Proforma (A)

Proforma for OUAT Annual Report 2021-22

(for the period from 01.04.2021 to 31.03.2022)

Directorate of Extension Education, OUAT, Bhubaneswar

1. Teachers/scientists and staff-in position as on 31.03.2022

Sl. No.	Name	Designation	Establishment /Department
1.	Dr. Amitabh Panda	Senior Scientist& Head	KVK,Kalahandi
2.	Dr. Madhumita Jena	Scientist (Agril. Extension)	KVK,Kalahandi
3.	Smt. Tulasi Majhi	Scientist (Horticulture)	KVK,Kalahandi
4.	Mrs. Jyotirekha Mallick	Scientist (Plant Protection)	KVK,Kalahandi
5.	Dr.Hrudananda Malik,	Scientist (Animal Science)	KVK,Kalahandi
6.	Miss Utkalika Naik,	Scientist(Agronomy)	KVK,Kalahandi
7.	Sri Srikrushana Behera,	Programme Asst. (Plant Physiology)	KVK,Kalahandi
8.	Shubhendu Jena	Programme Asst. (Computer)	KVK,Kalahandi
9.	Miss Chandrakandi Mallick,	Jr. Steno-cum-Computer Operator	KVK,Kalahandi
10.	Sri Keshaba Chandra Sa	Driver-cum-Mechanic	KVK,Kalahandi
11.	Sri Pradeep Kumar Pradhan	Driver-cum-Mechanic	KVK,Kalahandi
12.	Sri Bhuta Naik,	Peon-cum-Watchman	KVK,Kalahandi
13.	Sri Sangita Goud,	Peon-cum-Watchman	KVK,Kalahandi

2. Brief report on workshops, summer courses, symposia, training programmes Conducted.

Sl. No.	Topic	Place	Period
-	-	-	-

3. Brief report on workshops, summer courses, symposia, training programmes attended by teachers/scientists.

Name of the Scientists participated	Designation	Topic	Place	Date(s)
-	-	-	-	-

4. Faculty visited abroad

Sl. No.	Name of the Scientist	Department/ Establishment	Country visited	Purpose of visit	Date(s)
-	-	-	-	-	-

5. Results of schemes and programmes

(i) Salient achievements of Schemes operating at Bhubaneswar: NA

(ii) Salient achievements of KVK activities: Basing upon the emerging issues of the district, problems were prioritized and to address these concerns during the period, 07 OFTs, 18 no of FLDs, 101 no. of

training programmes and various extension activities were conducted along with 300qtl of paddy seeds (FS), 78725 no of quality planting material, 2521 no of mushroom spawn, 5814 no of poultry chicks (Banaraja, Rainbow rooster, Chhabro breed) etc were supplied to the farming communities.

(iii) Salient achievements of Flagship programmes: For harnessing pulse productivity, a total area of 20 ha of Cluster Frontline Demonstration on Pigeonpea (Cv. LRG 52) was conducted with an average productivity of 12.2q/ha which is 19.6 % higher yield over district productivity. Under Pulse seed hub programme an area of 17 ha is covered under pigeon pea seed production programme, NICRA Project 1 nos. of renovation of checked dam, 3 nos. of construction of Jalkund, 280 nos. of Vaccination camp against FMD Cattle & PPR against goat, 10 nos. of Low cost goat shed and different demonstration under crop production was conducted. Biotech Kisan project under different demonstration and distribution of Quality planting material, Mushroom, Onion and vegetable seeds programme was conducted in the farmers fields.

(iv) Details of extension activities

Sl. No.	Name of extension activity	No. of participants	Remarks, if any
1.	60th Foundation Day of OUAT (Virtual mode)	50	-
2.	Azadi ka amrit Mahotsav: Food and nutrition for farmers	95	-
3.	Azadi ka amrit Mahotsav: Farmer scientist interaction on climate resilient varieties, technologies and methods	50	-
4.	6th National seminar on Doubling farmers income in Odisha by 2022 (Virtual mode)	50	-
5.	World Food Day	30	-
6.	Mahila Kissan Divas	30	-
7.	World Soil Day	25	-
8.	Azadi ka amrit Mahotsav: Conference on Zero Budget Natural farming	80	-
9.	World Pulse Day	25	-
10.	Azadi ka amrit Mahotsav: International women Day	35	-
11.	Azadi ka amrit Mahotsav: Jal shakti abhiyan	42	-

6. Three significant findings of OFT from each KVK as per following format

Name of KVK	Crop/ Component	Season	Technology Assessed (Give in detail)	Farmers' practice (Give in detail)	OFT yield (q/ha)	Yield (q/ha) in farmers' practice	% increase in yield
Kalahandi	Rice	Kharif 2021	TO1:Seed treatment with bleaching powder @ 10g/l/ kg seed + Zinc sulfate @ 2%, spraying of Streptocycline @ 300 ppm + COC @ 0.3% during disease appearance	Farmers are only applying Carbendazim @3gmlit	42.8	34.7	23.34

