

ANNUAL REPORT OF KVK UDALGURI, 2019-20

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail
Krishi Vigyan Kendra, Udalguri Assam Agricultural University, Lalpool, 784514, Assam	Office	FAX	kvk.udalguri13@gmail.com
	94353-48832	NIL	kvk_udalguri@aau.ac.in

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

Address	Telephone		E mail
	Office	FAX	vc@aau.ac.in, dee@aau.ac.in
Assam Agricultural University, Jorhat-785013	+91-376- 2340013	+91-376- 2340001	

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Debasish Borah	-	94353- 48832	kvk.udalguri13@gmail.com

1.4. Year of sanction: 2012

1.5. Staff Position **(As on 31st March, 2020)**

Sl.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Band (Rs.)	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category (SC/ST/OBC/)
1	Senior Scientist and Head	Dr. Debasish Borah	Senior Scientist and Head	Agronomy	41720.00	147900.00	6 th July, 2015	Permanent	Gen
2	Subject Matter Specialist	Dr. Pallavi Deka	SMS	Agril. Economics	Level 10	63100.00	01 st Feb, 2014	Permanent	ST
3	Subject Matter Specialist	Ms. Himadri Rabha	SMS	Plant Protection	Level 10	63100.00	07 th Feb, 2014	Permanent	ST
4	Subject Matter Specialist	Mr. Bhaskar Baruah	SMS	Horticulture	Level 10	63100.00	15 th Oct, 2015	Permanent	Gen
5	Subject Matter	Mr. Kapil Debnath	SMS	Fisheries	Level 10	63100.00	02 nd Nov,	Permanent	OBC

	Specialist						2015		
6	Subject Matter Specialist	Dr. Pradip Rajbongshi	SMS	An. Science	Level 10	57800.00	14 th , Aug, 2018	Permanent	OBC
7	Subject Matter Specialist	Ms. Ipsita Ojah	SMS	Soil Science	Level 10	57800.00	18 th , Aug., 2018	Permanent	Gen
8	Programme Assistant	Mrs. Pompy Bora	Programme Assistant	Community Science	Level 6	39900.00	27 th Oct, 2014	Permanent	OBC
9	Computer Programmer	Mr. Pranabesh Barman	Programme Assistant	Computer	Level 6	53600.00	14 th Nov, 2008	Permanent	SC
10	Farm Manager	Ramen Kalita	Farm Manager	Agriculture	Level 6	39900.00	-	Permanent	-
11	Accountant / Superintendent	Mr. Dhruba Jyoti Sarmah	OSA	Accounts	Level 6	41100.00	22 nd Feb, 2012	Permanent	Gen
12	Stenographer	Mr. Bhaskar Jyoti Saikia	Jr. Stenographer cum Computer Operator		Level 4	28700.00	13 th Aug, 2016	Permanent	OBC
13	Driver	Mr. Mithun Biswas	Driver cum Mechanic		Level 3	23800.00	1 Dec 2016	Permanent	SC
14	Driver	Mr. Rupjyoti Gogoi	Driver cum Mechanic		Level 3	22400.00	14 th May, 2018	Permanent	OBC
15	Supporting staff	Mr. Tilak Kalita	Supporting Staff		Level 1	18500.00	10 th July, 2018	Permanent	Gen
16	Supporting staff	Mr. Kamal Bahadur Lama	Supporting Staff		Level 1	18500.00	11 th July, 2018	Permanent	OBC
DAMU									
17	Subject Matter Specialist	Mr. Sarat Sekhar Borah	SMS	Agronomy	Level 10	57700.00	31 st July 2019	Permanent	ST

	(Meteorology)								
18	Agromet Observer	Gauri Prasad Borthakur	Agromet Observer		Level 3	21700.00	2 nd July 2019	Permanent	Gen
	Total	15							

1.6. a. Total land with KVK (in ha) :**26.7 ha**

b. Total cultivable land with KVK (in ha) :**26.7 ha**

c. Total cultivated land (in ha):**4 ha**

S. No.	Item	Area (ha)
1	Under Buildings (Administrative building+ Farmers' Hostel+ Staff Quarters)	0.0749
2.	Under Demonstration Units	0.02
3.	Under Crops (Cereals, pulses, oilseeds etc.)	3.00
4.	Under vegetables	0.05
5.	Orchard/Agro-forestry	0.014
6.	Others (specify)	Nil

1.7. Infrastructural Development:

A) Buildings: under construction

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (m ²)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	-					749.28	Likely to be completed soon
2.	Farmers Hostel	-						Nil
3.	Staff Quarters (6)	-						Nil
4.	Demonstration Units (2)	-						Nil
5.	Fencing	-						Nil

B) Vehicles

Type of vehicle	Regd. No.	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Mahindra Maxx BS2	AS-03 G 9579	2008	-	171494 kms	Running Condition
Mahindra Tractor	AS 03 AC 5953	2012	-	801 hours	Running condition

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Photocopy machine	2014	-	Good condition
Computer (3 Nos.)	2014 (1 no.) 2016 (2 nos.)	-	Good condition
Printer (4 Nos.)	2014 (1 no.) 2015 (1 No) 2016 (2 nos.)	-	Good Condition
LCD Projector	2016 (1 no.)	-	Good Condition
DSLR Camera	2016 (1 no.)	-	Good Condition

1.8. A). Details SAC meeting* conducted in the year: The SAC meeting could not be conducted due to the pandemic situation of COVID-19. It was scheduled but had to be cancelled due to Covid 19 situation at the last moment

2. DETAILS OF DISTRICT

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

Sl. No	Farming system/enterprises
1.	Agriculture + A.H.
2.	Agriculture + Fishery +A.H.
3.	Agriculture +Horticulture +Sericulture
4.	Agriculture +Horticulture +Fishery +A.H.
5.	Agriculture +Horticulture +A.H.

2.2 Description of major agro ecological situations (based on soil and topography)

No	Agro ecological situation	Characteristics
1	Foot hill with high elevation	Foot hills of Himalayas, alluvial soils are found with dense forest
2	Upland medium rainfall	Old alluviums, acidic
3	Medium land medium rainfall	-
4	Low land low elevation	Near river banks, new alluvials which are either neutral or less acidic
5	Deep water low elevation	-

2.3 Soil type/s

Sl. No	Soil type	Characteristics	Area in ha
1.	Sandy loam	Dominated by sand particles, but contain enough clay and sediment	40560.16
2.	Clay loam	Susceptible to water logging, contain more clay than other type of rocks or mineral	45486.02
3.	Silty loam	Having greater tendency to form a crust, which is often very hard. If they are over tilled, they can become compact and this decreases their ability to infiltrate water in wet periods	1230.70
4.	Clay	Contain very little organic material, often need to add amendments. Clay are slowly permeability.	4355.10

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

Sl. No	Crop	Area (ha)	Production (MT)	Productivity (KG /ha)
1.	Rice (Total)	94657	1285220	1298.6
2.	Autumn Paddy	25642	24554	973
3.	Winter Paddy	63210	1244317	1997
4.	Summer Paddy	5805	16349	2816
5.	Jute	4516	47861	1908
6.	Potato	7544	43942	5825
7.	Rapeseed & Mustard	7036	1328	832
8.	Rabi Pulses	4164	5882	588
9.	Wheat	1066	1584	1466
10.	Sugarcane	790	31526 (In cane)	39907 (In cane)
11.	Maize	507	419	796
12.	Mesta	538	1908	784
13.	Banana	608	9333	15350
14.	Orange	740	8865	11980
15.	Chilli	452	294	650

2.5. Weather data

Month	Rainfall (mm)	Temperature ° C		Relative Humidity (%)	
		Maximum	Minimum	Morning	Evening
April, 2019	13.59	28.74	18.82	92.10	66.57
May, 2019	18.37	28.14	20.46	94.16	76.94
June, 2019	11.48	32.26	24.09	93.03	74.67
July, 2019	13.25	40.47	24.09	92.87	80.68
August, 2019	20.80	34.74	25.20	92.74	71.06
September, 2019	13.14	31.69	23.41	95.37	76.97
October, 2019	09.09	30.11	19.36	93.55	70.09
November, 2019	03.33	28.75	15.79	93.70	62.90
December, 2019	08.50	23.86	09.81	95.35	61.97
January, 2020	08.00	22.09	08.23	94.03	59.74
February, 2020	13.50	24.85	09.96	94.45	58.10
March, 2020	02.10	29.04	15.26	87.81	53.16

