ANNUAL REPORT OF KVK (2021-22)

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	
KVK, Golaghat	NIL	NIL	kvk_golaghat@aau.ac.in, kvkgolaghat@gmail.com

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

Address	Telephone		E mail
	Office	FAX	
AAU, Jorhat-13	0376-2340029	0376-2340001	vc@aau.ac.in, dee@aau.ac.in

1.3. Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Bhabesh Chandra Deka	9435340387	9435340387	bhabesh_ch_deka@yahoo.co.in

1.4. Year of sanction: 1995

1.5. Staff Position **(As on 31st March, 2022)**

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category (SC/ST/ OBC/ Others)
1	Senior Scientist and Head	Dr. Bhabesh Chandra Deka	Senior Scientist and Head	Plant Protection	131400-217100 + level(13A)	143600	22.05.18	P	Others
2	Subject Matter Specialist	Mrs. Sanjukta Saikia	Subject Matter Specialist	Plant Protection	36100-177500 + level (10)	69000	08.11. 08	P	SC
3	Subject Matter Specialist	Mrs. Sukritee Hazarika	Subject Matter Specialist	Soil Science	36100-177500 + level (10)	69000	01.02.14	P	OBC
4	Subject Matter Specialist	Mrs. Pallavi Saikia	Subject Matter Specialist	Agril. Extension	36100-177500 + level (10)	65000	19.02.14	P	Others
5	Subject Matter Specialist	Dr. Bhoirab Gogoi	Subject Matter Specialist	Horticulture	36100-177500 + level (10)	63100	26.04.18	P	OBC
6	Subject Matter Specialist	Mrs. Mridusmita Borthakur	Subject Matter Specialist	Community science	36100-177500 + level (10)	61300	08.10.18	P	Others
7	Subject Matter Specialist	Mrs. Krishnakhi Borah	Subject Matter Specialist	Agronomy	36100-177500 + level (10)	61300	08.10.18	P	OBC

8	Programm Assistant (Computer)	Mrs. Smritirekha Bhuyan	Program m Assistant(Computer)	Compute r Science	35400-112400 +level (6)	56900	14.11.08	P	Others
9	Programm Assistant	Dr. Pranita Das	Program me Assistant	Veterinar y Science	35400-112400 +level (6)	37600	22.08.19	P	Others
10	Farm Manager	Mr. Ratul Ch. Neog	Farm Manager	Tea Husband ry and Technolo gy	35400-112400 +level (6)	47600	24.10.11	P	OBC
11	OSA	Mr. Mriganka S. Sarmah	Office Superinte ndent cum Accounta nt	PGBM (Internati onal business)	35400-112400 +level (6)	46200	18.02.12	P	Others
12	JSCO	Mr. Madhurjya Dutta	Jr. Stenograp her cum Computer Operator	-	25500-81100 + level (4)	34300	02.04.12	P	Others
13	Driver cum Mechanic	Mr. Diganta Gogoi	Driver cum Mechanic	-	21700-69100 + level (3)	28400	22.08.17	P	OBC
14	Driver cum Mechanic	Mr. Rupjyoti Gogoi	Driver cum Mechanic	-	21700-69100 + level (3)	23800		P	OBC
15	Supporting Staff	Mr. Bhoben Boruah	Grade-IV	-	18000-56400 + level(1)	19700	10.07.18	P	OBC
16	Supporting Staff	Mr. Ajit Sarma	Grade-IV	-	18000-56400 + level(1)	19700	13.07.18	P	GEN
	Total	16							

1.6. a. Total land with KVK (in ha) : 12.26

b. Total cultivable land with KVK (in ha): 11.32

c. Total cultivated land (in ha): 6.48

S. No.	**Item**	**Area (ha)**
1	Under Buildings (Administrative building+ Farmers' Hostel+ Staff Quarters)	1.5
2.	Under Demonstration Units	1.4
3.	Under Crops (Cereals, pulses, oilseeds etc.)	0.2
4.	Under vegetables	-
5.	Orchard/Agro-forestry	0.2
6.	Others (specify)	0.88

1.7. Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq. m)	Status of construction
1.	Administrative Building	ICAR	1997	600	1638979.90	-	-	-
2.	Farmers Hostel	ICAR	February 2015			-	-	-
3.	Staff Quarters (6)	ICAR	2000	363.60	1500000.00	-	-	
4.	Demonstration Units (3)	RKVY	March'2013 April'2012 April'2012	42.0 (Poultry unit) 54.45 (Azolla unit) 48.0 (Vermi unit)	485000.00			
5	Fencing	ICAR	August, 2013	-	562633.00		-	Incomplete
6	Display and Demonstration unit	ICAR	August, 2013-	40	9,30,000.00			
7	Implement Shed	ICAR	September, 2013	130	13,55,500.00			
8	Storage facilities	ICAR	-		10,00,000.00			

B) Vehicles

Type of vehicle	**Regd. No.**	**Year of purchase**	**Cost (Rs.)**	**Total kms. Run**	**Present status**
Bollero	AS-03 H 9470	2012	-		Functional
Tractor (New Holland)	AS-06 BC 0784	2016	7,60,000.00	-	Non functional
Power tiller(V-Shakti)	-	-	92,581.00		Functional

C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Public Address System (Ahuja SSB 60M)	2000	9,000.00	Good
Television (Samsung)	2004		Good
DVD Player (Samsung)	2004		Good
Video Player	1996	14,990.00	Out of order
Camera (Minolta)	1996	16,699.00	Out of order
Slide Projector (OVAMAT515AF)	1996	23120.00	Out of order
Direct Overhead Projector (Plus DP30)	1996	1,57,502.40	Out of order
Digital Camera (Still)	2006	15,080.00	Good
Digital Camera (Still)	2011	19000.00	Good
LCD projector	2011		Good
Duplicating Machine (Gestener 1450)	1996	17,505.00	Good
Typewriter (Godrej 47 cm)	1996	-	Good
Paddle Thresher	1999	-	Good
Power pump (Kirloskar 5HP)	1996	14,450.60	Good
Photocopier (Kilburn KM1620)	2006	48,360.00	Good
Refrigerator (Kelvinator)	1996	13,140.00	Out of order
Water pump (power tiller operated)	2004	5,000.00	Good
Computer (PCS)	2005	38,000.00	Good
Computer (PCS)	2009	na	Good
Laser Printer (HP 1010)	2005	5,990.00	Good
Laser printer (hp laserjet p1505n)	2009	-	Good
Scanner (HP Scanjet 2400)	2005	3,800.00	Good
Inkjet Printer (HP Business Inkjet 1000)	2007	7,072.00	Good
Photocopier (Kilburn TASKalfa 220))	2010	1,01,920.00	Good

1.8. A). Details SAC meeting* conducted in the year2021-22

Sl. No.	Date	Name and Designation of Participants	Salient Recommendations	Action taken on last SAC recommendation
1.	24.03.22	1. Mr. M. N. Barua, DC, Golaghat 2. Dr. P. K. Pathak, Director of Extension Education, AAU, Jorhat 3. Ms. OrpanBaglery,DDC,Golaghat 4. Mr. Dhiraj Das, CEO, ZilaParishad, Golaghat 5. Dr. R. K.Saud, SES, DoEE, AAU, Jorhat 6. Mr. Rupam Kumar Sharma, 7. Dr. A.Roy,Pr. Scientist(PB),SRS, Buralikson 8. Ms. PreetirekhaChutia, Sericulture Inspector, Golaghat 9. Mr. Probodh Ch. Bora, EE(Irrigation),Golaghat 10. Mr. S Chakraborty, DDM, NABARD 11. Mr. RanjitSarma, DAO, Golaghat 12. Dr. Sanjay Kumar Chetia, Chief Scientist, RARS, AAU, Titabor 13. Mr. Madhujya Pd. Bora, DPM,ASRLM,Golaghat 14. Mr. Simanta Konwar, DFDO, Golaghat 15. Dr. Urmimala B. Kheria ,SDVO, Sorupathar 16. Mr. Sanjib Ranjan Borah, Soil Scientist, RARS, Titabor 17. Ms. Daisy Chowdhury,Medical Officer, SKKCH, OST, Centre 18. Mrs.AratiBailung, Progressive Farmer, Letekuchapori 19. Mrs. Manjuma Begum, Progressive Farmer, DhemajiKoibortaGaon 20. Mr. Niranjan Pegu, Progressive Farmer,Bokakhat 21. Dr. B. C. Deka, Senior Scientist and Head, KVK, Golaghat	1. In case of OFT on Assessment of Biofortified rice variey CR Dhan,the var. either CR310 or CR311 should be taken and *Numali*and farmers own variety should be used as check variety and farmers practice respectively. 2. In the OFT on Black gram, replace the var. SBC-50 with other late sown var. like baki. 3. The var IPCL of pigeon pea, sometimes have indefinite flowering problem. Therefore, before going to implement the OFT, the proper information of the variety should be collected. 4. As per Hon'ble VC, AAU, Jorhat instruction, DEE, AAU, Jorhat advised to take minimum of 5ha demonstration area under *Sali* rice var. *Numali* followed by oilseeds or pulses based on area. 5. In the Apiary, to sustain the bee keeping practice, crop should be planned for round the year and demonstrations should take on cluster basis.	OFT, FLD ,Training programmes and other extension activities for FY 2022-23 have been formulated as per the recommendations

**** Attach a copy of SAC proceedings along with list of participants***

2. DETAILS OF DISTRICT

2.1 Major farming systems/enterprises (based on the analysis made by the KVK)

S. No	Farming system/enterprise
1	Agri-horti
2	Agri-horti-fishery
3	Agri-livestock-fishery
4	Agri-livestock
5	Agri-horti-sericulture
6	Agri-silviculture

2.2 Description of Agro-climatic Zone & major agro-ecological situations (based on soil and topography)

Sl. No	Agro-climatic Zone	Characteristics
1.	Upper Brahmaputra Valley	Existence of high land and plain areas. The soil is immature alluvial to mature alluvial. Considerable vaiations are observed in physiography, climate, soil, flood proneness, socio-economic condition and cropping pattern.
Sl. No	**Agro ecological situation**	**Characteristics**
1.	Humid alluvial flood prone	Alluvial soil, flood regular feature
2.	Humid alluvial flood free	Level land, sandy loam to clay loam soil
3.	Sub-Humid alluvial medium land	Level land, sandy loam to clay loam soil
4.	Sub-humid alluvial high land	Level to undulating land, loam to clay loam soil

2.3Soil type/s:

S. No	Soil type	Characteristics	Area in ha
1.	Inceptisol	Weak profile development	NA
2.	Entisol	Recent soils with no diagnostic horizon	NA
3.	Ultisols	Developed B horizon with Low Base Saturation	NA

2.4. Area, Production and Productivity of major crops cultivated in the district 2019-20

S. No	Crop	Area (ha)	Production (q)	Productivity (q/ha)
	Cereals			
1	Autumn rice	1764	4403	25.36
2	Winter rice	115888	394903	34.60
3	Summer rice	4698	19491	41.49
4	Wheat	104	13300	12.73
5	Maize	173	98700	1.71
6	Small millet	53	260	4.94
	Pulses			
7	Black gram	1155	5760	4.99
8	Green gram	172	920	5.33
9	Lentil	305	2190	7.15
10	Peas	814	9690	11.91
11	Arahar	134	1180	8.75
12	Other rabi pulses	125	650	5.20
	Oilseeds			
13	Rape and Mustard	8086	2787	345
14	Sesamum	263	1540	5.89
	Others			
15	Potato	1591	122340	76.89
16	Sugarcane	2212	257.81	570280
17	Jute	207	22.18	25510
	Horticultural crops			
18	Banana	2655		138.27
19	Pine-apple	254		130.90
20	Papaya	186		133.23
21	Orange	59		101.20
22	Assam lemon	941		73.40
23	Guava	363		153.00
24	Litchi	211		33.74

25	Jackfruit	186		117.41
26	Mango	217		89.40
27	Other fruits	59		15.93
	Spices & Condiments			
28	Chillies	206	1340	6.50
29	Turmeric	312	940	30.0
30	Ginger	739	75670	102.30
31	Blackpepper	150	2230	14.80
32	Other spices	62	530	8.50
	Vegetables			
33	Kharif vegetables	4343	535130	123.20
34	Rabi vegetables	7556	123118	162.94

2.5. Weather data

Month	Rainfall (mm)	Temperature ^{0} C		Relative Humidity (%)
		Maximum	Minimum	
April,2021	69.27	32.85		62.27
May,2021	211.40	30.16		70.92
June,2021	280	31.34		79.72
July,2021	449.60	32.57		81.44
August,2021	194.40	31.18		84.33
September,2021	301	33.03		79.08
October, 2021	130.80	32.21		77.80
November, 2021	22.80	28.65		68.32
December, 2021	3.60	27.07		63.66
January,2022	30.20	24.25		64.44
February,2022	56.20	23.74		72.54
March, 2022	52.7	30.00		74.60

2.6 Production and productivity of livestock, Poultry, Fisheries etc. in the district:

Category	Population	Production	Productivity
Cattle			
Crossbred	28138	20.17	6.6 lit/day for 280 days
Indigenous	490175	17.24	1.2 lit/day for 280 days
Buffalo	49569	6.165	2lit/day for 280 days
Sheep		**NA**	
Crossbred			
Indigenous			
Goats	241012	3657	11.02 Kg meat / goat
Pigs	91027	10428	80 Kg meat / pig
Crossbred			
Indigenous			
Rabbits			
Poultry			
Hens	970890	268 lakhs egg	100egg/hen/year
Desi			
Improved			
Ducks	24137	268 lakhs egg	**80 egg/duck/year**
Turkey and others			

Category	Area	Production	Productivity
Fish			
Fish seed		12.24 million	
Table fish		5085 tones	

Note: Pl. provide the appropriate Unit against each enterprise

2.7 Details of Operational area / Villages (2021-22)

Sl. No.	Taluk	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified thrust area
01	Golaghat	Golaghat West (Bokakhat)	Panbari, Napamua, Lakhipur, Belguri, Durgapur, Rajabari, Japoripothar, Ragdia, Mohmaiki	Rice, fishery, vegetables, rapeseed, boro paddy, Pulses	Injudicious and imbalanced use of chemicals, Under nutrition; food, fad and fallacy	Organic farming, Improved variety, Nutrient management
02		Morongi	Borgoria, Ponka, Kordoiguri, Morongi, Doigrung, Numaligarh, Borchapori	Rice, vegetables, piggery, dairy, mushroom, pulses	i. Low productivity ii. Poor post harvest management iii. Lack of market infrastructure iv. Lack of storage facilities v. Low level of farm mechanization vi. Non availability of women friendly farm tools & equipments vii. Occasional occurrence of flood and drought like situations	1. Widespread promotion of recommended technologies of crops, livestock enterprises 2. Introduction of suitable high yielding/improved varieties/breeds 3. Promoting quality seed/planting material production technology 4. Encouraging farm mechanization 5. Popularization of tools and implements for drudgery reduction of farm women 6. Evaluation, popularization and skill upgradation of IPM and INM technologies for different crops 7. Exploring and facilitating market linkages 8. Integrated farming system approach 9. Agro-based micro and small-scale women run enterprises 10. To create awareness on developing entrepreneurships in agriculture and allied sector 11. Entrepreneurship development among rural youth 12. Capacity building of community based groups and organizations for the socio-economic empowerment of the rural people

03		Golaghat Central (Kothalguri)	Norakonwar, Butoleykhowa, Khumtai, Thengalgaon, Bongaon, Chinnatali, Melamora, Maukhua, Furkating, Jamuguri, Bengenakhuwa, Erengapara, Mudoigaon	Rice, Rapeseed, vegetables, fishery, poultry	Low productivity; Under nutrition; food, fad and fallacy	Rice cum fish culture, Improved crop management, Improved variety, Nutrient management
04		Kakodunga	Baruabamungaon, Chital pathar, Kachubariagaon , Kakodunga (Dergaon)	Rice, vegetables, tea	Low productivity	Crop management, Improved variety, Nutrient management
05		Golaghat North (Dergaon)	Na-bhanga, Sawguri, Dighalipam, Lesapathar, Kuraliguri	Rice, Rapeseed, vegetables, fishery, poultry, dairy	Bacterial wilt of tomato, Late blight of potato, low productivity of crop	Integrated Pest Management, Improved variety, Nutrient management
06		Golaghat East (Padumani)	Kamarbandha, Bokolai, Nagaon,Athkhelia	Rice, Rapeseed, Dairy	Under nutrition; food, fad and fallacy	Crop improvement, Food and nutrition
07		Gamariguri	Merapani, Gamari, Chaudanggaon, Pulibari	Rice, Home science,	Under nutrition; food, fad and fallacy	Crop improvement, Food and nutrition
08		Golaghat South (Sarupathar)	Barbali, Gelabeel, Borpathar	Rice, Rapeseed, vegetables, fishery	Low productivity	Crop improvement, Integrated Pest Management

3. TECHNICAL ACHIEVEMENTS

3. A. Details of target and achievements of mandatory activities by KVK during 2021-22

Discipline	OFT (Technology Assessment and Refinement)				FLD (Oilseeds, Pulses, Maize, Other Crops/Enterprises)			
	Number of OFTs		Number of Farmers		Number of FLDs		Number of Farmers	
	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
Agronomy	4	4	5	5	2	2	10	10
Horticulture	2	4	7	7	2	2	4	4
Soil Science	3	3	9	9	4	4	70	70
Plant Protection	2	0	4	0	2	2	49	49
Animal Science	0	0	0	0	1	1	15	15
Home Science	2	2	4	4	2	2	11	11
Agril. Econ.	0	0	0	0	-	-	-	-
CFLD					3	3	75	75
NEH					16	16	177	177
NARI					3	3	40	40
Total	13	13	29	25	35	35	451	451

Note: Target set during last Annual Zonal Workshop

Training (including sponsored, vocational and other trainings carried under Rainwater Harvesting Unit)					Extension Activities			
3					4			
Number of Courses			Number of Participants		Number of activities		Number of participants	
Clientele	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
Farmers	56	56	1541	1541	214	**214**	**2265**	2265
Rural youth	6	6	143	143	112	112	1222	1222
Extn. Functionaries	4	4	164	164	30	30	462	462
Total	66	66	1848	1848	296	296	3949	3949

Seed Production (ton.)		Planting material (Nos. in lakh)	
5		6	
Target	Achievement	Target	Achievement
Paddy var. Ranjit, TTB-404, Gitesh, Disang, Luit, Mahsuri, Ketekijoha, Bahadur, Swarna Sub-1, Aghoni, Manipuri chahao (area 1.5 ha)	8.85	Black pepper var. Paniur I Arecanut var. Kamrupa Tall Hybrrid Napier	Black pepper var. Paniur I :5000 nos. of cuttings Arecanut var. Kamrupa Tall: 201 no. of saplings Hybrrid Napier: 2000 no. of slits
Toria var. TS 67, TS 38	0.2	Assam Lemon	Assam Lemon: 4300 nos. of cuttings

Note: Target set during last Annual Zonal Workshop

2. B. Abstract of interventions undertaken during 2021-22

Sl. No	Thrust area	Crop/ Enterprise	Identified problems	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Varietal Evaluation	Rice	Lack of suitable submergence tolerant variety	-	Popularization of submergence tolerance paddy variety Swarna sub 1 under ICAR-NEH component	-	-	-	Seeds
		Rice			Popularization of medium duration high yielding *Sali* rice variety Numoli in rice-toria crooping sequence	-	-	-	Seeds, Fertlizer and other critical inputs
		Blackgram	1.Crop loss due to infestation of YMV & CLS 2. Delayed sowing due to flash flood and rain during August	Assessment of new Blackgram variety SBC 50					

2	Drought management	Fox tail millet	Non utilization of cultivable land due to dry spell in summer season	Introduction of fox tail millet on dry spell areas of golaghat district					Seeds, Fertlizer and other critical inputs
3	Integrated crop management	Sesamum	-	-	Demonstration of seasmum var.Sht1 under CFLD	-	-	-	Seeds, vermicompost and other critical inputs
		Toria			Popularization of Toria var. TS-67 under CFLD				
		Black gram	-	-	Demonstration On Scientific cultivation of Black gram var SBC-40 under CFLD.	-	-	-	Seeds, vermicompost, rhizobium, PSB and other critical inputs
		Lentil	-	-	Demonstration On Scientific cultivation of Lentil var. WBL-77 under ICAR NEH component	-	-	-	Seeds, vermicompost, rhizobium, PSB and other critical inputs

