization	Nature of linkage
Agriculture	Field & Diagnostic visit, Field Day, Training, Demonstration & Dissemination of technology.
Horticulture & Fisheries	Field & Diagnostic visit, Field Day, Training, Demonstration, Dissemination of technology.
Veterinary	Dissemination of technology, Training, Poultry, Goatery
NABARD	FPO formation , WADI project and capacity building training

5.2. List of special programmes undertaken during 2021 by the KVK, which have been financed by ATMA/ Central Govt/ State Govt./NABARD/NHM/NFDB/Other Agencies (information of previous years should not be provided)

a) Programmes for infrastructure development

Name of the programme/scheme	Purpose of programme	Date/ Month of initiation	Funding agency	Amount (Rs.)
Seed production programme	Seed Production	December	ATMA	31,767

(b) Programme for other activities (training, FLD,OFT, Mela, Exhibition etc.)

Name of the programme/scheme	Purpose of programme	Date/ Month of initiation	Funding agency	Amount (Rs.)

6. PERFORMANCE OF INFRASTRUCTURE IN KVK

6.1. Performance of demonstration units (other than instructional farm)

Sl. No.	Name of demo Unit	Year of estt.	Area (Sq.mt)	Details of production			Amount (Rs.)		Remarks
				Variety/bred	Product	Qty.	Cost of inputs	Gross income	
1.									
	Total								

6.2. Performance of Instructional Farm (Crops)

Name Of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.(q)	Cost of inputs	Gross income	
Pigeonpea	27.07.2021		1.0	PRG-176	Certified seed	Yet to harvest			
Sunhemp	22.07.2021		2.0	local	TL	5.00	2150	28500	

6.3. Performance of Production Units (bio-agents / bio pesticides/ bio fertilizers etc.,)

Sl. No.	Name of the Product	Qty. (Kg)	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
1.	Vermicompost	750	1600.00	11250.00	
2.	Vermin	3.0	-1600	4500.00	

6.4. Performance of instructional farm (livestock and fisheries production)

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
1.							

6.5. Utilization of hostel facilities

Accommodation available (No. of beds) : NIL

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
Total :			

6.6. Utilization of staff quarters

Whether staff quarters has been completed: Yes

No. of staffquarters: 06

Date of completion: 2012

Occupancy details:

Months	Q I	Q II	Q III	Q IV	Q V	Q VI
January 2021 to December 2021	Q IV & V vacant, Q VI not habitate					

7. FINANCIAL PERFORMANCE**7.1. Details of KVK Bank accounts**

Bank account	Name of the bank	Location	Account Number
Flexi account	State bank of India	Deogarh	30062165311
Saving	State bank of India	Deogarh	30442362646
Flexi account	State bank of India	Deogarh	36409971279

7.2. Utilization of funds under CFLD on Oilseed (Rs. In Lakhs)

Item	Released by ICAR		Expenditure		Unspent balance as on 1 st April, 2021
	Kharif	Rabi	Kharif	Rabi	
Rape seed and Mustard		120000		120000	0

7.3. Utilization of funds under CFLD on Pulses (Rs. In Lakhs)

Item	Released by ICAR		Expenditure		Unspent balance as on 1 st April 2021
	Kharif	Rabi	Kharif	Rabi	
Greengram	88800		88800		0

7.4 Utilization of KVK funds during the year 2021-22(Not audited)

Sl. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	8300000		
2	Traveling allowances	120000	90000	4408
3	Contingencies			
A		1100000	825000	847276
B				
C				
D				
E				
F				
G				
H				
I				
J	Swachhta Expenditure/ SAP Fund	15000	-	8250
TOTAL (A)		9535000	915000	
B. Non-Recurring Contingencies				
1	Equipments & furniture	250000		
2	Irrigation styem	500000		
3				
4				
TOTAL (B)		750000		
C. REVOLVING FUND				23062
GRAND TOTAL (A+B+C)		10285000	915000	882996

7.5. Status of revolving fund (Rs. in lakh) for last three years

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year (Kind + cash)
2019-20	1,04,435.00	3,09,854.00	52,535.00	1,12,409.00
2020-21	1,12,409.00	2,67,755.00	80,818.00	3,80,164.00
2021-22	3,32,639.00	1,74,556.00	23062.00	2,53,572.00

