ANNUAL REPORT
2017-18









KRISHI VIGYAN KENDRA : GOLAGHAT
ASSAM AGRICULTURAL UNIVERSITY
KHUMTAI-785619:: ASSAM

ANNUAL REPORT OF KVK (2017-18)

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	kvkgolaghat@gmail.com, kvk_golaghat@aau.ac.in

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. F.U. A. Ahmed	9436227984	9436227984	faahmed 2005@gmail.com

1.4. Year of sanction: 1995

1.5. Staff Position **(As on 31st March, 2018)**

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. F. U. A. Ahmed	Senior Scientist and Head	Animal Sc.	37400 - 67000+ GP 9000	49240	04.10.16	P	Others
2	Subject Matter Specialist	Mrs. Sangita Mahanta	Subject Matter Specialist	Horticulture	15600-39100+ GP 7000	30190	06.11.08	P	Others
3	Subject Matter Specialist	Dr. (Mrs.) Archana Hazarika	Subject Matter Specialist	Animal Sc.	15600-39100+GP 7000	30190	07.11.08	P	ST
4	Subject Matter Specialist	Ms. Rekhashree Kalita	Subject Matter Specialist	Agronomy	15600-39100+GP 7000	30190	07.11.08	P	Others
5	Subject Matter Specialist	Ms. Arunima Bharali	Subject Matter Specialist	Plant Protection	15600-39100+GP 7000	30160	06.11.08	P	OBC
6	Subject Matter Specialist	Mr. Horindra Gogoi	Subject Matter Specialist	Agril. Economics	15600-39100+GP 6000	26590	06.11.08	P	OBC
7	Subject Matter Specialist	Mrs. Manjurima Gogoi	Subject Matter Specialist	Soil Science	15600-39100+GP 6000	25810	04.08.11	P	OBC
8	Subject Matter Specialist	Ms. Sukritee Hazarika	Subject Matter Specialist	Soil Science	15600-39100+GP 5400	22950	01.02.14	P	OBC

9	Programme Assistant	Ms. Mridusmita Borthakur	Programme Assistant	Home Science	8000-35000+GP 4900	14980	04.01.12	P	Other
10	Programme Assuistant (Computer)	Mrs. Smriti rekha Bhuyan	Computer Programmer	-	8000-35000+GP 4900	19490	14.11.08	P	Others
11	Farm Manager	Mr. Ratul Ch.Neog	Farm Manager	Tea Husbandry and Technology	8000-35000+GP 4900	15430	24.10.11	P	OBC
12	Office Superintendent cum Accountant	Mr. Mriganka Shekhar Sarmah	Office Superintendent cum Accountant	PGBM (International business)	8000-35000+GP 4900	14980	18.02.12	P	Other
13	Jr. Stenographer	Mrs. Juri Dutta Khaund	Jr. Stenographer	-	6660-20200+GP 3300	11560	30.03.12	P	OBC
14	Driver cum Mechanic	Mr. Pranjit Gogoi	Driver cum Mechanic	-	6660-20200+GP 2500	9680	22.02.12	P	OBC
15	Driver cum Mechanic	Mr. Diganta Gogoi	Driver cum Mechanic	-	6660-20200+GP 2500	9680	22.02.12	P	OBC
16	Supporting staff	Mr. Bipul Baruah	Grade-IV	-	5200-20200+GP 2100	12570	01.12.95	P	OBC
17	Supporting staff	Vacant	-						
	Total	**15**							

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	-	172297	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 year 2017-18

Sl. No.	Date	Name and Designation of Participants	Salient Recommendations	Action taken on last SAC recommendation
1.	19.03.18	1. Dr. H. C Bhattacharya, Director of Extension Education, AAU, Jorhat 2. Mr. Dhiraj Das, ADC, Golaghat 3. Smt. R. Dev, Functional Manager, DICC, Golaghat 4. Dr. B.C. Bordoloi, Chief Scientist, SRS, Buralikson 5. Dr. T. Ahmed, Chief Scientist, RARS, Titabor 6. Mr.. S. Chakraborty, DDM, NABARD, Golaghat 7. Mr. Prabin Sonowal, LDM, UBI, Golaghat 8. Mr. Abhiji Kakoti, Scientist B &DIO, NIC, Golaghat 9. Mr. Jadab Dutta, JE, DRDA, Golaghat 10. Ms. Silpika Gogoi, FDO, o/o DFDO, Golaghat 11. Mr. Bijit Baruah, Ex. Engineer, Irrigation, Golaghat 12. Mr. Siban Chakrabarty, AE, Irrigation, Golaghat 13. Dr. S. K. Haloi, VO, Golaghat 14. Mr. A. N. Sharma, SDAO (CC & TC), Golaghat 15. Mr. K.R. Saikia, Sr. ADO (Agri), Golaghat 16. Mr. Gupi Changmai, President, KASS 17. Smt. Arati Bailung, Progressive Farmer, Letekuchapori 18. Mrs. Manjuma Begum, Progressive Farmer, Dhemaji Koiborta Gaon 19. Ms. Juli Gogoi, Progressive Farmer,Mohmaikigaon, Jyotipur, Bokakhat 20. Mr. Biren Gogoi, Farmer, Borphukankhat 21. Mr. Partha Pratim Dutta, MIS Manager, DRDA, Golaghat 22. Mr. Mohendra Konwar, Asstt. Director of Sericulture, Golaghat 23. Mr. Pranab Chakraborty, Farmer, Dergaon, Golaghat 24. Dr. FUA Ahmed, Senior Scientist and Head, KVK, Golaghat	1. KVK, Golaghat to organize a skill development vocational training programme at SRS, Buralikson on modern cultivation practice and value addition of sugarcane. 2. To organize a 7-10 days long vocational training programme on fishery by inviting resource persons from College of Fishery, Raha. 3. Training on judicious use of agro chemicals/ IPM/IDM on vegetable crops should be undertaken to prevent indiscriminate use of chemicals .In this regard awareness programme can also be conducted. 4. OFT on ITK based seed potato storage should be conducted in potato growing areas. 5. Intervention for the Tea garden tribe nearby the Sericulture farm situated at Morangi for the uplift of their livelihood.FLD/OFT on rabi crops and trainings can be conducted. 6. NABARD should take initiative on formation of more “Farmers’ Club” in collaboration with KVK 7. Department of Veterinary should take up AI programme in collaboration with KVK 8. Promotion of cross bred of “Beetal” and “Sirohi”. 9. Training on Integrated pest management of Bhut jalakia should be conducted at Mohmaiki Gaon to develop large scale cultivation of Bhut Jalakia. 10. Training on Jam-Jelly preparation /preservation of fruit and vegetable crops should be conducted by KVK, Golaghat in collaboration with Department of Agriculture and NABARD. 11. Different demonstration programmes should be taken on cluster basis by KVK. 12. Large scale multiplication & commercialization of marigold through cluster effort by KVK in collaboration with NABARD by formation of FPO or Farmer Producer Corporation (FPC). 13. KVK, Golaghat to conduct vocational training, OFT & FLD in collaboration with department of Fishery, Golaghat. 14. Regular uploading of information in KVK website 15. Foundation seeds to be generated by the different FLD programmes conducted by the KVKs.	OFT, FLD ,Training programmes and other extension activities for FY 2018-19 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

S. No	Crop	Area (ha)	Production (q)	Productivity (q/ha)
	Cereals			
1	Autumn rice	4855	53780	18.17
2	Winter rice	74870	1544820	23.61
3	Summer rice	3680	74980	24.05
4	Wheat	1500	15260	10.17
5	Maize	540	1290	2.39
6	Small millet	449	180	4.00
	Pulses			
7	Tur	270	1830	6.79
8	Mung	186	800	4.36
9	Lentil	953	5910	6.20
10	Peas	1028	8940	8.69
11	Other rabi pulses	3775	21730	5.75
	Oilseeds			
12	Rape and Mustard	3210	14150	5.48
13	Sesamum	150	60	4.00
	Others			
14	Potato	1591	122340	76.89
15	Sugarcane	3248	1305770	402.02
16	Jute	685	58580	15.39
	Horticultural crops			
17	Banana	2655	367110	138.27
18	Pine-apple	254	33250	130.90
19	Papaya	186	24780	133.23
20	Orange	59	5960	101.20
21	Assam lemon	941	69080	73.40
22	Guava	363	55540	153.00
23	Litchi	211	7120	33.74
24	Jackfruit	186	21840	117.41
25	Mango	217	19400	89.40
26	Other fruits	59	940	15.93
	Spices & Condiments			
27	Chillies	206	1340	6.50
28	Turmeric	312	940	30.0
29	Ginger	739	75670	102.30
30	Blackpepper	150	2230	14.80
31	Other spices	62	530	8.50
	Vegetables			
32	Kharif vegetables	4343	535130	123.20
33	Rabi vegetables	7556	123118	162.94

2.5. Weather data

Month	Rainfall (mm)	Temperature ^{0} C		Relative Humidity (%)
		Maximum	Minimum	
April,2017	75.6	28.3	19.5	81
May,2017	263.2	30.6	21.9	88
June,2017	256.2	31.0	24.4	93
July,2017	289.0	32.2	24.6	95
August,2017	287.2	33.7	24.5	94
September,2017	144.2	30.5	23.7	91
October, 2017	136.0	29.3	21.1	83
November, 2017	11.6	23.3	15.5	75
December, 2017	9.6	20.1	11.5	77
January,2018	1.6	19.2	10.7	75
February,2018	34.8	20.2	12.5	77
March, 2018	45.2	28.1	19.5	84

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 (2017-18)

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	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 2017-18

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	2	5	6	14	2	4	10	205
Horticulture	3	3	6	4	2	6	4	122
Soil Science	6	5	24	20	6	4	50	31
Plant Protection	3	2	9	7	3	1	31	10
Animal Science	3	3	18	11	4	4	25	13
Home Science	2	2	5	15	3	2	11	7
Agril. Econ.	4	4	8	5	1	0	30	0
Total	23	24	76	76	21	21	161	388

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	25	47	625	1370	312	**441**	**3700**	4787
Rural youth	14	8	350	213	270	240	2500	3178
Extn. Functionaries	7	2	175	51	-	-	150	272
Total	46	57	1150	1634		681	6350	8851

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)	3.152	Black pepper var. Paniur I	Black pepper var. Paniur I :3000 nos. of cuttings
Toria var. TS 67	1.452	Assam Lemon	Assam Lemon: 300 nos. of cuttings

Note: Target set during last Annual Zonal Workshop

2. B. Abstract of interventions undertaken during 2017-18

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	Assessment of submergence tolerant Sali rice var. TTB U 86 under flash flood situation followed by Toria cropping sequence					Seeds, Fertlizer and other critical inputs
			Non availability of suitable fine grain sali paddy varieties	Assessment of Sali rice var. "Tripura Chikon Dhan" under rice based cropping system followed by Toria					Seeds, Fertlizer and other critical inputs
		Strawberry	Farmers are not aware of farming practice of High value crops	Varietal Performance of strawberry (var: Sweet charlie)					Planting material, Fertlizer

		Sorghum	Lack of knowledge of cultivation practice of sorghum	Sorghum Cultivation for Biomass Production for Biofuel					Seed
		Linseed	Lack of knowledge of cultivation practice of Linseed		Popularization of Linseed HYV “Shekhar”				Seed, fertilizer
		Toria	Low yield of traditional varieties		Scientific Cultivation of Toria:: HYV “TS 67”				
		Potato	Low yield of traditional varieties		Scientific Cultivation of Potato: HYV “Kufri Jyoti”				
		Marigold	Lack of knowledge about production technology		Popularization of Year Round Production of Marigold Var. Seracole				Planting material, fertilizer
		Kingchilli	Lack of knowledge about Scientific production technology		Scientific Cultivation of Kingchilli				Planting material, fertilizer

		Tuberose	Lack of knowledge about production technology		Popularization of Tuberose var. Subhashini				Planting material, Plastic for mulching
		Green Pea	Lack of knowledge about Scientific production technology		Demonstration On Scientific cultivation of Pea				
		Pumpkin	Lack of knowledge about Scientific production technology		Demonstration On Scientific cultivation of Pumpkin				
2	Breed introduction	Poultry	Lack of knowledge about Quail farming	Introduction of Quail Breed of Poultry					Chicks, poultry house
			Lack of knowledge about improved Backyard poultry for income generation		Popularization of Kamrupa Breed of Poultry under agroclimatic condition of Golaghat District				