		Pumpkin	-	-	Popularization of Scientific cultivation of Pumpkin under ICAR NEH component	-	-	-	Seeds, Fertlizer and other critical inputs
		Dragon Fruit	-	Standarfization of “number of plants per pole” in dragon fruit	-	-	-	-	Planting material, fertilizer
		Litchi	-	-	Establishment of Litchi Village Variety: Tezpur Seedless	-	-	-	Planting material, fertilizer
		Potato	-	-	Popularization of potato varieties KufriJyoti under ICAR-NEH component	-	-	-	Planting material,
		Mustard			Popularization of Musatrd variety Uttara under ICAR-NEH component				Seeds, Fertlizer and other critical inputs
		Mustard			Popularization of Musatrd variety Tapeswari under ICAR-NEH component				Seeds, Fertlizer and other critical inputs

4	Breed introduction	Poultry	Lack of knowledge about new breed of poultry for income generation	-	Popularization of dual purpose Kamrupa poultry under agroclimatic condition of Golaghat district	-	-	-	Chicks, Poultry house
5	Nutrient Management	Rajmah	Injudicious use of chemical fertilizers affect soil health and productivity of the crop	Integrated nutrient management in rajmah in rice pulse cropping sequence	-	-	-	-	Seed, Chemical Fertlizer, *Rhizobium*
		Rice	Deterioration of soil health due to continuous application of chemical fertilizers by farmers		Response of sali rice to Zinc solubilizing bacteria for Zinc nutrition -	-	-	-	Seed, Organic inputs
		Rice	Lack of proper nutrient management by farmers	-	Effect of combined application of Zinc and Boron on Rice – Rapeseed sequence Rice: Ranjit Toria: TS-67	-	-	-	Seed, Critical inputs

		Rice	Lack of proper nutrient management by farmers	Response of *sali* rice to potassium solubilising bacteria for potassium nutrition in rice pea cropping sequence					Seed, Critical inputs
		Blackgram	**P**oor nutrient management affecting crop yield	Assessment of crop yield of Black Gram due to Boron and Sulphur application					Seed, Fertilizer and Critical inputs
		Toria	Lack of proper nutrient management by farmers	Assessment of crop yield of *toria* due to sulphur and boron application	-	-	-	-	Seed, Fertilizer and Critical inputs
6	Bio control	Rice	Crop loss due to Nematode problem	Biocontrol of rice stem borer and leaf folder in Sali rice (var. Ranjit sub-1).	-	-	-	-	Seed, chemical fertilizer, *Bacillus subtilis* @ 20 gm/ Sq. m
7	Organic	Vermicompost	Less use of organic inputs	-	Popularization of the Technique of Round the Year Low Cost Enriched Vermicompost Production	-	-	-	Vermiworm,Polythene sheet, Alluminium wire

		Cauliflower	Injudicious use of chemical fertilizer in vegetables	Cultivation of Cauliflower by using organic source of nutrient	-	-	-	-	Planting materials, Organic inputs
8	Mushroom Production	Mushroom	Lack of high temperature resistant mushroom variety	-	Year round production of oyster mushroom Variety – German Ostreatus Blue Pin (Can withstand upto 40^0 C)	Entrepreneurship development through mushroom production technology	-	-	Mushroom spawn , Polypropylene bag
9	Nutritional care		Low nutrition status in farm families	-	Popularization of Nutrition Garden	-	-	-	Planting materials and Critical inputs
10	Natural Dye		Use of chemicals in Extraction of natural dye	Extraction of natural dye (Annatto seed) with application of *bheemkolkhar* in Cotton and eri yarn					Cotton and eri yarn
11	Value Addition		Value Addition of mushroom		Popularization of Mushroom Nuggets				

3.1 Achievements on technologies assessed and refined during 2021-22

A.1 Abstract of the number of technologies **assessed*** in respect of crops/enterprises

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation	1	0	2	0	0	1	0	0	0	4
Seed / Plant production	0	0	0	0	0	0	0	0	0	0
Weed Management	0	0	0	0	0	0	0	0	0	0
Integrated Crop Management	0	0	1	0	0	0	0	0	0	1
Integrated Nutrient Management	1	1	2	0	0	0	0	0	0	4
Integrated Farming System	0	0	0	0	0	0	0	0	0	0
Mushroom cultivation	0	0	0	0	0	0	0	0	0	0
Drudgery reduction	0	0	0	0	0	0	0	0	0	0
Farm machineries	0	0	0	0	0	0	0	0	0	0
Value addition	0	0	0	0	0	1	0	0	0	1
Integrated Pest Management	0	0	0	0	0	0	0	0	0	0
Integrated Disease Management	0	0	0	0	0	0	0	0	0	0
Resource conservation technology	0	0	0	0	0	0	0	0	0	0
Small Scale income generating enterprises	0	0	0	0	0	0	0	0	0	0
Organic farming	0	0	0	1	1	0	0	0	0	2

Seed Priming	0	0	0	0	0	0	0	0	0	0
Therapeutic diet	1	0	0	0	0	0	0	0	0	1
TOTAL	3	1	5	1	1	2	0	0	0	13

* *Any new technology, which may offer solution to a location specific problem but not tested earlier in a given micro farming situation.*

A.2. Abstract of the number of technologies refined* in respect of crops/enterprises : Nil

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation										
Seed / Plant production										
Weed Management										
Integrated Crop Management										
Integrated Nutrient Management										
Integrated Farming System										
Mushroom cultivation										
Drudgery reduction										
Farm machineries										
Post Harvest Technology										
Integrated Pest Management										
Integrated Disease Management										
Resource conservation technology										
Small Scale income generating enterprises										
TOTAL										

***** *Technology that is refined in collaboration with ICAR/SAU Scientists for improving its effectiveness.*

A.3. Abstract of the number of technologies **assessed** in respect of livestock / enterprises : Nil

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitery	Fisheries	TOTAL
Evaluation of Breeds								
Nutrition Management								
Disease Management								
Value Addition								
Production and Management								
Feed and Fodder								
Small Scale income generating enterprises								
TOTAL								

A.4. Abstract on the number of technologies **refined** in respect of livestock / enterprises : Nil

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitery	Fisheries	TOTAL
Evaluation of Breeds								
Nutrition Management								
Disease of Management								
Value Addition								
Production and Management								
Feed and Fodder								
Small Scale income generating enterprises								
TOTAL								

A.5. Results of On Farm Testing

<table>
<tr><th>Sl. No.</th><th>Title of OFT</th><th>Problem Diagnosed</th><th>Name of Technology Assessed</th><th>Crop/ Cropping system/ Enterprise</th><th>No. of Trials</th><th>Results of Assessment/ Refined (Data on the parameter should be provided)</th><th>Feedback from the farmer</th><th>Feedback to the Researcher</th><th>B.C .Ratio (if applicable)</th></tr>
<tr><td>1</td><td>Assessment of new blackgram variety SBC 50</td><td>Crop loss due to infestation of YMV & CLS, 2. Delayed sowing due to flash flood and rain during August</td><td>T_1: SBC 50+ RDF (60:20:40 kg NPK/ ha),
T_2 : (Check): SBC 40 + RDF (60:20:40 kg NPK/ ha)
T_3: Farmers practice (local matimah without fertilizer)</td><td>Black gram</td><td>3</td><td>
<table>
<tr><td></td><td>SBC 50</td><td>SBC 40</td><td>FP</td></tr>
<tr><td>Plant height</td><td>113</td><td>100</td><td>67</td></tr>
<tr><td>Seed/ pod</td><td>7.11</td><td>7.6</td><td>5</td></tr>
<tr><td>Pod/plant</td><td>97.33</td><td>66.2</td><td>48.66</td></tr>
<tr><td>Pod length</td><td>5.32</td><td>4.52</td><td>4.22</td></tr>
<tr><td>Duration</td><td>87</td><td>85</td><td>95</td></tr>
<tr><td>Yield (q/ha)</td><td>8.7</td><td>6.2</td><td>5.6</td></tr>
<tr><td>GC</td><td>15600</td><td>15600</td><td>13750</td></tr>
<tr><td>GR</td><td>52200</td><td>37200</td><td>33600</td></tr>
<tr><td>NR</td><td>36600</td><td>21600</td><td>19850</td></tr>
<tr><td>B:C ratio</td><td>2.35</td><td>1.4</td><td>1.4</td></tr>
</table>
</td><td>Kept the variety for future use.</td><td>Demo. Variety shows resistance to yellow mosaic virus</td><td>T_1 : 2.35
T_2 : 1.4
T_3 : 1.4</td></tr>
<tr><td>2</td><td>Intercropping of lentil with vegetables</td><td></td><td>T_1 : Lentil + Radish (1:1) (Radish as additive crop in between rows of lentil)
T2: Farmers' practice spacing : 30 cm x 7 cm (in between rows of lentil, radish is sown simultaneously)</td><td>Lenti-Radish</td><td>1</td><td colspan="4">Crop failed due to hailstorm damage</td></tr>
</table>

<table>
<tr>
<td>3</td>
<td>Integrated nutrient management in Rajmah in rice pulse cropping sequence</td>
<td>Injudicious use of chemical fertilizers affect soil health and productivity of the crop</td>
<td>T_1: Application of 60:45:40 kg N: P2O5:K2O /ha (N in 2 equal splits as basal and top dressing at 30 DAS) + Seed inoculation with PSB @ 50 g/kg of seed +3 sprays of 2% urea at pre flowering (45 DAS), 25% pod initiation (60 DAS) and pod development (70 DAS) stages
T_2 :RDF (60:45:40 kg N: P2O5:K2O /ha)
T_3 : Farmers Practice Rajmah var. Arun</td>
<td>Rajmah in Rice-pulse cropping sequence</td>
<td>3</td>
<td>
<table>
<tr><td></td><td>T1</td><td>T2</td><td>T3</td></tr>
<tr><td>Plant height</td><td>32</td><td>29.52</td><td>24.82</td></tr>
<tr><td>Seed/ pod</td><td>5</td><td>4.59</td><td>4</td></tr>
<tr><td>Pod/plant</td><td>19.25</td><td>16.22</td><td>13.75</td></tr>
<tr><td>Pod length</td><td>12.7</td><td>11.6</td><td>10.9</td></tr>
<tr><td>Duration</td><td>93</td><td>93</td><td>93</td></tr>
<tr><td>Yield (q/ha)</td><td>18.74</td><td>16.50</td><td>12.29</td></tr>
<tr><td>GC</td><td>36780</td><td>35780</td><td>30662</td></tr>
<tr><td>GR</td><td>86524</td><td>149920</td><td>113140</td></tr>
<tr><td>NR</td><td>36600</td><td>21600</td><td>19850</td></tr>
<tr><td>B:C ratio</td><td>3.1</td><td>2.69</td><td>2.28</td></tr>
</table>
Paddy var. Ranjit Yield : 44.6 q/ha
Rice equivalent yield of Rajmah: 77.28 q/ha
</td>
<td>Farmers are satisfied</td>
<td>Can be promoted for large scale demonstration</td>
<td>T1:3.1
T2:2.69
T3:2.28</td>
</tr>
<tr>
<td>4</td>
<td>Introduction of fox tail millet on dry spell areas of Golaghat district</td>
<td>Non utilization of cultivable land due to dry spell in summer season</td>
<td>T_1 : variety: local (yellow grain type),
Seed rate: 10 kg/ha
RDF of fertilizer (20:10:10 kg npk/ha)
T2: farmers' practice (no crop cultivated during the season)</td>
<td>fox tail millet</td>
<td>2</td>
<td colspan="3">Ongoing</td>
</tr>
</table>

<table>
<tr>
<td>5</td>
<td>Performance of cauliflower by using organic source of nutrient</td>
<td>1. Injudicious use of chemical fertilizer in vegetable.
2. Low yield in organically grown cauliflower affecting income of the farmers</td>
<td>T1: azotabacter and PSB @ 7.5 g per 100 gm seed rock phosphate @ 375 kg/ha + vermicompost @ 5 tonne per ha main field
T2: FYM @ 10 t, n 80 kg., $p_2 0_5$ 60 kg and $k_2 0$ 60kg/ha.
T3: farmers practice</td>
<td>cauliflower</td>
<td>5</td>
<td>
<table>
<tr><td>Treatments / Parameters</td><td>T1 Organic</td><td>T2 Inorganic</td><td>T3 Farmers Practice</td></tr>
<tr><td>Average wt (gm)</td><td>456 g</td><td>625 g</td><td>388 g</td></tr>
<tr><td>Yield (q/ha)</td><td>182.4</td><td>220.6</td><td>155.2</td></tr>
<tr><td>Cost per Ha (Rs)</td><td>47,802.00</td><td>51,500.00</td><td>39,600.00</td></tr>
<tr><td>Gross Return (Rs)</td><td>2,91,592.00</td><td>3,52,519.00</td><td>2,32,800.00</td></tr>
<tr><td>Net Return (Rs)</td><td>2,43,790.00</td><td>3,01,019.00</td><td>1,93,200.00</td></tr>
<tr><td>B:C Ratio</td><td>5.09</td><td>5.84</td><td>4.87</td></tr>
</table>
</td>
<td>Farmers are satisfied</td>
<td>The cauliflower cultivated by organic source of nutrients exhibit good purple colour while in inorganic, a pale layer is seen. Again in inorganic plot, the plants seen wilting in the noon which is not observed in the organic plant.</td>
<td>T1 Organic : 5.09
T2Inorganic : 5.84
T3 FP : 4.87</td>
</tr>
</table>

<table>
<tr>
<td>6</td>
<td>Organic cultivation of bhut jolokia</td>
<td>Lack of knowledge on organic cultivation of bhut jolokia</td>
<td>T1:organicFYM @ 1kg per pit, azotobacter 5g, PSB 5g, biofor pf 100g per pit within 7 days of transplanting
T2:inorganicnpk @12-6-6 g/pit
T3: Farmers practice</td>
<td>Bhut Jolokia</td>
<td>2</td>
<td>
<table>
<tr><td>Parameters</td><td>T1</td><td>T2</td><td>T3</td></tr>
<tr><td>Fruit weight</td><td>6.62 g</td><td>6.80 g</td><td>6.55</td></tr>
<tr><td>No. of fruit /plant</td><td>204.65</td><td>220.35</td><td>146.50</td></tr>
<tr><td>Average yield/ plant</td><td>1.35 kg</td><td>1.49 kg</td><td>0.959 kg</td></tr>
<tr><td>Average yield/ ha</td><td>229.5</td><td>253.3</td><td>163.03</td></tr>
<tr><td>Cost of cultivation/ ha</td><td>446500</td><td>454000</td><td>425000</td></tr>
<tr><td>Gross return</td><td>3442500</td><td>3799500</td><td>2445450</td></tr>
<tr><td>Net return</td><td>2996000</td><td>3345500</td><td>2020450</td></tr>
<tr><td></td><td></td><td></td><td></td></tr>
</table>
</td>
<td></td>
<td>More trials required before conducting FLD</td>
<td>T1: 6.7
T2: 7.3
T3:4.75</td>
</tr>
</table>

<table>
<tr>
<td>7</td>
<td>Standardization of “number of plants per pole” in dragon fruit</td>
<td></td>
<td>T1: 2(two) plants per pole
T2: 3(three) plants per pole
T3: 4 (four) plants per pole</td>
<td>dragon fruit</td>
<td>1</td>
<td>
<table>
<tr><td>Parameters</td><td>T1</td><td>T2</td><td>T3</td></tr>
<tr><td>Average Plant Height (cm)</td><td>143</td><td>136</td><td>129</td></tr>
<tr><td>Average Number of Branches</td><td>5.6</td><td>7.6</td><td>8</td></tr>
<tr><td>Average Stem Diameter (cm)</td><td>8.55</td><td>8.75</td><td>8.88</td></tr>
<tr><td>Number of fruits per plant</td><td>09</td><td>10</td><td>11</td></tr>
<tr><td>Average Weight of fruit (g)</td><td>127</td><td>145</td><td>156</td></tr>
<tr><td>Yield per plant (Kg)</td><td>1.143</td><td>1.450</td><td>1.72</td></tr>
<tr><td>Pest and Disease incidence</td><td>NIL</td><td>NIL</td><td>NIL</td></tr>
<tr><td>Date of</td><td>01.06.2020</td><td>01.06.2020</td><td>01.06.2020</td></tr>
</table>
</td>
<td>Farmers are satisfied</td>
<td></td>
<td>T1:5.09
T2:5.84
T3: 4.87</td>
</tr>
</table>

						Planting						
						First flowering	24.06.2021	16.06.2021	29.05.2021			
						Days from flower to harvest	32 days	31 days	34 days			

<table>
<tr>
<td>8</td>
<td>Intercropping of blackgram with okra</td>
<td>Low yield with single crop</td>
<td>T_1 : Okra + Blackgram (1:1) (Blackgram as additative crop in between rows of okra)
T2: Farmers' practice
Sowing Time: February-March
Spacing : 45 cm x 45cm (Okra) (in between rows of okra, blackgram is sown simultaneously)</td>
<td>Black gram-Okra</td>
<td>1</td>
<td colspan="4">Ongoing</td>
</tr>
<tr>
<td>9</td>
<td>Response of sali rice to potassium solubilising bacteria for potassium nutrition in rice pea cropping sequence</td>
<td>Deterioration of soil health due to heavy doses of chemical fertilizers by farmers</td>
<td>
<table>
<tr><th>Technology</th><th>Paddy</th><th>Pea</th></tr>
<tr><td>T_1</td><td>RD of NPK +Microbial consortia of PSB</td><td>RD of NPK @ 20:46:0 kg/ha</td></tr>
<tr><td>T2</td><td>RD of NPK @ 60:20:20 kg/ha</td><td>RD of NPK @ 20:46:0 kg/ha</td></tr>
<tr><td>T3</td><td>Farmers' practice</td><td>Farmers' practice</td></tr>
</table>
</td>
<td>Rice pea cropping Sequence</td>
<td>3</td>
<td>Result for paddy var. Ranjit
<table>
<tr><th></th><th>T1</th><th>T2</th><th>T3</th></tr>
<tr><td>Plant height</td><td>1.23 m</td><td>1.29</td><td>1.10</td></tr>
<tr><td>No. of tillers/ hill</td><td>16.75</td><td>14.12</td><td>13.66</td></tr>
<tr><td>No. of seeds /panicle</td><td>240.33</td><td>208.4</td><td>166</td></tr>
<tr><td>1000 grain weight (gm)</td><td>19.55</td><td>18.52</td><td>18.24</td></tr>
<tr><td>Date of planting</td><td>17/6/21</td><td>17/6/21</td><td>17/6/21</td></tr>
<tr><td>Date of maturity</td><td>18/11/21</td><td>18/11/21</td><td>18/11/21</td></tr>
<tr><td>Yield (t/ha)</td><td>5.12</td><td>4.87</td><td>4.46</td></tr>
<tr><td>Net return (Rs./ha)</td><td>59628</td><td>55878</td><td>49024</td></tr>
</table>
</td>
<td>Farmers are satisfied with the yield after application of potassium solubilising bacteria</td>
<td></td>
<td>B:C ratio for the first crop paddy var. Ranjit
T1: 1.50
T2 : 1.44
T3: 1.31