			(Source: TNAU Agr i portal 2015)				
			TO2:Seed treatment with Pseudomonas fluorescens @10g/kg of seed, spraying of Streptocycline @ 300 ppm + COC @ 0.3% during disease appearance (Source: Annual report, OUAT, 2015-16)		43.9		26.51
	Onion	Kharif2021	TO1:Cultivation of onion var. Bhima Super Bulb attain maturity with in 100-105 DAT (Source:DOGR, 2009)	Cultivation of onion var. Agifound dark Red	162.5	148.2	9.6
			TO2:Cultivation of onion var. L-883 It is attractive dark red flat globe bulbs. it attains maturity with in 95-100DAT (Source: NHRDF, 2015)		176.1		18.8
	Dairy Cow	Kharif	TO1- Feeding of dairy cow with low cost farm made feed @ 3 kg/day (Maize - 40%, Oil cake - 25%, Rice bran- 20%, chuni- 10%, Mineral mix Salt-5% for six months with straw feeding (10 kg)	Feeding of dairy cow with commercial feed @ 3 kg/day with straw feeding (10 kg)	Mean Milk Production (L/day) 6.16±0.68[b]	Mean Milk Production (L/day) 5.26±1.98[a]	17.11
			TO2- Feeding of		Mean		11.97

			dairy cow with low cost farm made feed @ 3 kg/day (Maize - 30%, Soybean meal-10%, Broken rice-10%, Oil cake - 25%, Rice bran-10 %, chuni-10%, Mineral mix Salt-5% for six months with straw feeding (10 kg)		Milk Production (L/day) 5.89±1.46 [b]		

7. Three significant findings of FLD from each KVK as per following format

Name of KVK	Season	Intervention (Give in detail)	Farmers' practice (Give in detail)	FLD yield (q/ha)	Yield (q/ha) in farmers' practice	% increase in yield
Kalahandi	Kharif 2021	Cultivaton of Rice var. Hasanta (Dur.- 145 days, non-lodging type, mod. Resistant to BPH, Yield-50q/ha) Source: AICRP on Rice, Chiplima 2015	Cultivaton of Rice var. MTU-7029	46.38	39.78	16.59
Kalahandi	Kharif 2021	Feeding of cow @ 2.5 kg of concentrate feed + with 1 kg cotton oil cake+ 8 kg grass per day+ 10 kg straw (Source : SVVU, Tirupati 2015-16, TNAU Agritech Portal)	Feeding of cow with 2.5 kg concentrate feed and 8kg grass /day and 10 kg straw	Mean Milk Production(L/Day) 6.55±1.28[b]	Mean Milk Production (L/Day) 5.11±1.25[a]	28.18
Kalahandi	Kharif 2021	Application of 5% NSKE/ Azadirachtin 1500 PPM @ 5ml/l of water during egg laying stage to	Indiscriminate use of pesticides like cypermethrin@ 2.5ml/lit Profenophos@2.	49.0	40.6	20.6

		avoid egg hatching. *Application of Metarhizium anisopliae* @ 5gm/l of water at 15-25 days after sowing. Application of Emamectin benzoate @ 0.4 gm/l of water to manage the 2nd& 3rd instars larvae. (Source : SLREC proceeding, OUAT, 2017-18)	5ml/lit			

8. Salient achievements in production of seeds, planting materials and other materials

Seed Production

Crop	Season	Category (Breeder/ Foundation/ Certified/ TL)	Quantity (q) produced	Remark
Paddy	Kharif	Foundation	120.0q	Seed Processing Completed
Paddy	Kharif	Foundation	162.5 q	Seed Processing Completed

Production of planting material and other materials

Name of planting material/ other material	Quantity (qtl/no.) produced	Remark, if any
Quality planting material	78725	-
Mushroom spawn	2521	-
Poultry birds (fowl)	4950 nos.	-
Duck	864 nos.	-
Vermicompost	24 q	-
Earthworm	0.16q	
Mushroom	0.875q	-

9. Linkages and collaborations with other agencies within and outside the country.

Name of organization	Nature of linkage
Deputy Director of Agriculture, Kalahandi	Diagnostic field visit, e-pest surveillance, technological backstopping through training and demonstration. Member of PKVY and Governing Board member of ATMA
Agriculture Technology Management Agency (ATMA)	Organizing farmer- scientist interaction, Diagnostic field visit and extension activities (Akhaya Trutiya, Environment day Celebration, World Food Day, Women in Agriculture Day), awareness campaign (BPH and seed treatment) are conducted

	in a collaborative mode.
National Horticulture Mission	Monitoring and verification of quality planting material (QPM) and training cum demonstration on hi-tech horticulture.
NABARD	Monitoring of WADI activities
Syngenta Foundation, India & KARRTABYA NGO	Delivering lecture as resource person in various sponsored training programme and monitoring the activities of Hybrid Paddy Seed production and capacity building of grass root Extension worker.
Leading NGOs of the district	Capacity building of the farmers through training programme and demonstrations are conducted in a collaborative mode. Technical guidance on crop & horticulture production system, organic farming, Millet production, sustainable livelihood support in rural areas

10. Research papers/ Books/ Book chapters/ Popular articles/ Technical Bulletins/Manuals developed

(A) Research Publications :

Malik, H. N., Naik, U., Sahoo, U., Panda, A., Phonglosa, A., Bhattacharya, R. and Rahman, F. H. 2021. Influence of Micronutrient Managment on Growth and Yield Attributes in Pigeonpea [Cajanus cajan (L.) CV. PRG176] in Kalahandi District of Odisha. Journal of Experimental Agriculture International 43(2): 86-93, 2021. NAAS rating :4.89

(B) Research papers presented at International and National Seminars/ Symposia:

Naik, U., Malik, H. N., Routroy, C.R., Panda, A., Phonglosa, A., Mishra, P.J. and Rahman, F. H. 2022. A comparative study on yield performance of finger millet under rainfed conditions in kalahandi district of Odisha. In: National webinar on Managing Agro-Chemicals for Crop and Environmental Health. 25-26 Feb, 2022. Society for Fertilizers and Envirnoment, Kolkota.