7.6. (i) Number of SHGs formed by KVKs: 02

(ii) Association of KVKs with SHGs formed by other organizations indicating the area of SHG activities: 02

(iii) Details of marketing channels created for the SHGs: through OLM and mission shakti groups

7.7. Joint activity carried out with line departments and ATMA

Name of activity	Number of activity	Season	With line department	With ATMA	With both
Scientific watermelon cultivation	1	Rabi	ITDA, ADH, Deogarh	-	-
Animal health camp	2	Rabi	CDVO	-	-
Ginger field visit	1	Kharif	ADH, Deogarh	-	-
Scientific pointed gourd cultivation	1	Rabi	ADH, Deogarh	-	-

8. Other information

8.1. Prevalent diseases in Crops

Name of the disease	Crop	Date of outbreak	Area affected (in ha)	% Commodity loss	Preventive measures taken for area (in ha)

8.2. Prevalent diseases in Livestock/Fishery

Name of the disease	Species affected	Date of outbreak	Number of death/ Morbidity rate (%)	Number of animals vaccinated	Preventive measures taken in pond (in ha)

9.1. Nehru Yuva Kendra(NYK) Training

Title of the training programme	Period		No. of the participant		Amount of Fund Received (Rs)
	From	To	M	F	

9.2. PPV & FR Sensitization training Programme

Date of organizing the programme	Resource Person	No. of participants	Registration (crop wise)	
			Name of crop	No. of registration

9.3. mKisanPortal (National Farmers' Portal/ SMSPortal)

Type of message	No. of messages	No. of farmers covered
Crop	35	12920
Livestock	3	12920
Fishery	-	12920
Weather	2	12920
Marketing	2	12920
Awareness	5	12920
Training information	3	12920
Other	2	12920
Total	52	12920

9.4. KVK Portal and Mobile App

Sl. No.	Particulars	Description
1.	No. of visitors visited the portal	3537
2.	No. of farmers registered in the portal	12920
3.	Mobile Apps developed by KVK	
4.	Name of the App	
5.	Language of the App	
6.	Meant for crop/ livestock/ fishery/ others	
7.	No. of times downloaded	41

9.5. a. Observation of Swachh Bharat Programme

Date/ Duration of Observation	Activities undertaken
12.01.21	Cleaning of demo units & garage
25.01.21	Community cleaning
15.02.21	Cleaning of administrative building
08.03.21	Cleaning of office campus
15.04.21	Community cleaning
20.05.21	Cleaning of office building
09.06.21	Cleaning of Agro polytechnic campus
16.07.21	Cleaning of office campus
13.08.21	Community cleaning
14.09.21	Cleaning of demo units & garage
22.10.21	Cleaning of office building
03.11.21	Cleaning of Agro polytechnic campus
10.12.21	Cleaning of demo units & garage

b. Details of Swachhta activities with expenditure

Activities	Number	Expenditure (in Rs.)
1. Digitization of office records/ e-office	1	750
2. Basic maintenance	2	900
3. Sanitation and SBM	1	1000
4. Cleaning and beautification of surrounding areas	2	1500
5. Vermicomposting/ Composting of biodegradable waste management & other activities on generate of wealth for waste	2	900
6. Used water for agriculture/ horticulture application	2	600
7. Swachhta Awareness at local level	-	
8. Swachhta Workshops	-	
9. Swachhta Pledge	1	800
10. Display and Banner		
11. Foster healthy competition	-	
12. Involvement of print and electronic media	2	900
13. Involving the farmers, farm women and village	-	

youth in the adopted villages (no of adopted village)		
14. No of Staff members involved in the activities	18	900
15. No of VIP/VVIPs involved in the activities	-	
16. Any other specific activity (in details)	-	
Total	31	8250

9.6. Observation of National Science day

Date of Observation	Activities undertaken

9.7. Programme with SeemaSurakshaBal/ BSF

Title of Programme	Date	No. of participants

9.8. Agriculture Knowledge in rural school

Name and address of school	Date of visit to school	Areas covered	Teaching aids used

9.9. Details of Swachhta Hi Surakshaprogramme(16-31.12.2021) organized

Sl. No.	Activity	No. of villages Involved	No. of Participants	No. of VIPs	Name (s) of VIP(s)