			Lack of knowledge about improved Backyard poultry for income generation		Popularization of Vanaraja Breed of Poultry under agroclimatic condition of Golaghat District				
		Pig	Lack of knowledge about improved breed of Backyard pig for income generation		Popularisation of Rani Breed of Pig under agroclimatic condition of Golaghat District				
3	Disease management	Animal		Assessment of Jatropha based ointment					ointment
				Assessment of Jatropha based soap					Soap
					Popularisation of the technology of AAUVETMIN under agroclimatic condition of Golaghat District				AAUVETMIN

4	Integrated Nutrient Management	Banana	Lack of proper nutrient management and non utilization of farm waste by farmers	Integrated Nutrient Management in Banana					Seedling,PSB, Azospirillum, Chemical Fertlizer
		Rice	Lack of proper nutrient management by farmers	Response of Rice to Zn Solubilizing Bacteria for Zn Nutrition					Seed, Organic inputs
				Drought mitigation nutrient management in direct seeded Ahu rice					
				Effect of Zinc and Boron Application on Yield of Rice – Rapeseed Sequence. Rice: Ranjit Toria: TS-67					
		Lentil	Detoriation of soil health due to application of heavy doses of chemical fertilizer	Foliar Nutrition of lentil by application of urea after winter rice	Popularization of technique of nutrient management in lentil for soil management after winter rice				Seed, Organic inputs

		Toria	Detoriation of soil health	Effect of Nutrient management in Toria by seed inoculating with biofertilizers	Popularization of the technique of micronutrient application in toria for soil health				Seed, Organic inputs
		Chickpea	Potassium deficiency in pulse crops	Potash application in chickpea followed by summer rice					Seeds, inputs
		Lentil	Indiscriminate use of chemical fertilizers and high cost of production	Assessment of Biofertilizer inoculation on nutrient use efficiency of Lentil in Rice – fallow system					Seeds and other critical inputs
5	Integrated Pest Management	Okra	Lack of Proper Integrated pest management in Okra	Integrated pest management in Okra					Seed, chemical fertilizer, tricho card
6	Bio control	Rice	Chemical management of stem borer and leaf folder is not satisfactory and cost intensive		Biocontrol of rice stemborer and leaf folder in Sali rice(var. Ranjit).				Seed, vermicompost, tricho card

		Sesamum				Production technology and bio control of pest in sesamum			
		Oilseed and Pulse				Bio control of pest in oilseed and pulses			
		Vegetables				Bio control of pest in Rabi vegetables			
7	Organic	Cabbage	Organic Cultivation of Cabbage	Indiscriminate use of chemical fertilizers					Seed, vermicompost, Azospiriluum, PSB, Rock phosphate
		Rice							Seed, Vermicompost, organic inputs
		Vermicompost			Low cost Vermi compost production				Vermiworm
8	Mushroom Production	Mushroom	Lack of high temperature resistant mushroom variety	Varietal evaluation of oyster mushroom var. German ostreatus blue pin	Oyster mushroom production technology	Entrepreneurship development through mushroom production technology			Mushroom spawn , Polypropylene bag
9	Drudgery reduction	Paddy stripper	Health hazard of farm women in seed selection	Evaluation and utilization of paddy stripper					Paddy stripper

10	Integrated Weed Management	Rice	Irrational weed management practices		IWM in Winter Rice in Rice – Rabi Pulses system under Medium Land Situation				Seed, Fertilizer and other critical inputs
		Okra	Lack of proper weed management system		Popularization of mulching in okra followed by Rabi vegetables				Seed, Fertlizer, 50 micron black polythene
11	Child care technique	Bamboo walker	Health Hazard of plastic walker		Popularization of Traditional Bamboo walker	-	-	Method Demonstration	Bamboo walker
		Nutrified traditional rice based pitha	Malnutrition		Popularization of Nutrified traditional rice based pitha of Assam				
12	Value addition	Okra	Non utilization of Bio -waste	Effectiveness and utilization of bhindi (Okra) fiber					

3.1 Achievements on technologies assessed and refined during 2017-18

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	2			1		1				4
Seed / Plant production										
Weed Management										
Integrated Crop Management										
Integrated Nutrient Management	3		3			1				7
Integrated Farming System										
Mushroom cultivation				1						1
Drudgery reduction	1									1
Farm machineries										
Value addition					1					1
Integrated Pest Management					1					1
Integrated Disease Management										
Resource conservation technology										
Small Scale income generating enterprises										
Organic farming					1					1
Seed Priming			1							1
TOTAL	6		4	2	3	2				17

* *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

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitery	Fisheries	TOTAL
Evaluation of Breeds	-	1	-	-	-	-	-	1
Nutrition Management								
Disease Management	2	-	-	-	-	-	-	2
Value Addition								
Production and Management								
Feed and Fodder								
Small Scale income generating enterprises								
TOTAL	2	1	-	-	-	-	-	3

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

Sl. No.	Title of OFT	Problem Diagnosed	Name of Technology Assessed	Crop/ Cropping system/ Enterprise	No. of Trials	Results of Assessment/ Refined (Data on the parameter should be provided)	Feedback from the farmer	Feedback to the Researcher	B.C .Ratio (if applicable)
1	Assessment of submergence tolerant Sali rice var. TTB U 86 under flash flood situation followed by Toria cropping sequence	Lack of suitable submergence tolerant variety	Technology: Submergence tolerant Sali rice var. TTB U 86 Farmers' practice : Sali rice var. Swarna Sub-1	Paddy	3	**Yield:** Technology: 49.33 q /ha Farmers' practice : 46.67 q /ha Increase in yield (%) : 5.70	Satisfied	Can be promoted for large scale adoption	Technology: 2.49:1 Farmers' practice : 2.35:1
2	Assessment of Sali rice var. "Tripura Chikon Dhan" under rice based cropping system followed by Toria	Non availability of suitable fine grain sali paddy varieties	Technology : Sali Rice Var. "Tripura Chikan Dhan" Farmers' practice : Aijung	Paddy	3	**Yield:** Technology: 43.5 q /ha Farmers' practice :40.2 q /ha Increase in yield (%) : 8.21	Satisfied	Can be promoted for large scale adoption	Technology: 1.82:1 Farmers' practice : 1.68:1
3	Seed Priming in Lentil in Rice - Lentil Cropping System	Poor germination due to soil moisture deficit stress	Technology : Seeds soaking for 6 hours in water and then bringing down to almost original weight by drying	Lentil	3	**Yield:** Technology: 7.45 q /ha Farmers' practice :6.60 q /ha	Satisfied	Can be promoted for large scale adoption	Technology: 2.48:1 Farmers' practice : 2.20:1

			under shade before sowing Farmers' practice : Conventional			Increase in yield (%) : 12.88			
4	Sorghum Cultivation for Biomass Production for Biofuel	Lack of knowledge about Sorghum cultivation	Technology : Variety 1 : ICSV 93046 Variety 2 : RVICSH 2 Sowing time : Mid Sept to end Sept , Post rainy season up to Mid October SEED RATE : 8 kg/ha Fertilizer dose: 90-50-20 N-P2O5-K2O kg/ha Spacing: 60 cm x 15 cm	Sorghum	4	**Fresh Biomass** **Yield –** Variety 1 : ICSV 93046=3500 g/sq.m Variety 2 : RVICSH 2= 5750 q/ sq. m **Dry Biomass** **Yield –** Variety 1 : ICSV 93046=1022 g/sq.m Variety 2 : RVICSH 2= 1602 q/ sq. m	Satisfaction level is low to moderate	Need to be repeated for next season. Crop was damaged by Bird and domestic cattle	NA
5	Assessment of Biofertilizer inoculation on nutrient use efficiency of Lentil in Rice – fallow system	**Unproductive nutrient use**	Technology : Seeds inoculation with biofertilizer with Rhizobium & PSB @ 50 g /kg of seeds + Ammonium molybdate @ 0.5 kg/ha along with fertilizer dose of 10-26-15 kg N-P_2O_5-K_2O/ha and 20 kg $ZnSO_4$/ha Farmers' practice : RDF (15-35-0 kg N-P_2O_5-K_2O/ha)	Lentil	1	**Yield:** Technology: 7.67 q /ha Farmers' practice :6.60 q /ha Increase in yield (%) : 16.21	Moderate satisfaction	Need to be repeated for next season.	Technology: 2.55:1 Farmers' practice : 2.20:1

6	Organic Cultivation of Cabbage	Indiscriminate use of chemical fertilizers leads poor soil health	Azotobacter 7.5g+ PSB 7.5 g (100 g seed) Azotobacter + PSB @ 7.5 g solution (100 root dip treatment) Rock phosphate @ 375 kg/ha as SSP + vermicompost 5t/ha in main field	Cabbage	2	**Yield :** Technology:234.57q/ ha Farmers' practice :210.23q/ha	The technology convinced the farmers as it is suitable and profitable and encouraged them for economical as well as environmentally safe	Can be promoted for large scale adoption	Technology:2.38 :1 Farmers' practice :2.02:1
7	Varietal Performance of strawberry (var: Sweet Charley and Early Dawn)	Lack of knowledge about high value crops	Recommended Cultivation Practices (Planting time: Nov, Spacing: 30-30cm, Fertz: 100:60:140 kg NPK/ha , Mulching: 50 micron Black polythene)	Strawberry	1	**Yield :** Var. Sweet Charley: 90 q/ha Var. Early Dawn: 82.4 q/ha	Farmers accept the variety in terms of yield ,quality and economically beneficial	Variety can be promoted for large scale adoption	Var. Sweet Charley::2.44:1 Var. Early Dawn:: 1.77:1
8	Integrated Nutrient Management in Banana	Lack of proper nutrient management	12 kg FYM/Plant ,55 g N,33gP2O5 and 330 g K2O per plant and 25 g each of Azospirillum and PSB per plant	Banana	1	On going			

<table>
<tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>9</td><td>Foliar Nutrition of lentil by application of urea after winter rice</td><td>Low productivity as well as low pod formation due to lack of nutrients at pod formation stage</td><td>Technology (T1): RDF+ Application of 2 sprays of 2% Urea at branching and pod initiation stages in lentil

Lentil var. KLS-218

T_2: RDF</td><td>Lentil</td><td>5</td><td>
<table>
<tr><td></td><td>T_1</td><td>T_2</td></tr>
<tr><td>Plant Height</td><td>0.44 m</td><td>0.30m</td></tr>
<tr><td>Av. No of branches /plant</td><td>16.6</td><td>13.2</td></tr>
<tr><td>No. of pod/plant</td><td>131.2</td><td>116.2</td></tr>
<tr><td>No. of seeds /pod</td><td>2</td><td>2</td></tr>
<tr><td>1000 seed weight</td><td>19.36 g</td><td>18.95 g</td></tr>
<tr><td>Initial N-P-K Kg/ha</td><td>321-33.25-142</td><td>321-33.25-142</td></tr>
<tr><td>Final N-P-K Kg/ha</td><td>314.2-27.32-123.1</td><td>312.2-24.12-120</td></tr>
<tr><td>Yield</td><td>10.12 q/ha</td><td>9.31 q/ha</td></tr>
<tr><td>B : C ratio</td><td>2.69</td><td>2.21</td></tr>
</table>
</td><td>Farmers are satisfied</td><td>Can be promoted for large scale adoption</td><td>Technology:2.69:1
Farmers’ practice :2.21:1</td></tr>
</table>

<table>
<tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>10</td><td>Potash application in chickpea followed by summer rice</td><td>Potassium deficiency in pulse crops</td><td>Technology (T1): 20:40 Kg/ha NP+15 Kg/ha K