B:C ratio for the second crop hybrid pea : 1.27</td>
</tr>
</table>

<table>
<tr><td></td><td></td><td></td><td></td><td></td><td></td><td>Result for second crop Pea<table><tr><td></td><td>Yield (t/ha)</td><td>GR (Rs,/ha)</td></tr><tr><td>Pea hybrid</td><td>8.75</td><td>39375</td></tr></table></td><td></td><td></td><td></td></tr>
<tr><td>10</td><td>Assessment of crop yield of Black Gram due to Boron and Sulphur application</td><td>Poor nutrient management affecting crop yield</td><td>T1: S @20kg/ha + B @1. kg/ha +RDNPK(15:35:15)
T2: RD of NPK @ 15:35:15 kg/ha
T_3 : Farmers Practice</td><td>Black Gram</td><td>3</td><td><table><tr><td></td><td>Yield (q/ha)</td><td>NR (Rs,/ha)</td></tr><tr><td>T1</td><td>8.5</td><td>40300.00</td></tr><tr><td>T2</td><td>7.43</td><td>34210.00</td></tr><tr><td>T3</td><td>5.7</td><td>24600.00</td></tr></table></td><td>Farmers are satisfied with the yield and agreed to use sulphur and Boron to increase crop yield</td><td></td><td>T1: 2.1
T2: 1.92
T3: 1.61</td></tr>
<tr><td>11</td><td>Assessment of crop yield of toria due to sulphur and boron application</td><td>Lack of proper nutrient management by farmers</td><td>T1: S @20kg/ha + B @1.5 kg/ha +RDNPK
T2: RD of NPK @ 40:35:15 kg/ha</td><td>Toria var. TS-67</td><td>3</td><td><table><tr><td></td><td>Yield (q/ha)</td><td>NR (Rs,/ha)</td></tr><tr><td>T1</td><td>9.33</td><td>31565</td></tr><tr><td>T2</td><td>8.4</td><td>27400</td></tr><tr><td>T3</td><td>7.5</td><td>23800</td></tr></table></td><td>Farmers are satisfied with the yield and agreed to use sulphur and Boron to increase crop yield</td><td></td><td>T1: 1.6
T2: 1.46
T3: 1.36</td></tr>
</table>

<table>
<tr>
<td>12</td>
<td>Feeding trial of supplementation of low glycemic diabetic mix</td>
<td></td>
<td>Low Glycemic Diabetic Mix Developed by AICRP on Home Science, Food and Nutrition Component, AAU, Jorhat</td>
<td>Low Glycemic Diabetic Mix</td>
<td>1</td>
<td>
Before Intervention
<table>
<tr><td colspan="4">Nutritiopnal Parameters</td></tr>
<tr><td>group</td><td>Wt (Kg)</td><td>Height (cm)</td><td>BMI</td></tr>
<tr><td>Experimental group</td><td>64</td><td>135</td><td>35.1</td></tr>
<tr><td>Control</td><td>49</td><td>149</td><td>22.1</td></tr>
<tr><td colspan="4">Biochemical parameters</td></tr>
<tr><td></td><td>FBS mg/dl</td><td>PPBS mg/dl</td><td></td></tr>
<tr><td>Experimental group</td><td>108. 4</td><td>190.7</td><td></td></tr>
<tr><td>Control</td><td>200</td><td>290</td><td></td></tr>
</table>
After Intervention
<table>
<tr><td colspan="4">Nutritiopnal Parameters</td></tr>
<tr><td>group</td><td>Wt (Kg)</td><td>Height (cm)</td><td>BMI</td></tr>
<tr><td>Experimental group</td><td>60</td><td>135</td><td>32.96</td></tr>
<tr><td>Control</td><td>46</td><td>149</td><td>20.72</td></tr>
<tr><td colspan="4">Biochemical parameters</td></tr>
<tr><td>group</td><td>FBS mg/dl</td><td>PPBS mg/dl</td><td></td></tr>
<tr><td>Experimental group</td><td>115.4</td><td>175.6</td><td></td></tr>
<tr><td>Control</td><td>233</td><td>306</td><td></td></tr>
</table>
</td>
</tr>
</table>

<table>
<tr>
<td>13</td>
<td>Extraction of natural dye (Annatto seed) with application of bheemkolkhar in Cotton and eri yarn</td>
<td></td>
<td>T1: Use of Beemkol Khar instead of Sodium carbonate extraction of natural dye (annatto Seed).
Use of five (5) different concentration (10ml, 15ml, 20 ml,25ml and 30 ml) of kolkhar.
Dye extracted from annatto seed (250 gm annatto seed / liter water).
Concentration of natural dye will remain constant i.e1000ml dye solution for 100 gm yarn.
T2: Farmers Practice [with Sodium bicarbonate (washing soda) treatment at different concentration (10ml, 15ml, 20 ml,25ml and 30 ml)].</td>
<td>Natural dye</td>
<td></td>
<td>
<table>
<tr><th>Sample</th><th>Change in colour</th><th>Staining to adjacent fabric</th><th>Colour fastness to rubbing (Dry)</th><th>Colour fastness to rubbing (wet)</th></tr>
<tr><td>10 ml Kal Khar applied (Cotton)</td><td>4</td><td>3-4</td><td>4-5</td><td>4</td></tr>
<tr><td>15 ml Kal Khar applied (Cotton)</td><td>3</td><td>4</td><td>4</td><td>3-4</td></tr>
<tr><td>20 ml Kal Khar applied (Cotton)</td><td>3-4</td><td>4</td><td>4</td><td>3-4</td></tr>
<tr><td>25 ml KalKhar applied (Cotton)</td><td>3</td><td>3-4</td><td>4</td><td>3-4</td></tr>
<tr><td>30 ml Kal Khar applied (Cotton)</td><td>3</td><td>4</td><td>3-4</td><td>3</td></tr>
<tr><td>Control</td><td>3-4</td><td>3</td><td>3-4</td><td>2-3</td></tr>
<tr><td>10 ml Kal Khar applied (Eri)</td><td>3</td><td>3-4</td><td>3-4</td><td>3-4</td></tr>
<tr><td>15 ml Kal Khar applied (Eri)</td><td>3</td><td>3</td><td>3</td><td>3-4</td></tr>
<tr><td>20 ml Kal Khar applied ((Eri)</td><td>3</td><td>3</td><td>3</td><td>3-4</td></tr>
<tr><td>25 ml KalKhar applied ((Eri)</td><td>3</td><td>3</td><td>3</td><td>3</td></tr>
<tr><td>30 ml Kal Khar applied ((Eri)</td><td>3</td><td>3</td><td>3</td><td>2-3</td></tr>
<tr><td>Control</td><td>3</td><td>3</td><td>3</td><td>2-3</td></tr>
</table>
</td>
</tr>
</table>

Discipline: Agricultural Extension

1. **STUDY ON DEMAND AND SUPPLY ANALYSIS OF FOOD GRAINS IN GOLAGHAT DISTRICT**

Methodology:

To find out demand and supply of food grains in districts, we need following secondary data.

For Demand:

1. District adult male population
2. District adult female population
3. Children below 14 years

For supply:

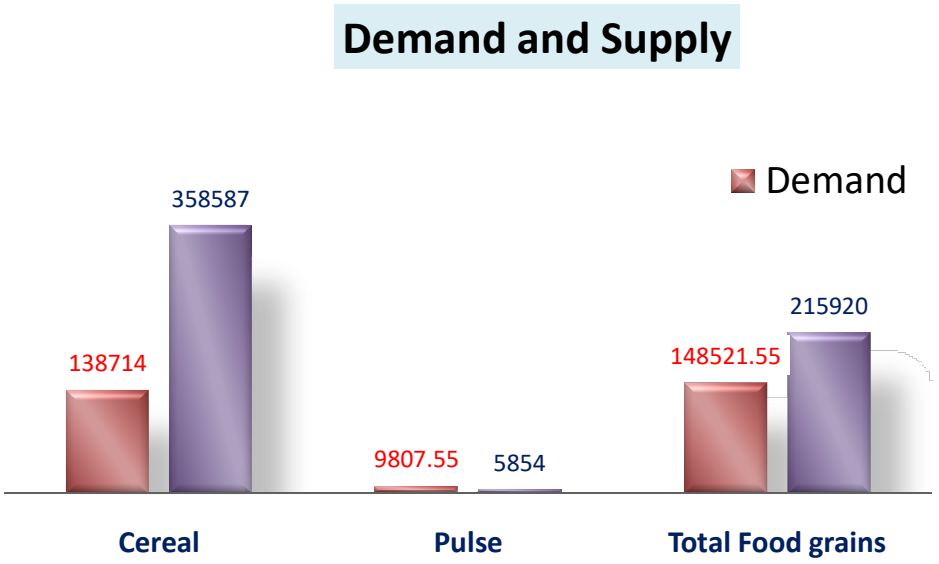
1. Total food grain production in the district

Food grain we take Cereal and Pulse

- Consumption of food different for different category, as female and children consume less than male,

So, following conversion has been done

- **3 adult female = 2 adult Male**
- **2 Children = 1 adult Male**



2. STUDY ON DEMAND AND SUPPLY ANALYSIS OF FOOD GRAINS IN GOLAGHAT DISTRICT

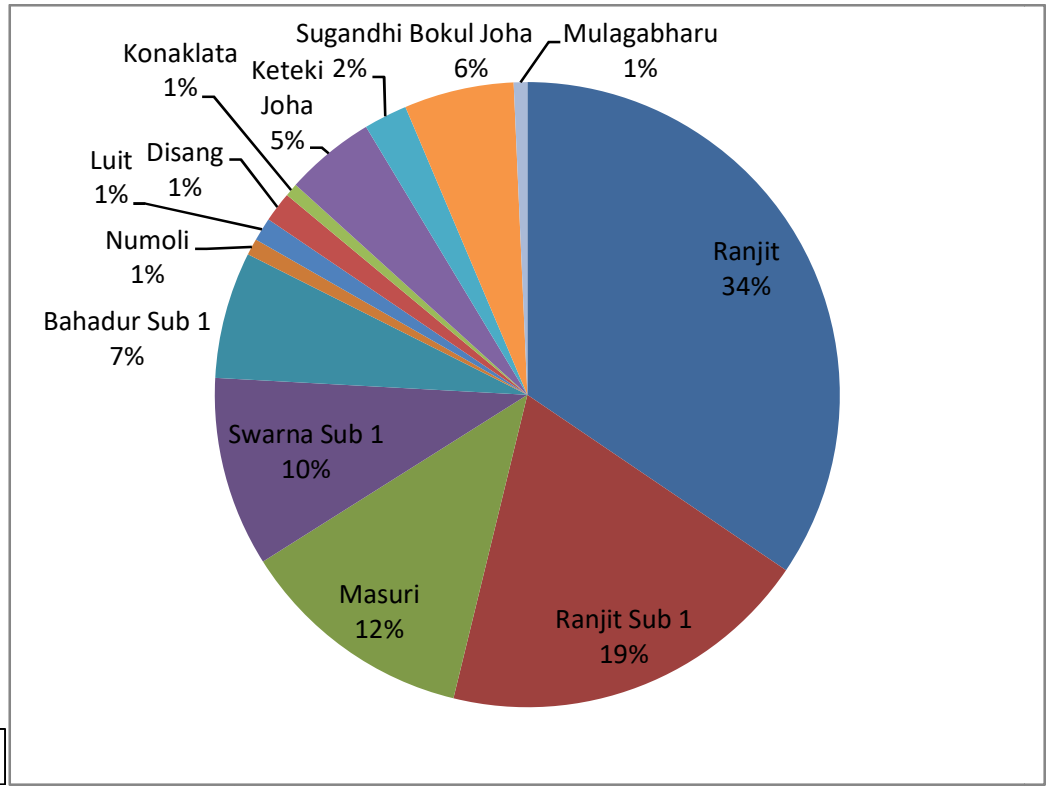
- **Demand for cereals=1,38,714 MT**
- **Demand for pulses=9,807.55 MT**
- **Total demand for Food grains =1,48,521.55 MT**
- **Supply of cereals=3,58,587 MT**
- **Supply of pulses=5,854 MT**
- **Total supply of foodgrains= 3,64,441 MT**
- **Hence, Golaghat district is a surplus producer of cereals and deficit producer of pulses. Overall the district is self sufficient in total food grain production by 2,15,920 MT.**

3. Study on Adoption of Major AAU rice varieties of Assam:

- **Method of data collection: Door to door survey**
  - **Sampling method: Random sampling**
  - **Sample Size: 200 nos. of farmers (Including marginal, small, medium and large farmers at the ratio of 1:2:3:4)**
  - **Method of analysis:**

1. Percentage analysis conducted for adoption of AAU rice varieties

Varieties	Frequency	Percentage (%)
Ranjit	200	100.00
Ranjit Sub 1	112	56.00
Masuri	71	35.50
Swarna Sub 1	57	28.50
Bahadur Sub 1	38	19.00
Numoli	5	2.50
Luit	7	3.50
Disang	9	4.00
Konaklata	4	2.00
Keteki Joha	27	13.5
Sugandhi	13	6.50
Bokul Joha	33	16.5
Mulagabharu	4	2.00



n=200

Correlation co-efficients of extent of adoption with socio economic parameters

Socio-Economic parameters	r value
Age	0.39
Education	-0.20
Income	-0.17
Access to extension services	0.58
Access to market	0.42
Access to inputs	0.34
Land Holding	0.19

Hence, Age, Access to market, inputs, extension services has positive correlation. Moreover, Education and Income has negative correlation .

3.2 Achievements of Frontline Demonstrations during 2021-22

a. Follow-up for results of FLDs implemented during previous years

List of technologies demonstrated during previous year and popularized during 2020-21 and recommended for large scale adoption in the district

Sl. No	Crop/ Enterprise	Technology demonstrated	Horizontal spread of technology		
			No. of villages	No. of farmers	Area in ha
1	Paddy	Var. Ranjit sub-1	125	>1000	>2500
2	Toria	Var. TS-67	50	>800	>1000
3	Sesamum	Var. Bohuwabheti local	29	>160	>136
4	Blackgram	Var. PU-31	15	>125	>120 ha
5	Lentil	KLS-218	12	80	102

**** Thematic areas as given in Table 3.1 (A1 and A2)***

b. Details of FLDs conducted during reporting period (Information is to be furnished in the following **three tables** for **each category** i.e. **cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops**.)

FLD on Cereals:

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement	Farming situation (Rainfed/ Irrigated, Soil type, altitude, etc)	Status of soil (Kg/ha)		
					Proposed	Actual	SC/ST	Others	Total			N	P	K
1.	Winter Rice	Cropping sequence	Performance of high yielding medium duration *sali* rice variety Numoli in rice toria cropping sequence Technology : T_1: Numoli + RDF (60:20:40 kg NPK/ ha), T_2 (FP): Bais dhan (60:20:40 kg NPK/ ha)	Kharif, 2021-22	2	2	2	3	5	NA	Rainfed			
2	Winter Rice	Varietal Performance	Performance of high yielding *sali* rice variety Swarna sub-1 under ICAR NEH component Technology : Sali rice var. Swarna sub-1 + RDF (60:20:40 kg NPK/ ha) Check: Var. Ranjit +RDF	Kharif, 2021-22	5	5	0	14	14	NA	Rainfed			
3	Winter Rice	Nutrient management	Popularization of combined application of Zinc and Boron on Rice – Toria sequence Rice var. Ranjit Sub1 For Sali rice: T1: 1.5 kg B/ha + 5 kg Zn/ha + RD of NPK (60:20:40) T2: RD of NPK:: 60:20:40 For *Toria :* T1: RD of NPK::40:35:15 T2: RD of NPK::40:35:15 Sali rice var. Ranjit sub-1 Toria : var. TS-67	Kharif, 21-22 Rabi, 21-22	2	2	0	15	15	NA	Rainfed	314.76	34.28	87.4

4	Winter Rice	Nutrient management	Popularization of Zinc Solubilising Bacteria (ZSB) For Zn nutrition in Zn deficient sites in Rice-Rice cropping sequence var. Ranjit, Disang T1: Paddy var. Ranjit:ZSB @ 3.5 kg/ha + RD of NPK (60:20:40) kg/ ha Paddy var. Disang: RD of NPK @ (60:20:20) kg/ha T2: Paddy var. Ranjit:RD of NPK @ 60:20:40 kg/ha Paddy var. Disang: RD of NPK @ (60:20:20) kg/ha T3: Farmers practice	Kharif, 21-22	2	2	1	14	15	NA	Rainfed	291	43.2	107.2
5	Winter Rice	Biological control (Insect/pest/ weeds etc)	Biocontrol of rice stemborer and leaf folder in Sali rice(var. Ranjit sub-1). Six releases of Trichogramma japonicum @ 50,000/ha/week, use of pheromone trap, use of neem based pesticide @ 5 m/lit, bird perch etc.	Kharif, 21-22	2	2	5	5	10	NA	Rainfed			

Performance on FLD on Cereals:

Sl. No.	Crop	Thematic area	Area (ha.)	Avg. yield (Q/ha.)		% increase in Avg. yield	Additional data on demo. yield (Q/ha.)		Data on parameters other than yield, e.g., disease incidence, pest incidence etc.		Econ. of demo. (Rs./ha.)				Econ. of check (Rs./Ha.)			
				Demo.	Check		H*	L*	Demo	Local	GC**	GR**	NR**	BCR**	GC	GR	NR	BCR
1.	Winter Rice	Cropping sequence	2	48.4	37.2	30.1	48.8	48			38600	93896	55296	1.43	34500	72168	55296	1.43
2	Winter Rice	Varietal Performance	5	51.66	50.66	1.97	52	51.32			39700	100220	60520	1.52	36460	92500	56040	1.5
3	Winter Rice-Toria	Nutrient management	2	53.7	50.2	6.97	54.4	53			39700	104178	64478	1.62	37900	97388	59488	1.57
				9	7.44	20.97	11	7			19750	49500	29750	1.51	17480	40920	23470	1.34
4	Winter Rice	Nutrient management	2	49.86	43.9	13.58	51.26	48.46	Palnt Height: 1.22 m No. of Tiller/ hill: 15.66 No. of Seeds/panicle: 268.22 100 grain weight:19.44 g	Palnt Height: 1.01m No. of Tiller/hill: 11.33 No. of Seeds/panicle: 195.66 100 grain weight:18.78	39300	96728	57428	1.50	38600	85166	46566	1.21

5	Winter Rice	Biological control (Insect/pest/ weeds etc)	2	54	48.02	12.45	55	53	No major pest and disease was recorded.	Recorded 0.002% infestation of Stem borer, 0.01% infestation by rice hispa and 0.01% infection of leaf blast. Though crop suffers drought during panicle initiation stage, it did not hamper in yield.	39040	105540	66500	1.7	37670	95709	58039	1.54

Sl.No.	Activity	No. of activities organised	Date	Number of participants			Remarks
				Gen	SC/ST	Total	
1	Field days	Popularization of medium duration paddy var. Numali in rice-toria cropping sequence	20.11.21	24	1	25	
		Popularization of Zinc solubilizing bacteria for zinc nutrition in rice in rice-toria cropping sequence	22.11.21	21	4	25	
2	Farmers Training						

3	Media coverage						
4	Training for extension functionaries						
5	Any other (Pl. specify)						
	Total	**2**		45	5	50	

FLD on Oilseed:

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement	Farming situation (Rainfed/ Irrigated, Soil type, altitude, etc)	Status of soil (Kg/ha)		
					Proposed	Actual	SC/ST	Others	Total			N	P	K
1	**Toria**	Integrated Crop Management (ICM) (	Popularizartion of Late sown toria var. TS-67 Technology: HYV "TS 67"+RDF (60:20:40 kg NPK/ha) Farmers Practice: Local Variety	Rabi 2021-22	2	2	0	5	5	N.A.	Rainfed			

2	**Toria**	Integrated Crop Management (ICM) (	Popularizartion of Late sown toria var. TS-67(Under CFLD)Technology : HYV “TS 67”+RDF (60:20:40 kg NPK/ha) Farmers Practice: Local Variety (Under CFLD)	Rabi 2021-22	10	10	10	15	25	NA	Rainfed			
3	**Sesamum**	Integrated Nutrient Management (INM) (	Scientific cultivation of Sesamum (under CFLD) Demo: Sesamum variety Sh T1, sowing time: Mid August to mid September, Seed rate: 4kg/ha, Vermicompost : 1t/ha Check:	Kharif 2021-22	10	10	8	17	25	NA	Rainfed			
4	**Mustard**	Integrated Crop Management (ICM)	Mustrad var. Tapeswari under ICAR-NEH Check: var. NRCHB-101	Rabi 2021-22	6	6	0	6	6	NA	Rainfed			

5	**Mustard**	Integrated Crop Management (ICM)	Mustard var. Uttara under ICAR-NEH Check: var. NRCHB-101	Rabi 2021-22	9	9	0	9	9	NA	Rainfed			