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

Category	Population	Production	Productivity
Cattle			
<i>Crossbred</i>	7534	NA	NA
<i>Indigenous</i>	227703	NA	NA
Buffalo	11713	NA	NA
Sheep	9749	10.99 MT meat production	
<i>Crossbred</i>	NA	NA	NA
<i>Indigenous</i>	NA	NA	NA
Goats	110141	395.14 MT meat production	
Pigs	82401	483.93 MT meat production	
<i>Crossbred</i>	NA	NA	NA
<i>Indigenous</i>	NA	NA	NA
Rabbits	NA	NA	NA
Poultry			
Hens	63246	NA	NA
<i>Desi</i>	NA	NA	NA
<i>Improved</i>	NA	NA	NA
Ducks	121042	50.24 MT meat production	NA
Turkey and others	NA	NA	NA

Category	Area	Production	Productivity
Fish			
<i>Marine</i>	NA	NA	NA
<i>Inland</i>	1086 ha No. of ponds: 8100	2353 MT	2500 kg/ha
Prawn	NA	NA	NA
Scampi	NA	NA	NA
Shrimp	NA	NA	NA

2.7 Details of Operational area / Villages (2019-20)

Sl. No .	Tal uk/ Ele ka	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified thrust area
1		Kalaiga on	Kacharital	Rice, rapeseed, cattle, fishery, piggery	<ol style="list-style-type: none"> 1. Lack of knowledge of scientific cultivation of field and horticultural crops, livestock rearing 2. Lack of Awareness about new farm technologies 3. Lack of irrigation facilities 3. Marketing and transportation problem 4. Pest and disease incidence 	<p>Scientific cattle rearing for milk production,</p> <p>Scientific cultivation of cereals, oilseeds, pulses, fibre crops and vegetables</p>
2		Kalaiga on	Ojhagaon	Rice, rapeseed, cattle, fishery, piggery	<ol style="list-style-type: none"> 1. Lack of Awareness about improved farm technologies 2. Lack of irrigation facilities 3. Marketing and transportation problem 4. Pest and disease incidence 	<p>Rice-Fish farming & Scientific cultivation of cereals, oilseeds, pulses, fibre crops and vegetables</p>
3		Dalgaon	Dewrigaon	Rice, rapeseed, cattle, fishery, piggery, poultry	<ol style="list-style-type: none"> 1. Lack of Awareness about improved farm technologies 2. Lack of irrigation facilities 3. Marketing and transportation problem 4. Pest and disease incidence 5. No improved breed of livestock/poultry is available 	<p>Small Scale livestock/poultry farming using improved breed</p>
4		Dalgaon	Sarbahe rua	Rice, rapeseed, cattle, fishery, piggery	<ol style="list-style-type: none"> 1. Lack of Awareness about new farm technologies 2. Lack of irrigation facilities 3. Marketing and transportation problem 4. Pest and disease incidence 	<p>Scientific cultivation of cereals, oilseeds, pulses, fibre crops and vegetables,</p>

5		Udalguri	Habigan	Rice, rapeseed Vegetables cattle, Poultry, Buffalo, Goat, Fishery	1.Lack of knowledge about scientific cultivation practices, IPM & IDM of field & vegetable crops 2.Transportation problem 3. Lack of irrigation facilities 4.Pest and disease incidence	Livestock rearing & scientific cultivation practices of field crops
6		Bechimari	Panikhati	Rice, rapeseed, cattle, vegetables,	1. High incidence of weeds in vegetables 2. Judicious use of fertilizer 3. Pest and disease attack	Weed management in vegetables
7		Rowta	2no. Botabari	Rice, rapeseed, Vegetables cattle, piggery	1.Lack of knowledge about scientific cultivation practices of vegetable 2.Transportation and marketing problem 3.Pest and disease incidence	Scientific cultivation practices of high valued vegetable crops
8		Rowta	Doifang	Rice, rapeseed, cattle, Citrus, vegetables, fishery, piggery	1.Pest and disease incidence specially in citrus 2.Farmers get less price for their produce 3.Transportation problem	Orchard management in citrus and study of marketing channels of different commodities
9		Kalaigan	Tangla	Rice, rapeseed, cattle, fishery, piggery	1.Using traditional varieties of seeds 2.Improper utilization of fertilizer 3.Pest and disease problems in cereals	Scientific cultivation of cereals, oilseeds, vegetables
10		Borsola	Sapkhaiti	Rice, rapeseed, cattle, fishery, piggery	1.Using traditional varieties of seeds 2.Improper utilization of fertilizer 3.Pest and disease problems in cereals	Scientific cultivation of cereals, oilseeds, vegetables

11		Kalaigaon	Kalbari	Rice, rapeseed, cattle, Orange, fishery, piggery	1. Pest and disease incidence specially in citrus 2. Farmers get less price for their produce 3. Transportation problem	Orchard management in citrus study of marketing channels of different commodities
12		Rowta	Jhargaoan	Rice, rapeseed, vegetables, cattle, fishery, piggery	1. Lack of knowledge about scientific mushroom cultivation results low yield 2. Improper utilization of fertilizer 3. Pest and disease incidence 4. Improper management of Orange orchard	Scientific production technology of Mushroom
13		Kalaigaon	Kalaigaon	Rice, rapeseed, cattle, fishery, piggery	1. Lack of Awareness about new farm technologies 2. Lack of irrigation facilities 3. Marketing and transportation problem 4. Pest and disease incidence	Scientific cultivation of cereals, oilseeds, pulses, fibre crops and vegetables
14		Dalgaon	Gerua	Rice, rapeseed, cattle, fishery, piggery	1. Lack of Awareness about new farm technologies 2. Lack of irrigation facilities 3. Marketing and transportation problem 4. Pest and disease incidence	Scientific cultivation of cereals, oilseeds, pulses, fibre crops and vegetables
15		Borsola	Goroimari	Rice, rapeseed, cattle, fishery, piggery	1. Lack of Awareness about new farm technologies 2. Lack of irrigation facilities 3. Marketing and transportation problem 4. Pest and disease incidence	Scientific cultivation of cereals, oilseeds, pulses, fibre crops and vegetables

16		Mazbat	Gelabil	Rice, rapeseed, cattle, fishery, piggery	1.Lack of Awareness about new farm technologies 2.Lack of irrigation facilities 3.Marketing and transportation problem 4. Pest and disease incidence	Scientific cultivation of cereals, oilseeds, pulses, fibre crops and vegetables
17		Pachim Mangal doi	Kuhiark uchi	Rice, rapeseed, Sugar cane, Vegetables, cattle, fishery, piggery	1.Lack of knowledge about cultivation practices, livestock/poultry farming 2.Transportation and marketing problem 3.Pest and disease incidence	Small Scale piggery farming
18		Dalgaon	Simaluguri	Rice, rapeseed, Sericulture, Vegetables, cattle, fishery, piggery	1.Lack of knowledge about cultivation practices, livestock/poultry farming 2. lack of exposure to market 3.Pest and disease incidence	Weaving in large scale
19		Bhergaon	Hirabari	Rice, rapeseed, Fishery, Vegetables, cattle, piggery	1.Lack of knowledge about scientific cultivation practices of field & vegetable crops 2.Lack of irrigation facilities 3.Pest and disease incidence	Scientific cultivation of cereals, oilseeds, pulses and vegetables
20		Rowta	Rowta Pathar	Rice, rapeseed, Vegetables, cattle, Fishery, Minor fruits, Pumpkin	1.Lack of knowledge about scientific cultivation practices of field & vegetable crops 2.Lack of knowledge on orchard management of orange 3.Pest and disease incidence of Rice	Scientific orchard management and processing of minor fruits

21		Bhergaon	Bhergaon	Rice, Vegetables, cattle, Fishery, Piggery	1. Poor transportation facilities 2. Lack of knowledge on scientific fish farming 3. Lack of knowledge on organic cultivation 3. Pest and disease incidence	Organic cultivation & Scientific fish farming
22.		Rowta	Gersong	Rice, Vegetables, cattle, Fishery, Piggery	1. Poor transportation facilities 2. Lack of knowledge on scientific farming 3. Lack of knowledge on organic cultivation 3. Pest and disease incidence	Organic cultivation & Scientific farming
23.		Kalaigaon	Bhuyakhat	Rice, Vegetables, cattle, Fishery	1. Poor transportation facilities 2. Lack of knowledge on scientific farming 3. Lack of knowledge on organic cultivation 3. Pest and disease incidence	Organic cultivation & Scientific farming
24		Udalguri	Bengbari	Rice, Vegetables, cattle, Fishery	Poor transportation facilities 2. Lack of knowledge on scientific farming 3. Lack of knowledge on organic cultivation 3. Pest and disease incidence	Scientific cultivation of cereals, oilseeds, pulses and vegetables
25		Bhergaon	Chanbari	Rice, Turmeric, Toria, Blackpepper, Pumpkin	Poor transportation facilities 2. Lack of knowledge on scientific farming 3. Lack of knowledge on organic cultivation 3. Pest and disease incidence	Scientific cultivation of Rice, Turmeric, Toria, Blackpepper, Pumpkin