T_2: RDF

Chickpea var. Varun</td><td>Chick pea</td><td>5</td><td><table><tr><td></td><td>T_1</td><td>T_2</td></tr><tr><td>Plant Height</td><td>0.47 m</td><td>0.41m</td></tr><tr><td>Av. No of branches /plant</td><td>32.5</td><td>29.7</td></tr><tr><td>No. of pod/plant</td><td>131.2</td><td>116.2</td></tr><tr><td>No. of seeds /pod</td><td>2</td><td>2</td></tr><tr><td>Initial N-P-K Kg/ha</td><td>301.2-43.25-132.2</td><td>301.2-43.25-132.2</td></tr><tr><td>Final N-P-K Kg/ha</td><td>314.2-27.32-123.1</td><td>312.2-24.12-120</td></tr><tr><td>Yield</td><td>11.22 q/ha</td><td>9.23 q/ha</td></tr></table></td><td>Farmers are satisfied</td><td>Can be promoted for large scale adoption</td><td>T_1:: 2.51:1
T_2:2.01:1</td></tr>
<tr><td>11</td><td>Drought mitigation nutrient management in direct seeded Ahu rice</td><td>Lack of Proper nutrient management in drought like situation</td><td>Pre-sowing treatment of seed with 3% (30g/l) KCl solution (1 liter to be used in 1 kg seed) for 20 hours followed by shade drying for 48 hours before sowing,
FYM @ 10 ton / ha Before sowing, apply MOP @ 40 kg/ha as basal
Apply 20 kg P /ha as basal
Apply 40 kg N/ ha in two splits ie. at tillering & PI stage,
Apply 3.80 g KCl salt per litre of water (2% K) as foliar feeding at</td><td>Paddy</td><td>5</td><td colspan="3">On going.</td><td></td><td></td></tr>
</table>

			water stress period						
12	Response of Rice to Zn Solubilizing Bacteria for Zn Nutrition	Lack of proper nutrient management by farmers	Technology: T1: RD of NPK @ 40:20:20 kg/ha + Zn solubilizing Bacteria(Bacillus cerecus, B. variocola)(3.5 kg/ha) T2: RD of NPK @ 40:20:20 kg/ha + ZnSO4 @ 25kg/ha Rice Variety : Keteki Joha	Paddy	5	Yield T1: 3.21 t/ha T2: 3.08 t/ha	Satisfied	Can be promoted for large scale adoption	T1: 1.48:1 T2: 1.42:1
13	Effect of Zinc and Boron Application on Yield of Rice – Rapeseed Sequence. Rice: Ranjit Toria: TS-67	Lack of proper nutrient management by farmers	Rice: T1: FP; T2: RD of NPK:: 60:20: 40; T3: 1.5 kg B/ha + 5 kg Zn/ha + RD of Toria: T1: FP; T2: RD of NPK; T3: RD of NPK	Rice – Rapeseed	5	Yield of Paddy: T1: 4.3 t/ha T2: 4.8 t/ha T3: 5.04 t/ha Yield of Toria: T1: 8.5 q/ha T2: 9.6 q/ha T3: 10.2 q/ha	Satisfied	Can be promoted for large scale adoption	Paddy: T1: 1.24:1 T2: 1.44:1 T3: 1.46 :1 Toria: T1: 1.72 :1 T2: 1.96 :1 T3: 2.11:1

			NPK						
14	Varietal evaluation of oyster mushroom var. German ostreatus blue pin	Lack of high temperature resistant mushroom variety	Variety : German ostreatus blue pin which can tolerate temperature upto 40^0 C	Mushroom	4	Fresh mushrooms @ Rs160/ kg Income from one bed is Rs 360/.	Farmers accept the variety in terms of yield ,quality and economically beneficial	Can be promoted for large scale adoption	Technology: 3.52:1
15	Integrated pest management in Okra	Lack of knowledge about proper IPM module for okra	T1 : IPM module I. Yellow sticky trap @ 10/ha II. Soil treatment with carbofuran 3 G @ 25 kg/ha III. Paddy straw mulching IV. Destruction of infested fruits III. Need based chemical T2: Farmers practice	Okra	3	Yield: Technology: 105 q /ha Farmers' practice :99 q/ha	Farmers were satisfied with technology	Found satisfactory	Technology: 4.8:1 Farmers' practice :4.2:1

16	Introduction Of Quail Breed of Poultry	Lack of knowledge about Quail farming	Poultry breed : Quail	Poultry	5	On going 1st batch - Birds have attained the age of 2.5 months with an av. body wt. of 200 g. They have started laying eggs. 2nd batch - Birds have attained the age of 1.5 months with an av. body wt. of 100 g. 3rd batch – Birds have attained the age of 1.0 months with an av. body wt. of 80 g.			
17	Assessment of Jatropha based ointment	Non availability of Low cost herbal ointment	Jatropha based ointment	Livestock	3	1. Physical evaluation - i) Colour &Texture - Light lemony with a smooth and oily texture. ii) Consistency - smooth with a pleasant odour. iii) Non irritancy - No licking of the area of wound and no swelling or development of redness on application. iv) Rate of absorption on topical application - 100% within one hour of application. v) Macroscopic evaluation of wound healing - no exudation of wound after application. Appearance of colour of wound was normal with mild cicatrisation.	Farmers were satisfied with the ointment and wanted to procure, if available	To make the ointment available to farmers for use in livestock	NA
18	Assessment of Jatropha based soap	Non availability of Low cost herbal soap	Jatropha based soap	Livestock	3	1. Physical evaluation - i) Appearance /packing / colour - good with medium texture/ consistency. ii) Foaming quality - average. iii) Animal reactiveness (post application) - non reactive iv) Ectoparasite load - reduced to around 80% on third application after using the soap twice weekly.	Farmers were satisfied with the Soap and wanted to procure, if available	To make the Soap available to farmers for use in livestock	NA

19	Evaluation and utilization of paddy stripper	Health hazard of farm women in seed selection	Paddy stripper reduces the occupational health hazard of farm women in seed selection. Circumference=8.5cm, Length of fingers=16.5 Total length of paddy stripper= 30 cm	Paddy	12	Technology : 6 muthi/ 3 mins Control: 4 muthi/ 3 mins No injury of fingers, Very comfortable to use(10/10)	1. Farm women were very much satisfied with the tool 2. Work efficiency increased	1. It is very good work simplified tool . 2. Saves both energy and time.	NA
20	Effectiveness and utilization of bhindi (Okra) fiber	Non utilization of Bio – degradable waste	1. The mature bhindi stems contain crude fibre, the fibres are about 2.4 m long which is used in textile field as fibre and also substitute of jute. 2. Extraction of fibre from bhindi plants by water retting process. Duration of retting for extraction of fibre -15 days. 3. Degumming and bleaching of fibre. 4. Product development.	Okra	3	Technology : Ease of fiber extraction : Simple fiber extraction process Length of fiber: Maximum length - 2.1 m, Avg- 1.4 m Product development: Products of good quality (like table mat, flower vase and purse) were developed from extracted fiber. Farmers Practice- Nil	1. Farm women are very much satisfied with the new technology 2. Simple extraction process 3. satisfied with the good quality products	Excellent technology to receive best out of waste	NA

Discipline: Agricultural Economics

Thematic area	Objective	Technology Assessed	No. of activity	Results of Assessment (Data on the parameter should be provided)	Feedback from the farmer	Feedback to the Researcher	B.C . Ratio (if applicable)
Formation of Groups	Formation of Farmers club/ Farmers Producer Organization (FPO)	Farmers club/ Farmers Producer Organisation (FPO)	1	• 1 no. of training on "Formation and management of Farmer's club for socio-economic development of farmers" was conducted at Borchapori • Formation of 1 no. of Farmer's club is under process at Borchapori	Farmers are interested in formation of Farmers' club	NA	NA
	Formation of Farmers group	Custom Hiring Center	3	• 3 nos. of Custom Hiring Centers have been formed under the Numaligarh Refinery Limited,Golaghat	Farmers are satisfied with the functions/ activities of CHC	NA	NA
Bench mark survey/ PRA	PRA/ Bench mark survey (for flagship programme)	PRA	1	• PRA was conducted at Borchapori village for adoption of village under Doubling Farmers Income programme • No. of participating farmers: 40 • Conducted Village mapping, transact walk, interaction for identification and documentation of the problems of villagers on Social as well as agriculture and allied sectors. • Planning of activities was done with the participation of villagers for solving the problems of the village as well as doubling the income of villagers	Farmers are satisfied with the problem identified and documented for solving the problem. satisfied with the plans discussed for doubling farmers income.	NA	NA
		Bench mark survey	1	• Bench mark survey was conducted at Borchapori village for adoption of village under Doubling Farmers Income programme. • No. of Household/ Farm family : 125 • Total population: 620 ;Male=316,Female=304 • Caste wise populations: ST=130,SC=18 ,Others=472	NA	NA	NA

				• Area under the village (a)Geographical area=347.09 ha (b)Cultivated area=211.32 ha (c) Beel area=90.12 ha (d) Others Inclding bari system=45.65 • Av. annual income per husehold:Rs.36037.00 • Major Farming system: Agriculture +Horticulture +Animal Husbandry			

3.2 Achievements of Frontline Demonstrations during 2016-17

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

List of technologies demonstrated during previous year and popularized during 2016-17 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	125	3125	1041
2	Toria	Var. TS-36, TS-38,TS-67	50	560	940
3	Sesamum	Bohuwabheti local	29	160	136
4	Lentil	Moitree	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)		
												N	P	K
					Proposed	Actual	SC/ ST	Others	Total					
1.	Winter Rice	Integrated weed management	IWM in Winter Rice in Rice – Rabi Pulses system under Medium Land Situation: **Technology** :Application of pre-emergence herbicide Pretilachlor @ 0.75 kg a.i./ha followed by mechanical weeding at 40 DAT Farmers Practice: Conventional	Kharif, 17 – Rabi, 17-18	1	1	2	3	5	NA	Rainfed	315	35.91	205.9

	Kharif Rice	Nutrient management	Effect of Zinc Application on Yield of Kharif Rice Technology: T1: FP T2 : RD of NPK T3: Application of 25 kg of ZnSO4 Heptahydrate (ZnSO4.7H2O)/ha with RDF (40:20:20: kg/ha NPK)	Kharif, 17 – Rabi, 17-18	1	1	5	0	5	NA	Rainfed	398.6	26.7	240.6
	Kharif Rice	Biological control (Insect/pest/ weeds etc)	Biocontrol of rice stemborer and leaf folder in Sali rice(var. Ranjit). 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, 17 – Rabi, 17-18	2	2	3	3	6	NA	Rainfed	374.89	28.18	244.62

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	Integrated weed management	1	58.45	51.33	13.87	62.20	54.70			32500	87675	55175	2.70	31150	76995	45845	2.47
2	Kharif Rice	Nutrient management	1	51.3	45.93	11.7	51.66	51.00			33600	85647	52047	2.55	30640	74857	44217	2.44
3	Kharif Rice	Biological control (Insect/pest/ weeds etc)	2	47.8	40.0	16.32	49.1	46.45	0.02 % stem borer	0.03 % stem borer	24800	74090	49290	1.99	21700	60000	38300	1.76

Sl.No.	Activity	No. of activities organised	Date	Number of participants			Remarks
				Gen	SC/ST	Total	
1	Field days	FLD on IWM in Winter Rice in Rice – Rabi Pulses system under Medium Land Situation	25.11.17	0	26	26	
		FLD on Effect of Zinc Application on Yield of Kharif Rice	09.12.17	25	1	26	
		FLD on Bio control of Stem Borer and Leaf Folder in Sali rice var. Ranjit Sub-1	16.11.17	20	10	30	
2	Farmers Training						
3	Media coverage						
4	Training for extension functionaries						
5	Any other (Pl. specify)						
	Total	**2**		45	11	56	

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)		
												N	P	K
					Proposed	Actual	SC/ST	Others	Total					
1	**Linseed**	Varietal evaluation	Popularization of Linseed: **Technology**: HYV "Shekhar" Farmers Practice: Local Variety	Rabi 2017 -18	-	2	10	-	10	NA	Rainfed	406.92	37.16	248.67

2	**Toria**	Integrated Crop Management (ICM) (under doubling farmers income)	Scientific Cultivation of Toria: Technology: HYV "TS 67" Farmers Practice: Local Variety	Rabi 2017 -18	-	33	21	12	33	N.A.		396.82	32.68	240.42
3	**Toria**	Micronutrient application	Popularization of the technique of micronutrient application in toria for soil health management (RDF+ 1.5 kg Boron)/ ha in toria	Rabi 2017 -18	1.5	1.5	-	10	10	NA	Rainfed	Initial NPK		
												262	33.12	118
												Final NPK		
												263	31.21	114.3