Performance of FLD:

Sl. No.	Crop	Thematic area	Area (ha.)	Avg. yield (Q/ha.)		% increase in Avg. yield	Additional data on demo. yield (Q/ha.)		Data on parameters other than yield, e.g., disease incidence, pest incidence etc.		Econ. of demo. (Rs./ha.)				Econ. of check (Rs./Ha.)			
				Demo.	Check		H*	L*	Demo	Local	GC**	GR**	NR**	BCR**	GC	GR	NR	BCR
1	**Toria**	Integrated Crop Management (ICM)	2	10.60	8.66	22.4	12	9.2	-	-	19750	52950	33200	1.68	17450	43250	25800	1.47
2	**Toria**	Integrated Crop Management (ICM) under CFLD	10	8.6	7.2	19.44	8.9	8.3			17700	43000	25300	1.43	17700	36000	8300	1.03

3	**Sesamum**	Integrated Nutreint Management (INM) under CFLD	10	4.8	3.58	34.08	5.2	4.4			19500	44200	24700	1.3	17800	37400	19600	1.1
4	**Mustard**	ICM	2	**14.66**	**11.25**	**83.25**					**24500**	**80630**	56130	**2.3**	24500	61875	37375	1.5
5	**Mustard**	ICM	2	**19**	**11.25**	**137.5**					**24500**	**95000**	**70500**	**2.88**	24500	61875	37375	1.5

Sl.No.	**Activity**	**No. of activities organised**	**Date**	**Number of participants**			**Remarks**
				Gen	**SC/ST**	**Total**	
1	Field days	Field day under Cluster Frontline Demonstration on Rabi oilseed toria var. TS-67	22.03.2022	23	2	25	
		Field day under Cluster Frontline Demonstration on Kharif oilseed sesamum var. ShT1	10.12.2021	16	9	25	
2	Farmers Training						
3	Media coverage						
4	Training for extension functionaries						
5	Any other (Pl. specify)						
	Total						

FLD on Pulses:

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement	Farming situation(Rainfed/ Irrigated, Soil type, altitude, etc)	Status of soil (Kg/ha)		
					Proposed	Actual	SC/ST	Others	Total			N	P	K
1	Blackgram	Integrated Crop Management	Scientific cultivation of Blackgram under CFLD Demo: Seed rate : 20kg/ha Variety : SBC 40 Seed treatment with Rhizobium : @ 50 g/ kg of seed Time of sowing : mid Aug to mid Sep Vermicompost: 1 t/ha Check: Seed rate : 20 kg/ha Variety : Local matimah Time of sowing : Mid August to mid september	Kharif 2021-22	20	20	12	38	50	NA	Rainfed			
	Lentil	Integrated Crop Management	Popularization of Lentil var.Lentil var. WBL-77 Under ICAR NEH component	Rabi 2021-22	3	3	5	10	15	NA	Rainfed			
3	Pea	Integrated crop management	Demonstration On Scientific cultivation of Pea(under ICAR-NEH component)	Rabi 2017-18	1	1	3	2	5	NA	Rainfed			

Performance of FLD:

Sl. No.	Crop	Thematic area	Area (ha.)	Avg. yield (Q/ha.)		% increase in Avg. yield	Additional data on demo. yield (Q/ha.)		Data on parameters other than yield, e.g., disease incidence, pest incidence etc.		Econ. of demo. (Rs./ha.)				Econ. of check (Rs./Ha.)			
				Demo.	Check		H*	L*	Demo	Local	GC**	GR**	NR**	BCR**	GC	GR	NR	BCR
1	Blackgram	Integrated crop management	20	9.4	6.5	44.61	11	7.8			17800	65800	48000	2.70	13500	42250	28750	2.13
2	Lentil	Integrated crop management	3	5.6	4.32	26.63	5.8	5.4	-	-	15700	44800	29100	1.85	13500	34560	21060	1.5
3	Pea	Integrated crop management	1	72.16	69.12	4.28	90	54.32			64699	180400	115701	1.78	64699	172800	108101	1.67

Extension and Training activities under FLD on Crops

Sl.No.	Activity	No. of activities organised	Date	Number of participants			Remarks
				Gen	SC/ST	Total	
1	Field days	Field day under Cluster Frontline Demonstration on kharif pulse black gram var. SBC 40	12.12.2021	0	25	25	
2	Farmers Training						
3	Media coverage						
4	Training for extension functionaries						
	Total						

Horticultural Crops:

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement	Farming situation (Rainfed/ Irrigated, Soil type, altitude, etc)	Status of soil (Kg/ha)		
					Proposed	Actual	SC/ST	Others	Total			N	P	K
1	Arecanut, Banana, Black pepper, Pineapple	Rejuvenation of old orchards	Rejuvenation of Existing Assamese Bari with inclusion of multi crop Crop: Arecanut, Banana, Black pepper, Pineapple	Year round	0.195	0.195	0	2	2	NA	Rainfed			
2	Strawberry	Cultivation of fruits	Popularization of scientific cultivation of strawberry Variety : Sweet Charlie Planting time: November Spacing: 30 cm x 60 cm Cultivation situation: Open condition Fertilizer: 20 tonnes FYM and 20:40:40 NPK kg per ha	Rabi 2021-22	225 nos.	225 nos.	0	1	1	NA	Rainfed			

3	Bittergourd	Cultivation of vegetables	Var. Navbharati	Rabi 2021-22	1.5	1.5	2	22	24	NA	Rainfed			
4	Cabbage	Cultivation of vegetables	Var. NSC 103B	Rabi 2021-22	0.75	0.75	4	9	13	NA	Rainfed			
5	Cauliflower	Cultivation of vegetables	Var. NSC 101B	Rabi 2021-22	0.75	0.75	3	13	16	NA	Rainfed			
6	Chilli	Cultivation of vegetables	Scientific cultivation of chilli	Rabi 2021-22	0.5	0.5	3	13	16	NA	Rainfed			
7	Corriander	Cultivation of vegetables	Scientific cultivation of Corriander	Rabi 2021-22	1	1	2	10	12	NA	Rainfed			
8	Pumpkin	Cultivation of vegetables	Scientific cultivation of Pumpkin	Rabi 2021-22	2	2	0	8	8	NA	Rainfed			

c. Performance of FLD on Horticultural Crops

Sl. No.	Crop	Thematic area	Area (ha.)	Avg. yield (Q/ha.)		% increase in Avg. yield	Additional data on demo. yield (Q/ha.)		Data on parameters other than yield, e.g., disease incidence, pest incidence etc.		Econ. of demo. (Rs./ha.)				Econ. of check (Rs./Ha.)			
				Demo.	Check		H*	L*	Demo	Local	GC**	GR**	NR**	BCR**	GC	GR	NR	BCR
1	Arecanut, Banana, Black pepper, Pineapple	Rejuvenation of old orchards	0.195	Ongoing														
2	Strawberry	Cultivation of Fruit	225 nos.	178.51	152.59	16.84	180.74	176.29			214000	785350	571380	2.67	214000	755420	541420	2.53
3	Bittergourd	Cultivation of vegetables	1.5	101q/ha	98 q/ha	3.06	103	99			42000	121200	79200	1.88	42000	117600	75600	1.55
4	Cabbage	Cultivation of vegetables	0.75	195q/ha	190 q/ha	2.63	197	193			51500	195000	143500	2.78	51500	190000	138500	2.68

5	Cauliflower	Cultivation of vegetables	0.75	151 q/ha	148 q/ha	4.13	155	147			51500	151000	99500	1.93	51500	148000	96500	1.87
6	Chilli	Cultivation of vegetables	0.5	69 q/ha	60 q/ha	15	72	66			36000	138000	102000	2.83	36000	120000	84000	2.33
7	Corriander	Cultivation of vegetables	1	12 q/ha	9.5 q/ha	26.32	14	10			22000	60000	38000	1.72	22000	47500	25500	1.15
8	Pumpkin	Cultivation of vegetables	2	150 q/ha	130 q/ha	15	170	130			82079	600000	517921	6.31	82079	520270	438191	5.33

d. Extension and Training activities under FLD on Horticultural crops

Sl.No.	Activity	No. of activities organised	Date	Number of participants			Remarks
				Gen	SC/ST	Total	
1	Field days	0					
2	Farmers Training						
3	Media coverage						
4	Training for extension functionaries						
5	Any other (Pl. specify)						
	Total	**0**					

FLD on Tuber crops:

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement	Farming situation(Rainfed/ Irrigated, Soil type, altitude, etc)	Status of soil (Kg/ha)		
					Proposed	Actual	SC/ST	Others	Total			N	P	K
1	Potato	Integrated crop management	Demonstration On Scientific Cultivation of Potato Technology : HYV "Kufri Jyoti" Farmers Practice: Tholuwa Aalu	Rabi 2021-22	1	1	12	20	32	NA	Rainfed	397.53	32.00	242.51

Performance of FLD:

Sl. No.	Crop	Thematic area	Area (ha.)	Avg. yield (Q/ha.)		% increase in Avg. yield	Additional data on demo. yield (Q/ha.)		Data on parameters other than yield, e.g., disease incidence, pest incidence etc.		Econ. of demo. (Rs./ha.)				Econ. of check (Rs./Ha.)			
				Demo.	Check		H*	L*	Demo	Local	GC**	GR**	NR**	BCR**	GC	GR	NR	BCR
1	Potato	Integrated crop management	1	102	67	52.24	104	100			65200	153000	87800	2.35	61800	139500	77700	2.26

Extension and Training activities under FLD on Crops

Sl.No.	Activity	No. of activities organised	Date	Number of participants			Remarks
				Gen	SC/ST	Total	
1	Field days						
2	Farmers Training						
3	Media coverage						
4	Training for extension functionaries						
5	Any other (Pl. specify)						
	Total						

e. Details of FLD on Enterprises

(i) Farm Implements: Nil

Name of the implement	Crop	No. of farmers	Area (ha)	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated		% change in the parameter	Remarks
					Demon.	Local check		

**** Field efficiency, labour saving etc.***

(ii) Livestock Enterprises

Sl. No.	Enterprise/ Category (e.g., Dairy, Poultry etc.)	Thematic area	Name of Technology	No. of farmers	No. of units	No. of animals, poultry birds etc.	Major Performance parameters / indicators		% change in the parameter	Other parameters (if any)		Econ. of demo. (Rs./Ha.)				Econ. of check (Rs./Ha.)				Remarks
							Demo	Check		Demo	Check	GC**	GR**	NR**	BCR**	GC	GR	NR	BCR	
1	Poultry	Breed introduction	Popularization of Kamrupa Breed of Poultry under agroclimatic condition of Golaghat District	15	15	400	Ongoing. i) Birds have started laying eggs at the age of 5.5 months @ 16 – 19 eggs /month ii) Average egg weight :28- 35 gm. iii) Birds weigh an average of 2.3 Kg in 06 months .													
2	Duck	Breed introduction	Popularization of White Pekin breed of duck in backyard farming as an income generating source for Doubling farmers income	15	15	300	Ongoing													
3	Poultry	Breed introducti	Popularization of dual	15	15	300	Ongoing													

<table>
<tr><td></td><td></td><td>on</td><td>purpose poultry kamrupa to enhance nutrition security of farm families under NARI project</td><td></td><td></td><td></td><td><table>
<tr><th>Age (Days)</th><th>Average Body Weight (Female)</th><th>Average Body Weight (Male)</th></tr>
<tr><td>1 month</td><td>365g</td><td>275g</td></tr>
<tr><td>2 month</td><td>525g</td><td>470g</td></tr>
<tr><td>3 month</td><td>670g</td><td>580g</td></tr>
<tr><td>4months</td><td>800g</td><td>730g</td></tr>
<tr><td>5 months</td><td>1020g</td><td>975g</td></tr>
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<tr><td>4</td><td>Poultry</td><td>Breed introduction</td><td>Development of Cluster Poultry Village (Low input Technology bird) under NRL project</td><td>20</td><td>20</td><td>760</td><td>Ongoing</td></tr>
<tr><td>5</td><td>Poultry</td><td>Breed introduction</td><td>Development of Cluster Poultry Village (RIR BIRD) under NRL project</td><td>20</td><td>20</td><td>760</td><td>Ongoing</td></tr>
<tr><td>6</td><td>Poultry</td><td>Breed introduction</td><td>Development of Cluster Poultry Village (Kadaknath) under NRL project</td><td>2 SHG</td><td>2 SHG</td><td>800</td><td>Ongoing</td></tr>
<tr><td>7</td><td>Poultry</td><td>Breed introduction</td><td>Development of Cluster Poultry Village (Sonali) under NRL project</td><td>30</td><td>30</td><td>1100</td><td>Ongoing</td></tr>
</table>

(iii) Fisheries: Nil

Sl. No.	Category, e.g. Common carp, ornamental fish etc.	Thematic area	Name of Technology	No. of farmers	No. of units	No. of fish/ fingerlings	Major Performance parameters / indicators		% change in the parameter	Other parameters (if any)		Econ. of demo. (Rs./Ha.)				Econ. of check (Rs./Ha.)				Remarks
							Demo	Check		Demo	Check	GC**	GR**	NR**	BCR**	GC	GR	NR	BCR	

(iv) Other enterprises

Sl. No.	Category/ Enterprise, e.g., mushroom, vermicompost, apiculture etc.	Thematic area	Name of Technology	No. of farmers	No. of units	Major Performance parameters / indicators		% change in the parameter	Other parameters (if any)		Econ. of demo. (Rs./Ha.)				Econ. of check (Rs./Ha.)				Remarks
						Demo	Check		Demo	Check	GC**	GR**	NR**	BCR**	GC	GR	NR	BCR	
1	Mushroom	Other beneficial organisms	Popularization of Cultivation of Oyster Mushroom Var. German Ostreatus Blue Pin	48	10 (500 bed	**2 kg/ bed**	**1.3 kg/bed**	**53.84**	Pest incidence : Nil	Pest incidence : 0.02 %	**Rs. 80.00/ bed**	**Rs. 420.00/ bed**	**Rs. 340.00/ bed**	**5.25**	**Rs. 90.00/ bed**	**Rs. 400.00/ bed**	**Rs. 310.00/ bed**	**4.44**	

2	Vermicompost	Soil health	Popularization of the technique of round the year Low Cost Enriched Vermicompost Production	20	20	Ongoing
3	Azolla	Soil health	Popularization of the technique of round the year Low Cost Azolla Production	20	20	Ongoing

<table>
<tr>
<td>4</td>
<td>Nutrition Garden (Radish, Cabbage, Cauliflower, Lai, Potato, Brinjal Carrot, Tomato, Spinach)</td>
<td>Household food security by kitchen gardening and nutrition gardening</td>
<td>Popularization of Nutrition garden</td>
<td>8</td>
<td>8</td>
<td>482.75 q/ha</td>
<td>169 q/ha</td>
<td>185.65</td>
<td>Per capita availability of nutrients before and after establishment of nutrition garden
<table>
<tr><th rowspan="2">Nutrients</th><th colspan="2">Per capita availability of nutrients per day</th><th colspan="2">%RDA</th><th rowspan="2">Difference (%)</th></tr>
<tr><th>Before</th><th>After</th><th>Before</th><th>After</th></tr>
<tr><td>Protein (g)</td><td>5.22</td><td>12.52</td><td>11.35</td><td>27.22</td><td>15.87</td></tr>
<tr><td>Iron (mg)</td><td>7.84</td><td>19.40</td><td>27.03</td><td>66.90</td><td>39.87</td></tr>
<tr><td>Calcium (mg)</td><td>170.00</td><td>458.00</td><td>17.0</td><td>45.80</td><td>28.8</td></tr>
<tr><td>Beta carotene (mcg)</td><td>1420.00</td><td>324400</td><td>169.05</td><td>386.19</td><td>217.14</td></tr>
<tr><td>Vitamin C (mg)</td><td>31.48</td><td>62.75</td><td>48.431</td><td>96.538</td><td>48.107</td></tr>
<tr><td>Folic acid (mcg)</td><td>54.72</td><td>147.10</td><td>52.45</td><td>89.54</td><td>37.09</td></tr>
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</tr>
<tr>
<td>5</td>
<td>Nutrition Garden</td>
<td>Household food security by kitchen gardening and nutrition gardening</td>
<td>Popularization of nutrition garden under NARI project</td>
<td>11</td>
<td>11</td>
<td>157</td>
<td>461</td>
<td>193.2</td>
<td>Per capita availability of nutrients before and after establishment of nutrition garden
<table>
<tr><th rowspan="2">Nutrients</th><th colspan="2">Per capita availability of nutrients per day</th><th colspan="2">%RDA</th><th rowspan="2">Difference (%)</th></tr>
<tr><th>Before</th><th>After</th><th>Before</th><th>After</th></tr>
<tr><td>Protein (g)</td><td>4.98</td><td>13.11</td><td>10.82</td><td>28.5</td><td>17.68</td></tr>
<tr><td>Iron (mg)</td><td>7.14</td><td>18.75</td><td>24.62</td><td>64.65</td><td>40.03</td></tr>
<tr><td>Calcium (mg)</td><td>185.0</td><td>440</td><td>18.5</td><td>44</td><td>25.5</td></tr>
<tr><td>Beta carotene (mcg)</td><td>1190</td><td>3120</td><td>142.7</td><td>371.42</td><td>229.72</td></tr>
</table></td>
</tr>
</table>

									Vitamin C (mg)	42.6	61	65.53	93.84	28.31							
									Folic acid (mcg)	64.2	154.2	29.81	70.09	40.91							
6	Mushroom Nuggets	Value Addition	Popularization of Mushroom Nuggets	4	4	Sensory attributes: Colour :7/7 Texture:7/7 Flavour :5/7 Taste: 5/7 On 7 point Hedonic Scale															
7	Broccoli	Household food security by kitchen gardening and nutrition gardening	Popularization of Cultivation of Broccoli by using Organic source of nutrient (under DFI)	10	10	10.24	11.10				7925 0	440500	361250	5.56	7440 0	390000	315600	5.24	It is observed that the yield demonstation plot is lower than the check due to application of organic fertilizer
8	Mushroom	Household food security by kitchen gardening and nutrition gardening	Cultivation of Oyster mushroom for enhancing nutritional security (Under NARI)	25	25	Av . Yield : 2.2 kg/bed B:C atio: 3.6															

Sl No.	Parameter	Values (g/100g)
1	Moisture	12.21
2	Carbohydrate	52.58
3	Crude protein	29.68
4	Crude fat	0.51
5	Crude fiber	2.50
6	Total Ash	5.27

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(v) Farm Implements and Machinery: Nil

Sl. No.	Name of implement	Crop	Name of Technology demonstrated	No. of farmers	Area (In ha.)	Field observation (Output/ man-hours)		% change in the parameter	Labour reduction (Man days)	Cost reduction (Rs. per ha. or Rs. per unit etc.)	Remarks
						Demo	Check				

f. Performance of FLD on Crop Hybrids:

Sl. No.	Crop	Name of hybrids	Area (ha.)	No. of farmers	Avg. yield (Q/ha.)		% increase in Avg. yield	Additional data on demo. yield (Q/ha.)		Econ. of demo. (Rs./Ha.)				Econ. of check (Rs./Ha.)			
					Demo.	Check		H*	L*	GC**	GR**	NR**	BCR**	GC	GR	NR	BCR
1	Maize	Maize var. Farm Sona	5	8	42	30	40	45	39	28700	42000	13330	1.5	28700	30000	1300	1.05

H-Highest recorded yield, L- Lowest recorded yield

***** GC- Gross Cost, GR- Gross Return, NR- Net Return, BCR- Benefit-Cost RatioNote: Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.***

3.3. Achievements on Training

3.3.1. Farmers and Farm Women in On Campusincluding Sponsored On CampusTraining Programmes(*Sp. On means On Campus training programmes sponsored by external agencies)

Thematic area	No. of Courses/ prog			Participants																		
				General						SC/ST						Total						Grand Total (x+y)
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
	On-Campus (1)	Spon On* (2)	Total (1+2)	On (4)	Sp. On (5)	On (6)	Sp. On (7)	On (a=4+6)	Sp. On (b=5+7)	On (8)	Sp. On (9)	On (10)	Sp. On (11)	On (c=8+10)	Sp. On (d=9+11)	On (4+8)	Sp. On (5+9)	On (6+10)	Sp. On (7+11)	On (x=a+c)	Sp. On (y=b+d)	
I. Crop Production																						
Weed Management																						
Resource Conservation Technologies																						
Cropping Systems																						
Crop Diversification																						
Integrated																						