(C) Chapter in Books:

1. Malik. H.N. 2021. Animal Biotechnology. In: Hidden treasure MCQ Animal Sciences. Das, D. (Ed.) Brillion publishers.
2. Malik. H.N. 2021. Plant Biotechnology. In: Conceptual Objective Agriculture. Rout, R. (Ed.) Brillion publishers. Pp-327.
3. Malakar, D., Malik, H.N., Kumar, D., Saini, S., Sharma, V., Fatima, S. and Kumar, S.2021. Stem cells: a potential regenerative medicine for treatment of diseases. In: Advances in Animal Genomics. Mondal, S. (Ed.). Elsevier Inc. Pp-33-47.
4. Jena. M., Roy. S.K., Udgata. J., Pal. P.P. Changing Scenario of Extension system and New trend in advisory services: An Overview., Building self reliant India through Techno-rich Extension system in Agriculture and Allied Sectors (Ed.) Pp-201.International books and Periodical Supply Service.

(D) Books

(E) Laboratory Manual

(F) Extension Bulletins/ Booklets

1. Malik, H.N., Naik, U., Panda, A. 2022. Sampurna Gopalana. Published by Krishi Vigyan Kendra, Kalahandi. Pp-1-70

(G) Popular Articles

11. Important awards and recognitions
12. Externally funded projects operating and sanctioned

Project title	Funding agency	Total outlay	Period (from to)
Biotech-KISAN	DBT, Govt. of India	23 lakh	1.4.2021 to 31.3.2022
NICRA	ICAR, Govt. of India	18 lakhs	1.4.2021 to 31.3 2022

13. Distinguished visitors, date and purpose of visit

Name of the visitor	Place of visit	Date of visit	Purpose of visit
Prof. Pawan Kumar Agrawal Vice Chancellor, OUAT, BBSR	KVK, Kalahandi	19.10.2021	Monitoring the activities of KVK
Prof. P.J. Mishra Dean, Extension Education, OUAT, BBSR	KVK, Kalahandi	19.10.2021	Monitoring the activities of KVK

14. Infrastructure developed including maintenance and renovation

Name of the infrastructure	Purpose	Funding agency	Status as on 31.03.2022
Irrigation Channel	Irrigation	ICAR	Completed

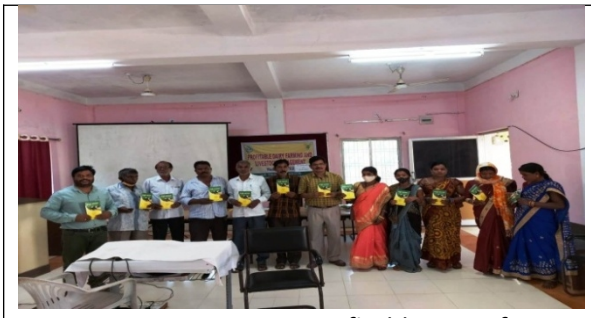
15. Consultancy projects handled and revenue generated

Name of the Project	Funding agency	Total fund outlay	Share of University
-	-	-	-

16. Other items, if any

17. Good quality photographs (In JPEG format with at least 1 Mb size and a caption)

Action Photographs of KVK, Kalahandi 2021-22

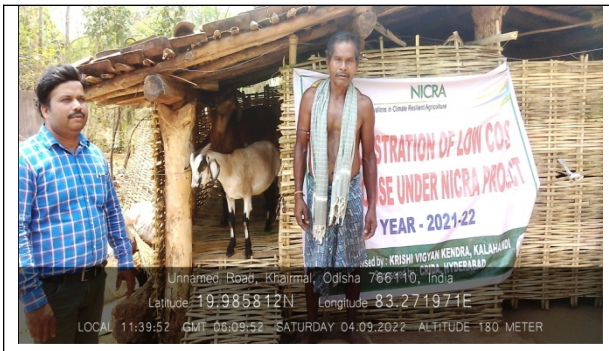


Training programme on profitable Dairy farming

Frontline demonstration on dietary supplementation of probiotics in goat

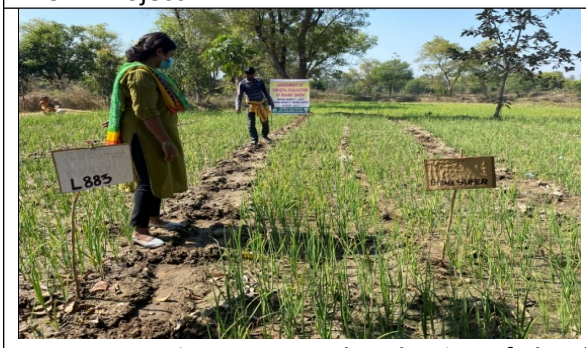
Demonstration on poultry rearing under BIOTECH-KISAN project

Front line demonstration on Feeding management in Kalahandi Buffalo

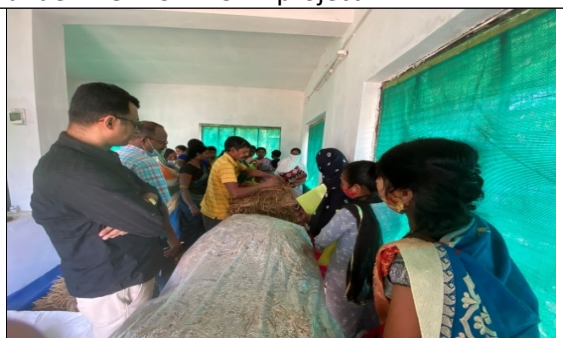


Demonstration on low cost goat shed under NICRA Project

Demonstration on Scientific Arhar cultivation under BIOTECH-KISAN project



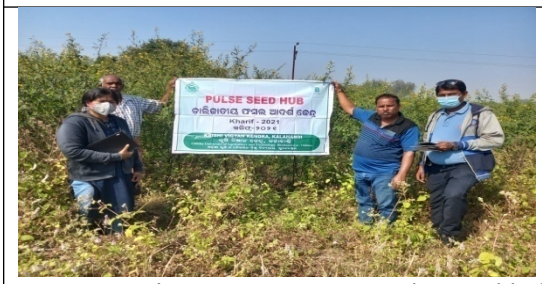
On Farm Testing on Varietal evaluation of Kharif Onion