9.10. Details of Mahila Kisan Divas programme(15.10.2021) organized

Sl. No.	Activity	No. of villages Involved	No. of Participants	No. of VIPs	Name (s) of VIP(s)
1	Celebration of Mahila Kisan Diwas	3	30	3	Smt. Smaranika Mohapatra, Ananta Kumar Das

9.11. No. of Progressive/Innovative/Lead farmer identified (category wise)

Sl. No.	Name of Farmer	Address of the farmer with contact no.	Innovation/ Leading in enterprise
1.	Sri Gosain Minj	At- Kalchipodadihi, Po- Sodo, Dist.- Deogarh, PIN-768121	Product- Kharif tomato
2.	Sri Maheswar Pradhan	At-Khajurianali, Po- Baghabar, Dist.- Deogarh, PIN-768109	Product- Fruits
3.	Sri Purandar Mohanta	At - Hinjilita, Po- Baland, Dist.- Deogarh, PIN-768110	Product- Field crops
4.	Sri Babaji Behera	At - Kirtanapali, Po- Lulang, Dist.-Deogarh, PIN-768109	Vegetable cultivation

[illegible]

Livestock and fisheries

Institutional interventions

Capacity building

Extension activities

[illegible]

13. Awards/Recognition received by the KVK

Sl. No.	Name of the Award	Year	Conferring Authority	Amount	Purpose

Award received by Farmers from the KVK district

Sl. No.	Name of the Award	Name of the Farmer	Year	Conferring Authority	Amount	Purpose

14. Any significant achievement of the KVK with facts and figures as well as quality photograph**15. Number of commodity based organizations/ farmers' cooperative society/ FPO formed/ associated with during last one year (Details of the group/society may be indicated)**

Sl. No.	Name of the organization / Society	Trust Deed No. & date	Date of Trust Registration Address	Proposed Activity	Commodity Identified	No. of Members	Financial position (Rupees in lakh)	Success indicator
1	Silipathar Groundnut Agro-Producer Co. Pvt. Ltd		Dushila Pradhan, President, Adas Gram Panchayat, Block-Reamal, Dist-Deogarh	Groundnut cultivation	Groundnut	553	5.53	
2	Mandasuni Onion agro-producer co. Pvt. Ltd		Kamini Majhi, President, Adas Gram Panchayat, Block-Reamal, Dist-Deogarh	Onion cultivation	Onion	520	5.20	

16. Integrated Farming System (IFS): NA**Details of KVK Demo. Unit**

Sl. No.	Module details (Component-wise)	Area under IFS (ha)	Production (Commodity-wise)	Cost of production in Rs. (Component-wise)	Value realized in Rs. (Commodity-wise)	No. of farmer adopted practicing IFS	% Change in adoption during the year

17. Technologies for Doubling Farmers' Income

Sl. No.	Name of the Technology	Brief Details of Technology (3-5 bullet points)	Net Return to the farmer (Rs.) per ha per year due to adoption of the technology	No. of farmers adopted the technology in the district	One high resolution 'Photo' in 'jpg' format for each technology
1	Trellies system in tomato	Trellis should be of approximately 6 feet high with a top & bottom wire and plastic twine	240000	120	

		<p>tied between the two wires at each plant. Posts should be no more than 15 feet apart and the top wire should be very tight. A stiff additional wire between posts may be required in the season when the fruit loads becomes heavy</p>			
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18. a) Information on ASCI Skill Development Training Programme, if undertaken during 2021: NA

Name of the Job role	Name of the certified Trainer of KVK for the Job role	Date of start of training	Date of completion of training	No. of participants						Whether uploaded to SIP Portal (Y/N)	Fund utilized for the training (Rs.)
				SC		ST		Other			
				M	F	M	F	M	F		

b) Information on Skill Development Training Programme (Other than ASCI or less than 200 hrs., if any) if undertaken during 2021

Thematic area of training	Title of the training	Duration (in hrs.)	No. of participants										Fund utilized for the training (Rs.)
			SC		ST		Other		Total				
			M	F	M	F	M	F	M	F	T		

19. Information on NARI Project(if applicable): NA

Name of Nodal Officer	No. of OFT on specified aspects	Title(s) of OFT	No. of FLD on specified aspects	No. of capacity development programme on specified aspects	Total no. of farm women/ girls involved in the project	Details of Issues related to gender mainstreaming addressed through the project