Farming																						
Water management																						
Seed production																						
Nursery management																						
Integrated Crop Management	4	0	4	70	0	12	0	82	0	27	0	16	0	43	0	97	0	28	0	125	0	125
Fodder production																						
Production of organic inputs																						
II. Horticulture																						
a) Vegetable Crops																						
Production of low volume and high value crops	1	0	1	4	0	15	0	19	0	0	0	7	0	7	0	4	0	22	0	26	0	26
Off-season vegetables																						
Nursery raising																						
Exotic vegetables like Broccoli																						
Export potential vegetables																						
Grading and standardization																						
Protective cultivation (Green Houses, Shade Net etc.)																						

b) Fruits																						
Training and Pruning																						
Layout and Management of Orchards																						
Cultivation of Fruit	1	0	1	20	0	0	0	20	0	0	0	0	0	0	0	20	0	0	0	20	0	20
Management of young plants/orchards																						
Rejuvenation of old orchards																						
Export potential fruits																						
Micro irrigation systems of orchards																						
Plant propagation techniques																						
c) Ornamental Plants																						
Nursery Management																						
Management of potted plants																						
Export potential of ornamental plants																						
Propagation techniques of Ornamental Plants																						
d) Plantation crops																						
Production and																						

Management technology																						
Processing and value addition																						
e) Tuber crops																						
Production and Management technology																						
Processing and value addition																						
f) Spices																						
Production and Management technology																						
Processing and value addition																						
g) Medicinal and Aromatic Plants																						
Nursery management																						
Production and management technology																						
Post harvest technology and value addition																						
III Soil Health and Fertility Management																						
Soil fertility management																						
Soil and Water Conservation																						
Integrated Nutrient Managemen																						

t																						
Production and use of organic inputs																						
Management of Problematic soils																						
Micro nutrient deficiency in crops																						
Nutrient Use Efficiency																						
Soil and Water Testing																						
Crop Production and nutrient management																						
IV Livestock Production and Management																						
Dairy Management																						
Poultry Management	2	0	2	5	0	36	0	41	0	5	0	4	0	9	0	10	0	40	0	50	0	50
Piggery Management																						
Rabbit Management																						
Disease Management																						
Feed management																						
Production of quality																						

animal products																						
V Home Science/Women empowerment																						
Household food security by kitchen gardening and nutrition gardening	1	0	1	0	0	19	0	19	0	0	0	5	0	5	0	0	0	24	0	24	0	24
Design and development of low/minimum cost diet																						
Designing and development for high nutrient efficiency diet	1	0	1	0	0	16	0	16	0	0	0	4	0	4	0	0	0	20	0	20	0	20
Minimization of nutrient loss in processing																						
Gender mainstreaming through SHGs																						
Storage loss minimization techniques																						
Value addition																						
Income generation activities for empowerment of rural Women																						
Location specific drudgery reduction																						

technologies																						
Rural Crafts																						
Women and child care	2	0	2	0	0	104	0	104	0	0	0	20	0	20	0	0	0	124	0	124	0	124
VI Agril. Engineering																						
Installation and maintenance of micro irrigation systems																						
Use of Plastics in farming practices																						
Production of small tools and implements	3	0	3	58	0	22	0	80	0	18	0	0	0	18	0	76	0	22	0	98	0	98
Repair and maintenance of farm machinery and implements	1	0	1	20	0	4	0	24	0	6	0	0	0	6	0	26	0	4	0	30	0	30
Small scale processing and value addition																						
Post Harvest Technology																						
VII Plant Protection																						
Integrated Pest Management																						
Integrated Disease Management																						
Bio-control of pests and diseases																						
Production																						

of bio control agents and bio pesticides																					
VIII Fisheries																					
Integrated fish farming																					
Carp breeding and hatchery managemen t																					
Carp fry and fingerling rearing																					
Composite fish culture																					
Hatchery managemen t 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																					
IX Production of Inputs at site																					

Seed Production																						
Planting material production																						
Bio-agents production																						
Bio-pesticides production																						
Bio-fertilizer production																						
Vermi-compost production																						
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																						
X Capacity Building and Group Dynamics																						
Leadership development																						
Group dynamics																						
Formation and Management of SHGs	1	0	1	0	0	23	0	23	0	0	0	2	0	2	0	0	0	25	0	25	0	25
Mobilization	1	0	1	0	0	14	0	14	0	0	0	1	0	1	0	0	0	15	0	15	0	15

of social capital																						
Entrepreneurial development of farmers/youths	1	0	1	9	0	9	0	18	0	4	0	3	0	7	0	13	0	12	0	25	0	25
WTO and IPR issues																						
XI Agro-forestry																						
Production technologies																						
Nursery management																						
Integrated Farming Systems																						
TOTAL	**19**	**0**	**19**	**186**	**0**	**274**	**0**	**460**	**0**	**60**	**0**	**62**	**0**	**122**	**0**	**246**	**0**	**336**	**0**	**582**	**0**	**582**

3.3.2. Achievements on Training of Farmers and Farm Women in Off Campus including Sponsored Off Campus Training Programmes (*Sp.

Off means Off Campus training programmes sponsored by external agencies)																						
Thematic area	No. of Courses/ prg.			Participants																		Grand Total
	Off	Sp Off*	Total	General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
				Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	
I. Crop Production																						
Weed Management																						
Resource Conservation Technologies	1	0	1	4	0	1	0	5	0	16	0	4	0	20	0	20	0	5	0	25	0	25
Cropping Systems	4	0	4	43	0	16	0	59	0	27	0	21	0	48	0	64	0	37	0	101	0	101
Crop Diversification																						
Integrated Farming																						
Water management																						
Seed production	2	0	2	32	0	2	0	34	0	15	0	1	0	16	0	47	0	3	0	50	0	50
Nursery management																						
Integrated Crop Management	3	0	3	32	0	19	0	51	0	8	0	16	0	24	0	40	0	35	0	75	0	75

Fodder production																						
Production of organic inputs																						
II. Horticulture																						
a) Vegetable Crops																						
Production of low volume and high value crops	**2**	**0**	**2**	**0**	**0**	**10**	**0**	**10**	**0**	**0**	**0**	**35**	**0**	**35**	**0**	**0**	**0**	**45**	**0**	**45**	**0**	45
Off-season vegetables																						
Nursery raising																						
Exotic vegetables like Broccoli																						
Export potential vegetables																						
Grading and standardizati on																						
Protective cultivation (Green Houses, Shade Net etc.)																						
b) Fruits																						
Training and Pruning																						
Layout and Managemen t of Orchards																						

Cultivation of Fruit																						
Management of young plants/orchards																						
Rejuvenation of old orchards																						
Export potential fruits																						
Micro irrigation systems of orchards																						
Plant propagation techniques	1	0	1	14	0	6	0	20	0	0	0	0	0	0	0	14	0	6	0	20	0	20
c) Ornamental Plants																						
Nursery Management																						
Management of potted plants																						
Export potential of ornamental plants																						
Propagation techniques of Ornamental Plants																						
d) Plantation crops																						
Production and Management technology	3	0	3	57	0	5	0	62	0	0	0	0	0	0	0	57	0	5	0	62	0	62

Processing and value addition																						
e) Tuber crops																						
Production and Management technology																						
Processing and value addition																						
f) Spices																						
Production and Management technology																						
Processing and value addition																						
g) Medicinal and Aromatic Plants																						
Nursery management																						
Production and management technology																						
Post harvest technology and value addition																						
III Soil Health and Fertility Management																						
Soil fertility management	1	0	1	21	0	4	0	25	0	1	0	0	0	1	0	22	0	4	0	26	0	26
Soil and Water Conservation																						

Integrated Nutrient Management																						
Production and use of organic inputs	1	0	1	0	0	36	0	36	0	0	0	0	0	0	0	0	0	36	0	36	0	36
Management of Problematic soils																						
Micro nutrient deficiency in crops																						
Nutrient Use Efficiency																						
Soil and Water Testing																						
Crop production and nutrient management																						
IV Livestock Production and Management																						
Dairy Management																						
Poultry Management																						
Goatery Management																						
Piggery Management																						
Rabbit Management																						

Disease Management																						
Feed management																						
Production of quality animal products	1	0	1	1	0	23	0	24	0	0	0	2	0	2	0	1	0	25	0	26	0	26
V Home Science/Women empowerment																						
Household food security by kitchen gardening and nutrition gardening																						
Design and development of low/minimum cost diet																						
Designing and development for high nutrient efficiency diet																						
Minimization of nutrient loss in processing																						
Gender mainstreaming through SHGs																						
Storage loss minimization techniques																						
Value addition	1	0	1	3	0	12	0	15	0	1	0	4	0	5	0	4	0	16	0	20	0	20

Income generation activities for empowerment of rural Women	1	0	1	0	0	0	0	0	0	0	0	20	0	20	0	0	0	20	0	20	0	20
Location specific drudgery reduction technologies																						
Rural Crafts	1	0	1	0	0	21	0	21	0	0	0	1	0	1	0	0	0	22	0	22	0	22
Women and child care	1	0	1	0	0	19	0	19	0	0	0	1	0	1	0	20	0	20	0	20	0	20
VI Agril. Engineering																						
Installation and maintenance of micro irrigation systems																						
Use of Plastics in farming practices																						
Production of small tools and implements																						
Repair and maintenance of farm machinery and implements	4	0	4	86	0	13	0	99	0	59	0	16	0	75	0	155	0	29	0	184	0	184
Small scale processing and value addition																						
Post Harvest Technology	4	0	4	104	0	27	0	131	0	47	0	19	0	66	0	151	0	46	0	197	0	197

VII Plant Protection																						
Integrated Pest Management	3	0	3	21	0	55	0	76	0	0	0	0	0	0	0	21	0	55	0	76	0	76
Integrated Disease Management																						
Bio-control of pests and diseases																						
Production of bio control agents and bio pesticides																						
VIII Fisheries																						
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																						
IX Production of Inputs at site																						
Seed Production																						
Planting material production																						
Bio-agents production																						
Bio-pesticides production																						
Bio-fertilizer production																						
Vermi-compost production																						
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																						
X Capacity Building and Group Dynamics																						
Leadership development																						
Group dynamics																						
Formation and Management of SHGs	1	0	1	0	0	27	0	27	0	0	0	0	0	0	0	0	0	27	0	27	0	27
Mobilization of social capital	1	0	1	9	0	0	0	9	0	16	0	0	0	16	0	25	0	0	0	25	0	25
Entrepreneurial development of farmers/youths																						
WTO and IPR issues																						
XI Agro-forestry																						
Production technologies																						

Nursery management																						
Integrated Farming Systems																						
TOTAL	30	0	30	395	0	296	0	723	0	190	0	140	0	330	0	641	0	436	0	1057	0	1057
(B) RURAL YOUTH																						
3.3.3. Achievements on Training Rural Youth in On Campus including Sponsored On Campus Training Programmes (*Sp. On means On Campus training programmes sponsored by external agencies)																						
Thematic area	No. of Courses/ Prog			**Participants**																		**Grand Total (x + y)**
				General						**SC/ST**						**Total**						
				Male		**Female**		**Total**		**Male**		**Female**		**Total**		**Male**		**Female**		**Total**		
	On (1)	**Sp On* (2)**	**Total (1+2)**	**On (4)**	**Sp. On (5)**	**On (6)**	**Sp. On (7)**	**On (a=4+6)**	**Sp. On (b=5+7)**	**On (8)**	**Sp. On (9)**	**On (10)**	**Sp. On (11)**	**On (c=8+10)**	**Sp. On (d=9+11)**	**On (4+8)**	**Sp. On (5+9)**	**On (6+10)**	**Sp. On (7+11)**	**On (x=a+c)**	**Sp. On (y=b+d)**	
Mushroom Production	0	1	1	0	17	0	7	0	24	0	4	0	0	0	4	0	21	0	7	0	28	28
Bee-keeping	0	1	1	0	9	0	17	0	26	0	1	0	1	0	2	0	16	0	12	0	28	28
Integrated farming																						
Seed production																						
Production of organic inputs																						
Integrated Farming																						
Planting material production																						
Vermi-culture																						
Sericulture																						
Protected cultivation of																						

vegetable crops																						
Commercial fruit production																						
Repair and maintenance of farm machinery and implements																						
Nursery Management of Horticulture crops																						
Training and pruning of orchards																						
Value addition	1	0	1	4	0	14	0	18	0	0	0	0	0	0	0	4	0	14	0	18	0	18
Production of quality animal products																						
Dairying																						
Sheep and goat rearing																						
Quail farming																						
Piggery																						
Rabbit farming																						
Poultry production																						
Ornamental fisheries																						
Para vets																						
Para extension workers	1	0	1	24	0	1	0	25	0	0	0	0	0	0	0	24	0	1	0	25	0	25
Composite fish culture																						
Freshwater																						

prawn culture																						
Shrimp farming																						
Pearl culture																						
Cold water fisheries																						
Fish harvest and processing technology																						
Fry and fingerling rearing																						
Small scale processing																						
Post Harvest Technology																						
Tailoring and Stitching																						
Rural Crafts																						
Entrepreneurship development	1	0	1	15	0	5	0	20	0	0	0	6	0	60	0	15	0	11	0	26	0	26
TOTAL	3	2	5	43	26	20	24	63	50	0	5	6	1	60	6	43	37	26	19	69	56	125

3.3.4. Achievements on Training of <u>Rural Youth</u> in <u>Off Campus</u> including <u>Sponsored Off Campus</u> Training Programmes
(*Sp. Off means Off Campus training programmes sponsored by external agencies)

Thematic area	**No. of Courses/ Prog.**			**Participants**																		**Grand Total**
				General						**SC/ST**						**Total**						
				Male		**Female**		**Total**		**Male**		**Female**		**Total**		**Male**		**Female**		**Total**		
	Off	**Sp Off**	**Total**	**Off**	**Sp Off***	**Off**	**Sp Off***	**Off**	**Sp Off***	**Off**	**Sp Off***	**Off**	**Sp Off***	**Off**	**Sp Off***	**Off**	**Sp Off***	**Off**	**Sp Off***	**Off**	**Sp Off***	
Mushroom Production																						
Bee-keeping																						
Integrated farming																						
Seed production																						
Production of organic																						

inputs																						
Integrated Farming																						
Planting material production																						
Vermi-culture																						
Sericulture																						
Protected cultivation of vegetable crops																						
Commercial fruit production																						
Repair and maintenance of farm machinery and implements																						
Nursery Managemen t of Horticulture crops																						
Training and pruning of orchards																						
Value addition																						
Production of quality animal products																						
Dairying																						
Sheep and goat rearing																						
Quail farming																						
Piggery																						
Rabbit farming																						

Poultry production																						
Ornamental fisheries																						
Para vets																						
Para extension workers																						
Composite fish culture																						
Freshwater prawn culture																						
Shrimp farming																						
Pearl culture																						
Cold water fisheries																						
Fish harvest and processing technology																						
Fry and fingerling rearing																						
Small scale processing																						
Post Harvest Technology																						
Tailoring and Stitching																						
Rural Crafts	2	0	2	18	0	23	0	41	0	3	0	2	0	5	0	21	0	25	0	46	0	46
Climate change																						
TOTAL	2	0	2	18	0	23	0	41	0	3	0	2	0	5	0	21	0	25	0	46	0	46

C. Extension Personnel																						
3.3.5. Achievements on Training of Extension Personnel in On Campus including Sponsored On Campus Training Programmes (*Sp. On means On Campus training programmes sponsored by external agencies)																						
Thematic area	No. of Courses/ prog			Participants																		Grand Total (x + y)
				General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
	On (1)	Sp On* (2)	Total (1+2)	On (4)	Sp. On (5)	On (6)	Sp. On (7)	On (a=4+6)	Sp. On (b=5+7)	On (8)	Sp. On (9)	On (10)	Sp. On (11)	On (c=8+10)	Sp. On (d=9+11)	On (4+8)	Sp. On (5+9)	On (6+10)	Sp. On (7+11)	On (x=a+c)	Sp. On (y=b+d)	
Productivity enhancement in field crops																						
Integrated Pest Management																						
Integrated Nutrient management																						
Rejuvenation of old orchards																						
Protected cultivation technology																						
Formation and Management of SHGs																						
Group Dynamics and farmers organization																						
Information networking among																						

farmers																						
Capacity building for ICT application																						
Care and maintenance of farm machinery and implements																						
WTO and IPR issues																						
Managemen t in farm animals																						
Livestock feed and fodder production																						
Household food security																						
Women and Child care	1	0	1	0	0	80	0	80	0	0	0	20	0	20	0	0	0	100	0	100	0	100
Low cost and nutrient efficient diet designing																						
Production and use of organic inputs																						
Gender mainstreami ng through SHGs																						
Total	1	0	1	0	0	80	0	80	0	0	0	20	0	20	0	0	0	100	0	10 0	0	100

3.3.6. Achievements on Training of Extension Personnel in Off Campus including Sponsored Off Campus Training Programmes
(*Sp. Off means Off Campus training programmes sponsored by external agencies)

Thematic area	No. of Courses/ prog.			Participants																		Grand Total
				General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
	Off	Sp Off*	Total	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	
Productivity enhancement in field crops	2	0	2	12	0	25	0	37	0	5	0	2	0	7	0	17	0	27	0	44	0	44
Integrated Pest Management																						
Integrated Nutrient management																						
Rejuvenation of old orchards																						
Protected cultivation technology																						
Formation and Management of SHGs																						
Group Dynamics and farmers organization																						
Information networking among farmers	1	0	1	0	0	1	0	1	0	0	0	2	0	2	0	0	0	15	0	15	0	15
Capacity building for ICT application																						
Care and																						

maintenance of farm machinery and implements																						
WTO and IPR issues																						
Management in farm animals																						
Livestock feed and fodder production																						
Household food security	1	0	1	0	0	20	0	20	0	0	0	0	0	0	0	0	0	20	0	20	0	20
Women and Child care																						
Low cost and nutrient efficient diet designing																						
Production and use of organic inputs																						
Gender mainstreaming through SHGs																						
TOTAL	4	0	4	12	0	125	0	137	0	5	0	22	0	27	0	17	0	147	0	164	0	164

Note: Please furnish the details of above training programmes as <u>Annexure</u> in the proforma given below

Annexure 1: Details of Training Programme (On Campus including Sponsored On Campus) for Farmers, Farm Women, Rural Youth and Extension Personnel

Discipline	Area of training	Title of the training programme	Date (From – to)	Duration in days	Venue	Please specify Beneficiary group (Farmer & Farm women/ RY/ EP and NGO Personnel)	General participants			SC/ST			Grand Total		
							M	F	T	M	F	T	M	F	T
Horticulture	Cultivation of fruits	Scientific cultivation of Banana	20.05.2021	1	Google Meet	Farmer & Farm women	20	0	20	0	0	0	20	0	20
Horticulture	Plant Propagation technique	Training on Scientific culivation practices of Brinjal and King Chilli	15.12.21 & 20.12.21	2	KVK Golaghat	Farmer & Farm women	4	15	19	0	7	7	4	22	26
Soil Science	Information networking among farmers	Self financed training programme on Agricultural Input Dealer	24.09.21-08.10.21	15	KVK Golaghat	Input Dealer	24	1	25	0	0	0	24	1	25
Agricultural Extension	Entrepreneurship development	Agricultural Entrepreneurship development among Rural youths	07.12.21	1	KVK Golaghat	RY	15	5	20	0	6	6	15	11	26
Agricultural Extension	Capacity building for ICT application	Communication skills and use of ICT for extension of agricultural Technologies	09.12.21	1	KVK Golaghat	Farmer & Farm women	0	14	14	0	1	1	0	15	15
Agricultural Extension	Entrepreneurship development	Farm Planning and Budgeting	24.02.22	1	KVK Golaghat	Farmer & Farm women	9	9	18	4	3	7	13	12	25