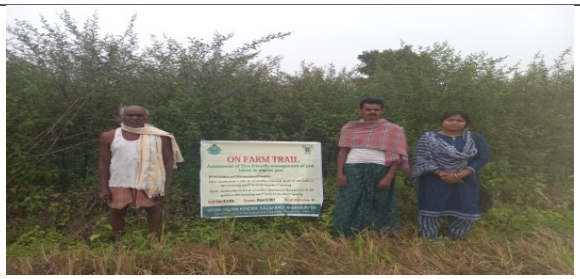
Training Programme on Paddy Straw Mushroom

FLD on management of collar rot in groundnut

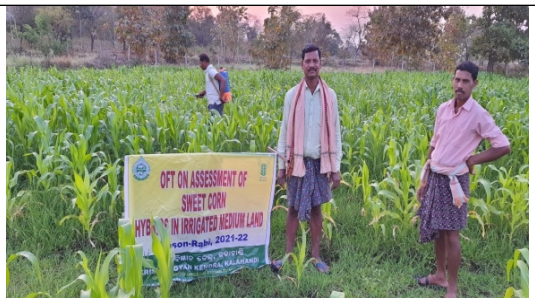
SCSP Demonstration on high value and low volume vegetable crop



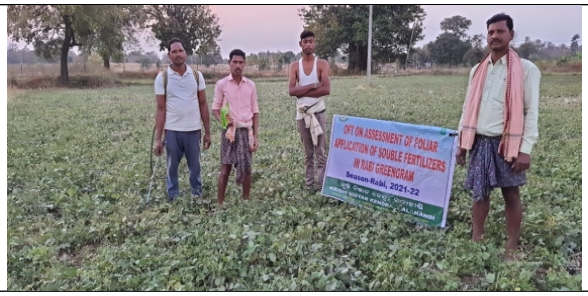
Demonstration programme on Pulse seed hub

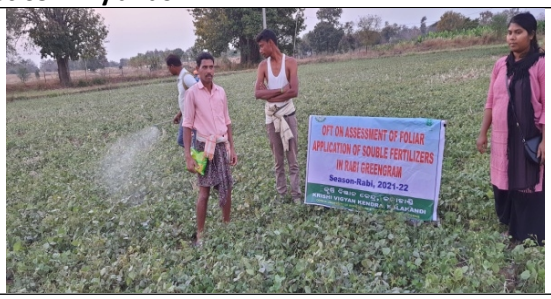


On Farm Testing on Eco friendly Management of Pod borer in Pigeonpea

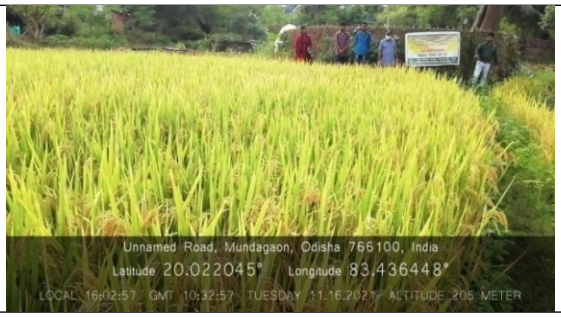


Assessment of Sweet corn hybrids





Assessment of foliar application of soluble fertilizers



Demonstration on BPH tolerant rice variety *Hasanta* in shallow low land situation