3. TECHNICAL ACHIEVEMENTS

3. A. Details of target and achievements of mandatory activities by KVK during 2019-20

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	
	Targ ets	Achiev ement	Targ ets	Achiev ement	Targ ets	Achiev ement	Targ ets	Achiev ement
	Animal Science	04	04	21	21	06	06	100
Soil Science	02	02	06	06	02	10	502	502
Horticulture	02	02	05	05	10	10	227	227
Fisheries	03	03	09	09	06	06	26	26
Plant Protection	-	-	-	-	0	02	0	20
Agronomy	-	-	-	-	02	02	30	30
Agril. Econ	01	01	60	60	01	01	03	03
Community Science	01	01	02	02	02	02	10	10
Total	13	13	103	103	29	39	898	918

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	Targ ets	Achiev ement	Targ ets	Achiev ement	Targ ets	Achiev ement	Targe ts	Achiev ement
Farmers	62	53	1550	1406	-	-	-	-
Rural youth	20	17	500	432	-	-	-	-
Extn. Functionaries	7	1	135	23	-	-	-	-
Vocational	10	5	200	121	-	-	-	-
Total	99	76	2385	1982	-	-	-	-
Seed Production (ton.)				Planting material (Nos. in lakh)				
Target		Achievement		Target		Achievement		
Rice (6.0)		3.8		Hybrid Napier (0.25)		0.25		
Toria (.0)		1.2		Setaria (0.1)		0.1		
				Malbhog Banana sucker (0.003)		0.003		

3. B. Abstract of interventions undertaken during 2019-20

S. N	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	Crop introduction	Dragon fruit	Low income from locally available minor fruits	Introduction of high value crop dragon fruit in Udalguri District	-	-	-	Advisory services, Mobile Advisory services & diagnostic visit	Seedling, fertilizers, plant protection chemical
2	Organic cultivation	<i>Bhut Jolokia</i>	Low income from inorganically produced <i>Bhut Jolokia</i>	Cultivation of high value crop <i>Bhut Jolokia</i> using organic sources of nutrients	-	-	-	Advisory services, Mobile Advisory services & diagnostic visit	Seeds, fertilizers, plant protection chemical

3	Organic cultivation	Paddy	Chemical fertilizers causing environmental and health hazard and low income from chemically produced products	Performance of Sali Rice (Transplanted) by using organic package	-	Organic Farming	-	Method demonstration, Field visit, Advisory services	Seed, Biofertilizers, Organic fertilizers
4	Organic cultivation	Paddy	Low income from chemically produced products and non-availability of complete organic package	Replacement of Inorganic Source of Potassic fertilizers by Potash Solubilizing Bacteria (KSB) in INM package of Rice	-	-	-	Method demonstration, Field visit, Advisory services	Seed, Biofertilizers, Organic fertilizers

5	High Yielding Variety	Cauliflower	Low Yield of locally available varieties	-	Demonstration of cauliflower var. Moti	-	-	Advisory services, Mobile Advisory services & diagnostic visit	Seeds, fertilizers, plant protection chemical
6	High Yielding Variety	Brinjal	Low Yield of locally available varieties	-	Demonstration on brinjal var. Pusa Hybrid -5	-	-	Advisory services, Mobile Advisory services & diagnostic visit	Seeds, fertilizers, plant protection chemical
7	High Yielding Variety	Papaya	Low Yield of locally available varieties	-	Popularization of high yielding papaya var. Red Lady	-	-	Advisory services, Mobile Advisory services & diagnostic visit	Seedling, fertilizers, plant protection chemical
8	IWM	Brinjal	Yield loss due to poor weed management	-	Integrated weed management in Brinjal	-	-	Advisory services, Mobile Advisory services & diagnostic visit	Seeds, fertilizers, plant protection chemical
9	Integrated crop Management	Green gram	Low yield due to poor fertility management	-	CFLD on Green gram	Training on Integrated crop Management of Green gram var. SGC 16	-	Advisory services, Mobile Advisory services & diagnostic visit	Seed, Biofertilizers, Vermicompost

10	Integrated crop Management	Sesamum	Low yield due to poor fertility management	-	CFLD on Sesamum	Training on Scientific cultivation of Sesamum	-	Advisory services, Mobile Advisory services & diagnostic visit	Seed, Biofertilizers, Vermicompost
11	Integrated crop Management	Black gram	Low yield due to poor fertility management	-	CFLD on Black gram	Training on Scientific cultivation of Black gram	-	Advisory services, Mobile Advisory services & diagnostic visit	Seed, Biofertilizers, Vermicompost
12	Integrated crop Management	Mustard and Toria	Low yield due to poor fertility management	-	1.Demonstration of mustard variety NRC HB 101 under DRMR project 2.Demonstration of mustard variety NRC HB 101 after rice	Training on Scientific cultivation of Toria: Scientific cultivation practices of rapeseed and mustard	-	Advisory services, Mobile Advisory services & diagnostic visit	Seed, Biofertilizers, Vermicompost
13	Integrated crop Management	Toria	Low yield due to poor fertility management	-	CFLD on Toria (140 ha)	Training on Scientific cultivation of Toria	-	Advisory services, Mobile Advisory services & diagnostic visit	Seed, Biofertilizers, Vermicompost

14	Integrated nutrient Management	Paddy	Low yield of local varieties, poor fertility management	-	INM in Scented Sali paddy var Bokuljoha	1.Scientific cultivation practices and mechanization of kharif rice 2.Scientific cultivation practices and mechanization of Ahu rice	-	Advisory services, Mobile Advisory services & diagnostic visit	Seed, Biofertilizers, Vermicompost
15	High Yielding Variety	Cauliflower	Low Yield of locally available varieties	-	Demonstration of cauliflower var. Moti under NEH component	-	-	Field day, Advisory services, Mobile Advisory services & diagnostic visit	Seeds
16	High Yielding Variety	Pea	Low Yield of locally available varieties	-	Demonstration of pea var. Arkel under NEH component	-	-	Field day, Advisory services, Mobile Advisory services & diagnostic visit	Seeds
17	High Yielding Variety	Potato	Low Yield of locally available varieties	-	Demonstration of Potato var. Kufri Sinduri under NEH component	Scientific cultivation practices of potato	-	Field day, Advisory services, Mobile Advisory services & diagnostic visit	Seeds

18	High Yielding Variety	Brinjal	Low Yield of locally available varieties	-	Demonstration on brinjal var. Pusa Hybrid -5 under NEH component	-	-	Advisory services, Mobile Advisory services & diagnostic visit	Seeds, fertilizers, plant protection chemical
19	Homestead garden	Turmeric, Areca nut and Assam Lemon	Gradually depleting homestead garden	-	Development of Homestead garden under NEH component	-	-	Advisory services, Mobile Advisory services & diagnostic visit	Planting Materials
20	Drudgery reduction	Women friendly tool	Very laborious		Popularization of bamboo paddy stripper for paddy seed selection	Drudgery reduction through work simplification		1.Advisory services 2.Mobile Advisory services 3.diagnostic visit	Paddy stripper
21	Storage technique	Mushroom	1. less self life 2. increase income generating opportunities	Quality assessment of value added products from oyster mushroom	Popularization of processed ginger products			1.Advisory services 2.Mobile Advisory services 3.diagnostic visit	KMS, Citric acid, ginger, mushroom

22	Value addition		Low market value	-	-	1. Value addition of fabric through dyeing, printing and embroidery 2. processing and preservation of fruits and vegetables 3. value addition of seasonal fruits and vegetables 4. entrepreneurship development through processing of minor fruits	-	1.Advisory services 2.Mobile Advisory services 3.diagnostic visit	-
23	Designing and development for high nutrient efficiency diet		-	-	-	1.Nitrification of traditional recipes	-	1.Advisory services 2.Mobile Advisory services 3.diagnostic visit	-