Agricultural Extension	Formation and management of SHG	Management of SHGs with emphasise on Conflict Management	28.02.22	1	KVK Golaghat	Farmer & Farm women	0	23	23	0	2	2	0	25	25
Animal Science	Poultry management	Scientific management of Backyard poultry	11.11.21	1	KVK Golaghat	Farmer & Farm women	1	22	23	1	1	2	2	23	25
Animal Science	Poultry management	Scientific management of Poultry	12.11.21	1	KVK Golaghat	Farmer & Farm women	4	14	18	4	3	7	8	17	25
Community Science	Designing and development for high nutrient efficiency diet	Protective foods to boost immune system during COVID-19 Pandemic situation	04.06.21	1	KVK Golaghat	Farm women	0	16	16	0	4	4	0	20	20
Community Science	Household food security	Importance of family budget during Pandemic situation	30.07.21	1	KVK Golaghat	Farm women	0	19	19	0	5	5	0	24	24
Community Science	Women and Child care	Promoting and protecting healthy beastfeeding in the society	07.08.21	1	KVK Golaghat	Farm women	0	80	80	0	20	20	0	100	100
Community Science	Women and Child care	Maintanance of Reporductive life of women	18.11.21	1	KVK Golaghat	Farm women	0	24	24	0	0	0	0	24	24
Community Science	Value addition	Processing and preservation of locally available fruits and vegetables	14.02.22-22.02.22	7	KVK Golaghat	Rural Youth	4	14	18	0	0	0	4	14	18
APART	Integrated Crop Management	Best Management Practices of STRV	04.06.21	1	KVK Golaghat	Farmer & Farm women	3	2	5	35	0	35	38	2	40
APART	Integrated Crop Management	Crop Establishment methods with best management practice for rice	23.08.21-24.08.21	2	KVK Golaghat	Farmer & Farm women	5	1	6	16	11	27	21	12	33

APART	Integrated Crop Management	Best Management Practices of Sali paddy Obj II	25.08.21	1	KVK Golaghat	Farmer & Farm women	5	0	5	30	7	37	35	7	42
APART	Capacity building for ICT application	Usage of Assam Rice Knowledge Bank	02.09.21	1	KVK Golaghat	Farmer & Farm women	3	0	3	20	4	24	23	4	27
APART	Capacity building for ICT application	Management and Maintananace training of Assam Rice Knowledge Bank	03.09.21	1	KVK Golaghat	Farmer & Farm women	1	0	1	12	4	16	13	4	17
APART	Repair and maintenance of farm machinery and implements	Demonstration on Rice value chain machinaries(Boro paddy 2021-22)	01.12.21	1	KVK Golaghat	Farmer & Farm women	6	0	6	1	2	3	7	2	9
APART	Capacity building for ICT application	Field testing /training on Assam rice Knowledge Bank	07.03.22	1	KVK Golaghat	Farmer & Farm women	14	0	14	35	0	35	49	0	49
APART	Crop production	One Day training on Best Management practices of Boro Paddy	09.03.22	1	KVK Golaghat	Farmer & Farm women	14	13	27	16	11	27	30	24	54

Annexure 2: Details of Training Programme (Off Campus including Sponsored Off Campus) for Farmers, Farm Women, Rural Youth and Extension Personnel

Discipline	Area of training	Title of the training programme	Date (From – to)	Duration in days	Venue	Please specify Beneficiary group (Farmer & Farm women/ RY/ EP and NGO Personnel)	General participants			SC/ST			Grand Total		
							M	F	T	M	F	T	M	F	T
Agronomy	Seed Production	Quality seed production and post harvest handling of Rice	26.08.21	1	SDAO, Bokakhat	Extension Personnel	12	2	14	5	1	6	17	3	20
Agronomy	Seed Production	Quality seed production and post harvest handling of Rice	14.09.21	1	DRDA Golaghat	Extension Personnel	0	23	23	0	1	1	0	24	24
Agronomy	Crop production	Scientific Production technology of potato	16.11.21	1	Ponka	Farmer & Farm women	0	2	2	7	16	23	7	18	25
Agronomy	Crop production	Scientific Production technology of major oilseed and pulse	17.11.21	1	Sarupathar (Uriamghat)	Farmer & Farm women	24	0	24	1	0	1	25	0	25
Agronomy	Crop Production	Scientific Production technology of potato	25.11.21	1	Butolikhowa	Farmer & Farm women	8	17	25	0	0	0	8	17	25

Agronomy	Crop Production	Scientific Production technology of major oilseed and pulse	26.11.21	1	Mithaamch apori	Farmer & Farm women	24	1	25	0	0	0	24	1	25
Agronomy	Crop Production	Scientific Production technology of Boro rice	13.12.21	1	Baliduwa	Farmer & Farm women	13	12	25	0	0	0	13	12	25
Agronomy	Resource conservation technology	Recycling of waste material	15.12.21	1	Kamar Gaon	Farmer & Farm women	4	1	5	16	4	20	20	5	25
Horticulture	Cropping System	Arecanut based multiple cropping under bari system	23.08.21 - 24.08.21	2	Madhabpur	Farmer & Farm women	16	4	20	0	0	0	16	4	20
Horticulture	Plant Propagation technique	Scientific cultivation practices of Assam lemon	28.09.21 - 29.09.21	2	Khumtai	Farmer & Farm women	14	6	20	0	0	0	14	6	20
Horticulture	Productio and management technology	Training on Scientific culivation practices of Tomato and King Chilli	08.12.21 & 09.12.21	2	3 No. Rongbong	Farmer & Farm women	0	9	9	0	15	15	0	24	24
Horticulture	Productio and management technology	Training on Scientific culivation practices of Rabi vegetables	28.01.22 & 03.02.22	2	Mithaamch apori CHC	Farmer & Farm women	21	0	21	0	0	0	21	0	21

Horticulture	Production of low volume high value crop	Training on Scientific culivation of Strawberry	17.02.22 & 18.02.22	2	Thengal Gaon	Farmer & Farm women	0	1	1	0	20	20	0	21	21
Horticulture	Productio and management technology	Training on Scientific cultivation of Arecanut & Coconut	25.02.22 & 26.02.22	2	Khotiakholi	Farmer & Farm women	20	1	21	0	0	0	20	1	21
Soil Science	Soil fertility management	Use of organic inputs for Soil fertility management	31.08.21 & 14.09.21	2	Mamoroni gaon, Dergaon	Farmer & Farm women	21	4	25	1	0	1	22	4	26
Soil Science	Production of Organic inputs	Production and use of Organic inputs	20.09.21-21.09.21	2	Sasor Gaon	Farmer & Farm women	0	36	36	0	0	0	0	36	36
Agricultural Extension	Enterpreneurs hip development	Agricultural Enterpreneurshi p development among Rural youths	17.12.21	1	1 no. Khakandag uri	Rural Youth	17	6	23	3	0	3	20	6	26
Agricultural Extension	Mobilizing social capital	Farm Planning and Budgeting	15.02.22	1	Bokakhat	Farmer & Farm women	9	0	9	16	0	16	25	0	25
Agricultural Extension	Formation and management of SHG	Managementof SHGs with emphasis on Conflict Management	18.02.22	1	Khakandag uri	Farmer & Farm women	0	27	27	0	0	0	0	27	27
Animal Science	Production of qualtity animal products	Scientific management of Goat	15.11.21	1	Letekucha pori	Farmer & Farm women	1	23	24	0	2	2	1	25	26

Community Science	Value addition	Processing and preservation of locally available fruits and vegetables	06.09.21-07.09.21	2	Merapani	Farmer & Farm women	3	12	15	1	4	5	4	16	20
Community Science	Income generation activities for empowerment of rural Women	Preparation of three layered mask	23.09.21	1	No. 1 Gogorimari	Farm women	0	0	0	0	20	20	0	20	20
Community Science	Rural craft	Preparation of Decorative diyas	22.11.21	1	Morongi College	Rural Youth	1	17	18	0	2	2	1	19	20
Community Science	Rural craft	Preparation and designing of Flower pots	25.11.21 & 26.11.21	2	Kakodunga	Farm women	0	21	21	0	1	1	0	22	22
Community Science	Women and Child care	Importance of Maternal and Child Health	11.01.22	1	Bogoriyoni	Farm women	0	19	19	0	1	1	0	20	20
Community Science	Household food security	Nutrition Garden – Astep towards achieving nutrition security	29.01.22	1	DRDA Golaghat	Extension Personnel	0	20	20	0	0	0	0	20	20
APART	Repair and maintenance of farm machinery and implements	Crop show on Mechanical Transplanting of Paddy under APART Sali Paddy (2021-22) Programme	18.07.21	1	Borpak	Farmer & Farm women			0			0	0	0	0
APART	Repair and maintenance of farm	Crop show on Mechanical Transplanting of	26.07.21	1	1 no. Kohora	Farmer & Farm women	17	0	17	32	12	44	49	12	61

	machinery and implements	Paddy under APART Sali Paddy (2021-22) Programme													
APART	Seed Production	Quality seed production (QSP) Sali (2021-22)	20.08.21	1	Merapani	Farmer & Farm women	28	9	37	1	2	3	29	11	40
APART	Seed Production	Quality seed production (QSP) Sali (2021-22)	21.08.21	1	Jugonia Gaon	Farmer & Farm women	12	1	13	12	0	12	24	1	25
APART	Post harvest technology	Demonstration on Post harvest machinaries	01.09.21	1	Da Borahi Gaon	Farmer & Farm women	20	1	21	3	1	4	23	2	25
APART	Repair and maintenance of farm machinery and implements	Training on Post harvest machinaries Sail (2021-22)	04.09.21	1	Bogoriyoni	Farmer & Farm women	15	16	31	0	0	0	15	16	31
APART	Repair and maintenance of farm machinery and implements	Demonstration on Rice value chain machinaries	06.10.21	1	Molia Gaon	Farmer & Farm women	26	10	36	0	0	0	26	10	36
APART	Repair and maintenance of farm machinery and implements	Demonstration on Post harvest machinaries(Boro paddy 2021-22)	14.12.21	1	Missimiati	Farmer & Farm women	31	4	35	3	0	3	34	4	38
APART	Repair and maintenance of farm	Training on Post harvest machinaries	15.12.21	1	Lukhurakhonia	Farmer & Farm women	10	0	10	23	2	25	33	2	35

	machinery and implements	Boro(2021-22)													
APART	Repair and maintenance of farm machinery and implements	Training on Post harvest machinaries Boro(2021-22)	16.12.21	1	Bokakhat Natya Mandir	Farmer & Farm women	32	1	33	1	0	1	33	1	34
APART	Post harvest technology	Post Harvest training and Demo Sali 2021-22	13.11.21	1	Borpak	Farmer & Farm women	10	0	10	22	3	25	32	3	35
APART	Productio and management technology	Technical training on Minimum tillage Tomato (WVC 2021-2022)	14.12.21	1	Kuwari Pathar	Farmer & Farm women	21	0	21	24	16	40	45	16	61
APART	Seed Production	Training on Quality Seed Production	17.03.22	1	Bonkuwal	Farmer & Farm women	6	3	9	11	8	19	17	11	28

(D) Vocational training programmes for Rural Youth

Crop / Enterprise	Date (From – To)	Duration (days	Area of training	Training title*	No. of Participants									Impact of training in terms of Self employment after training				Whether Sponsored by external funding agencies (Please Specify with amount of fund in Rs.)
					General			SC/ST			Total							
					M	F	T	M	F	T	M	F	T	Type of enterprise ventured into	Number of units	Number of persons employed	Avg. Annual income in Rs. generated through the enterprise	
Community Science	14.02.22-22.02.22	7	Value Addition	Processing and preservation of locally available fruits	4	14	18	0	0	0	4	14	18	-	-	-	-	-

*training title should specify the major technology /skill transferred

Annexure 3: Only Sponsored Training Programmes (On, Off and Vocational)

On/ Off	Beneficiary group (F/ FW/ RY/ EP)	Date (From- To)	Duration (days)	Discipline	Area of training	Title	No. of Participants									Sponsoring Agency	Amount of fund received (Rs.)
							General			SC/ST			Total				
							M	F	T	M	F	T	M	F	T		
On	RY	07.02.2022 to 12.02.2022	7	Plant Protection	Bee keeping	Bee keeping	15	11	26	1	1	2	16	12	28	MANAGE	

On	RY	04.10.2021 to 09.10.2021	7	Plant Protection	Mushroom production	Mushroom production	18	0	18	3	7	10	21	7	28	MANAGE	
On	Input Dealer	24.09.2021 to 08.10.2021	15	Soil Scince	Agricultural input dealers (1st Batch)	Agricultural input dealers (1st Batch)	24	1	25	0	0	0	24	1	25	Self financed	
On	Input Dealer	21.12.2021 to 05.01.2022	15	Agronomy	Agricultural input dealers (2nd Batch)	Agricultural input dealers (2nd Batch)	14	7	21	2	2	4	16	9	25	Self financed	
On	RY	31.03.2021 to 21.08.2021(25 days)	25	Horticulture	Floriculture : Floriculturist Open Cultivation	Floriculture : Floriculturist Open Cultivation	8	15	23	0	2	2	8	17	25	ASCI	
Off	RY	22.03.2022-23.03.2022	2	Horticulture	Aromatic and medicinal plants	Aromatic and medicinal plants	22	3	25	0	0	0	22	3	25	AYUSH	

3.4. Extension Activities (including activities of FLD programmes) (Please mention specific Extension Activity conducted by the KVK such as Field Day, Kisan Mela, Exhibition, Diagnostic Visit, etc) during 2021-22

Sl. No.	Extension Activity	Topic	Date and duration	No. of activities	Participants											
					General -1			SC/ST -2			Extension Officials -3			Grand Total (1+2)		
					M	F	T	M	F	T	M	F	T	M	F	T
1.	Advisory services	Agriculture and Allied sectors		85			0									85
2.	Diagnostic visit	Agriculture and Allied sectors		72			0									72
3.	Field day	Field day under FLD on Popularization of medium duration paddy var. Numali in rice-toria cropping sequence	20.11.2021	1	22	2	24	1	0	1	2	2	4	25	4	29
		Field day under FLD on Popularization of Zinc solubilizing bacteria for zinc nutrition in rice in rice-toria cropping sequence	22.11.2021	1	19	2	21	2	2	4	2	1	3	23	5	28
		Field day under Cluster Frontline Demonstration on Kharif oilseed sesamum var. ShT1	10.12.2021	1	21	2	23	0	1	1	2	3	5	23	6	29

		Field day under Cluster Frontline Demonstration on kharif pulse black gram var. SBC 40	12.12.2021	1	0	0	0	3	22	25	2	1	3	5	23	28
		Field day under Cluster Frontline Demonstration on Rabi oilseed toria var. TS-67	22.03.2022	1	16	7	23	2	0	2	2	3	5	20	10	30
		Field day on LCD STRV	12.11.21	1	11	26	37	0	0	0	2	2	4	13	28	41
		Field Day on Scientific cultivation of Blackgram	17.12.21	1	14	7	21	4	0	4	2	2	4	20	9	29
		Field Day on Scientific cultivation of Blackgram	24.12.21	1	9	15	24	1	0	1	2	2	4	12	17	29
		Field Day on Wet DSR demo var. Ranjit sub 1	15.11.21	1	14	20	34	0	0	0	2	2	4	16	22	38
		Field Day on LCD PQR demo(Var. Sugandha)	15.11.21	1	17	16	33	0	0	0	2	2	4	19	18	37
		Field Day on LCD STRV Var. Bahadur Sub1	16.11.21	1	21	8	29	0	0	0	2	2	4	23	10	33
		Field Day on MTPR demo Var. Bahadur Sub 1	16.11.21	1	15	16	31	1	0	1	2	2	4	18	18	36
		Field Day on LCD STRV Var. Ranjit Sub1	17.11.21	1	9	7	16	16	3	19	2	2	4	27	12	39
		Field Day on MTPR demo Var. Ranjit Sub1	17.11.21	1	17	17	34	0	0	0	2	2	4	19	19	38
		Field Day on MTPR demo Var. Ranjit Sub1	18.11.21	1	13	15	28	0	0	0	2	2	4	15	17	32

		Field Day on LCD STRV Var. Bahadur Sub1	18.11.21	1	4	0	4	17	9	26	2	2	4	23	11	34
		Field Day on Wet DSR demo Var. Ranjit Sub1	19.11.21	1	21	11	32	0	0	0	2	2	4	23	13	36
		Field Day on LCD STRV Var. Bahadur Sub1	19.11.21	1	28	4	32	0	0	0	2	2	4	30	6	36
		Field Day on Rice varietal crop cafeteria at KVK Golaghat	27.11.21	1	16	12	28	7	4	11	2	2	4	25	18	43
		Field Day on MTPR demonstration Sali paddy (2021-22) under APART	29.11.2021	1	0	0	0	17	10	27	2	2	4	19	12	31
		Field Day on MTPR demo Var. Ranjit Sub1	30.11.21	1	19	11	30	0	0	0	2	2	4	21	13	34
		Field Day on Wet DSR Var. Ranjit Sub1	01.12.11	1	11	6	17	3	0	3	2	2	4	16	8	24
		Field Day on LCD STRV Var. Ranjit Sub1	02.12.21	1	16	14	30	0	0	0	2	2	4	18	16	34
		Field Day on LCD STRV Var. Swarna Sub 1	03.12.21	1	16	2	18	6	1	7	2	2	4	24	5	29
		Field Day on LCD PQR Var. Bokul joha	03.12.21	1	13	12	25	0	0	0	2	2	4	15	14	29
		Field Day on Wet DSR Var. Ranjit Sub1	04.12.21	1	18	7	25	0	0	0	2	2	4	20	9	29
		Field Day on LCD PQR Var. Bokul joha	06.12.21	1	2	7	9	8	8	16	2	2	4	12	17	29

		Field Day on LCD PQR Var. Bokul joha	07.12.21	1	18	3	21	0	0	0	2	2	4	20	5	25
		Field Day on LCD STRV Var. Ranjit Sub 1	08.12.21	1	4	8	12	0	0	0	2	2	4	6	10	16
		Field Day on LCD STRV Var. Ranjit Sub 1	08.12.21	1	12	8	20	0	0	0	2	2	4	14	10	24
		Field Day on LCD PQR Var. Sugandha	09.12.21	1	11	16	27	1	1	2	2	2	4	14	19	33
		Field Day on LCD PQR Var. Bokul joha	10.12.21	1	9	11	20	0	0	0	2	2	4	11	13	24
		Field Day on Wet DSR Var. Ranjit Sub1	10.12.21	1	13	6	19	2	0	2	2	2	4	17	8	25
		Field Day on Scientific cultivation of Rapseed and Mustard	14.03.22	1	18	3	21	1	0	1	2	2	4	21	5	26
		Total		34	467	301	768	92	61	153	68	68	136	627	430	1057
4.	Group Discussion	3					0									
		BOD meeting with KVK Officials	22.10.2021	1	8	2	10	2	0	2	2	1	3	12	3	15
		Synthesis meeting of FPC with KVK Officials	10.03.2022	1	4	1	5	3	0	3	2	1	3	9	2	11
		BOD meeting with KVK Officials	28.03.2022	1	2	1	3	3	0	3	2	1	3	7	2	9
	Total	3		3	14	4	18	8	0	8	6	3	9	28	7	35

5.	Kishan Gosthi	0					0									
6.	Kishan Mela	0					0									
7.	Film show	Poshan vatika Mahaabhiyan and tree plantation	17.09.2021	1	1	75	76	5	19	24	3	4	7	9	98	107
		Celebration of Jay Jawan Jai Kisan	23.12.2021	1	16	6	22	2	3	5	1	3	4	19	12	31
		Celebration of Azadi ka Amrit Mahotsav	26.08.21	1	8	30	38	0	2	2	5	6	11	13	38	51
		Celebration of 93rd Foundation Day of ICAR	16.07.21	1	22	0	22	2	0	2	2	3	5	26	3	29
		Celebration of International Women's Day	08.03.22	1	0	24	24	0	1	1	4	6	10	4	31	35
		Video conferencing on hon,ble PM's talk on Kisan Sanman Nidhi and interaction with FPO's	01.01.22	1	16	14	30	2	1	3	4	6	10	22	21	43
		Total		6	63	149	212	11	26	37	19	28	47	93	203	296
8.	SHG formation	0					0									
9.	Exhibition	Exhibition at Farmers Day in RARS, Titabor	09.11.2021				0									
		Exhibition at Farmers Day in Sugarcane Research Station (SRS),Buralikson	18.12.2021				0									