Demonstration on improved Ragi variety *Arjun*

Demonstration on High density planting system of Cotton in rainfed upland

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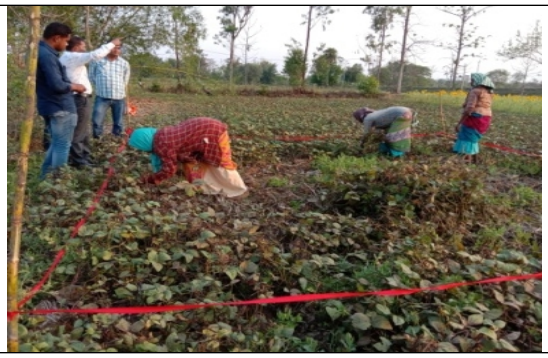
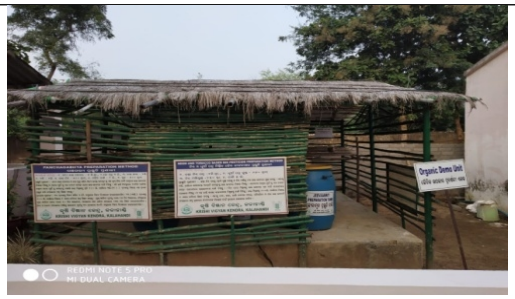
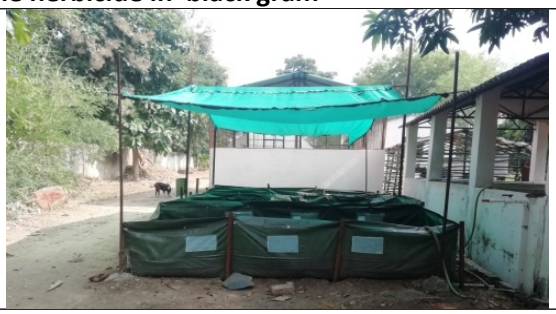
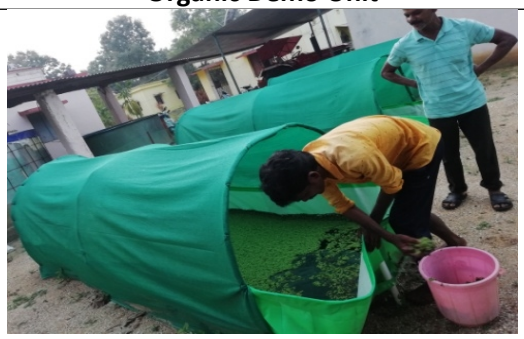
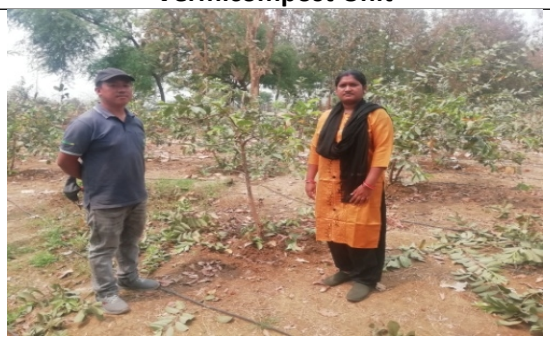
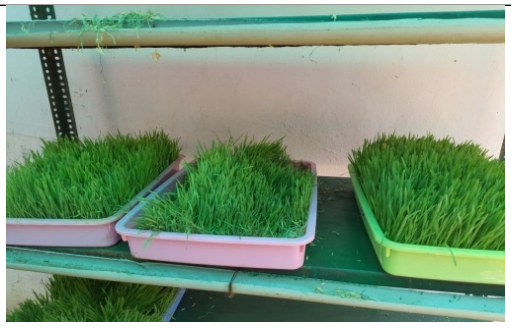
<tr><td>  </td><td>  </td></tr>
<tr><td colspan="2">Demonstration on use of suitable herbicide in black gram</td></tr>
<tr><td>  </td><td>  </td></tr>
<tr><td>Organic Demo Unit</td><td>Vermicompost Unit</td></tr>
<tr><td>  </td><td>  </td></tr>
<tr><td>Azolla Demo Unit</td><td>Guava Orchard</td></tr>
<tr><td>  </td><td>  </td></tr>
<tr><td>Hydroponic Unit</td><td>Polyhouse Unit</td></tr>
</table>

Proforma (B)

ACHIEVEMENT REPORT OF KVK

Annual Report of DEE 2021-22(Period 01.04.2021 to 31.03.2022)

Training for farmers & farm women

KVK	Discipline	No. conducted	No. of beneficiary				
			Male	Female	SC	ST	Total
Kalahandi	Agronomy	17	227	198	86	77	425
Kalahandi	Plant protection	17	149	275	29	110	425
Kalahandi	Horticulture	17	115	310	88	92	425
Kalahandi	Animal Husbandry	17	244	181	172	103	425
Kalahandi	Agril. Extension	7	70	105	38	54	175
	Total	**75**	**805**	**1069**	**413**	**436**	**1875**

(ii)Training for rural youths:

KVK	Discipline	No. conducted	No. of beneficiary				
			Male	Female	SC	ST	Total
Kalahandi	Agronomy	2	30	0	3	2	30
Kalahandi	Plant protection	2	30	-	04	05	30
Kalahandi	Horticulture	2	09	21	9	10	30
Kalahandi	Animal Husbandry	2	10	20	30	0	30
Kalahandi	Agril. Extension	4	6	54	7	11	60
	Total	**12**	**85**	**95**	**53**	**28**	**180**

(iii)Training for Extension personnel:

KVK	Discipline	No. conducted	No. of beneficiary				
			Male	Female	S.C.	S.T.	Total
Kalahandi	Agronomy	2	15	5	0	3	20
Kalahandi	Plant protection	2	18	02	10	03	20
Kalahandi	Horticulture	2	9	11	2	11	20
Kalahandi	Animal Husbandry	2	20	0	4	2	20
Kalahandi	Agril. Extension	6	27	33	10	21	60
	Total	**14**	**89**	**51**	**26**	**40**	**140**

(iv)Sponsored training:

KVK	Discipline	No. conducted	Duration (days)	No. of beneficiary					Sponsoring agency
				Male	Female	SC	ST	Total	
Kalahandi	Animal Science	5	3	39	161	14	5	200	ICAR
	Agronomy	1	1	23	17	0	1	40	
	Total	**6**	**4**	**62**	**178**	**14**	**6**	**240**	

1. On-Farm Testing:

KVK	Discipline	No. conducted	Area (ha)	Enterprise (no.)	No. of beneficiary				
					Male	Female	SC	ST	Total
Kalahandi	Agronomy	02	2.04	-	15	-	-	4	15
Kalahandi	Plant protection	02	2.5	-	14	-	01	01	14
Kalahandi	Horticulture	02	1.04	-	12	02	1	3	14
Kalahandi	Animal Husbandry	02	--	Cow- 35 nos. Poultry birds-240 nos.	13	1	11	1	14
Kalahandi	Agril.	01	0.56	-	7	0	0	0	7

	Extension								
Total		**09**	**6.14**	**Cow- 35 nos. Poultry birds-240 nos.**	**61**	**3**	**13**	**9**	**64**