24	Income generation activities for empowerment of rural youth	-	-	-	Empowering women SHGs for proper processing and packaging of locally made pickle	1. Design and development of jute based product 2. Artificial flower making 3. strengthening and promotion of women SHG through low cost hand made decor	-	Demonstration, advisory services	Raw material for pickle making, labelling and packaging material
25	Income generation activities for empowerment of rural youth	Vermicompost	Under utilization of crop residue	-	Demonstration on Production of Vermicompost under NEH Component (VPKAS)	Trainings on Production of Vermicompost	-	Field visit, Advisory services	Poly bag, earthworms
26	Others		-	-	-	Formation and management of farmers producers company	-	Advisory services, group discussion	-
27	Post harvest management	Jute	Delayed retting of jute	Fibre quality improvement in Jute through microbial retting	-	-	-	Method demonstration, Fieldvisit, Advisory services	Seed, Biofertilizers, Organic fertilizers

28	Organic cultivation	Pumkin	Low yield due to poor management	-	Cultivation of Pumkin under PKVY	Cultivation of Pumkin under PKVY	-	Field visit, Advisory services, Farmers meeting	Financial Assistance through DBT
29	Integrated crop management	Toria	Low yield due to poor management	-	Cultivation of Toria under PKVY	Cultivation of Toria under PKVY	-	Field visit, Advisory services, Farmers meeting	Financial Assistance through DBT
30	Integrated crop management	Turmeric	Low yield due to poor management	-	Cultivation of Turmeric under PKVY	Cultivation of Turmeric under PKVY	-	Field visit, Advisory services, Farmers meeting	Financial Assistance through DBT
31	Integrated crop management	Black pepper	Low yield due to poor management	-	Cultivation of Black pepper under PKVY	Cultivation of Black pepper under PKVY	-	Field visit, Advisory services, Farmers meeting	Financial Assistance through DBT
32	Integrated crop management	Mushroom	Low income any less employment opportunity in single season cultivation	-	Production technology of milky mushroom under NEH component	Year round production technology and value addition of mushroom	-	Field visit, Advisory services, Farmers meeting, training and method demonstration	Spawn and pp bags

33	Apiculture	Honey bee	Low income of farmers		Rearing of Indian bee <i>Apis cerena</i> in crop field under NEH component	Apiculture for self employment	-	Field visit, Advisory services, Farmers meeting and training	Bee box with colony
34	Poultry management	Poultry	1.lack of knowledge about scientific rearing and disease control of poultry birds 2. low productivity of local breeds of poultry	Productive performance of Turkey	Livelihood security of tribal farmers by introducing Dual Purpose Kamrupa Poultry Farming as a component of IFS	1. Training on Backyard poultry farming 2. Diseases of poultry, their prevention and control measures 3. Commercial Broiler farming 4. Scientific rearing of improved poultry for egg production level.	-	1.Diagnostic visit 2.Advisory services 3.Group discussion 5.Farmers scientist Interaction	Supply of chicks
35	Poultry management	Duckery	1.lack of knowledge about scientific rearing and feeding 2. low productivity of local breeds	-	1. Introduction of <i>CharaChambelli</i> breed of Duck in backyard farming 2. Demonstration on <i>CharaChambelli</i> breed of Duck under NEH (IARI) component	1. Scientific rearing of duck as integrated farming system 2.Duck rearing & management in backyard system	-	1.Diagnostic visit 2.Advisory services 3.Group discussion 4.Farmers scientist Interaction	Distribution of ducklings

36	Piggery management	Piggery	1.lack of knowledge about scientific rearing, feeding and disease control 2. low productivity of local breeds	1. Evaluation of crossbred Large White Yorkshire pig for meat purpose 2.Introduction of new pig breed HDK-75	1.Demonstration of pig breed HDK75 2. Livelihood security of tribal farmers by introducing Improved Pig Farming (breed - Ghungroo) as a component of IFS 3. Livelihood security of tribal farmers by introducing Crossbred Hampshire Pig Farming as an IFS component	1. Vocational training on scientific pig farming for self employment	-	1.diagnostic visit 2.Advisory services 3.Group discussion 5.Farmers scientist interaction	High yielding Piglets distribution
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37	Disease management	Livestock	Lack of knowledge about scientific control of diseases and supplementation of mineral mixture	-	-	1. Diseases of livestock, their prevention and control measures.	1. Recent advances in Veterinary Science	1. Advisory services 2. Diagnostic visit	Advisory services to the farmers
38	Dairying	Cattle	Low productivity of local cattle			Year round fodder production for better milk production in dairy cattle	-	-	Awareness and training programme on fodder production
39	Goat rearing	Goatery	Low productivity of local breeds	-		-	-	1. Diagnostic visit 2. Advisory services 3. Group discussion 4. Farmers scientist Interaction	Advisory services to the farmers

40	Rabbit rearing	Rabbit	Introduction of broiler Rabbit	-	-	Rabbit production and management		1. Diagnostic visit 2. Advisory services	Awareness and training programme on fodder production
41	Breed introduction	Silver barb	Specific Growth rate of IMC and Chinese carp is less than Silver barb	Incorporation of Silver barb <i>Barbonymus Gonionotus</i> (bleeker) in feed-based carp polyculture system with reference to seasonal ponds	-	-	-	Advisory services, Mobile Advisory services & diagnostic visit	Fish fingerling, Fish feed, lime
42	Integrated farming	Kawoi fish	Low income from rice mono crop and insect pest problem in paddy field	Growth performance of Kawoi in paddy fields in rice-fish farming system	-	Integrated paddy cum fish culture	-	Advisory services, Mobile Advisory services & diagnostic visit	Kawoi Seed, lime, nylon net

43	Value addition	Dry fish	Unhygienic, insect and dirt infestation in end product and laborious	Adaptation and Improvement of a Simple Solar Tent Dryer to Enhance Fish Drying		1. Hands on training on Construction & operation of solar tent dryer 2. Vocational training on Fish product development and value addition		Advisory services, Mobile Advisory services & diagnostic visit	Fish, Solar Tent Dryer
44	Seed production	Fish fry	Unavailability of quality seed at proper time	-	Seed raising technology in homestead pond for production of quality fish seed	1. Rearing of fish seed in backyard pond for income generation 2. Training on advanced fry and fingerling production of carps in ponds	-	Advisory services, Mobile Advisory services & diagnostic visit	Fish seeds, lime and medicine
45	Pond management	Amur carp	Low growth of indigenous Common carp	-	Popularization of Amur common carp in pond poly culture system	1. Fish pond construction and its management 2. Vocational training on scientific method of Aquaculture practices and its management	-	Advisory services, Mobile Advisory services & diagnostic visit	Fish fingerling, fish feed, lime and medicine

46	Integrated farming system	Fish, duck and horticultural crops	Non judicious use of pond embankment	-	Integrated Fish cum Duck cum Horticulture Farming	1. Integrated fish cum duck farming 2. Integrated fish cum poultry farming	-	Advisory services, Mobile Advisory services & diagnostic visit	Fish fingerling, duckling, horticultural crops, duck feed, lime, medicine
47	Integrated farming system	Fish and pig	Feed cost for fish is very high	-	Integrated pig cum fish farming system	-	-	Advisory services, Mobile Advisory services & diagnostic visit	Fish fingerling, piglet
48	Integrated farming system	Fish and duck	Feed cost for fish is very high	-	Integrated Fish cum Duck Farming (TSP)		-	Advisory services, Mobile Advisory services & diagnostic visit	Fish fingerling, duckling, duck feed, lime, medicine

49	Pond management	Amur carp	Low growth of indigenous Common carp	-	Popularization of Amur common carp in pond poly culture system (TSP)	Composite fish farming	-	Field day, Advisory services, Mobile Advisory services & diagnostic visit	Fish fingerling, fish feed, lime and medicine
50	Disease management	Fisheries	Disease outbreak of fish during winter	-	-	Fish diseases & their management	-	-	-
51	Ornamental fisheries	Fisheries	Unemployment of rural youth	-	-	Construction & maintenance of aquarium	-	-	-
52	Impact assessment	Impact assessment	To know about the impact without which proper planning is not possible	Impact assessment of oilseeds and pulses introduced through CFLD	-	-	-	Diagnostic visit, group discussion, mobile advisory	-

3.1 Achievements on technologies assessed and refined during 2019-20

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										
Seed / Plant production										
Weed Management										
Integrated Crop Management										
Integrated Nutrient Management										
Integrated Farming System										
Mushroom cultivation										
Drudgery reduction										
Farm machineries										
Value addition (mushroom products)				1						1
Integrated Pest Management										
Integrated Disease Management										
Resource conservation technology										
Small Scale income generating enterprises										