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.	**Linseed**	Varietal evaluation	2	**7.20**	**6.40**	**12.5**	7.88	6.52	-	-	10500	25200	14700	2.40	9950	22400	12450	2.25
2	**Toria**	Integrated Crop Management (ICM)	33	10.10	5.95	69.75	11.35	8.85	-	-	10500	30300	19800	2.89	8300	17850	9550	2.15

3	**Toria**	Micronutrient application	1.5	12.4	10.6				Plant height:0.7 m Av. No of branches/pl- 16.6 No. of pod/plant-145.2 No. of seeds/pod- 28.5 1000 seed weight-2.92 g B : C ratio-1.44 Initial N-P-K Kg/ha-262-33.12-118 Final N-P- K Kg/ha-263-31.21-114.3	Plant height:0.59 m Av. No of branches/pl- 13.2 No. of pod/plant-120.7 No. of seeds/pod- 24.2 1000 seed weight-2.46 g B : C ratio-1.04 Initial N-P-K Kg/ha-262-33.12-118 Final N-P-K Kg/ha-263-31.21-114.3	15000	36600	21600	1.44	13500	27540	14040	1.04

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						

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	Pea	Integrated crop management	Demonstration On Scientific cultivation of Pea(under Dpobling farmers income programme)	Rabi 2017-18	-	15.73	0	81	81	NA	Rainfed	397.53	32.00	242.5
	Lentil	Nutrient management	Popularization of technique of nutrient management in lentil for soil management after winter rice Technology: Application of 10:20:15 $N:P_2O_5 : K_2O$ kg/ha along with vermicompost 1 t/ha or FYM 2 t/ha as basal and seed inoculation with rhizobium and PSB each @ 50 g/kg of seed	Rabi 2017-18	1.5	1.5	5	5	10	NA	Rainfed	Initial NPK		
												228	23.25	137
												Final NPK		
												211.2	17.3	125

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	Pea	Integrated crop management	**15.73**	**108.5**	**93.5**	**16.04**	**107.5**	**109.5**	**-**	**-**	20236	75950	55714	2.75	20887	65450	44563	2.13
2	Lentil	Nutrient Management	**1.5**	**9.53**	**8.21**	**16.08**	**11.2**	**8.01**	**-**	**-**	**25500**	**81090**	**55590**	**2.18**	**28360.**	**98125**	**69765**	**2.46**

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						

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)		
												N	P	K
					Proposed	Actual	SC/ST	Others	Total					
1	Okra		Popularization of mulching in okra followed by Rabi vegetables: Cultivation of Okra (var. Arka Anamika) using 50 micron black polythene to control weed and to conserve moisture	Kharif 2017	0.14	0.14	2	1	3	NA	Rainfed	317.63	32.48	217.3

2	Marigold		Popularization of Year Round Production of Marigold Technology: Variety - Seracole	Rabi 2018	0.14	0.14	2	0	2	NA	Rainfed	371.6	29.12	256.8
3	Kingchilli		Scientific Cultivation of Kingchilli Technology : Recommended Cultivation Practices (Planting time: October, Spacing: 100cmx 100cm, Fertz: 120:60:60 kg NPK/ha)	Rabi 2018	0.07	0.07	0	2	2	NA	Rainfed	378.6	27.8	265.1
4	Tuberose		Popularization of Tuberose Technology: Variety - Subhashini (using 50 micron black polythene to control weed)	Rabi 2018	0.14	0.14	0	2	2	NA	Rainfed	375.7	29.8	243.1

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
	Okra		0.14	165.86	43.38				-	-	109000	497580	388580	3.56	49000	130158	81158	1.65
	Marigold		0.14	On going														
	Kingchilli		0.07	48.37	39.23	23.29	52.48	44.26	-	-	140000	768000	628000	4.48	140000	468000	328000	2.34
	Tuberose		0.14	28-32spike/sq.m	-				-	-	143093	800000	656907	4.59	-	-	-	-

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 2017-18	-	10.67	0	161	161	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	10.67	152.8	139.50	9.53	158.9	146.7			65000	152800	87800	2.35	61800	13950	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	4	4	100	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 . iv) Kamrupa do not go for brooding but 03 nos of Kamrupa went for brooding and hatched their eggs successfully. Also Kamrupa poultry eat their own eggs though calcium and other supplements are given regularly												
2	Poultry	Breed introduction	Popularization of Vanaraja Breed of Poultry under agroclimatic condition of Golaghat	4	4	100	Ongoing. i) Birds have started laying eggs at the age of 6.2 months @ 20 – 22 eggs /month ii) Average egg weight of 34- 40 gm. iii) Birds weigh an average of 3.0 Kg in 06 months														

			District				
	Pig	Breed introduction	Popularisation of Rani Breed of Pig under agroclimatic condition of Golaghat District	2.	2	6	On going. i) Females are in gestation of 2 - 2.5months. ii) Growth performance is good iii) Health status is good.
	Cattle	Feeding management	Popularisation of the technology of AAUVETMIN under agroclimatic condition of Golaghat District	3	3	12	Ongoing. i) After incorporation of AAU-VET-MIN in feed @ 50gm/animal /day , milk production has been found to increase upto 650 ml/day after continous feeding for 18-25 days. ii) Animal's body coat showed lustre and there was no ectoparasiticide infestation. iii) Animals did not suffer from FMD . iv) No foot lesions or oral lesions were observed.

**** GC- Gross Cost, GR- Gross Return, NR- Net Return, BCR- Benefit-Cost Ratio**
Produce Sale Price must be as per MSP or Registered Marketing Society
Pl. apply the formula: Net Return= Gross Return-Gross Cost, BCR= GR/GC

Note: Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

(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	
2	Mushroom	Other beneficial organisms	Oyster mushroom production technology	10	10	**2.5 kg**	**2 kg**	**25%**	Pest incidence : Nil	Pest incidence : 0.02 %	**Rs. 60.00/ bed**	**Rs. 400.00/ bed**	**Rs. 340.00/ bed**	**5.67:1**	**Rs. 50.00/ bed**	**Rs. 320.00/ bed**	**Rs. 270.00/ bed**	**5.41:1**	

3	Vermicompost	Soil health	Low cost vermicompost production	10	10	**18.6 q/unit**	**-**	**-**	**-**	**-**	**Rs. 1000.00/ unit**	**Rs. 18600.00/ unit**	**Rs. 17600.00/ unit**	**18.6:1**	**-**	**-**	**-**	**-**	
	Home Science	Nutritional diet for children/ Pregnant women	Popularization of Nutrified traditional rice based pitha of Assam	3	3	1. Organolleptic characteristics By 5 point hedonic scale. Colour =4, Taste=4, flavour=4, texture=4, Appearance=4 and doneness=4 2. Acceptability: Acceptable to the children													
	Home Science	Techniques of child care/ old age	Popularization of Traditional Bamboo walker	4	4	Demo:The infants are able to walk on an average age of 12.5 months to 13 months. Control: 14 months to 14.5 months.													

.

(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: Nil

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																	

H-Highest recorded yield, L- Lowest recorded yield

***** GC- Gross Cost, GR- Gross Return, NR- Net Return, BCR- Benefit-Cost Ratio***

Note: 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 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																		
				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																						30
Resource Conservation Technologies																						
Cropping Systems	0	1	1	0	2	0	3	0	5	0	24	0	1	0	25	0	26	0	4	0	30	30
Crop Diversification																						

Integrated Farming																						
Water management																						
Seed production																						
Nursery management																						
Integrated Crop Management	0	1	1	0	16	0	0	0	16	0	5	0	0	0	5		21	0	0	0	21	21
Fodder production																						
Production of organic inputs																						
II. Horticulture																						
a) Vegetable Crops																						
Production of low volume and high value crops																						
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																						
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																					

Management																						
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																						
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																						
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																						
Income generation activities for empowerment of rural Women																						
Location specific drudgery																						

reduction technologies																						
Rural Crafts																						
Women and child care																						
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																						
Small scale processing and value addition																						
Post Harvest Technology																						
VII Plant Protection																						
Integrated Pest Management	0	1	1	0	14	0	16	0	20	0	5	0	0	0	5	0	19	0	16	0	35	35
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 Managemen t of SHGs																						

Mobilization of social capital																						
Entrepreneurial development of farmers/youths																						
WTO and IPR issues																						
XI Agro-forestry																						
Production technologies																						
Nursery management																						
Integrated Farming Systems																						
TOTAL	0	4	4	0	60	0	19	0	69	0	46	0	1	0	47	0	106	0	20	0	126	126

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
				General						SC/ST						Total						
	Off	Sp Off*	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																						
Cropping Systems	0	1	1	0	0	0	0	0	0	0	31	0	9	0	40	0	31	0	9	0	40	40
Crop Diversification																						
Integrated Farming																						
Water management																						
Seed production																						
Nursery management																						
Integrated Crop Management	0	12	12	0	169	0	25	0	194	0	117	0	28	0	145	0	173	0	318	0	491	491
Fodder production																						
Production of organic inputs																						
II. Horticulture																						
a) Vegetable Crops																						
Production of low volume and high value crops	**1**	**0**	**1**	**10**	**0**	**15**	**0**	**25**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**10**	**0**	**15**	**0**	**25**	**0**	25

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	0	0	1	0	1	0	12	0	12	0	24	0	24	0	1	0	25	0	25
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	1	0	1	17	0	8	0	25	0	0	0	0	0	0	0	17	0	8	0	25	0	25
Management of potted plants																						
Export potential of ornamental plants																						
Propagation techniques of Ornamental Plants																						
d) Plantation crops																						
Production and Management technology	1	0	1	14	0	11	0	25	0	0	0	0	0	0	0	14	0	11	0	25	0	25
Processing and value addition																						
e) Tuber crops																						
Production and Management technology																						
Processing and value addition																						
f) Spices																						
Production and Managemen																						

t 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	25	0	0	0	0	0	0	0	1	0	1	0	25	0	1	0	26	0	26
Soil and Water Conservation																						
Integrated Nutrient Management	1	0	1	20	0	9	0	29	0	1	0	1	0	2	0	21	0	9	0	30	0	30
Production and use of organic inputs	1	0	1	25	0	0	0	25	0	0	0	0	0	0	0	0	0	0	0	25	0	25
Management of Problematic soils																						
Micro nutrient deficiency in crops	1	0	1	19	0	7	0	26	0	1	0	0	0	1	0	27	0	0	0	27	0	27

Nutrient Use Efficiency																						
Soil and Water Testing																						
Crop production and nutrient management	1	0	1	15	0	7	0	22	0	10	0	0	0	10	0	25	0	7	0	32	0	32
IV Livestock Production and Management																						
Dairy Management	2	0	2	40	0	2	0	42	0	6	0	20	0	26	0	46	0	22	0	68	0	68
Poultry Management																						
Goatery Management																						
Piggery Management																						
Rabbit Management																						
Disease Management																						
Feed management																						
Production of quality animal products																						
V Home Science/Women empowerment																						
Household food security by kitchen gardening																						

0	4	4	0	22	0	34

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																						
Income generation activities for empowerment of rural Women	3	0	3	1	0	74	0	75	0	0	0	0	0	0	0	1	0	74	0	75	0	75
Location specific drudgery reduction technologies																						
Rural Crafts																						
Women and child care																						

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																						
Small scale processing and value addition																						
Post Harvest Technology																						
VII Plant Protection																						
Integrated Pest Management	1	1	2	14	14	7	6	21	20	1	5	3	0	4	5	15	19	10	6	25	25	50
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	1	0	1	13	0	7	0	20	0	4	0	1	0	5	0	17	0	8	0	25	0	25
Formation and Management of SHGs																						
Mobilization of social capital																						
Entrepreneurial development of farmers/youths	2	1	3	16	0	38	0	54	0	0	15	0	11	0	26	16	26	38	11	54	37	91
WTO and IPR issues																						
XI Agro-forestry																						
Production technologies																						
Nursery management																						
Integrated Farming Systems																						
TOTAL	18	19	37	229	205	186	65	390	270	35	224	38	117	73	341	258	327	204	447	487	774	1261