2. Frontline demonstration (general):

KVK	Discipline	No. conducted	Area (ha.)	Enterprise (no.)	No. of beneficiary				
					Male	Female	SC	ST	Total
Kalahandi	Agronomy	04	11.7		50	2			52
Kalahandi	Plant protection	04	4	-	52	-	-	-	52
Kalahandi	Horticulture	03	1.2		35	4	2	5	39
Kalahandi	Animal Husbandry	04		Cow- 65 nos Bufallo-65 nos. Goat-65 nos. Salt and Mineral block-13 nos.	13	39	30	8	52
Kalahandi	Agril. Extension	03	--		28	11	3	4	39
	Total	**18**	**16.9**	**Cow- 65 nos Bufallo-65 nos. Goat-65 nos. Salt and Mineral block-13 nos.**	180	56	35	17	234

3. (i) Cluster demonstration on oilseed & pulse:

KVK	Season	Crop	Variety	Area (ha)	No. of beneficiary				
					Male	Female	SC	ST	Total
Kalahandi	Kharif	Pigeonpea	LRG 52	20	25	0	-	-	25

(ii)Salient achievements under Cluster demonstration on oilseed and pulse:

KVK	Season	Crop	Intervention (Give in detail)	FLD yield (q/ha)	Local yield (q/ha)	% increase in yield over local
Kalahandi	Kharif	Pigeonpea	Line sowing of seed with spacing 75cmx60cm Application of Post emergence herbicide Imazypthapyr @ 1.0 per ha followed by two hand weeding after 25 DAS & 45 DAS to control weed population.	12.2	10.2	19.6

			Application of profeno+Cypermethrin @1lit/ha to control leaf webber. Spraying of Azadirachtin 0.3%@ 2.5 Lit./ ha and Acetamiprid to control aphid/thrip population. Alternate application of Flubendiamide (@4ml/10lit)and Emmamectin Benzoate 5%SC (@ 4gml /10lit) to control pod borer infestation. Installation of Pheromone trap @12 per ha for mass trapping of male pod borer during flowering stage..			

4. Other extension activities:

Sl.No.	Extension activities	No. of activities	No. of beneficiaries
1.	60th Foundation Day of OUAT (Virtual mode)	01	50
2.	Azadi ka amrit Mahotsav: Food and nutrition for farmers	01	95
3.	Azadi ka amrit Mahotsav: Farmer scientist interaction on climate resilient varieties, technologies and methods	01	50
4.	6th National seminar on Doubling farmers income in Odisha by 2022 (Virtual mode)	01	50
5.	World Food Day	01	30
6.	Mahila Kissan Divas	01	30
7.	World Soil Day	01	25
8.	Azadi ka amrit Mahotsav: Conference on Zero Budget Natural farming	01	80
9.	World Pulse Day	01	25
10.	Azadi ka amrit Mahotsav: International women Day	01	35
11.	Azadi ka amrit Mahotsav: Jal shakti abhiyan	01	42
12.	Animal Health camp	03	230
13.	Awarness programme	08	450

5. Publication:

Sl.No.	Item	No.	No. of copies printed
1	Newspaper coverage	5	-
2	Radio talks	-	-
3	Extension Literature	2	260
4	News letter	1	500
5	Technical reports	3	-
	Total	**6**	**760**

6. Soil and water sample analysis:

KVK	Soil	Water	Gra	No.

	Tested in KVK lab.	Tested by MridaParikhyak	Tested outside	Total	Tested in KVK lab.	Tested by MridaParikhyak	Tested outside	Total	nd total (soil + water)	of soil health card issued
Kalahandi		127	-	127		10	-	10	137	347

7. Scientific Advisory Committee Meeting:

KVK	Kharif		Rabi	
	Date	No. of participants	Date	No. of participants
Kalahandi	-	-	25.02.2022	25

8. Awareness programme on Pradhanmantri Fasal Bima Yojana and other if any:

KVK	Date	Participants				
		Male	Female	SC	ST	Total
-	-	-	-	-	-	-

9. Farmers' fair:

KVK	Date	Venue: Village & Block	Participants				
			Male	Female	SC	ST	Total
-		-	-	-	-	-	-

10. Kissan mobile advisory service (KMAS):

KVK	No. of message sent	No. of farmers benefited	No. of extension functionary benefitted
Kalahandi	06	426390	15000

11. HRD activities under taken:

Title of the HRD Programme	Date	No. of participants	Category of participation
-	-	-	-

12. NICRA Activities

KVK	Name of NICRA Village	Climate vulnerability
Kalahandi	Indramal, Khairabadi	Drought

(Give module-wise results)

Module I: Natural resource management (NRM)

RWH structures	No.	Storage capacity (cu.m)	No. of farmers	Protective irrigation potential (ha)	Increase in cropping intensity (%)
Renovation of check dam	1	360	28	12.5	21
Construction of jalkund	3	192	9	.0.5	14
Total	**4**	**552**	**37**	**13**	**35**

Module II: Crop Production

Table. Performance of different drought tolerant varieties

Technology demonstrated Crops with varieties	No. of farmers	Area (ha)	Yield(q/ha)		% increase	Economics of demonstration (Rs./ha)		
			Demo	Local		Gross	Net	BCR

						Cost	Return	
Rice-Sahabhagidhan	20	9	40.2	28.5	40.05	18500	39000	2.11
Rice-Swarna shreeya	15	08	41.6	28.0	48.57	19000	41500	2.18
Brinjal (VNR-212)	42	4.6	212	154	37.6	60000	188400	3.14
Tomato (Utkal kumari)	45	5.0	171.7	146.2	17.4	65500	196500	3
Chilli (Agnirekha)	27	4	45.9	39.0	17.6	73800	177200	2.4
Black gram (PU-31)	52	7.7	5.9	4.3	37.2	18200	47800	2.62
Arhar (PRG-176)	38	15.2	10.9	9.1	19.8	23000	66000	2.8