Impact assessment		1								1
Others	1				1	1				3
TOTAL										

* 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

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	-	-	-	-	-	-	-	-	-	-
Organic Production	1	-	-	-	-	-	-	-	-	1
TOTAL	1	-	-	-	-	-	-	-	-	1

* *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	-	-	2	1	1	5
Nutrition Management	-	-	-	-	-	-	-	-
Disease of Management	-	-	-	-	-	-	-	-
Value Addition	-	-	-	-	-	-	-	-
Production and management	-	-	-	-	-	-	1	1
Feed and Fodder	-	-	-	-	-	-	-	-
Small Scale income generating enterprises	-	-	-	-	-	-	-	-
TOTAL	-	1	-	-	2	1	2	6

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

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

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
1	Introduction of high value crop dragon fruit in Udalguri District	Low income from locally available minor fruits	Spacing: 4m X 3m, Manuring: FYM @ 10-15 kg/plant, Fertilization: N @ 300g/plant and P ₂ O ₅ and K ₂ O @ 200 g/plant	Dragon fruit	03	Ongoing Crop is in vegetative stage (Plant height 8 feet)	Farmers are very much satisfied with the technology till date	Low cost technology for dragon fruit cultivation	-
2	Cultivation of high value crop <i>Bhut Jolokia</i> using organic sources of nutrients	Low income from inorganically produced <i>Bhut Jolokia</i>	Sowing Time: Jan-Feb. Seed rate: 115 g seed/ha (15g seeds/bigha) Spacing: 1.0 m X 0.75 m Fertilization: Compost @ 10 t/ha + <i>Azospirillum</i> + PSB, @ 1% + 1% Rock Phosphate	<i>Bhut Jolokia</i>	02	The trial is ongoing. Crop is at flower initiation stage (90 cm in height)	Farmers are very much satisfied with the technology till date	Need adequate organic inputs to meet the demand of farmers.	-

3	Performance of Sali Rice (Transplanted) by using organic package	Chemical fertilizers causing environmental and health hazard and low income from chemically produced products	1. Biofertilizers (Azospirillum and PSB) as seedling root dip treatment @ 4 kg/ha; 2. Enriched compost @ 5t/ha (Procedure: prime organic compost with biofertilizer consortia @ 1 % containing 108-109 cfu/g adjusted with 1 % Rock Phosphate (as P) and cure for 15- 20 days); Variety: Ranjit sub-1	Ranjit Sub-1	03	Avg. Yield (q/ha.)		Farmers are satisfied with the technology till date	Need adequate quantity of organic inputs to meet the demand of farmers.	Dem	Ch
						o	ck				
						2.7	2.2				
4	Replacement of Inorganic Source of Potassic fertilizer	Low income from chemically produced products and non-	T1: Microbes (Azospirillum and PSB @ 4 kg/ha; Manure @ 1t/ha; Rock phosphate @ 10 kg/ha; KSB @	Ranjit	03	Avg. Yield (q/ha.)		Farmers are very much satisfied with the technology till date	Need adequate quantity of organic inputs to meet the demand	Dem	Ch
						o	ck				
						2.41	2.18				

	s by Potash Solubilizing Bacteria (KSB) in INM package of Rice	availability of complete organic package	3.5 kg /ha) T2: Check using INM (Microbes (Azospirillum and PSB @ 4 kg/ha; Manure @ 1t/ha; Rock phosphate @ 10 kg/ha; MOP @ 40 kg /ha) (var Ranjit)					of farmers.		
5	Quality assessment of value added products from oyster mushroom	Less self life	T ₁ : mushroom biscuit T ₂ : mushroom pickle	mushroom	2	Acceptability level : T ₁ : 4.5 T ₂ : 4.2 Selling price: T ₁ : Rs. 380/1 kg T ₂ : Rs. 200/1 kg Storage period: T ₁ : 90 days T ₂ : 180 days	Farmers are highly satisfied	Good	Demo: T ₁ : 1.14 T ₂ : 1.33	
6	Evaluation of Large White Yorkshire pig for	Slow growth rate of the locally available pigs	Yorkshire is a prolific, exotic breed in India having capacity to grow upto 250- 300 kg in Boar	piggery	5	Body weight (5 months) male= 22 kg Bodyweight female = 26kg Mortality 20 %	Farmers are very much satisfied with the growth performanc	Need adequate supply of good quality piglets.	Ongoing	

	meat purpose	resulting low economic return	and Sow upto 200kg at maturity				e		
7	Productive performance of Turkey	slow growth rate of the existing local poultry birds.	Occupies important position of meat next to chicken. Reared under free range system with regular vaccination upto market weight of 16 th to 18 th weeks	Poultry	10	Avg. body weight at distribution (3 weeks)= avg. 330gm 6 weeks=avg. 900 gm 9 weeks= avg. 1350 gm	Newly introduced in the district	ongoing	Ongoing
8	Introduction of new pig breed HDK-75	Low growth rate of local breeds with low income	Pig breed HDK 75 has high mothering ability with good litter size and high body weight gain	Piggery	3	Avg. body weight male (13 months) = 67kg Avg. body weight female(13months) =87 kg Avg. age at sexual maturity = 225 days Avg. age at onset of estrous=255days Avg. age at first conception=255 days Avg. Litter size at birth and weight=9.5 and 9.025kg	Farmers are very much satisfied with the performance of the breed	Need adequate supply of good quality piglets	ongoing
9	Introduc	emphasize	adaptable in wide	Rabbitry	4	No. of crops per doe per	Farmers are	Litter size	1.37

	tion of Rabbit for Backyard system (Breed: Soviet Chincilla)	on fryer production to enhance the market with Broiler Rabbit	agroclimatic condition, reproductive potential is very high also can be marketed within 90-100 days and reach weight upto 2 kg			year=5 crops Avg. age at first kindling =230days Avg. Litter size at birth=4nos Avg. Litter weight at birth=250gm Litter size at weaning =3nos Weaning weight at 8 weeks =870gm	very much satisfied with the growth performance and reproductive performance	at birth is not as per recommendation	
10	Incorporation of Silver barb Barbony mus Gonionotus (bleeker) in feed-based carp polyculture system with reference to seasonal	Specific Growth rate of IMC and Chinese carp is less than Silver barb	Stocking density is 25% of total by partial replacement of surface feeder fish	Silver barb	03	Date of Start: 17/07/2019 Avg. weight of Silver barb: 160 gm Fish Production: 3200 kg/ha Gross return: Rs. 4,80,000.00 Gross cost: Rs. 1,85,000.00 Net return: Rs. 2,95,000.00 BCR: 2.59	Farmers were satisfied with the growth parameters, Many more farmers are willing to adopt the technology	Good	2.59

	ponds								
11	Growth performance of Kawoi in paddy fields in rice-fish farming system	Low income from monoculture of rice	Stocking of Kawoi seed @ 10000 nos per ha. in low land paddy field after 7-10 days of transplantation of paddy	Kawoi	03	<p>Date of Start: 09/08/2019</p> <p>Size of Kawoi seed at stocking: Fry size</p> <p>Avg. weight of Kawoi: 80gm</p> <p>Fish Production: 760 kg/ha</p> <p>Rice production: 52q/ha</p> <p>Gross return: Rs. 3,03,400.00</p> <p>Gross cost: Rs. 3,03,400.00</p> <p>Net return: Rs. Rs. 2,06,400.00</p>	Farmers were satisfied with the yield and technology	Good	3.13
12	Adaptation and Improvement of a Simple	Unhygienic, insect and dirt infestation	Drying of fish under Solar Tent Dryer	Dry fish	03	<p>Dry fish= 1.125 kg from 4 kg of fresh fish</p> <p>Gross return: Rs. 790.00</p>	Farmers were satisfied with the yield and	Good	1.66

	Solar Tent Dryer to Enhance Fish Drying	in end product and laborious				Gross cost: Rs. 477.00 Net return: Rs. Rs. 313.00	technology		
13	Impact assessment of oilseeds and pulses introduced through CFLD	To find out the strength of the technology and its impact	Extent of technology adoption, horizontal spread/ area coverage of the technology, social and economic impact	-	60	Crop	B:C		
							Before CFLD	After CFLD	
						Toria	1.2	1.4	
						Green gram	1.6	2.12	
						Field pea	1.64	2.21	

****Field crops - ton/ha, * for horticultural crops -= kg/t/ha, * milk and meat - litres or kg/animal, * for mushroom and vermicompost kg/unit area.***

***** Give details of the technology assessed or refined and farmer's practice***

3.2 Achievements of Frontline Demonstrations during 2019-20

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

List of technologies demonstrated during previous year and popularized during 2019-20 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	Strawberry	Scientific cultivation of strawberry var. Sweet Charlie	2	12	1
2	Banana	Scientific cultivation of Banana cv. Malbhog	4	22	2.5
3	Vermicompost	Production of Vermicompost under TSP	7	20	-
4	Poultry	Introduction of improved poultry breed <i>Vanaraja</i>	4	12	-
5	Poultry	Introduction of improved poultry breed <i>Kamrupa</i>	6	18	-
6	Piggery	Introduction of improved pig breed <i>Crossbred Hampshire</i>	4	10	-
7	Seed production	Seed raising technology in homestead pond for production of quality fish seed	03	04	0.4
8	Amur carp	Popularization of Amur common carp in pond poly culture system	03	03	0.3
9	IFS	Integrated Fish cum Duck cum Horticulture Farming	03	03	0.3
10	IFS	Integrated pig cum fish farming system	02	02	0.2
11	IFS	Integrated Fish cum Duck Farming System (TSP)	05	08	1
12	Amur carp	Popularization of Amur common carp in pond poly culture system (TSP)	05	07	1

* *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.)