		Participated in Regional Agri Fair at AAU, Jorhat	12.03.22 to 14.03.22				0									
	Total		3				0									
10	Scientists visit to farmers fields	Agriculture and Allied sectors		144	95	224	319	16	39	55	28	42	70	139	305	444
11	Plant/ Animal Health camp	0														
12	Farm science club	0					0									
13	Ex-trainees Sammelan	Ex-trainees Meet	24.01.22	1	19	9	28	12	0	12	1	4	5	32	13	45
14	Farmers seminar/ workshop	0					0									
15	Method demonstration	Method Demonstration Low cost Azolla Cultivation	14.09.2021	1	7	5	12	1	0	1	1	2	3	9	7	16
		Demonstration on post harvest machineries	02.09.2021	1	15	16	31	0	0	0	4	3	7	19	19	38
		Demonstration on rice value chain machineries	06.10.2021	1	31	4	35	3	0	3	5	2	7	39	6	45
		Post harvest training and demonstration	13.11.2021	1	21	0	21	24	16	40	5	2	7	50	18	68
		Rice value chain demonstration	01.12.2021	1	20	4	24	6	0	6	5	2	7	31	6	37
		Demonstration on post harvest machineries Boro	14.12.2021	1	10	0	10	23	2	25	5	2	7	38	4	42

		Field testing on Assam rice knowledge bank	07.03.2022	1	12	4	16	18	0	18	5	2	7	35	6	41
		Field testing on Assam rice knowledge bank	08.03.2022	1	13	6	19	11	0	11	5	2	7	29	8	37
Total				8	129	39	168	86	18	104	35	17	52	250	74	324
16	Exposure visits	Exposure visit to Assam Agril. University, Jorhat	16.09.21	1	25	5	30	3	0	3	4	2	6	29	7	36
		Exposure visit under training programme on Agricultural input dealers of Assam	28.09.21	1	24	1	25	0	0	0	4	2	6	31	3	34
		Exposure visit to under STRY and Farmers under MANAGE	08.10.21	1	18	7	25	3	0	3	4	2	6	26	9	35
		Exposure visit to RARS, Titabor	09.11.21	1	21	20	41	4	7	11	4	2	6	28	29	57
		Exposure visit under training programme on Agricultural input dealers of Assam	27.12.21	1	17	4	21	3	2	5	4	2	6	23	8	31
		Exposure visit to Regional Agriculture Fair, AAU, Jorhat	12.03.2022	1	5	37	42	2	13	15	4	2	6	24	52	76
		Exposure visit to Regional Agriculture Fair, AAU, Jorhat	14.03.2022	1	11	0	11	15	4	19	4	2	6	69	6	75
Total				7	121	74	195	30	26	56	28	14	42	230	114	344

18	Electronic media (CD/DVD)	" Nutrition Garden for Nutition Security " uploaded in Youtube channel "KVK Golaghat"		1												
		" Showcasing of Value added products of rice " uploaded in Youtube channel "KVK Golaghat"		1												
		" Protective food to boost immune system during COVID -19" uploaded in Youtube channel "KVK Golaghat"		1												
		Total		3												
19	Extension literature	*Gharate toiyar koribo pora keibidhman krishi oushadar prastut pranali*		1												
		Commercial Cultivation of oyster mushroom and its value addition		1												
		Mati porikhar babe matir namuna sangrah pranali aru matir swasthya pramanpatra		1												
		Jaibik xaror prastut pranali aru prayug		1												

		Boigyanik Vittit Mou Palpn		1												
		Ms Ajanta Das- A successful farm woman		1												
		A farmer's journey to doubling income		1												
		Success Story of an Innovative farmer		1												
		Journey of a college student towards doubling the income of his family.		1												
		Doubling Farmers' income in Golaghat District		1												
		Water use efficiency :Methods of irrigation and their relative advantage(Modern Agricultural practices; page no:61-63)		1												
		Integrated Nutrient Management		1												
		Importance of soil testing and soil health cards and their significance and utility for judicious fertilizer application for crop production		1												

		Macro and Micro nutrient deficiencies and their symptoms and management approaches		1													
		Integrated pest management (IPM), precautionary measures in procurement of agricultural inputs		1													
		Good Agricultural Practice		1													
		Custom hiring centres for farm machinery – way forward for farm mechanization		1													
		Nursery management in vegetables crops		1													
		Personal Protective Equipment (PPE) for pesticide application		1													
		Total		19													
20	Newspaper coverage	*15*		15													
21	Popular articles																
22	Radio talk	Interview Programme of Ms Mridusmita Borthakur on the topic : Gharkhanar Ai dugun korar kisu koushal at AIR, Jorhat	02.09.2021	1													

		Interview Programme of Ms Mridusmita Borthakur on the topic : Ghakhanar babe grihinigorakir koribo pora ekhon budget at AIR, Jorhat	06.05.2021	1													
		Interview Programme of Dr. Bhirab Gogoi on the topic : Bijnan sanmat poddhotire bhut jalakiyar kheti at AIR,Dibrugarh	10.04.2021	1													
Total				3													
23	TV talk	Live in Programme of Dr. B. C. Deka at TV Station: Guwahati	22.09.2021	1													
24	Training manual			0													
25	Soil health camp			0													
26	Awareness camp	Awareness programme on formation of FPC	25.10.2021	1	14	0	14	13	0	13	2	1	3	29	1	30	
		Awareness programme on formation of FPC	25.10.2021	1	10	0	10	10	5	15	2	1	3	22	6	28	
		Awareness programme on formation of FPC	26.10.2021	1	22	3	25	0	0	0	2	1	3	24	4	28	
		Awareness programme on formation of FPC	28.10.2021	1	17	9	26	1	0	1	2	1	3	20	10	30	

		Awareness programme on Climate resilient agriculture	24.10.2021	1	128	63	191	6	3	9	2	1	3	136	67	203
		Awareness programme on formation of FPC	28.10.2021	1	24	1	25	0	0	0	2	1	3	26	2	28
		Awareness programme on formation of FPC	29.10.2021	1	1	0	1	16	8	24	2	1	3	19	9	28
		Awareness programme on formation of FPC	02.11.2021	1	20	9	29	1	0	1	2	1	3	23	10	33
		Awareness programme on formation of FPC	21.11.2021	1	21	0	21	17	0	17	2	1	3	40	1	41
		Awareness programme on formation of FPC	23.11.2021	1	49	2	51	0	0	0	2	1	3	51	3	54
		Awareness programme on formation of FPC	25.11.2021	1	0	21	21	0	0	0	2	1	3	2	22	24
		Awareness programme on formation of FPC	25.11.2021	1	0	22	22	0	0	0	2	1	3	2	23	25
		Awareness camp on Scientific Management of Poultry Diseases	04.12.2021	1	11	8	19	1	0	1	2	1	3	14	9	23
		Awareness programme on formation of FPC	4.2.2022	1	13	2	15	21	1	22	2	1	3	36	4	40
		Awareness Programme on FPO	10.3.2022	1	43	2	45	25	4	29	2	1	3	70	7	77
Total				15	373	142	515	111	21	132	30	15	45	514	178	692

27	Lecture delivered as resource person															
28	PRA	0														
29	Farmer-Scientist interaction	Celebration of 93rd Foundation Day of ICAR	16.07.2021	1	22	0	22	2	0	2	4	6	10	28	6	34
		Poshan vatika Mahaabhiyan and tree plantation	17.09.2021	1	1	75	76	5	19	24	4	6	10	10	100	110
		Celebration of women farmers day	15.10.2021	1	0	50	50	0	0	0	2	2	4	2	52	54
		Celebration of World Soil Day	05.12.2021	1	38	9	47	2	1	3	3	5	8	43	15	58
		Celebration of Jay Jawan Jai Kisan	23.12.2021	1	16	6	22	2	3	5	1	2	3	19	11	30
		World Pulses Day	10.02.2022	1	12	9	21	1	2	3	3	5	8	16	16	32
		Celebration of International Women's Day	08.03.2022	1	0	24	24	0	1	1	2	3	5	2	28	30
Total				7	89	173	262	12	26	38	19	29	48	120	228	348
30	Soil test campaign	0														
31	Mahila Mandal Convener meet	0														

32	Technology week	0														
33	Celebration of Important days	World Health Day	07.04.2021	1	10	33	43	0	7	7	2	1	3	12	41	53
		International Yoga Day	21.06.2021	1	12	10	22	0	0	0	4	6	10	16	16	32
		Celebration of 93rd Foundation Day of ICAR	16.07.2021	1	22	0	22	2	0	2	4	6	10	28	6	34
		Poshan vatika Mahaabhiyan and tree plantation	17.09.2021	1	1	75	76	5	19	24	4	6	10	10	100	110
		Celebration of women farmers day	15.10.2021	1	0	50	50	0	0	0	2	2	4	2	52	54
		Celebration Of World Food day	16.10.2021	1	10	35	45	4	4	8	1	2	3	15	41	56
		Celebration of World Soil Day	05.12.2021	1	38	9	47	2	1	3	3	5	8	43	15	58
		Celebration of Jay Jawan Jai Kisan	23.12.2021 to 25.12.2021	1	16	6	22	2	3	5	1	2	3	19	11	30
		Celebration of World Pulses Day	10.02.2022	1	12	9	21	1	2	3	3	5	8	16	16	32
		Celebration of International Women's Day	08.03.2022	1	0	24	24	0	1	1	2	3	5	2	28	30
		Celebration of Independence Day	15.08.2022	1	10	20	30	0	0	0	4	4	8	14	24	38
Total				12	131	271	402	16	37	53	30	42	72	177	350	572

34	Others	ICAR NEH Programme on Input distribution of Piglet, pig feed and feed supplement	04.01.2022	1	16	14	30	2	1	3	2	1	3	20	16	36
		Foundation Stone laying ceremony of approach road and Water Harvesting structure at KVK Golaghat	11.01.2022	1	25	15	40	0	0	0	2	1	3	27	16	43
Total				2	41	29	70	2	1	3	4	2	6	47	32	79
Grand Total				296	1447	1191	2638	380	216	596	240	222	462	2118	1629	3949

3.5 Production and supply of Technological products during 2021-22

A. SEED MATERIALS

Major group/class	Crop	Variety	Quantity (qt)	Value (Rs.)	Number of recipient/ beneficiaries		
					General	SC/ST	Total
CEREALS	Paddy	Ranjit, Gitesh, Swarna Sub-1, Ketekijoha, Kolajoha, Manipuri Chahao, Numoli, Bahadur sub-1	88.50	337800.00	62	112	174
OILSEEDS	Toria	TS-67	38	32300.00	Yet to sale		
	Toria	TS-38	4	3800.00			
PULSES	Blackgram	SBC 40	1.24	210.80	Yet to sale		
VEGETABLES							
FLOWER CROPS							
OTHERS (Specify)							

A1. SUMMARY ofProduction and supply of Seed Materials during 2021-22:

Sl. No.	Major group/class	Quantity (q)	Value (Rs.)	Number of recipient/ beneficiaries		
				General	SC/ST	Total
1	CEREALS	88.50	337800.00	62	112	174
2	OILSEEDS	42	36100.00	Yet to sale		
3	PULSES	1.24	2108.0	Yet to sale		
4	VEGETABLES					
5	FLOWER CROPS					
6	OTHERS					
TOTAL			**376008**	62	112	174

B. Production of Planting Materials(Nos. in lakh) 2021-22:

Major group/class	Crop	Variety	Numbers (In Lakh)	Value (Rs.)	Number of recipient beneficiaries		
					General	SC/ST	Total
Fruits	**Lemon**	**Assam Lemon**	**0.4300**	**129000.00**	**51**	**202**	**253**
	Banana	**Malbhog**	**0.0034**	**10200.00**	**104**	**22**	**126**
Spices	**Black Pepper**	**Paniur-I**	**0.05**	**10000.00**	**53**	**86**	**139**
Ornamental Plants							

VEGETABLES							
Forest Spp.							
Plantation crops	Arecanut	**Kamrupa Tall**	**0.00201**	**6030.00**	**4**	**2**	**6**
Medicinal plants							
OTHERS (Pl. Specify)	**Fodder crop**	**Hybrid Napier**	**0.02**	**2000.00**	**15**	**0**	**15**

B1. SUMMARY of Production and supply of plantingMaterials (In Lakh) during 2021-22:

Sl. No.	Major group/class	Numbers (In Lakh)	Value (Rs.)	Number of recipient beneficiaries		
				General	SC/ST	Total
1	Fruits	0.4334	139200	155	224	379
2	Spices	0.05	10000.00	53	86	139
3	Ornamental Plants					
4	VEGETABLES					
5	Forest Spp.					
6	Medicinal plants					
7	Plantation crops	0.00201	6030.00	4	2	6
8	Others (Fodder crop)	0.02	2000.00	15	0	15
TOTAL		0.50541	247230	227	312	539

C. Production of Bio-Products during 2021-22:

Major group/class	Product Name	Species	Quantity		Value (Rs.)	Number of Recipient /beneficiaries		
			No	(qt)		General	SC/ST	Total
BIOAGENTS								
BIOFERTILIZERS								
	Vermicompost	***Eiseniafoetida***		**200.45**	**240540.00**	**36**	**42**	**78**
						-	**-**	**-**
BIO PESTICIDES								

C1. SUMMARY of production of bio-products during 2021-22:

Sl. No.	Product Name	Species	Quantity		Value (Rs.)	Number of Recipient beneficiaries		Total number of Recipient beneficiaries
			Nos	(kg)		General	SC/ST	
1	BIOAGENTS							
2	BIO FERTILIZERS							
3	BIO PESTICIDE							
4	**Vermicompost**	***Eiseniafoetida***	**0**	**20045**	**240540.00**	**36**	**42**	**78**
5							**-**	**-**
	TOTAL		**0**	**20045**	**240540.00**	**36**	**42**	**78**

D. Production of livestock during 2021-22:Nil

Sl. No.	Type of livestock	Breed	Quantity		Value (Rs.)	Number of Recipient beneficiaries		
			(Nos)	Kgs		General	SC/ST	Total
	Cattle/ Dairy							
	Goat							
	Piggery							
	Poultry							
	Fisheries							
	Others (Specify)							

D1. SUMMARY of production of livestock during 2021-22:Nil

Sl. No.	Livestock category	Breed	Quantity		Value (Rs.)	Number of Recipient beneficiaries		Total number of Recipient beneficiaries
			Nos	(kg)		General	SC/ST	
1	CATTLE							
2	SHEEP & GOAT							
3	POULTRY							
4.	PIGGERY							
5	FISHERIES							
6	OTHERS (Pl. specify)							
	TOTAL							

3.6. Literature Developed/Published (with full title, author & reference) during 2021-22

(A) KVK News Letter ((Date of start, Periodicity, number of copies distributed etc.): **NIL**

(B) Articles/ Literature developed/published :

Item	Title/and Name of Journal	Authors name	Number of copies
Research papers			
1.			
Training manuals			
Technical Report			
Book/ Book Chapter	Ms Ajanta Das- A successful farm woman	Mrs. Mridusmita Borthakur	
	A farmer's journey to doubling income	Dr. Bhoirab Gogoi	
	Success Story of an Innovative farmer	Mrs. Krishnakhi Bora	
	Journey of a college student towards doubling the income of his family.	Dr. Arunima Bharali	
	Doubling Farmers' income in Golaghat District	Dr. B. C. Deka & Mrs Mridusmita Borthakur	
	Water use efficiency :Methods of irrigation and their relative advantage(Modern Agricultural practices; page no:61-63)	Mrs. Krishnakhi Bora	
	Integrated Nutrient Management	Mrs. Manjurima Gogoi	
	Importance of soil testing and soil health cards and their significance and utility for judicious fertilizer application for crop production	Mrs. Manjurima Gogoi	
	Macro and Micro nutrient deficiencies and their symptoms and management approaches	Mrs. Manjurima Gogoi	
	Integrated pest management (IPM), precautionary measures in procurement of agricultural inputs	Dr. Arunima Bharali	
	Good Agricultural Practice	Dr. Arunima Bharali	
	Custom hiring centres for farm machinery – way forward for farm mechanization	Dr. Bhobesh Chandra Deka	
	Nursery management in vegetables crops	Dr. Bhoirab Gogoi	
	Personal Protective Equipment (PPE) for pesticide application	Mrs. Mridusmita Borthakur	
Technical bulletins	*Gharate toiyar koribo pora keibidhman krishi oushadar prastut pranali*	Dr. B.C. Deka, Dr. A. Bharali, Mrs. M. Gogoi, Mrs. K. Borah, Mrs. M. Borthakur	

	Commercial Cultivation of oyster mushroom and its value addition	Dr. B.C. Deka, Dr. A. Bharali, Mrs. M. Gogoi, Mrs. K. Borah, Mrs. M. Borthakur	
	Mati porikhar babe matir namuna sangrah pranali aru matir swasthya pramanpatra	Dr. B.C. Deka, Dr. A. Bharali, Mrs. M. Gogoi, Dr. B. Gogoi, Mrs. K. Borah, Mrs. M. Borthakur	
	Jaibik xaror prastut pranali aru prayug	Dr. B.C. Deka, Dr. A. Bharali, Mrs. M. Gogoi, Dr. B. Gogoi, Mrs. K. Borah, Mrs. M. Borthakur	
	Boigyanik Vittit Mou Palpn	Dr. B.C. Deka, Mrs. Sanjukta Saikia, Mrs. Pallavi Saikia, Dr. B. Gogoi, Mrs. M. Borthakur	
Popular articles			
Extension bulletins			
Newsletter			
Conference/ workshop proceedings			
Leaflets/folders			
e-publications			
Any other (Pl. specify)			
TOTAL			

N.B. Please enclose a copy of each. In case of literature prepared in local language, please indicate thetitle in English

(C) Details of Electronic Media Produced: 3 nos.

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number produced
1	Video	" Nutrition Garden for Nutition Security " uploaded in Youtube channel "KVK Golaghat"	1
2	Video	" Showcasing of Value added products of rice " uploaded in Youtube channel "KVK Golaghat"	1

3	Video	" Protective food to boost immune system during COVID -19" uploaded in Youtube channel "KVK Golaghat"	1

3.7.Success stories on horizontal spread of the technologies/Case studies, if any (two or three pages write-up on each case/ successes with suitable action photographs):

Golaghat Farmer with National Prestige

Pollov Gogoi, son of Late Sideshar Gogoi and a resident of Buralikson village, aged 37 years is an inspiration for agripreneur culture in the state of Assam. After finishing his high school studies, he started to plough his ancestral land and turned it into golden soil. Approximately, 4.5 ha of farm land have been converted into a “Mix Firm” having agriculture, forestry, tea garden, animal husbandry, fishery etc. His scientific orientation towards farming started during tender age. But, when he come in contact with Agricultural Research and Extension wings of State and National level, his wings matured and become an inspiration for every educated unemployed rural youths of the country.

He developed a scientific cultivation of Tea with Banana and Arecanut, which yielded very good results in monetary terms and bagged IARI- Innovative Farmer Award 2021. The thought behind the innovation was that as tea plantation and arecanut takes long time to generate return. Banana was introduced. And to retain soil moisture and reduce the cost of fertilizer application Banana plants are cut into small pieces and earthworms are released in the tea garden itself.

Moreover, he started a Pig Breeding farm comprising of breeds like Yolkshire, Hampshire and Durrock. Presently he is suppling quality progeny to Pig farmers in the state and earning a return of 36 lakhs per year.

For his dedication and never ending hardship in the field field of agriculture and allied activities, he received various accolades like Best Banana Farmer Award-2020 presented by ICAR-National Research Centre for Banana at 27th Foundation Day. Moreover, National Agri-Horti cultural Show, 2021 organized by Department of Agriculture & Directorate of Horticulture and FP honored him for “Transforming Agriculture and Horticulture in Assam”. Ideal Farmer Award was also presented to him on 69th Republic Day by District Administration, Golaghat. Additionally, Assam Pradesh Krishak Marcha, BJP honored him at State Level Farmers Ceremony on 17th December, 2020.