Module III : Livestocks and Fisheries

Technology demonstrated	**No. of farmers**	**Unit/ No./ Area (ha)**	**Measurable indicators of output*** (q/ha)		**% increase**	**Economics of demonstration (Rs./ha)**		
			Demo	**Local**		**Gross Cost**	**Net Return**	**BCR**
Vaccination camp against FMD Cattle & PPR against goat	34	280 nos.	Milk production of cow 4.6L/Day	Milk production of cow 3.8 L/Day	18.42	6850/- for 6 month/Animal	8500/- for 6 month/ Animal	2.25
Vaccination for PPR in goat and Ranikhet in Poultry.	32	269	Mortality-8%	Mortality-14%	Mortality decrease by 75%	5800/- for 6 month/Animal	8800/- for 6 month/ Animal	2.51
Deworming to goat	25	180	Avg. Body weight gain (g/day)-58	Avg. Body weight gain (g/day)-45	28.8	6400	14000	3.18
Low cost goat shed	5	10 nos. of goat	Bw. gain-57.5g/day	Bw. gain-46 g/day	25	3250/- per goat per 1 year	9500/- per goat per 1 year	6200/- per goat per 1 year
Demonstration of kalinga brown poultry breed	30	350nos.	Avg. Body weight gain (g/day) 6.8	Avg. Body weight gain (g/day) 4.10	65.85	850	1500	2.76
Mineral mixture feeding in dairy cow	24	180 nos.	Milk production of cow	Milk production of cow	31.4	8120/- for 6 month/Animal	12800/- for 6 month/	2.57

			4.6 L/Day	3.5L/Day			Animal	

Module IV: Institutional intervention

Thematic area	Topic of the training	No. of Courses	No. of beneficiaries		
			Male	Female	Total
Crop Production	Use of green manuring for better fertility status and crop yield	1	13	17	30
	Disease management in stress tolerant crops	1	12	18	30
Soil Science	Application of chemical fertilizer based on STBF	1	16	14	30
	Management in Black gram in Rice fallow cropping system	1	8	22	30
Resource conservation Technology	Use of farm machinery for conservation of soil moisture	1	13	7	30
	In-situ moisture conservation in Vegitable	1	22	8	30
Pest and disease management	Practice of Bio-pesticides for management of sucking pest in cotton	1	17	13	30
Animal Science	Different Vaccination Schedule implies for prevention of viral diseases in live stock during stress period	1	18	12	30

13. ARYA Activities

KVK	Name of the component	Brief activity
-	-	-

(Give activity-wise results)

14. Biotech-KISAN Activities

KVK	Name of the component	Brief activity
Kalahandi	Crop production	1. QPM supply and demonstration of scientific package of practice in Arhar 2. Nutritional garden 3. Scientific onion cultivation 4. Vegetable cultivation 5.Mushroom cultivation

(Give activity-wise results)

Crop Demonstrations and their Performance

Sl. No.	Crops	Target of demonstrations		Achievement		Average (yield q/ha)		Yield increase (%)	Farmers' Feed back
		Number	Area	Number	Area	In demon-strations units	Local control (Existing practice)		
1	Arhar	20	75	20	75	5.6	4.7	19.14	Increase in

			Acre		Acre				yield of arhar seeds and net income
2.	Onion var. AFLR	10	2.5 Acre	10	2.5 Acre	260	222	17.11	Increase in yield of onion and net income
3	Onion var. Red3	10	2.5	10	2.5 Acre	252	219	15.06	Increase in yield of onion and net income
4.	Brinjal (VNR-212)	20	8 Acre	20	8	210	175	20.0	Increase in net income
5.	Tomato (Utkal kumari)	20	5 Acre	20	5	178	152	17.10	Increase in net income
6.	Chilli (Agnirekha)	20	3.5 Acre	20	3.5	38	28	35.71	Increase in net income

Livestock Demonstrations and their Performance

Sl No	Name of the intervention/technology demonstrated	Type of demonstration (Goat/sheep) Poultry/Pig, cattle /Buffalo etc.	No of farmers covered	No of demonstrations conducted	Performance parameters* yield, body weight (Kg)		Income (In Rs)		
					Before Demos. (existing)	**After Demos.**	**Before Demos.**	**After Demos**	**% increase in income**

1	Demonstration of improve breed of poultry bird (Kalinga brown(	Poultry bird	40	40	Adult bird 2.2 kg	-Adult bird - 1.4 kg	1050/- per bird	630/- per bird	66.6

15. Skill development training including CIFT & other programmes:

Sl.No.	Name of KVK	Name of the trade	Date of training	No. of participants				
				Male	Female	SC	ST	Total
1	Kalahandi	Bee Keeping	07.03.2022 to 13.03.2022	8	17	-	1	25
			21.03.2022 to 27.03.2022	20	5	-	18	25
2	Kalahandi	Dairy Farming	3.3.2022 to 5.3.2022	15	25	37	3	40
			12.3.2022 to 14.3.2022	-	40	39	-	40
			15.3.2022 to 17.3.2022	-	40	-	7	40
			22.3.2022 to 24.3. 2022	24	16	3	4	40
			25.3. 2022 to 27.3.2022	-	40	12	18	40

16. Seed & Quality Planting Material production:

(i) Achievement Kharif 2021: Paddy seed

KVK	Variety	Class	Area (ha)	Production (q)	Yield (q/ha)
Kalahandi	MTU-1001	FS	4	150	37.5
Kalahandi	Lalaat	FS	4	150	37.5

(ii) Achievement Rabi 2020 -21: Paddy seed

KVK	Variety	Class	Area (ha)	Production (q)	Yield (q/ha)
-	-	-	-	-	-

(iii) Achievement on seed production of non- paddy crops:

a. Pulses:

KVK	Crop	Variety	Class	Area (ha.)	Production (q)	Yield (q/ha.)
-	-	-	-	-	-	-

b. Oilseed crops:

KVK	Crop	Variety	Class	Area (ha.)	Production (q)	Yield (q/ha.)
-	-	-	-	-	-	-

c. Other crops:

KVK	Crop	Variety	Class	Area (ha.)	Production (q)	Yield (q/ha.)