20. Specific programmes for the period

i. Achievements in SCSP (Scheduled Caste Sub-Plan) (Specific for SC farmers only)

Sl. No.	Activity	No. of SC farmers/ stakeholders		
		Male	Female	Total
1	On- farm trials	-	-	-
2	Frontline demonstrations	85	25	110
3	No. of Training programmes for farmers	66	24	90
4	Farmers trained	66	24	90
5	No. of Training programmes for Extension Personnel	-	-	-

6	Extension Personnel trained	-	-	-
7	Participants in extension activities	19	13	32
8	Distribution of seed			
9	Planting material distributed	48	20	68
10	Livestock strains and fingerlings distributed	15	04	19
11	Soil, water, plant, manures samples tested	35	25	60
12	Mobile agro-advisory provided to farmers	352	24	376
13	Other (Please specify)	-	-	-

ii. Capacity building of farmers through training on Profitable Dairy Farming and Livestock Management (In case your KVK has Scientist (Animal/Veterinary Science)): NA

Sl. No.	Title of the training	Date/ Duration	No. of Participants							
			SC		ST		Other		Total	
			M	F	M	F	M	F	M	F

iii. Status of Natural Farming

Crop/ Commodity involved in Natural farming	Area covered under such farming (ha)	No. of farmers practicing Natural farming at present	Details of individual farmers (Name and Contact No.)	Organic component/ inputs used for such farming
Sesamum	20.0	75		FYM, Compost

iv. Farmer Producer Organizations

a) General information

Sl. No.	Name & Address of FPO	Name & Contact No. of Head of FPO	No. of farmer members of FPO			Crop/ Enterprise dealt with by FPO	Kind of support provided by KVK in running/ starting of FPO (in brief)
			M	F	T		
1	Silipathar Groundnut Agro-Producer Co. Pvt. Ltd	Dushila Pradhan, President, Adas Gram Panchayat, Block-Reamal, Dist-Deogarh	490	63	553	Groundnut	Training, scientific assistance(OFT,FLD), Field visit
2	Mandasuni Onion agro-producer co. Pvt. Ltd	Kamini Majhi, President, Adas Gram Panchayat, Block-Reamal, Dist-Deogarh	480	40	520	Onion	Training, scientific assistance(OFT,FLD), Field visit

b) Financial information

Name & Address of FPO	Date of Registration	FPO Registered (Y/N)	Application Submitted for Registration (Y/N)	No. of share-holding farmer members	Equity Amount Collected (Rs.)	Bank Account Opened (Y/N)	Board Reconstituted after attaining minimum membership (Y/N)
Silipathar Groundnut Agro-Producer Co. Pvt. Ltd	10.01.2019	Y	Y	150	553000	Y	Y
Mandasuni Onion agro-producer co. Pvt. Ltd	10.01.2019	Y	Y	150	520000	Y	Y

v. Nutri-gardens (Village wise)

Sl. No.	Name of village	Name of crop	Area under the crop (acre)	No. of farmers			Whether bio-fortified variety of crop used (If yes, mention variety & crop)
				M	F	T	

vi. Progress report on scientific beekeeping (2020-21 & 2021-22)

Name of KVK	Total budget allotted (Rs.)	Total budget utilized (Rs.)	Physical Training organized				Online Training organized			
			No. of training	No. of total participants			No. of training	No. of total participants		
				M	F	T		M	F	T

21. Any other programme organized by KVK, not covered above

Sl. No.	Name of the programme	Date of the programme	Venue	Purpose	No. of participants

22. Good quality action photographs (with proper caption) of overall achievements of KVK during the year (best 10)



FLD on HYV rice variety CR-Dhan 307



FLD on Management of fruit fly in pointed gourd



OFT on Long duration rice varieties



FLD on IPM module for management of mosquito bug in cashew nut



OFT on Nutrient management for blossom end rot in tomato



OFT on PGR application for regular bearing in Mango



FLD on introduction of rice var Maudamani, field day



FLD on Ginger variety Subhada



Celebration of 17th SAC Meeting



Celebration of Krishijibi Mahila Diwas



Animal health check up camp at Kushkhalia



Celebration of national girl child day



Cultivation of tomato after market study gave more return Rs 45kg..gate sale price



PCRA Training programme



Distribution of veg seedlings under SCSP programme



Demonstration of duckery under SCSP programme