His work has also been acknowledged by various print and media coverage viz. Video coverage by Assamese News Channel Dy365 as documentary and Print coverage by Amar Asom on 28th November, Amar Khabar on 22nd August, Amar Khabar on 13th September, Amar Asom on 21st August, Asom Dapun, Hindi newspaper in the year 2021-22

Regarding financial help from Govt. agencies he received Rs. 50,000 cash money under CSR project on Livelihood generation, 2020-21 by District Administration, Golaghat.

Various components of Gogoi's Mix farm are presented in tabular form below:

Field Crops:

Sl.No	Crop	Area	Gross Cost	Gross Return	Cost benefit ratio
1	Paddy (Var. Ranjit Sub 1)	0.53 ha	35709	62400	1:1.7
2	Paddy (Var. Bahadur Sub 1)	0.53 ha	35709	57600	1:1.6
3	Pea (Hybrid)	0.13 ha	26675	138000	1:5.2

Fruit crops:

Sl.No.	Crop	Area	Nos.	Gross Cost	Gross Income	Cost benefit ratio
1	Banana (Var. Grand 9)	2.59 ha	12000	101104	280000	1:2.76
2	Assam Lemon	0.2 ha	30	70615	224000	1:3.17
3	Papaya (Var. Red lady)	0.1 ha	200	199344	600000	1:3
4	Arecanut (Kamrupa):	0.5 ha	800	In vegetative stage. No income generated yet		
5	Pineapple:	0.001 ha	50	15600	52000	1:3.33
6	Litchi	-	7 nos	2100	14000	1: 6.6
7	Black pepper (Var.	-	120	10500	144000	1:13

	Pennyur 1)					

Livestock and Poultry

Sl.No	Component	Area/Nos.	Gross Cost	Gross Return	Cost benefit ratio
1	Fish	5000 nos	15,000	35,000	1:2.33
2	Chicken (Breed Local)	200	20,000	70,000	1:3.5
3	Duck (Breed Local	15	Recently initiated. No return yet		
4	Piggery (Breed: Yolkshire, Hampshire,Durrock)	30	12,00,000	36,00,000	1:3

Others:

Sl.No.	Crop	Area	Nos.	Gross Cost	Gross Income	Cost benefit ratio
1	Tea	3.46 ha	-	93750	168750	1:1.8
2	Agerwood	-	12000	**No income generated yet**		

3.8 Give details of innovative methodology/technology developed and used for Transfer of Technology during the year: NIL

3.9 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):

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK
1.	Vegetables	Application of Wood ash for controlling pest	Pest control
2.	Citrus	Application of Tobacco leaf in the hole to control the trunk borer	Pest control
3.	Mango	Produce Smoke at the base of mango tree for controlling mealybug	Pest control
4.	Potato	Spread a layer of wild bihlongoni on floor than keep a layer of potato tuber seed and cover with wild bihlongoni leaves.	To repel potato tuber moth
5.	Cucurbits	Spraying of tobacco soak water + lime water+Leaves of Ahom Bogori	Effective against fruit fly

6.	Rice	Application of leaves of keturi or turmeric to rice field	Control rice hispa
7.	Vegetables	Application of wood ash in vegetables	Control aphids and other sucking insects.
8.	Rice	Placing of bamboo perches in the field	To provide site for predatory bird sitting
9.	Rice	Application of goat excreta in the rice field	To control several diseases of rice
10	Citrus, Cucurbits	Broadcasting of broken rice grain	To attract predatory birds for preying insects
11	Citrus	Application of cut fish water	To attract predatory red tree ant
12	Coconut	Hanging of damaged shoes in the plant	Ritual belief for increased fruiting
13	Vegetables	Application of Salt in Dried cowdung and kept for few days covered with polythene sheet. Thereafter the sheet used to be removed and vegetation grown there is mixed thoroughly and applied to crops	Plant nutrient
14	Pulse	He uses ITK against gram pod borer — 1 litre three days old cow urine kept in air tight container, 50 gm smoothly grinded black tobacco & 100 gm smoothly grinded garlic mixed with 2 litres of water and sprays in gram plants during evening. About 60 per cent control have been achieved against gram pod borer attack.	Pest control of Pulse
15	Sugarcane	He uses ITK against Sugarcane stem borer during flood – 100gm juice extracted from Mulberry plants bark, 1 litre three days old cow urine kept in air tight container, 50gm smoothly grinded black tobacco & 100 gm smoothly grinded garlic mixed with 10 litres of water and sprays in sugarcane crop. About 55 per cent control have been achieved against sugarcane stem borer attack.	Pest control of Sugarcane
16	King Chilli	He uses ITK against King Chilli attacked by field cricket- by mixing 1Kg finely chopped inner core of pseudo stem of Bhimkal, 5 gm bevistin powder and 5 gm gum of Akan plant and apply in ring method. About 60 per cent control have been achieved against the pest.	Pest control of King Chilli
17	Oilseed	Prevention of aphid attack in rapeseed & mustard- To prevent aphid attack in rapeseed & mustard fine ash spread over rapeseed & mustard crop with the help of bamboo sieve during Nov- Dec. About 50-70 per cent control have been achieved against aphid attack.	To prevent aphid
18	Garlic	Preservation of garlic- For seed purpose garlic are preserved by keeping the garlic cloves in bundles over *'Dhuachang'* (smoke shade) so that smoke prevents insect attack and garlic sprouted easily. About 60 per cent control have been achieved against pest attack.	Preservation of garlic
19	Colocasia	Preservation of *colocasia*- If colocasia are kept in soil they sprouted easily. Therefore, *colocasia* should be kept hanging in wall so that moisture percentage will decrease and they won't sprout. About 75 per cent success was achieved.	Preservation of *colocasia*
20	Chickpea	Preservation of Chickpea seed- Chickpea seeds are smeared with three days old cow urine kept in air tight container and sun dried once in a month. About 70-80 per cent control have been achieved.	Preservation of Chickpea seed

3.10 Indicate the specific training need analysis tools/methodology followed for

- **Identification of courses for farmers/farm women:** Benchmark survey, PRA, Farmers-scientist interaction, Field observation , interview .
- Rural Youth: PRA, Farmers-scientist interaction , observation , interview
- **Extension personnel:** Feedback evaluation , Departmental Communication , Questionnaire , performance analysis

-

3.11 Field activities

i. Number of villages adopted: 2 (Borchapori under Morongi Block and Bogoriyoni under Central Golaghat (Kothalguri) block

ii. No. of farm families selected: Borchapori : 125nos. Bogoriyoni: 75

iii. No. of survey/PRA conducted: 1

3.12. Activities of Soil and Water Testing

Status of establishment of Lab :Functional but need Chemicals and repairing of equipments

1. Year of establishment : **March,** 2009
2. List of equipments purchased with amount :

Sl. No	Name of the Equipment			Qty.	Cost
	S&WT lab	Mini lab/ Mridaparikshak	Manufacturer		
1	Kjelplus Nitrogen Analyser	Mridaparikshak	Nagarjuna Agrochemica pvt. Ltd., Hyderabad	1	2,48,484.00
2	Grinder			1	15,750.00
3	Horizontal Rotary Shaker			1	22275.00
4	Water distillation Still (Wall mounted)			1	10368.00
5	Double water distillation apparatus			1	28912.00

6	Spectrophotometer			1	26424.00
7	Flame Photometer			1	25301.00
8	pH meter			1	8307.00
9	Conductivity bridge			1	9757.00
10	Chemical balance			1	36563.00
11	Double pan physical balance			1	5063.00
12	Double pan physical balance			1	3375.00
13	Shaker			1	18563.00
14	Oven			1	21330.00
15	Hot plate			1	3375.00
16	Refrigerator			1	14,500.00
17	Portable pH meter with combined electrode			1	2000.00
18	Digital Balance (0-5kg)			1	8450.00
19	BOD Incubator			1	RKVY
20	Autoclave			1	RKVY
21	Laminar Air Flow Chamber			1	RKVY
Total					5,08,797.00

3. Details of samples analyzed (2021-22) :

Details	No. of Samples analysed	No. of Farmers	No. of Villages	Amount (In Rupees) realized
Soil Samples				-
Water Samples				
Plant Samples				
Petiole Samples				
Total				-

1. Details of Soil Health Cards (SHCs) (2021-22)

a. No. of SHCs prepared:
b. No. of farmers to whom SHCs were distributed:
c. Name of the Major and Minor nutrients analysed: N, P, K, S, Zn, OC, P^H, EC, B, Fe
d. No. of villages covered:
e. Soil health card based nutrient management in different crops ::

3.13. Details of SMS/ Voice Calls sent on various priority areas(2021-22)

Message type	Crop		Livestock		Weather		Marketing		Awareness		Other Ent.		Total	
	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary
Text only	14	771	4	771	2	771	-	-	2	771	2	771	46	771
Voice only														
Voice and Text both														
Total	14	771	4	771	2	771	-	-	2	771	2	771	46	771

3.14 Contingency planning for (2021-22)

a. Crop based Contingency planning

Contingency (Drought/ Flood/ Cyclone/ Any other please specify)	Proposed Measure	Proposed Area (In ha.) to be covered	Number of beneficiaries proposed to be covered		
			General	SC/ST	Total
Flood	Introduction of new variety or crop	50	50	50	100
	Introduction of Resource Conservation Technologies	50	50	50	100
Flood	Distribution of seeds and planting materials	100	100	100	200
	Any other (Please specify)				

5. Livestock based Contingency planning

Contingency (Drought/ Flood/ Cyclone/ Any other please specify)	Number of birds/ animals to be distributed	No. of programmes to be undertaken	No. of camps to be organized	Proposed number of animals/ birds to be covered through camps	Number of beneficiaries proposed to be covered		
					General	SC/ST	Total

4.0. IMPACT: Not Done.

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

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Impact of assistance to farmers through "Custom Hiring Centres"	60	100		

Parameters	Borgoria-Letekuchapori CHC	Ponka-Borchapori CHC
Nos. Of members	120	153
Membership fee accommodated	224475.00	9500.00
Revenue generated from hiring		99215.00
Recurring expenses from the CHCs		
i. Diesel	143699.00	50023.00
ii. Servicing	8357.00	
iii. Driver	33800.00	11500.00
iv. Miscellaneous	13296.00	30044.00
Profit	**25325.00**	**17148.00**

4.2. NB: Should be based on actual study, questionnaire/group discussion etc. with ex-participants.

5.1 Cases of large scale adoption

(Please furnish detailed information for each case):

Technology : HYV Toria

Year	Area	No. of farmers	Yield achieved	Horizontal spread	
				No. of farmers	Area
2015-16	**20 ha**	**50**	**10 q/ha**		
2016-17	**80.5 ha**	**175**	**11.2 q/ha**	**>205**	**>250 ha**
2017-18	**141.67 ha**	**201**	**10.25 q/ha**	**>540**	**>650 ha**
2018-19	**131.39 ha**	**321**	**12.38 q/ha**	**>800**	**>1000ha**

Technology : Ranjit Sub 1

Year	Area	No. of farmers	Yield achieved	Horizontal spread	
				No. of farmers	Area
2015-16	**1 ha**	**5**	**48.3 q/ha**		**-**
2016-17	**3 ha**	**15**	**47.8 q/ha**	**>10**	**>10 ha**
2017-18	**6 ha**	**10**	**51.25 q/ha**	**>20**	**>20 ha**
2018-19	**45 ha**	**56**	**53.1 q/ha**	**>350**	**>400 ha**

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

5.0. LINKAGES ESTABLISHED

5.1 Functional linkage with different organizations

Sl. No	Line Department	Technical support/Input
1	DAO, Golaghat	Resource sharing in the training programme organized under different scheme by DAO, Golaghat.KVK scientists used to provide technical guidance to the farmers covered under different Govt. Flagship programmes in the district
2	DRDA	Water harvesting structure and Agri bund under MGNREGA.Training programme were organized by KVK, Golaghat at DRDA to train the KrishiSakhi.
3	NABARD	Formation of Farmer Producer Company
4	NGO	Acted as resource person on different training programme
5	NRL	Technical Guidance and Monitoring of Custom Hiring Centre and Cluster Model Village (NRL sponsored programme)
6	RSETI	Acted as resource person on different training programme
7	NFSM	With financial help of NFSM, Cluster Frontline Demonstration Programme on Pulse crops was conducted during the year 2021-22 in Golaghat district. All total 50 no. of demonstrations onBlackgram,have been conducted covering 20 ha area.
8	NMOOP	With financial help of NMOOP, Cluster Frontline Demonstration on Oilseed crops was conducted during the year 2021-22 in Golaghat district. All total 50 nos. of demonstrations of Oilseed crop sesame and Toria had been conducted covering 20 ha area.

NB The nature of linkage should be indicated in terms of joint diagnostic survey, joint implementation, participation in meeting, contribution received for infrastructural development, conducting training programmes and demonstration or any other

5.2 List special programmes undertaken by the KVK, which have been financed by State Govt./Other Agencies during 2021-22

Name of the scheme	Activity	Date/ Month of initiation	Funding agency	Amount (Rs.)
APART	Demonstrations on : A. Sali Paddy demonstrations 1. STRV : 105.15 ha 2. PQR: 9.8 ha B. Black gram var. PU31:5 ha C. Mustard var. NRCHB 101 :10 ha D. Potato Mini tuber Seed Multiplication under Net House var. Kufri Jyoti: 2 Bigha E. Technology trial on growing of tomato following Minimum Tillage after harvest of rice in fellow land var. Anup : 4 Bigha		Assam Rural Infrastructure and Agricultural Services Society (ARIAS)	
Cluster Frontline Demonstration of pulse and oilseed	Demonstrations on: 1. Blackgram Var. SBC 40: 20 ha 2. Sesame Var. ShT1: 10 ha 3. Toria Var. TS-67: 10 ha		National Food Security Mission and NMOOP	
NARI	Demonstrations on: 1. Popularization of nutrition garden 2. Cultivation of Oyster mushroom for enhancing nutritional security 3. Popularization of dual purpose poultry kamrupa to enhance nutrition security of farm families		ATARI	
Technical Guidance and Monitoring of Custom Hiring Centre and Cluster Model Village (NRL sponsored programme)	Technical Guidance and Monitoring of Custom Hiring Centre and Cluster Model Village Nearby Numaligarh Refinery Limited		Numaligarh Refinery Limited	

5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district Yes

Sl. No.	Programme	Nature of linkage	Remarks
1	Training Programme	Lecture delivered as resource person	

5.4 Give details of programmes implemented under National Horticultural Mission: Nil

S. No.	Programme	Nature of linkage	Constraints if any

5.5 Nature of linkage with National Fisheries Development Board : Nil

S. No.	Programme	Nature of linkage	Remarks

6. PERFORMANCE OF INFRASTRUCTURE IN KVK DURING 2021-22

6.1 Performance of demonstration units (other than instructional farm)

Sl. No.	Demo Unit	Year of estd.	Area	Details of production			Amount (Rs.)		Remarks
				Variety	Produce	Qty.	Cost of inputs	Gross income	
1	Vermicompost	2012	6 nos of Vermipit	Eisenia foetidia	Vermi compost	**200.45 q**	gfg	**240540.00**	

6.2 Performance of instructional farm (Crops) including seed production

Name of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.	Cost of inputs	Gross income	
Cereals									
Rice	-	-	4 ha	Ranjit,Gitesh ,Swarna Sub-1,etekijoha Kolajoha ,Koneejoha ,Manipuri chahao	Foundation seed	88.50 q	82520.00	337800.00	
Wheat									
Maize									
Any other									
Pulses									
Green gram									

Black gram									
Arhar									
Lentil									
Any other									
Oilseeds									
Toria	-	-		TS- 67, Ts 38	Foudation seed	42 q		1,37,750.00	
Soy bean									
Groundnut									
Any other									
Fibers									
i.									
ii.									
Spices & Plantation crops									
i. **Black pepper**	-	-	-	Paniur-I	Cuttings	5000 nos		60,000.00	
ii. Arecanut				**Kamrupa Tall**	Sapling	201 no.		6030.00	
Floriculture									
i.									

ii.									
Fruits									
i.				**Assam Lemon**	Cuttings	4300 nos		129000.00	
ii.				**Banana**	**Sucker**	**340 nos.**		**10200.00**	
Vegetables									
i.									
ii.									
a. Others (specify)									
i. Fodder crop				Hybrid napier	slits	2000 nos		2000.00	
ii.									

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

Sl. No.	**Name of the Product**	**Qty**	**Amount (Rs.)**		**Remarks**
			Cost of inputs	**Gross income**	
1	Vermicompost	200.45 q	-	240540.00	

6.4 Performance of instructional farm (livestock and fisheries production) : nil

Sl.	Name	Details of production	Amount (Rs.)	Remarks

No	of the animal / bird / aquatics	Breed/ species	Type of Produce	Qty.	Cost of inputs	Gross income	

6.5 Rainwater Harvesting

Training programmes conducted by using Rainwater Harvesting Demonstration Unit: Nil

Date	Title of the training course	Client (PF/RY/EF)	No. of Courses	No. of Participants including SC/ST			No. of SC/ST Participants		
				Male	Female	Total	Male	Female	Total

6.6. Utilization of hostel facilities (Month-Wise) during 2021-22

Accommodation available (No. of beds) :23 no. of beds are available.

Months	Title of the training course/Purpose of stay	Duration of Training	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
	RAWEP student	13 days	10	13	
Total					
Grand total		13 days	10	13	

Note: (Duration of the training course X No. of trainees)=Trainee days

7. FINANCIAL PERFORMANCE

7.1 Details of KVK Bank accounts

Bank account	Name of the bank	Location/ Branch	Account Number
With Host Institute	State Bank of India	Pulibor ADB	11472897329
With KVK	State Bank of India	Pulibor ADB	11472899348
Revolving Fund	State Bank of India	Pulibor ADB	11472897679

7.2 Utilization of funds under FLD on Maize *(Rs. In Lakhs) if applicable: Nil*

Item	Released by ICAR/ZPD		Expenditure		Unspent balance as on 31st March, 2015
	Year	Year	Year	Year	
Inputs					
Extension activities					
TA/DA/POL etc.					
TOTAL					

7.3 Utilization of KVK funds during the year 2021-22

S. No.	Particulars	Sanctioned (in Lakh)	Released (in Lakh)	Expenditure (in Lakh)
A. Recurring Contingencies				
1	**Pay & Allowances**	161.38	161.38	161.38
2	**Traveling allowances**			
3				
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)			
B	POL, repair of vehicles, tractor and equipments			
C	Meals/refreshment for trainees			
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)			
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)			
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)			
G	Training of extension functionaries			
H	Maintenance of buildings			
I	Establishment of Soil, Plant & Water Testing Laboratory			
J	Library	19.00	19.00	18.94
TOTAL (A)		182.88	182.73	182.65

B. Non-Recurring Contingencies				
1	**Works**	3.00	NA	NA
2	**Equipments including SWTL & Furniture & IFT**	2.00	2.00	2.00
3	**Vehicle** (Four wheeler/Two wheeler, please specify)			
4	**Library** (Purchase of assets like books & journals)			
5	**HRD**			
TOTAL (B)		187.88	184.73	184.65
C. REVOLVING FUND		-	1.83	1.83
GRAND TOTAL (A+B+C)		**187.88**	**186.56**	**186.48**

7.4 Status of Revolving Fund (Rs. in lakhs) for last three years

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year
April 2019 to March 2020	283398.38	813474.00	963874.00	132998.00
April 2020 to March 2021	132999.00	685834.00	606542.00	212291.00
April 2021 to March 2022	65794.88	233350.80	183257.00.	708033.88

Note: No KVK must leave this table blank

8.0 Please include information which has not been reflected above.

(Write in detail)

8.1 Constraints

(a) Administrative
i) Campus Security
ii) Restricted Mobility of Scientists due to lack ofsufficient office Vehicle

(b) Financial: i) Non-allocation of fund for non-recurring item
ii) Low budget for residential training

(c) Technical: i) Non-availability of farmers lounge
ii) Lack of basic amenities for library

(B.C. Deka)
Sr. Scientist cum Head
KVK, Golaghat