-	-	-	-	-	-	-

(iv) Quality planting material production:

KVK	Name of plant	Variety	No. produced
Kalahandi	Brinjal	Swarna Shyamali, VNR 212	28550
	Tomato	Abhilasha, Laxmi	17165
	Cauliflower	Megha, amazing, Girija	4930
	Cabbage	Golden acre, green valley	20080
	Capsicum	Indam super Gold	8000

(v) Fruit production:

Name of KVK	Name of fruit crops	Total no. of fruit plants	Total no. of bearing plants	Quantity produced (Kg.)	Sale proceed (Rs.)
Kalahandi	Mango	24	12	160	4000/-

(vi) Other materials produced:

KVK	Name of the item	No./ Kg .produced
Kalahandi	Poultry bird	4950 nos.
	Duck	864 nos.
	Mushroom spawn	2521nos.
	Mushroom	87.5 Kg
	Vermicompost	24q
	Earthworm	16 Kg

(vii) Economics of revolving fund activities:

KVK	Expenditure (Rs.)	Gross return (Rs.)	Net profit (Rs.)
Kalahandi	970610.2/-	1606887/-	636276.8/-

17. Achievement of programme on doubling the farmers' income:

KVK	Title	Details of technology	Yield (q/ha)		%increase	Cost of Production (Rs)	Net return (Rs)	B:C
			Demo.	FP				
Kalahandi	Demonstration of Cotton Oil Cakes as Feed Supplement in Cross bred Cow	Feeding of cow @ 2.5 kg of concentrate feed + with 1 kg cotton oil cake+ 8 kg grass per day+ 10 kg straw	Mean Milk Production: (L/day 6.55±1.28 [b])	Mean Milk Production (L/day 5.11±1.25 [a])	28.18	21600	37800	1.55
Kalahandi	Demonstration on dietary supplementation of probiotics on juvenile growth of goat	After 6 -8 hours of free grazing ,feeding of goat with probiotics 3 g/goat/day for 6 months	Avg. Body weight gain (g/day) 58±1.45[b]	Avg. Body weight gain (g/day) 46±0.37[a]	44	1350	2850	3.11
Kalahandi	Demonstration of high yielding Brinjal var. Swarna Ajay	Cultivation of Brinjal var. Swarna Ajay Fruits are oblong, medium length (10-12 cm) and attractive light purple colour, resistant to phomopsis blight and bacterial wilt	312	260	18.1	86400	144000	2.54

18. Achievement on Pulses Seed Hub (For seed hub KVKs):

KVK	Season	Name of crop	Area	Variety	Class of seed	Production(q)	Cost of Production (Rs)	Net return(Rs)

Kalahandi	Kharif	Pigeon pea	17	PRG-176	CS	90 (unprocessed)	272000/-	359800/-

19. Achievement on Head to Head trial of IRRI rice varieties

KVK	Name of var.	Area(ha)	No. of farmers	Details of Technology demonstrated	Yield(q/ha)		% Increase	Cost of Production (Rs)	Net return (Rs)	B:C
					Demo	FP				
-	-	-	-	-	-	-	-	-	-	-

20. Achievement on KKA activities:

KVK	Name of activity	No. of farmers involved
Kalahandi	Training for Farmer & Farmwomen (24 nos.)	720

21. Achievement on any special programme(Natural farming/PKVY/Centre of Excellence etc./ other special projects/programmes):

Name of the Project	Duration	No. of trainings	Participants	Project Cost (Rs.)
NICRA	1 day	10	300	18,00,000/-
Biotech-KISAN	5days	1	20	21,00,000/-

22. Brief report on workshops, summer courses, symposia, training programmes attended by KVK scientists:

Name of the Scientist participated	Designation	Topic	Place	Period
Utkalika Naik	SMS(Agronomy)	Refresher Training for Scientist/SMS of Agronomy, Agro-Meteorology & Soil Science discipline of KVKs	DEE, OUAT, Bhubaneswar	3days

23. Externally funded projects operating and sanctioned:

Name of the KVK	Project title	Funding agency	Total outlay (Rs in lakh)	Period (from to)
Kalahandi	Biotech-KISAN	DBT, Govt. of India	23 lakh	1.4.2021 to 31.3.2022
Kalahandi	NICRA	ICAR, Govt. of India	18 lakhs	1.4.2021 to 31.3 2022

24. Distinguished visitors, date and purpose of visit:

Name of the visitor	Place of visit	Date of visit	Purpose of visit
Prof. Pawan Kumar Agrawal Vice Chancellor, OUAT, BBSR	KVK, Kalahandi	19.10.2021	Monitoring the activities of KVK
Prof. P.J. Mishra Dean, Extension Education, OUAT, BBSR	KVK, Kalahandi	19.10.2021	Monitoring the activities of KVK

25. Infrastructure developed including maintenance and renovation :

Name of the KVK	Name of the infrastructure	Purpose	Funding agency	Status as on 31.03.2022
Kalahandi	Repairing of irrigation channel	Irrigation to KVK Farm	ICAR	Completed