(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	On (6)	Sp. On	On (a=4+	Sp. On (b=	On (8	Sp. On	On (10)	Sp. On	On (c=8+1	Sp. On (d=	On (4+8)	Sp. On (5+	On (6+10)	Sp. On (7+1	On (x	Sp. On	

					(5)		(7)	6)	5+7)	)	(9)		(11)	0)	9+11)		9)		1)	=a+c)	(y=b+d)	
Mushroom Production																						
Bee-keeping																						
Integrated farming																						
Seed production																						
Production of organic inputs	1	0	1	15	0	0	0	15	0	13	0	0	0	13	0	28	0	0	0	28	0	28
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																						
Production of quality animal products																						
Dairying																						
Sheep and goat rearing																						
Quail farming																						
Piggery																						
Rabbit farming																						
Poultry production	1	2	3	8	0	9	51	17	51	3		5	1	8	1	11	0	14	52	25	52	77
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	1	0	1	0	0	25	0	25	0	0	0	0	0	0	0	0	0	25	0	25	0	25
Tailoring and Stitching																						

Rural Crafts																						
TOTAL	3	2	5	23	0	34	51	57	51	16	0	5	1	21	1	39	0	39	52	78	52	130

3.3.4. Achievements on Training of Rural Youth 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*	
Mushroom Production																						
Bee-keeping																						
Integrated farming	1	0	1	20	0	5	0	25	0	1	0	1	0	2	0	21	0	6	0	27	0	27
Seed production	1	0	1	29	0	0	0	29	0	0	0	0	0	0	0	29	0	0	0	29	0	29
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																						
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	1	0	1	0	0	27	0	27	0	0	0	0	0	0	0	0	0	27	0	27	0	27
Climate change																						
TOTAL	3	0	3	49	0	32	0	81	0	1	0	1	0	2	0	50	0	33	0	83	0	83

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																						
Management in farm animals																						
Livestock feed and fodder production																						
Household food security																						
Women and Child care	1	0	1	0	0	26	0	26	0	0	0	0	0	0	0	0	0	26	0	26	0	26
Low cost and nutrient efficient diet designing																						
Production and use of organic																						

inputs																						
Gender mainstreaming through SHGs																						
Total	1	0	1	0	0	26	0	26	0	0	0	0	0	0	0	0	0	26	0	26	0	26

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	1	0	1	22	0	0	0	22	0	3	0	0	0	3	0	25	0	0	0	25	0	25
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																						
Low cost and nutrient efficient diet designing																						
Production and use of organic inputs																						
Gender mainstreami ng through SHGs																						
TOTAL	1	0	1	22	0	0	0	22	0	3	0	0	0	3	0	25	0	0	0	25	0	25

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
Agronomy	Integrated Crop Management	Improved Agro-techniques of Rabi Oilseed and Pulses	24.10.17 & 26.10.17	2	KVK Golaghat	Farmer and Farm women	7	0	7	18	0	18	25	0	25
Agronomy	Integrated Crop Management	Scientific cultivation of Rabi Oilseed (Rapeseed and Mustard)	06.11.17	2	KVK Golaghat	Farmer and Farm women	5	0	5	16	0	16	21	0	21
Agronomy	Integrated Crop Management	Scientific cultivation of Oilseed and pulses	19.02.18 & 20.02.18	2	KVK Golaghat	Farmer and Farm women	2	0	2	3	21	24	5	21	26
Agronomy	Cropping Systems	Agro techniques of Rabi crops in rice based cropping system	02.02.18 , 03.02.18	2	KVK Golaghat	Farmer and Farm women	24	1	25	2	3	5	26	4	30
Horticulture	Post harvest technology and value addition	Post harvest management and value addition in few horticultural crops	11/09/17-15/09/17	5	KVK Golaghat	Rural Youth	0	0	0	0	25	25	0	25	25
Home Sc.	Value addition	7 days training programme on "Processing and preservation of locally available fruits and vegetables"	16.08.17-24.08.17	7	KVK Golaghat	Farm women	0	11	11	0	15	15	0	26	26
Home Sc.	Women and child care	2 days training on “Nutritional care of pregnant and lactating women , infant and children”	08.03.18	2	KVK Golaghat	EF	0	0	0	0	26	26	0	26	26

Home Sc.	Income generation activities for empowerment of rural Women	2 days training on “Preparation of decorative cushion cover”	23.03.18-24.03.18	2	KVK Golaghat	Farm women	0	0	0	0	25	25	0	25	25
Animal Sc.	Poultry Management	Scientific Poultry farming	08.08.17	1	KVK Golaghat	Rural Youth	0	1	1	0	27	27	0	28	28
Animal Sc.	Poultry Management	Scientific Duck farming	08.08.17	1	KVK Golaghat	Rural Youth	0	0	0	0	24	24	0	24	24
Animal Sc.	Poultry Management	7 days vocational training on Commercial Poultry farming	23.10.17,25.10.17,31.10.17, 01.11.17,03.11.17, 16.11.17	7	KVK Golaghat	Rural Youth	3	5	8	8	9	17	11	14	25
Plant Protection	Integrated Pest Management	Integrated pest and disease managemet in Sali rice & cucurbitaceous vegetables	19.09-17-23.09.17	1	KVK Golaghat	Farmer	5	0	5	14	6	20	19	6	25
Plant Protection	Bio-control of pests and diseases	Bio control of pest in oilseed and pulses	06/02/18-07/02/18	2	KVK Golaghat	Farmer	0	0	0	11	14	25	11	14	25
Plant Protection	Mushroom Production	Entrepreneurship development through mushroom production technology	19/02/18-23/02/18	5	KVK Golaghat	Farmer	0	3	3	0	22	22	0	25	25
Soil Science	Bio-fertilizer production	Commercial production of Biofertilizers and organic inputs for self employment	13/02/18 - 15/02/18	2	KVK Golaghat	PF	0	0	0	26	2	28	26	2	28
Soil Science	Production and use of organic inputs	7 days vocational training on Vermicompost production technology	09/10/17 - 26/10/17	7	KVK Golaghat	Rural Youth	13	0	13	15	0	15	28	0	28
Agril. Economics	Leadership development	Workshop on “Petroleum Product Conservation in Agricultural Sector”	19.01.18	1	KVK Golaghat	Farmers	12	0	12	28	0	28	40	0	40

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	Production and Post –harvest handling of Quality Seed Potato	31.10.17 & 01.11.17	2	Kalujan	Rural Youth	0	0	0	29	0	29	29	0	29
Agronomy	Integrated Crop Management	Scientific Cultivation practices of Kharif Pulses (Black gram) under NFSM, 2017-18	04.09.17	1	Naromari	Farmer and Farm women	0	0	0	17	8	25	17	8	25
Agronomy	Integrated Crop Management	Scientific Cultivation practices of Kharif Pulses (Green gram) under NFSM, 2017-18	04.09.17	1	Danichapori	Farmer and Farm women	0	0	0	21	4	25	21	4	25
Agronomy	Integrated Crop Management	Scientific cultivation of Rabi Oilseed (Rapeseed and Mustard)	02.11.17	5	Molohanitup	Farmer and Farm women	0	0	0	23	0	23	23	0	23

Agronomy	Integrated Crop Management	Scientific cultivation of Rabi Oilseed (Rapeseed and Mustard)	11.11.17	2	Borchapori	Farmer and Farm women	6	0	6	12	0	12	18	0	18
Agronomy	Integrated Crop Management	Scientific Cultivation Practices of Rabi Vegetables & Field Crops	17.11.17	1	Telgaram, Numaligarh	Rural Youth	1	1	2	20	5	25	21	6	27
Agronomy	Cropping Systems	Scientific cultivation of Toria in rice based cropping system	03.11.18	1	Vive Tisso Village	Farmer	31	9	40	0	0	0	31	9	40
Horticulture	Integrated Crop Management	Scientific cultivation practices of Kharif Pulse (Greengram)	04.09.17	1	Danichapori	Farmer	25	5	30	0	0	0	25	5	30
Horticulture	Cultivation of Fruit	Scientific cultivation technology of Strawberry	10.11.17	1	Mohmaiki Gaon	Farmer	0	1	1	12	12	24	12	13	25
Horticulture	Production and management technology	Vocational training on Commercial cultivation of Major Horticultural crops	14.02.18-19.02.18	5	Borchapori	Farmer	0	0	0	14	11	25	14	11	25
Horticulture	Production of low volume and high value crops	Scientific Production technology of tomato and kingchilli	27.02.18 & 29.02.18	2	Borchapori	Farmer	0	0	0	10	15	25	10	15	25

Horticulture	Nursery Management	Vocational training on Planting material generation of Ornamental flowers	03.03.18-09.03.18	5	Mohmaiki Gaon	Farmer	0	0	0	17	8	25	17	8	25
Home Sc.	Income generation activities for empowerment of rural Women	5 days training programme on "Artificial flower making and designing of pot for flower arrangement"	04.07.17-08.07.17	5	Mohmaiki Gaon, Bokakhat	Rural Youth	0	0	0	0	27	27	0	27	27
Home Sc.	Income generation activities for empowerment of rural Women	5 days training programme on "Artificial flower making and designing of pots for flower arrangement"	12.10.17,13.10.17,14.10.17,19.01.18, 19.02.18	5	Budhbari	Farm women	0	0	0	0	25	25	0	25	25
Home Sc.	Income generation activities for empowerment of rural Women	2 days training programme on" Preparation of Decorative cushion cover"	24.02.18 - 25.02.18	2	Buralikson	Farm women	0	0	0	0	25	25	0	25	25
Home Sc.	Income generation activities for empowerment of rural Women	2 days training on " Pickle making as a income generation activity"	28.03.18 & 29.03.18	2	Thurajan Alami Gaon	Farm women	0	0	0	1	24	25	1	24	25
Animal Sc.	Dairy Management	Management of Dairy cattle and Artificial Insemination	25.07.17-26.07.17	2	Missimiati	Farmer	3	10	13	20	1	21	23	11	34

Animal Sc.	Dairy Management	Management of Dairy Cattle including Artificial Insemination	09.10.17,10.10.17,13.10.17,16.10.17,17.10.17	5	Missimiati	Farmer	3	10	13	20	1	21	23	11	34
Animal Sc.	Integrated Farming System	Three tier IFS Model	17.11.17	1	Dilowjan	Farmer	3	21	24	2	26	28	5	47	52
Animal Sc.	Integrated Farming System	Three tier IFS Model	27.11.17	1	Chokihola	Farmer	23	19	42	0	0	0	23	19	42
Animal Sc.	Integrated Farming System	Three tier IFS Model	30.11.17	1	Buragohainkhat	Farmer	20	22	42	0	0	0	20	22	42
Animal Sc.	Integrated Farming System	Three tier Integrated Poultry – Pig – Fish Farming System	24.01.18	1	Garjaan	Farmer	10	7	17	20	8	28	30	15	45
Plant Protection	Integrated Crop Management	Scientific cultivation practices of Kharif Pulse (Blackgram)	05.09.17	1	Naromari	Farmer	16	16	32	0	0	0	16	16	32
Plant Protection	Integrated Crop Management	Scientific cultivation practices of Kharif oilseed	09.09.17	1	Sowguri	Farmer	0	0	0	29	0	29	29	0	29
Plant Protection	Integrated Crop Management	Scienific cultivation of Toria	12.02.18	1	Chokihola	Farmer	25	5	30	0	0	0	25	5	30
Plant Protection	Integrated Pest Management	Bio control of Pest in Rabi vegetables	15.02.18-16.02.18	2	Kamar gaon	Farmer	1	3	4	14	7	21	15	10	25