Sl.	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
Cereals														
1	INM in Scented Sali paddy var Bokul joha	Integrated Nutrient N	INM (Microbes (Azospirillum and PSB @ 4 kg/ha; Manure @ 1t/ha; Rock phosphate @ 56 kg/ha; MOP @ 67 kg /ha); Variety: Bokul Joha	Kharif 2019	2	2	15	0	15	-	Rainfed	3689	3412	2728
Horticultural Crops														
2	Cauliflower	High Yielding Variety	Spacing : 45cm X 45cm Manuring& Fertilization: FYM	Rabi, 2019	0.13	0.13	2	1	3	-	Irrigated	-	-	-

			@10t, NPK @80:60:60 kg/ha. Half of N and full dose of P& K to be applied as basal and remaining half of N to be top dressed at 30 DAP.											
3	Brinjal	High Yielding Variety	Spacing: 75cm X 60cm Manuring & Fertilization: FYM @ 10 t/ha, N @ 50kg/ha, P ₂ O ₅ @ 50kg/ha, K ₂ O @ 50kg/ha. Half of N and full dose of P& K to be applied as basal and remaining half of N to be top dressed in one instalment.	Rabi, 2019	0.13	0.13	2	1	3	-	Irrigated	-	-	-
4	Papaya	High Yielding Variety	High yielding variety of papaya, Red lady with red colour flesh has been demonstrated	Khar if, 2019	0.13	0.13	2	1	3	-	Irrigated	-	-	-

5	Brinjal	IWM	Spacing: 75cm X 60cm Manuring & Fertilization: FYM @ 10 t/ha, N @ 50kg/ha, P ₂ O ₅ @ 50kg/ha, K ₂ O @ 50kg/ha Weed management: Pre emergence application of Pendimethalin @ 1.5kg/ha + hand weeding at 35 DAT	Rabi, 2019	0.13	0.13	0	3	3	-	Irrigated	-	-	-
6	Cauliflower	High Yielding Variety under NEH component	Spacing : 45cm X 45cm Manuring & Fertilization: FYM @10t, NPK @80:60:60 kg/ha. Half of N and full dose of P & K to be applied as basal and remaining half of N to be top dressed at 30 DAP.	Rabi, 2019	1	1	0	-	10	-	Irrigated	-	-	-
7	Garden Pea	High Yielding Variety NEH	High yielding variety of garden pea, Arkel has been demonstrated	Rabi, 2019	8	8	40	-	40	-	Rainfed	-	-	-

		component												
8	Potato	High Yielding Variety NEH component	High yielding variety of Potato, KufriSinduri has been demonstrated	Rabi, 2019	2	2	20	-	20	-	Irrigated	-	-	-
9	Brinjal	High Yielding Variety NEH component	Spacing: 75cm X 60cm Manuring & Fertilization: FYM @ 10 t/ha, N @ 50kg/ha, P ₂ O ₅ @ 50kg/ha, K ₂ O @ 50kg/ha. Half of N and full dose of P& K to be applied as basal and remaining half of N to be top dressed in one instalment.	Rabi, 2019	1	1	10	-	10	-	Irrigated	-	-	-
10	Arecanut, Turmeric and Assam Lemon	Development of Homestead garden under NEH component	a). Megha turmeric Planting Time: March-April Seed rate: 25q/ha Spacing : 45 cm X 25cm Plot size: 12.5 m ² b). Arecanut:	Summer, 2020	125 m sq. and 200 nos.	125 m sq. and 200 nos.	110	-	110	-	Rainfed	-	-	-

			Planting Time: March-April Planting materials: 02 number seedling/farmer Spacing : 2.75 m X 2.75m c). Assam lemon: Planting Time: May Planting materials: 02 number seedling/farmer Spacing : 3 m X 3 m												
1 1	Pumkin	Parampar agat Cultivatio n	Traditional package	Rabi 2019	5	5	10	0	10	-	Irrigate d	-	-	-	
1 2	Turmeri c	Parampar agat Cultivatio n	Traditional package	Rabi 2019	2	2	9	0	9	-	Irrigate d	-	-	-	
1 3	Black pepper	Parampar agat Cultivatio n	Cultivation of Black pepper in arecanut cropping system	Rabi 2019	1	1	24	0	24	-	Irrigate d	-	-	-	
Oilseeds															

14	Sesamum	Scientific Cultivation of Sesamum under CFLD	NPK@ 30:20:20	Kharif 2019	10	10	15	10	25	-	Rainfed	,	,	,
15	Toria	Scientific Cultivation of Toria under CFLD (Additional 140 ha)	60:40:40 kg NPK/ha FYM @ 2 t/ha	Kharif 2019	10	10	200	140	350	-	Rainfed	,	,	,
16	Toria	Paramparagat Cultivation	Toria after rice cultivation. Toria seedrate @ 10 kg /bigha	Rabi 2019	12	12	24	0	24	-	Rainfed	,	,	,
17	Mustard	Scientific cultivation	Variety: NRCHB 101, Fertilizers: 80-40-30 kg N, P ₂ O ₅ , K ₂ O/HA	Rabi 2019	10	10	21	0	21	-	Rainfed	,	,	,
18	Mustard	Scientific cultivation	Variety: NRCHB 101	Rabi 2019	3	3	9	0	9	-	Rainfed	,	,	,

Pulse														
19	Green gram	Integrated crop Management	Var. SGC-16 Seed treatment with <i>rhizobium</i> @ 40g/kg seed, N:P:K::10:35:0 kg/ha	Kharif 2019	10	10	22	3	25	-	Rainfed	-	-	-
20	Black gram	Scientific cultivation of Black gram under CFLD	Integrated crop management in Black gram using vermicompost @ 1t/ha, Rhizobium @ 150g /3 kg of seed (as Seed treatment) and 75% RDF(using variety PU 31)	Kharif 2019	10	10	25	0	0	25	Rainfed	.	.	.

c. Performance of FLD on 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 parameter other than yield, e.g., disease incidence, pest incidence etc.		Econ. Of demo. (Rs./ha.)				Econ. Of check (Rs./Ha.)			
				Dem o.	Ch eck		H*	L*			GC**	GR**	NR**	BCR**	GC	GR	NR	BCR
											De mo	Loc al						
Cereals																		
1	Pad dy, Bo kul Joh a	Integr ated Nutrie nt Mana geme nt	2	36	27	33	39	32	-	-	28836.00	50400.00	21564.00	1.74	26800.00	37800	11000.00	Check 1.41
Horticultural Crops																		
2	Caulif lower	High Yieldi ng Variet y	0.13	185.00	152.00	21.71	189.00	181.00	-	-	130000.00	462500.00	332500.00	3.56	120000.00	380000.00	260000.00	3.17

3	Brinjal	High Yielding Variety	0.13	188.00	142.00	32.39	191.00	182.00	-	-	88000.00	28200.00	194000.00	3.20	7850.00	21300.00	134500.00	2.71
4	Papaya	High Yielding Variety	0.13	1388.7	880.5	57.72	1392.0	1378.0	-	-	31825.00	1388700.00	107045.00	4.36	227240	88050.00	653260.00	3.87
5	Brinjal	IWM	0.13	Ongoing														
6	Cauliflower	High Yielding Variety under NEH component	1.0	182.0	145.0	25.52	188.5	179.2	-	-	13000.00	45500.00	325000.00	3.50	1200.00	36250.00	242500.00	3.02
7	Garden Pea	High Yielding Variety	8.0	68.50	45.00	52.22	72.50	61.0	-	-	11650.00	27400.00	157500.00	2.35	1020.00	18000.00	78000.00	1.76

		y NEH component																
8	Potato	High Yielding Variety NEH component	2.0	125.0	80.0	56.25	129.3	121.7	-	-	80000.00	25000.00	170000.00	3.13	7000.00	16000.00	900.00	2.29
9	Brinjal	High Yielding Variety NEH component	1.0	187.0	138.0	35.51	193.0	182.0	-	-	88000.00	28050.00	192500.00	3.19	7850.00	20700.00	12850.00	2.64
10	Areca nut, Turmeric and Assam Lemon	Development of Home stead garden under NEH component	1.25	Ongoing														

		nent																
11	Apple Ber	Integrated Farming System	05	Date of Start: April 2019	-Ongoing-													
12	Pumpkin	Traditional Cultivation	5	Date of Start: February 2020	- Ongoing-													
13	Turmeric	Traditional Cultivation	2	Date of Start: April 2020	-Ongoing-													
14	Black pepper	Traditional Cultivation	1	Date of Start: May 2020	-Ongoing-													
Oilseed																		
15	Sesamum	Integrated Crop Management	10	6.08	4.2	18.8	7.2	5.2	-	-	25050.00	48640.00	23590.00	1.9	18450.00	33600.00	15150.00	1.8

16	Toria	Paramparag at cultivation	12	7.53	6.2	21.4	7.8	6.8	-	-	16600	24850	8250	1.5	18600	21700	2100	1.1
17	Toria	Integrated Crop Management	140	7	5.8	20.6	7.6	6.6	-	-	20410	24500	4090	1.2	18600	20300	1700	1.09
18	Mustard	DRMR	10	9.8	7.87	25	10.5	6.5	-	-	24050.00	37240.00	13190.00	1.55	21050.00	29906.00	8856.00	1.42
19	Mustard	Demonstration of short duration Mustard variety NRC HB-101 under rainfed	30	9.86	7.5	24	10.5	8.5	-	-	21050	37468	13418	1.56	21950	28500	6550	1.29

		condition																
Pulse																		
20	Green gram	Integrated crop Management	10.0	8.5	6.1	39.34	8.9	8.1	-	-	23600.00	42500.00	18900.00	1.80	23100.00	30500.00	7400.00	1.32
21	Black gram	Integrated crop Management	10.0	9.2	6.9	33	9.5	8.6			24500.00	46000.00	21500.00	1.87	22350.00	34500.00	12150.00	1.54

***H-Highest recorded yield, L- Lowest recorded yield**

**** 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.

d. Extension and Training activities under FLD on Crops

Sl.No.	Activity	No. of activities organized	Date	Number of participants			Remarks
				Gen	SC/ST	Total	
1	Field days	3	30/01/20; 03/01/20; 29/01/20	0	18	18	
2	Farmers Training	12	15/11/19; 19/11/19; 18/22/19; 18/11/19; 07/01/20' 30/12/20; 28/12/20; 22/06/19; 31/06/19; 02/09/19; 03/09/19; 16/09/19; 24/02/20; 24/02/02	64	350	436	
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.)	The matric 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		GC*	GR**	NR**	BCR**	GC	GR	NR	BCR			
1.	Duckery	Breed introduction	<i>Chara Chambelli</i> breed of Duck in backyard farming	12	12	200	Avg. Body weight at 6 months age (Male=1.83 kg Female=1.77 kg Avg egg production per bird	Avg. Body weight at 6 months age (Male=980 g Female=867g Avg egg production per bird	46.44	Avg. age at 1 st egg laying = 200 days Mortality = 3%	Age at 1 st egg laying = 285 days Mortality = 21%									ongoing

							production per bird upto 8 months=30nos	upto 8 months=nil													
2	Piggery	Breed introduction	Livelihood security of tribal farmers by introducing Improved Pig Farming (breed - Ghun groo) as an	4	4	12	Avg. body weight at 7 months (Male=33kg Female=39kg Mortality = 0%	Body weight at 7 months (Male =27kg Female=30kg	18.18 23.07	Age at sexual maturity and weight at market age	Age at sexual maturity and weight at market age										Ongoing

			IFS component																	
3	Piggery	Breed introduction	Livelihood security of tribal farmers by introducing Cross bred Hampshire Pig Farming a component of IFS	3	3	9	Avg. body weight at 8 months (Male=39 kg Female=44kg Mortality = 0%	Body weight at 7 months (Male =27kg Female=30 kg	18.18 23.07	Age at sexual maturity and weight at market age	Age at sexual maturity and weight at market age									Ongoing
4	Poultry	Breed introduction	Livelihood security of tribal farmers by intro	15	15	300	Avg. body weight at 6 months of	Avg. body weight at 6 months of age	56.88 49.2	Age at first laying Egg produced	Age at first laying Egg produced									Ongoing

			ducting Dual Purpose Kamrupa Poultry Farming as a component of IFS				age (Male=1.83kg Female=1.36kg Mortality=13.33%	(Male=789g Female=690g Mortality=126.66%		per bird upto 12 months	per bird upto 12 months									
5	Poultry	Breed introduction	Demonstration of <i>Chara cham belli</i> breed of duck under NEH (IARI) component	60	60	300	Ongoing													

**** 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

Sl. No.	Category, e.g. Common carp, ornamental fish etc.	The matric 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		De mo	Chec k	G C **	G R **	N R **	B C R **	GC	GR	N R	BCR	
1.	Seed raising technology	Seed production	Seed raising technology in homestead pond	04	04	1,00,000 nos. of fish fry per ha of water area	Production of carried over seed= 65,000 nos/ha	NA	NA	-	-	67,250.000	3,25,000.000	2,57,750.000	4.8					
2	Popularization of Amur common carp	Pond management	Popularization of Amur common carp	03	03	10,000 nos. fingerling Per ha of water area	Avg. weight: 620 gm Avg. length: 32 cm			-	-	1,86,000.000	5,12,000.000	3,26,000.000	2.75	1,50,000.00	2,88,000.00	1,38,000.000	1.92	

3	Fish cum Duck cum Horticulture Farming	IFS	Fish cum Duck cum Horticulture Farming	03	03	10,000 nos. fingerling Per ha of water area	Fish production: 3100 kg/ha Avg. wt. of duck M= 1.8 kg, F= 1.7 kg	Fish production: 2200 kg/ha	40.91	-	-									2.2	
4	pig cum fish farming system	IFS	pig cum fish farming system	02	02	10,000 nos. fingerling Per ha of water area	Fish production: 3200 kg/ha Avg. wt. of pig M= 35 kg, F= 52 kg	Fish production: 2200 kg/ha	45.45	-	-										
												1,44,416.000	5,25,000.000	3,80,584.000	3.64	1,50,000.00	3,30,000.00	1,80,000.000			

5	Fish cum Duck Farming		Fish cum Duck Farming (TSP)	08	08	8,000 nos. fingerling per ha	Fish production: 3100 kg/ha Avg. wt. of duck M= 1.8 kg, F= 1.7 kg	Fish production: 2200 kg/ha	40.91	-	-				1,44,416.000	5,25,000.000	3,80,584.000	3.64	1,50,000.00	3,30,000.00	1,80,000.000	2.2	
6	Popularization of Amur common carp	Pond management	Popularization of Amur common	07	07	8,000 nos. fingerling per ha	Avg. weight: 620 gm Avg. length: 32cm			-	-				1,86,000.000	5,12,000.000	3,26,000.000	2.75	1,50,000.00	2,88,000.00	1,38,000.000	1.92	

**** 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.

(iv) Other enterprises

Sl. No.	Category/ Enterprise, e.g., mushroom, vermicompost, apiculture etc.	The matric 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		GC**	GR**	NR*	BCR**	GC	GR	NR	BCR			
2.	Ginger	Value addition	Popularization on preparation of ginger product	4	2	-	-	-	Recovery percentage : T1: 60% T2: 65% Taste : T1: 3.7 T2: 4.6 Self life: T1: 3	-	T1: 13 27 90 0 T2: 0 12 35 0.0 0	T1: 13 10 0. 00 T2: 0 19 50 0.0 0	T1: 13 4 00 7 71 50 .0 0	T1: 1.9 4 1.5 7	-	-	-	-	-

									months T2: 6 months										
3	Women friendly tool	Drudgery reduction	Popularization of bamboo paddy stripper for paddy seed selection	6	6	-	-	-	Collection efficiency: 90-95% Capacity: 8 kg/hr Health hazard: no grip pain Farm Women Reaction: it saves time	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Good	

									and energy and easy to oper ate it										
4	Jute	Micr obial cons ortia	Fibre quali ty impr ovem ent in Jute throu gh micr obial rettin g	15	15	-	-	-	Reduction in duration of retting	48 00 0.0 0	14 40 00. 00	96 00 0. 00	3.0	46 00 0.0 0	12 15 00. 00	75 50 0.0 0	2.6	-	

5.	Pickle	Value addition	Empowering women SHGs for proper processing and packaging of locally made pickle	3	3				<u>Demo:</u> Avg. Production/unit= 92 kg No.of packet produced (50g/pkt)=1840 nos. Recovery percentage= 90% Net return= 28500.00 B:C= 2.07
6.	Vermicompost	Organic farming	Production of vermicompost using high density poly	5	5	Date of Start: March 2020			

			bag and earth worm (<i>Eisenia foetida</i>)			
7.	Mushroom	Other beneficial microbes	Production technology of milky mushroom under NEH component	15	5	Ongoing
8.	Apiculture	Other beneficial organisms	Rearing of Indian bee <i>Apis cerena</i> in crop	5	5	Ongoing

			field under NEH component			
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**** 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.