Soil Science	Nutrient management	5 days trng on "Nutrient management in Sali rice based cropping sequences vegetables/oilseeds/pulses"	6/3/18 - 10/3/17	5	Bortika	PF	10	0	10	15	7	22	25	7	32
Soil Science	Production and use of organic inputs	Improved method of compost preparation	23/12/17, 06/01/18,10/01/18	3	Alami	Farmer	0	0	0	25	0	25	25	0	25
Soil Science	Integrated Nutrient Management	Use of Bio-fertilizers in agriculture with special reference to Rice	10/02/18 and 13/02/18	2	Kanfola gaon	Farmer	1	1	2	20	9	29	21	10	31
Soil Science	Management of Problematic soils	Amelioration of acid soil for improvement of soil health	19/02/18 and 22/02/18	2	District Agriculture Office, golaghat	EF	3	0	3	22	0	22	25	0	25
Soil Science	Micro nutrient deficiency in crops	Role and Application method of micro nutrients in cole crops	14/02/18 and 26/02/18	2	Chinatoli	Farmer	1	0	1	19	7	26	20	7	27
Soil Science	Soil fertility management	5 days Training on “Soil fertility management in plantation crops with special reference to Coconut and Arecanut	19/02/18 and 24/02/18-28/02/18	5	Mohmaiki Gaon,Bokakhat	Farmer	0	1	1	25	0	25	1	25	26
Agril. Economics	Integrated Crop Management	Scientific cultivation practices of lentil	18.11.17	1	Nepalikhuti	Farmer	34	0	34	0	0	0	34	0	34

Agril. Economics	Integrated Crop Management	Scientific cultivation practices of lentil	13.11.17	1	Borchapori	Farmer	7	1	8	18	2	20	25	3	28
Agril. Economics	Integrated Crop Management	Scientific cultivation practices of Rabi vegetables and field crops	17.11.17	1	Telgaram	Farmer	0	0	0	35	4	39	35	4	39
Agril. Economics	Entrepreneurial development of farmers	3 days training programme on "Enterpreneurship development among farmers in Agriculture sector"	01.01.18-03.01.18	3	Mohmaiki Gaon	Farmer	0	0	0	3	25	28	3	25	28
Agril. Economics	Entrepreneurial development of farmers	3 days training programme on "Enterpreneurship development among farmers in Agriculture sector"	22.01.18-25.01.18	3	Borchapori Gaon	Farmer	0	0	0	13	13	26	13	13	26
Agril. Economics	Group dynamics	3 days training programme on "Formation and Management of Farmers Club /Farmer Producer Organisation (FPO) for socio economic development"	19.02.18-21.02.18	3	Borchapori Gaon	Farmer	4	1	5	13	7	20	17	8	25
Agril. Economics	Integrated Crop Management	Scientific cultivation Practices of Lentil	17.02.18	1	Dhulia Gaon	Farmer	4	1	5	14	7	21	18	8	26

Agril. Economics	Entrepreneurial development of farmers	Enterpreneurship development through Mushroom cultivation	12.01.18-13.01.18	2	Ram Terang village	Farmer	15	11	26	0	0	0	15	11	26

(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	
Horticulture	11/09/17-15/09/17	5	Post harvest technology and value addition	Post harvest management and value addition in few horticultural crops	0	0	0	0	25	25	0	25	25					NA
Artificial flower	04.07.17-08.07.17	5	Community Science	5 days training programme on "Artificial flower making and designing of pot for flower arrangement"	0	0	0	0	27	27	0	27	27	Artificial flower	2	2	Rs. 1000.00 per month	NA
Poultry	23.10.17, 25.10.17, 31.10.17, 01.11.17, 03.11.17, 16.11.17	7	Animal Sc.	7 days vocational training on Commercial Poultry farming	3	5	8	8	9	17	11	14	25					NA

Vermi compost	09/10/17 -26/10/17	7	Soil Science	7 days vocational training on Vermicompost production technology	13	0	13	15	0	15	28	0	28					NA

*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		
Off	Farmer and Farm women	04.09.17	1	Agronomy	Integrated Crop Management	Scientific Cultivation practices of Kharif Pulses (Black gram) under NFSM, 2017-18	0	0	0	17	8	25	17	8	25	NFSM (CFLD)	NA
Off	Farmer and Farm women	04.09.17	1	Agronomy	Integrated Crop Management	Scientific Cultivation practices of Kharif Pulses (Green gram) under NFSM, 2017-18	0	0	0	21	4	25	21	4	25	NFSM (CFLD)	NA
Off	Farmer and Farm women	02.11.17	5	Agronomy	Integrated Crop Management	Scientific cultivation of Rabi Oilseed (Rapeseed and Mustard)	0	0	0	23	0	23	23	0	23	NMOOP (CFLD)	NA
On	Farmer and Farm women	06.11.17	2	Agronomy	Integrated Crop Management	Scientific cultivation of Rabi Oilseed (Rapeseed and Mustard)	5	0	5	16	0	16	21	0	21	NMOOP (CFLD)	NA

Off	Farmer and Farm women	11.11.17	2	Agronomy	Integrated Crop Management	Scientific cultivation of Rabi Oilseed (Rapeseed and Mustard)	6	0	6	12	0	12	18	0	18	NMOOP (CFLD)	NA
On	Farmer and Farm women	02.02.18 , 03.02.18	2	Agronomy	Cropping Systems	Agro techniques of Rabi crops in rice based cropping system	24	1	25	2	3	5	26	4	30	NMOOP (CFLD)	NA
Off	Farmer	03.11.18	1	Agronomy	Cropping Systems	Scientific cultivation of Toria in rice based cropping system	31	9	40	0	0	0	31	9	40	Tribal Sub Plan Programme - DR (Agri)	NA
Off	Farmer	04.09.17	1	Horticulture	Integrated Crop Management	Scientific cultivation practices of Kharif Pulse (Greengram)	25	5	30	0	0	0	25	5	30	CFLD (NFSM)	NA
On	Rural Youth	08.08.17	1	Animal Sc.	Poultry Management	Scientific Poultry farming	0	1		0	27		0	28	28	SRLM	NA
On	Rural Youth	08.08.17	1	Animal Sc.	Poultry Management	Scientific Duck farming	0	0		0	24		0	24	24	SRLM	NA
Off	Farmer	17.11.17		Animal Sc.	Integrated Farming System	Three tier IFS Model	3	21		2	26		5	47	52	TSP	NA
Off	Farmer	27.11.17		Animal Sc.	Integrated Farming System	Three tier IFS Model	23	19		0	0		23	19	42	TSP	NA
Off	Farmer	30.11.17		Animal Sc.	Integrated Farming System	Three tier IFS Model	20	22		0	0		20	22	42	TSP	NA
Off	Farmer	24.01.18		Animal Sc.	Integrated Farming System	Three tier Integrated Poultry – Pig – Fish Farming System	10	7		20	8		30	15	45	RKVY (Fishery)	NA
Off	Farmer	05.09.17	1	Plant Protection	Integrated Crop Management	Scientific cultivation practices of Kharif Pulse (Blackgram)	16	16		0	0		16	16	32	CFLD (NFSM)	NA
Off	Farmer	09.09.17	1	Plant Protection	Integrated Crop Management	Scientific cultivation practices of Kharif oilseed	0	0		29	0		29	0	29	CFLD (NMOOP)	NA

On	Farmer	19.09-17-23.09.17	1	Plant Protection	Integrated Pest Management	Integrated pest and disease managemet in Sali rice & cucurbitaceous vegetables	5	0		14	6		19	6	25	In collaboration with Deptt. Of Nematology , AAU, Jorhat	NA
Off	Farmer	12.02.18	1	Plant Protection	Integrated Crop Management	Scienific cultivation of Toria	25	5		0	0		25	5	30	TSP, DR (Agri), AAU	NA
Off	Farmer	18.11.17	1	Agril. Economics	Integrated Crop Management	Scientific cultivation practices of lentil	34	0		0	0		34	0	34	CFLD (NFSM)	NA
Off	Farmer	13.11.17	1	Agril. Economics	Integrated Crop Management	Scientific cultivation practices of lentil	7	1		18	2		25	3	28	CFLD (NFSM)	NA
Off	Farmer	17.11.17	1	Agril. Economics	Integrated Crop Management	Scientific cultivation practices of Rabi vegetables and field crops	0	0		35	4		35	4	39	Numaligarh Refinery Ltd	NA
Off	Farmer	17.02.18	1	Agril. Economics	Integrated Crop Management	Scientific cultivation Practices of Lentil	4	1		14	7		18	8	26	CFLD (NFSM)	NA
Off	Farmer	12.01.18-13.01.18	2	Agril. Economics	Entrepreneurial development of farmers	Enterpreneurship development through Mushroom cultivation	15	11		0	0		15	11	26	Tribal Sub Plan Programme - DR (Agri)	NA
On	Farmers	19.01.18	1	Agril. Economics	Leadership development	Workshop on “Petroleum Product Conservation in Agricultural Sector”	12	0		28	0		40	0	40	PCRA, Guwahati	7,500.00

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 2017-18

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**		**384**	**135**	**145**	**280**	**69**	**35**	**104**	**0**	**0**	**0**	**204**	**180**	**384**
2.	Diagnostic visit	**Agriculture and Allied sectors**		**54**	**77**	**20**	**97**	**51**	**23**	**74**	**0**	**0**	**0**	**128**	**43**	**171**
3.	Field day	Scientific cultivation Practices of Greengram	08.12.17	**1**	24	6	30	0	0	0	**0**	**0**	0	**24**	**6**	**30**
		Scientific cultivation Practices of Blackgram	07.12.17	**1**	0	0	0	12	18	30	**0**	**0**	0	**12**	**18**	**30**
		FLD on Bio control of Stem Borer and Leaf Folder in Sali rice var. Ranjit Sub-1	16.11.17	**1**	15	5	20	5	7	12	**0**	**0**	0	**20**	**12**	**32**

		CFLD on Sesamum under NMOOP	24.11.17	**1**	10	0	10	20	10	30	**0**	**0**	0	**30**	**10**	**40**
		FLD on Micronutrient Application ZnSO4 to sustain productivity in Sali rice in high intensity cropping areas following by late sown variety of toria	09.12.17	**1**	19	6	25	0	1	1	**0**	**0**	0	**19**	**7**	**26**
		IWM Practices in winter Rice in Rice -Rabi Pulse system under Medium Land situation	25.11.17	**1**	**1**	**0**	1	**13**	**12**	25	**0**	**0**	0	**14**	**12**	**26**
		CFLD on Toria	12.02.18	**1**	**21**	**24**	45	**4**	**7**	11	**0**	**0**	0	**25**	**31**	**56**
		CFLD on Toria	21.02.18	**1**	**16**	**14**	30	**0**	**0**	0	**0**	**0**	0	**16**	**14**	**30**
		CFLD on Toria	14.02.18	**1**	**12**	**4**	16	**11**	**3**	14			0	**23**	**7**	**30**
		CFLD on Rabi pulse Crop: Lentil	23.03.18	**1**	**19**	**11**	30	**0**	**0**	0	**0**	**0**	0	**19**	**11**	**30**
		Total		**10**	**137**	**70**	**207**	**65**	**58**	**123**	**0**	**0**	**0**	**202**	**128**	**330**
4.	Group Discussion	**0**														
5.	Kishan Gosthi	**0**														

6.	Kishan Mela	**0**														
7.	Film show			9	855	405	1260	681	210	890	48	43	91	1542	671	2203
8.	SHG formation	0														
9.	Exhibition	Exhibition at KVK Golaghat	08.06.17	1	15	10	25	5	0	5	5	**0**	5	**25**	**10**	**35**
		Exhibition at Farmers Day in RARS, Titabor	07.11.17	1												
		Exhibition at Farmers Day in Sugarcane Research Station (SRS),Buralikson	23.11.17	1												
		5th Assam International Agri -Horticultural show	25-28 Dec 17	1												
		" Kisan Mela" organized by ATMA(Agricultural Technology Management Agency),	28-30 January, 2018	1												

		Exhibition organized on the Occasion of 87th Annual Convention of Sri Manta Sankardeva Sangha and Bagged First prize in Exhibition	7 -10 February 2018	1												
Total				6												
10	Scientists visit to farmers fields	Agriculture and Allied sectors		159												
11	Plant/ **Animal Health camp**	Animal Health Camp and Awareness Programme on Flood	29.07.17	1										96	21	117
12	Farm science club	0														
13	Ex-trainee Sammelan	0														
14	Farmers seminar/ **workshop**	Workshop on "Petroleum Product Conservation in Agricultural Sector"	19.01.18	1	28	0	**28**	12	0	12	3	0	3	43	0	43

15	Method demonstration	Application of Bio fertilizer in Kharif Pulse crop (Black Gram and Green Gram)	11.09.17	1	20	0	20	0	0	0	0	0	0	20	0	20
		Production Technology of Oyster mushroom	20.04.17	1	15	10	25	0	5	5	0	0	0	15	15	30
		Production Technology of Oyster mushroom	20.05.17	1	11	0	11	10	9	19	0	0	0	21	9	30
		Production Technology of Oyster mushroom	07.06.17	1	7	4	11	2	12	14	0	0	0	9	16	25
		Production Technology of Oyster mushroom	13.06.17	1	22	0	22	4	0	4	0	0	0	26	0	26
		Production Technology of Oyster mushroom	21.06.17	1	12	8	20	3	2	5	0	0	0	15	10	25
		Vermicompost production	31.07.17	1	11	4	15	53	0	53	0	0	0	64	4	68
		Vermicompost production	31.07.17	1	10	0	10	10	0	10	0	0	0	20	0	20

		Vermicompost production	31.07.17	1	25	0	25	0	0	0	0	0	0	25	0	25
		Vermicompost production	31.07.17	1	16	0	16	14	0	14	0	0	0	30	0	30
		Vermicompost production	26.09.17	1	14	9	23	0	2	2	0	0	0	14	11	25
		Fertilizer application method for coconut and arecanut	04.01.18	1	22	0	22	10	12	22	0	0	0	32	12	44
		Method of Vermi wash Production	20.05.17	1	15	20	35	0	5	5	0	0	0	15	25	40
		Bio-fertilizer application in Lentil	13.11.17	1	19	9	28	0	0	0	0	0	0	19	9	28
		Bio-fertilizer application in Lentil	18.11.17	1	9	0	9	10	15	25	0	0	0	19	15	34
Total				15	228	64	292	116	62	178	0	0	0	344	126	470
16	Exposure visits	Exposure visit to RARS, Titabor	07.11.17	1	**44**	**0**	44	**17**	**0**	**17**	**0**	**0**	0	61	0	61
		Exposure visit to Department of Agril. Engineering	21.02.18	1	24	6	30	1	0	1	0	**0**	0	25	6	31
				2	68	6	74	18	0	18	0	0	0	86	6	92

18	Electronic media (CD/DVD)	1.Awareness Programme on Pradhan Mantri Fasal Beema Yojana 2.Mera Gaon Mera Gaurav 3.Effectiveness and Utilization of Bhindi Fibre 4.Vermi compost production 5. Documentary on rearing of Poultry breed-KAMRUPA 6. Planting Material generation of Marigold		6													
19	Extension literature																
20	Newspaper coverage			15													
21	Popular articles																
22	Radio talk	*Salidhanot saror upojukto bybohar* (Fertilizer management in Sali rice)	30.05.17	1													

		Interview of SMS(Animal Sc.) on the topic " Sit kalot Pashudhanar Parisarjya"	12.12.17	1													
		Interview of SMS(Animal Sc.) on the topic " Pashudhanar Para Manab Dehot hobo pora bibhinna Rog aru Protikar"	21.03.18	1													
		"Soyabeanor Boigyanik kheti"	27.03.18	1													
Total				4													
23	TV talk			0													
24	Training manual																
25	Soil health camp	0															
26	Awareness camp	Awareness Programme on Flood	29.07.17	1	**59**	**0**	59	**42**	**0**	41	**15**	**4**	19	116	4	120	
		World Honey Bee day	19.08.17	1	**15**	**0**	15	**20**	**0**	20	**5**	**0**	5	40	0	40	
		New India Manthan: Sankalp se Shiddhi	25.08.17	1	**316**	**72**	388	**220**	**56**	276	**9**	**5**	14	513	154	667	

		World Environment Day	05.06.17	1	**79**	**40**	119	**21**	**20**	41	**4**	**6**	10	104	66	170
		Awareness on Swarming Caterpiller	09.09.17	1	**25**	**0**	25	**0**	**0**	**0**	**0**	**0**	**0**	25	0	25
		"Swachata Hi Sewa" (Cleanliness is service)	02.10.17	1	**43**	**0**	43	**24**	**0**	24	**0**	**0**	0	67	0	67
		Women Farmers Day	15.10.17	1	**0**	**25**	25	**0**	**0**	0	**0**	**10**	10	0	35	35
		World Soil Day	05.12.17	1	**253**	**223**	476	**331**	**107**	438	**10**	**8**	18	584	330	914
		National Science Day	28.02.18	1	**65**	**45**	110	**23**	**27**	50	**5**	**10**	15	93	82	165
Total				9	855	405	1260	681	210	890	48	43	91	1542	671	2203
27	Lecture delivered as resource person			20												540
28	PRA			1	**23**	**17**	40	**0**	**0**	0	**0**	**0**	0	23	17	40
29	Farmer-Scientist interaction	Biocontrol of pest in kharif vegetables and in Sali rice	08.06.17	1	15	10	25	5	0	5	5	**0**	5	25	10	35
		Biocontrol of pest in kharif vegetables and in Sali rice.	20.05.17	1	8	0	8	12	10	22	0	**0**	0	20	10	30
Total				**2**	**23**	**10**	**33**	**17**	**10**	**27**	**5**	**0**	**5**	**45**	**20**	**65**
30	Soil test campaign	0														

31	Mahila Mandal Convener meet	0														
32	Technology week	0														
33	Celebration of Important days	World Honey Bee day	19.08.17	1	**15**	**0**	15	**20**	**0**	20	**5**	**0**	5	40	0	40
		New India Manthan: Sankalp se Shiddhi	25.08.17	1	**316**	**72**	388	**220**	**56**	276	**9**	**5**	14	513	154	667
		World Environment Day	05.06.17	1	**79**	**40**	119	**21**	**20**	41	**4**	**6**	10	104	66	170
		“Swachata Hi Sewa“ (Cleanliness is service)	02.10.17	1	**43**	**0**	43	**24**	**0**	24	**0**	**0**	0	67	0	67
		Women Farmers Day	15.10.17	1	**0**	**25**	25	**0**	**0**	0	**0**	**10**	10	0	35	35
		World Soil Day	05.12.17	1	**253**	**223**	476	**331**	**107**	438	**10**	**8**	18	584	330	914
		National Science Day	28.02.18	1	**65**	**45**	110	**23**	**27**	50	**5**	**10**	15	93	82	165
		World Honey Bee day	19.08.17	1	**15**	**0**	15	**20**	**0**	20	**5**	**0**	5	40	0	40
		Republic Day		1	**14**	**21**	0	**0**	**0**	0	**0**	**0**	0	14	21	35
		Independence Day		1	**11**	**14**	0	**0**	**0**	0	**0**	**0**	0	11	14	25
Total				**10**	**811**	**440**	**1191**	**659**	**210**	**869**	**38**	**39**	**77**	**1466**	**702**	**2158**
Grand Total				**681**												

3.5 Production and supply of Technological products during 2017-18

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	31.52	1,19,776.00	251	220	471
OILSEEDS	Toria	TS-67	14.5	1,37,750.00	84	61	145
PULSES							
VEGETABLES							
FLOWER CROPS							
OTHERS (Specify)							

A1. SUMMARY of Production and supply of Seed Materials during 2017-18

Sl. No.	Major group/class	Quantity (ton.)	Value (Rs.)	Number of recipient/ beneficiaries		
				General	SC/ST	Total
1	CEREALS	3.152	1,19,776.00	251	220	471
2	OILSEEDS	1.45	1,37,750.00	84	61	145
3	PULSES					
4	VEGETABLES					
5	FLOWER CROPS					
6	OTHERS					
TOTAL						

B. Production of Planting Materials (Nos. in lakh)

Major group/class	Crop	Variety	Numbers (In Lakh)	Value (Rs.)	Number of recipient beneficiaries		
					General	SC/ST	Total
Fruits	Lemon	Assam Lemon	300 nos.	6,000.00	24	31	55
Spices	Black pepper	Paniur I	3000 nos.	60,000.00	5	15	20
Ornamental Plants							
VEGETABLES							
Forest Spp.							
Plantation crops							
Medicinal plants							
OTHERS (Pl. Specify)							

B1. SUMMARY of Production and supply of planting Materials (In Lakh) during 2017-18

Sl. No.	Major group/class	Numbers (In Lakh)	Value (Rs.)	Number of recipient beneficiaries		
				General	SC/ST	Total
1	Fruits	300 nos.	6,000.00	24	31	55
2	Spices	3000 nos.	36,000.00			
3	Ornamental Plants	3000 nos.	60,000.00	5	15	20
4	VEGETABLES					
5	Forest Spp.					
6	Medicinal plants					
7	Plantation crops					
8	OTHERS (Specify)					
TOTAL						

C. Production of Bio-Products during 2017-18

Major group/class	Product Name	Species	Quantity		Value (Rs.)	Number of Recipient /beneficiaries		
			No	(qt)		General	SC/ST	Total
BIOAGENTS								
BIOFERTILIZERS								
	Vermicompost	*Eiseniafoetida*		238.56	238560.00	5	10	15
						-	-	-
BIO PESTICIDES								

C1. SUMMARY of production of bio-products during 2017-18

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**	**23856**	**238560**	**5**	**10**	**15**
5							-	-
	TOTAL			**23856**	**238560**	**5**	**10**	**15**

D. Production of livestock during 2017-18:

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 2017-18: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 2017-18

(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			
Popular articles			
Technical bulletins	*Army Worm and it's pest management (Shur Pok aru iyar niyontron byobostha)*	Dr. F.U. A. Ahmed Sri R. C. Neog Smt. A. Bharali Sri H. Gogoi Smt. S. Mahanta Smt. M. Gogoi Smt. S. Hazarika	200
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 the title in English

(C) Details of Electronic Media Produced: 6 nos.

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number produced
1	CD	Awareness Programme on Pradhan Mantri Fasal Beema Yojana	1
2	CD	Mera Gaon Mera Gaurav	1
3	CD	Effectiveness and Utilization of Vindi Fibre	1
4	CD	Vermi compost production	1
5	CD	Documentary on rearing of Poultry breed-KAMRUPA	1
6	CD	Planting Material generation of Marigold	1

1.7. 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) :

Agricultural Machinery Custom Hiring Centres (CHC): Success Story

Numaligarh Refinery Limited (NRL) was established on 22 April,1993 in the Golaghat district of Assam for speedy industrial and economic development of the region , in accordance with the provisions made in the historic Assam Accord '1985.The Corporate Sector Responsibility (CSR) is one of the principal objectives of NRL and is committed towards the improving quality of life in the society in general and that of local community in particular, and has been making untiring effort to right from its very inception through CSR programme. Agriculture is one of the important and prioritized areas under the Corporate Social Responsibility (CSR) programme of the Numaligarh Refinery Limited (NRL) through which the organization has been supporting the villagers/farmers of nearby area for self employment through adoption of new technologies and mechanisation in Agriculture and allied sectors. For achieving the very purpose, NRL was organizing various programmes in agriculture and allied sectors to upgrade their skill.

Indian agriculture is undergoing a gradual shift from dependence on human power and animal power to mechanical power because of increasing cost for upkeep of animal and growing scarcity of human labour. Further, use of mechanical power has a direct bearing on the productivity of crops apart from reducing the drudgery and facilitating timeliness of agricultural operations. Thus, there is a strong need for taking farm mechanization. However, the farm power distribution is quite uneven across the States as well as Golaghat district, wherein mechanical power is largely consumed in big land holdings and is still beyond the reach of small/marginal holdings which constitute around 80% of the total land holdings. Krishi Vigyan Kendra (KVK), Golaghat has been playing vital role in the Golaghat district for the benefit of the farmers since its inception. Considering the problems of farm mechanisation, particularly the small and marginal farmers of Numaligarh Area of Golaghat district, proposal for establishment of three (3) **Custom Hiring Centres** (CHC) was submitted to the Numaligarh Refinery Limited (NRL) under the Corporate Social Responsibility (CSR) programme at Borchapori, Borgoria and Mithaam Chapori, so as to make the farm machinery available for small/marginal farmers. The proposal of each Custom Hiring Centre consisted of Tractor and Power tiller with all accessories, and other farm implements and submitted to NRL authority through the higher authority of Assam Agricultural University, Jorhat.

After a series of discussion with KVK, Golaghat, the NRL authority was highly satisfied with objectives of the proposal of establishing Custom Hiring Centre and granted 3 Custom Hiring Centres viz.; Borchapori –Ponka Custom Hiring Centre, Borgoria – Leteku Chapori – Nepalikhuti CHC and Mithaam Chapori – Jatipotiya – Haluwa Gaon CHC

After approval of the NRL, authority, General Meeting was convened in three locations in the presence of KVK, Personnel and 3 custom hiring centres were established by forming executive committees for the said locations. Bank accounts have been opened for each Custom Hiring Centre; and office bearers have been trained up by the KVK personnel in accounts and Record Keeping as well as in managerial aspects of Custom Hiring Centre. In the first phage, NRL authority in collaboration with KVK, Golaghat distributed one tractor along with rotavator, harrow, cage wheel and trailers on 16.02.2018 to each centre. In the 2nd phase the NRL is going to provide one power tillers with all accessories to each centre recently. Now the 3 centres have enrolled all the farmers of their jurisdiction as members of their centre and are carrying out the operations in farmers field as per the need of members.

Glimpses of Ceremonial Distribution of Farm Machineries to Custom Hiring Centres

Advisory and Consultancy Services provided to CHC by KVK, Personnel

Operation of tractor of CHC at members' field

Success Story on utilization of bio-degradable waste - Bhindi (Okra) fiber :

Golaghat district is an old administrative district in the state of Assam in India.The economy of Golaghat district is agriculture-based. Tea, rice and sugar cane are the main agricultural crops grown in the district, with tea being is the largest agricultural industry. Seasonal vegetables are also extensively cultivated in the district. Among them Okra (bhindi) is one of the popular vegetable which is cultivated in the different location of Golaghat district. **Okra** is a nutritional powerhouse used throughout history for both medicinal and culinary purposes is also known for its high soluble and insoluble fiber content. Okra is rich in numerous vitamins, minerals, and nutrients that are responsible for the health benefits There are various natural fibers which are extensively used in textile industries now a days .Bhindi can be used in three different ways-as food, as herbal medicine and in industry as fiber, fabric and in paper industry. Okra s mainly cultivated during summer season between March to June and July to September.

Photographs 01:The Okra Plant

Scientific Classification:

Scientific Name: *Abelmoschus esculentus*
Kingdom: Plantae
Division : Magnoliphyta
Order: Malvales
Genus: Abelmoschus
Species: A. Esculentus

Okra is mainly cultivated during the summer season between March to June and July to September. After harvesting the plants are sometimes dried and used as fuel and generally go waste. These mature okra stems contain crude fiber and after harvesting with a simple extraction process this fiber can be successfully utilized as a substitute of jute fiber.

The progressive farmers of Thengal village of Khumtai, Golaghat cultivate okra in large scale(Photograph 01) and after harvesting they allowed the stems to go waste. A discussion was made to make them convince to utilize the stems after harvesting for extraction of fiber as they are very busy so we selected their spouse for this activity. The energetic farm women showed their enthusiasm towards the activity. Finally it was decided to conduct an On Farm Trial (OFT) on Okra fiber at the location. For detail of technology related to the fiber extraction process and its utilization guidance of Dr. Nabaneeta Gogoi, Principal Scientist Department of Textile and Apparel Designing, AICRP on Home Science was taken. So, an On Farm Trial was conducted on utilization of bio-degradable waste ie. bhindi (Okra) fiber to open a new source of income for the family and to encourage them for entrepreneur development. Progressive farm women Ms. Joya Gogoi , Ms. Rupa Gogoi, Sumi Borah and Kripali Ghatowar of Thengal gaon, Khumtai, Golaghat was selected to conduct the OFT “Effectiveness and utilization of bhindi (Okra) fiber” during the year 2017-18.

The technology in brief:

1. The mature bhindi stems containing crude fiber was selected.(Photograph 02)

2. Extraction of fiber from bhindi plants by water retting process. .(Photographs 03 and 04)

Duration of retting for extraction of fibre -15 days.

3. Washing and drying of fiber . (Photographs 05 and 06)

4. Development of product from extracted fibre. (Photographs 07, 08,09)

Details of Respondents selected for trial:

SL. No.	Name of	Husbands Name / Fathers Name	Address
1	Ms. Joya Gogoi	Mr. Jiban Gogoi	Thengal gaon, Khumtai, Golaghat Mobile No.9577930929
2	Ms. Rupa Gogoi	Mr. Durlabh Gogoi	Thengal gaon, Khumtai, Golaghat
3	Ms. Sumi Borah	Mr. Pranjal Borah	Thengal gaon, Khumtai, Golaghat
4	Ms. Kripali Ghatowar	Mr.Digambar Ghatowar	Thengal gaon, Khumtai, Golaghat

Photographs 02 Cutting of mature plant after harvesting

Photographs 03 & 4 The Retting Process

Photographs 05 & 06 Drying and washing of fiber

Photographs 07 Extracted Bhndi/Okra fiber

Photographs 08 & 09 Development of product from extracted fiber.

The Farm women were very much satisfied with the new technology and simple fiber extraction process and enthusiastically participated during the whole trial. They are obtained good length of fiber- maximum length -2.1 m, Avg- 1.4m. They were very happy to prepare good quality products like table mat, flower vase and purse from the extracted fiber. They expressed their interest to adopt this activity on large scale from the next cropping season.

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

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: 1

Name of the Village : Borchapori

Block: Morongi

ii. No. of farm families selected: 125

iii. No. of survey/PRA conducted: 1

3.12. Activities of Soil and Water Testing

Status of establishment of Lab : Functional

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 Agrochemicals p 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 (2017-18) :

Details	No. of Samples analysed	No. of Farmers	No. of Villages	Amount (In Rupees) realized
Soil Samples	51	500	9	-
Water Samples				
Plant Samples				
Petiole Samples				
Total	51	500	9	-

2. Details of Soil Health Cards (SHCs) (2017-18)

a. No. of SHCs prepared: 500

b. No. of farmers to whom SHCs were distributed: 500

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: 9

e. Soil health card based nutrient management in different crops ::

Soil health card based nutrient management in different crops of Golaghat district:

The economy of Golaghat district is agriculture based. Rice is the most dominant crop followed by vegetables, pulses, oilseed, tuber crops and sugarcane in the district.

The soils of Golaghat district is mostly of two types viz: new alluvial and old alluvial. The texture of surface soil ranges from fine loam to silty clay loam and coarse silty to fine soils.

Fertility status of Golaghat District:

Most of the soils of Golaghat district is acidic in nature. Organic carbon content found from medium to high. The other major nutrients viz, N,P and K are ranged from medium to high. Sulphur content of the soil is sufficient. Micronutrients viz B and Zn are ranged from deficiency to sufficient. So, according to the nutrient contents of the soil, recommendations for the four major crops grown in the rice belt in a large scale in the district viz, rice, greengram, blackgram and rapeseed are given in the SHC.

Also recommended dose of Zinc (Zn) for rice and Boron (B) for rapeseed are given in the SHC.

Along with these chemical fertilizers the recommended doses of organic manure and Biofertilizers are also given in the SHC

3.13. Details of SMS/ Voice Calls sent on various priority areas

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	26	282	3	282	1	282	-	-	2	282	-	-	32	282
Voice only														
Voice and Text both														
Total	26	282	3	282	1	282	-	-	2	282	-	-	32	282

3.14 Contingency planning for 2017-18

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)

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) :

a. **Rice var. Ranjit**
b. **Toria var. TS-67**

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

Name of organization	Nature of linkage
Numaligarh Refinery Limited, Golaghat	Financial support to Adopted village under Doubling Farmers Income scheme
NFSM and NMOOP	Cluster Frontline Demonstration Programme on Pulse and Oilseed
D.A.Office,Golaghat	Training, Field visit, organizing Krishak Samaroh, participation on Exhibition, Seminar, Diagnostic visit, Technical support on different schemes etc.
DVO, Golaghat	Training, Field visit, act as resource person, Diagnostic visit, OFT, FLD & other prog.
DIC, Golaghat	Vocational Training & other CB prog.
NGO like KASS, NASS,SEENE, Renaissance etc.	Cluster Frontline Demonstration,, Technical & financial advisory, Agri- preneural Project preparation, Training
Dev . Block	Soil survey & mapping
Fisheries Research Centre, Jorhat	3-tier Fish-Pig-Poultry construction works, act as resource person, literature devd
Dairy Dev. Board	Act as resource person, Technical advisory service in fodder cultivation
Soil Conservation, Golaghat	Training, Technical Support

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 2017-18

Name of the scheme	Activity	Date/ Month of initiation	Funding agency	Amount (Rs.)
Cluster Frontline Demonstration (CFLD)	Demonstrations on: 1. Blackgram Var. PU-31 : 10 ha 2. Greengram Var. SGC-16: 10 ha 3. Lentil Var. KLS-218: 50 ha 4. Sesame Var. Bohuabheti local: 10 ha 5. Toria Var. TS-67: 50 ha		NFSM and NMOOP	
Tribal Sub Plan (TSP)	Demonstrations on: **1.** Kingchilli : 0.67 ha **2.** Toria (Var. TS- 67): 20 ha **3.** Fishery based Integrated Farming System model: 3 nos **4.** Development of Scientific Bari system under Agro- Forestry: 18 nos.		Director of Research, AAU,Jorhat	
Preparation of soil health cards and distribution	Total Soil Health Cards prepared and distributed: 500 nos.		ICAR, AAU	
Adopted village for Doubling Farmers income	Demonstration on 1. Pea: 15.73 ha 2. Pumpkin: 12.19 ha 3. Potato: 10.67 ha 4. Toria : 66.67 ha 5. Lentil : 12 ha 6. Dual Purpose poultry Breed : Vanaraja : 200 nos. Establishment of Custom Hiring Centre : 1 no.		ICAR, AAU, Numaligarh Refinery Ltd., Golaghat	

5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district Yes/No

Sl. No.	Programme	Nature of linkage	Remarks

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 2017-18

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	238.56 q		92,000.00	2, 86,272.00	

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	-	-	1.5 ha	Ranjit, Gitesh , Swarna Sub-1, etekijoha Kolajoha , Koneejoha , Manipuri chahao	Certified seed	31.52q	94,000.00	1,19,776.00	
Wheat									
Maize									
Any other									
Pulses									
Green gram									
Black gram									

Arhar									
Lentil									
Any other									
Oilseeds									
Toria	-	-		TS- 67	Certified seed	14.5 q	91,000.00	1,37,750.00	
Soy bean									
Groundnut									
Any other									
Fibers									
i.									
ii.									
Spices & Plantation crops									
i. **Black pepper**	-	-	-	Paniur-I	Cuttings	3000 nos	23,200.00	60,000.00	
ii.									
Floriculture									
i.									
ii.									
Fruits									

i.				**Assam Lemon**	Cuttings	300 nos	2,800.00	6,000.00	
ii.									
Vegetables									
i.									
ii.									
a. Others (specify)									
i.									
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	238.53 q	5000.00	238530.00	

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

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		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 2017-18

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)**
Total					
Grand total					

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 2017-18

S. No.	Particulars	Sanctioned (in Lakh)	Released (in Lakh)	Expenditure (in Lakh)
A. Recurring Contingencies				
1	**Pay & Allowances**	102.00	103.47274	103.47274
2	**Traveling allowances**	2.30	2.30	2.30
3	**Contingencies**			
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	15.50	15.50	15.50
TOTAL (A)		119.8	121.27274	121.27274

B. Non-Recurring Contingencies				
1	**Works**			
2	**Equipments including SWTL & Furniture**			
3	**Vehicle** (Four wheeler/Two wheeler, please specify)			
4	**Library** (Purchase of assets like books & journals)			
5	**HRD**			
TOTAL (B)		Nil	Nil	Nil
C. REVOLVING FUND			3.25876	3.25876
GRAND TOTAL (A+B+C)		**119.8**	**124.5315**	**124.5315**

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 2015 to March 2016	1.2472738	1.10151	1.83629	0.5124938
April 2016 to March 2017	0.5124938	1.57684	1.74240	0.3469338
April 2017 to March 2018	0.3469338	6.35097	3.25876	3.4391438

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 of 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

(F.U. A. Ahmed)
Sr. Scientist cum Head
KVK, Golaghat