(v) Farm Implements and Machinery:

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

f. Performance of FLD on Crop Hybrids :

Sl. No.	Crop	Name of hybrids	Area (ha.)	No. of farmers	Avg. Yield (Q/ha.)		% increase in Avg. Yield	Additional data on demo. Yield (Q/ha.)		Econ. Of demo. (Rs./Ha.)				Econ. Of check (Rs./Ha.)				
					Demo.	Check		H*	L*	GC**	GR**	NR**	BCR**	GC	GR	NR	BCR	

1	-																			
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*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																	Grand Total (x+y)
	On-Campus (1)	Sp on On * (2)	Total (1+2)	General						SC/ST						Total					
				Male		Female		Total		Male		Female		Total		Male		Female		Total	
				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)	
I. Crop Production																					
Weed Management																					
Resource																					

Conservation Technologies																							
Cropping Systems																							
Crop Diversification																							
Integrated Farming																							
Water management																							
Seed production																							
Nursery management																							
Integrated Crop Management	1	0	1	1	0	3	0	4	0	15	0	9	0	24	0	16	0	12	0	28	0	28	
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 Manageme																						

nt of Orchards																							
Cultivation of Fruit																							
Manageme nt of young plants/orch ards																							
Rejuvenatio n of old orchards																							
Export potential fruits																							
Micro irrigation systems of orchards																							
Plant propagatio n techniques																							
c) Ornamental Plants																							
Nursery Manageme nt																							
Manageme nt 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																					
IV Livestock Production and Management																					
Dairy Management																					
Poultry Management																					
Piggery Management																					
Rabbit Management																					
Disease																					

Management																								
Feed management																								
Production of quality animal products																								
V Community 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: Nil																				
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																				

Managem nt																						
Integrated Disease Managem nt																						
Bio-control of pests and diseases																						
Production of bio control agents and bio pesticides																						
Production technology and value addition of mushroom																						
VIII Fisheries																						
Integrated fish farming																						
Carp breeding and hatchery managem nt																						
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: Nil																																																						
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 developme nt																													
Group dynamics																													
Formation and Manageme nt of SHGs																													
Mobilizatio n of social capital																													
Entreprene urial																													

development of farmers/youths																							
WTO and IPR issues																							
XI Agro-forestry: Nil																							
Production technologies																							
Nursery management																							
Integrated Farming Systems																							
TOTAL	2	0	2	6	0	3	0	9	0	26	0	9	0	35	0	32	0	12	0	44	0	44	

3.3.2. Achievements on Training of <u>Farmers and Farm Women</u> in <u>Off Campus</u> including <u>Sponsored Off Campus</u> Training Programmes (*Sp. Off means Off Campus training programmes sponsored by external agencies)																						
Thematic area	No. of Courses/ prg.			Participants																Grand Total		
	Of	Sp Off *	Total	General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female			Total	
				Off	Sp Off *	Of	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																						
Crop Diversification																						
Integrated Farming																						
Water management																						
Seed production																						
Nursery management																						

Integrated Crop Management	0	5	5	0	59	0	0	0	59	0	62	0	42	0	104	0	121	0	42	0	163	163
	1	0	1	5	0	0	0	5	0	19	0	1	0	20	0	24	0	1	0	25	0	25
	1	0	1	1	0	0	0	1	0	1	0	23	0	24	0	2	0	23	0	25	0	25
	1	0	1	0	0	0	0	0	0	8	0	19	0	27	0	8	0	19	0	27	0	27
	1	0	1	0	0	0	0	0	0	9	0	16	0	25	0	9	0	16	0	25	0	25
	1	0	1	0	0	0	0	0	0	7	0	20	0	27	0	7	0	20	0	27	0	27
	1	0	1	0	0	0	0	0	0	16	0	11	0	27	0	16	0	11	0	27	0	27
Fodder production																						
Production of organic inputs																						
II. Horticulture																						
a) Vegetable Crops																						
Production of low volume and high value crops	1	-	1	6	-	-	-	6	-	-	-	19	-	-	19	6	-	19	-	25	-	25
Off-season vegetables																						
Nursery raising																						

Exotic vegetables like Broccoli																						
Export potential vegetables																						
Grading and standardization																						
Protective cultivation (Green Houses, Shade Net etc.)																						
Scientific Cultivation of winter vegetables	1	-	1	-	-	-	-	-	-	4	-	21	-	25	-	4	-	21	-	25	-	25
b) Fruits																						
Training and Pruning																						
Layout and Management of Orchards																						
Cultivation of Fruit																						
Management of young plants/orchards																						

rds																							
Rejuvenation of old orchards																							
Export potential fruits																							
Micro irrigation systems of orchards																							
Plant propagation techniques																							
Value Addition																							
c) Ornamental Plants																							
Nursery Management																							
Management of potted plants																							
Export potential of ornamental plants																							
Propagation techniques of Ornamental																							

Plants																						
Flower Arrangement																						
d) Plantation crops																						
Production and Management technology	2	-	2	9	-	2	-	11	-	40	-	4	-	44	-	49	-	6	-	55	-	55
Processing and value addition																						
e) Tuber crops																						
Production and Management technology																						
Processing and value addition																						
f) Spices																						
Production and Management technology	2	-	2	-	-	-	-	-	-	44	-	7	-	44	7	44	-	7	-	51	-	51
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	5	0	5	32	0	3	0	35	0	35	0	55	0	90	0	67	0	110	0	125	0	125
Management of Problematic soils																						
Micro nutrient deficiency in																						

crops																						
Nutrient Use Efficiency																						
Soil and Water Testing	1	0	1	0	0	0	0	0	0	17	0	8	0	25	0	17	0	8	0	25	0	25
IV Livestock Production and Management																						
Dairy Management																						
Poultry Management	2	-	2	20	-	2	-	22	-	6	-	22	-	28	-	26	-	24	-	50	-	50
Piggery Management																						
Rabbit Management																						
Disease Management	2	-	2	-	-	2	-	2	-	7	-	46	-	53	-	9	-	46	-	55	-	55
Feed management	1	-	1	10	-	1	-	11	-	18	-	9	-	27	-	28	-	10	-	38	-	38
Production of quality animal products																						
V Community 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	3	0	3	0	0	23	0	23	0	0	0	60	0	60	0	0	0	83	0	83	0	83
Minimization of nutrient loss in processing																						
Gender mainstreaming through SHGs																						
Storage loss minimization techniques																						
Value addition	2	0	2	12	0	10	0	22	0	2	0	26	0	28	0	14	0	36	0	50	0	50
Income generation activities for																						

empowerment of rural Women																						
Location specific drudgery reduction technologies	2	0	2	0	0	0	0	0	0	1	0	51	0	52	0	1	0	51	0	52	0	52
Rural Crafts	1	0	1	0	0	0	0	0	0	0	0	20	0	20	0	0	0	20	0	20	0	20
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																						
Integrated Disease Management																						
Bio-control of pests and diseases																						
Production of bio control agents and bio pesticides																						
Apiculture for self employment	1	0	1	0	0	0	0	0	0	12	0	14	0	26	0	12	0	14	0	26	0	26

Production technology and value addition of mushroom	1	0	1	2	0	0	0	2	0	0	0	23	0	23	0	0	0	23	0	25	0	25
VIII Fisheries																						
Integrated fish farming	03	-	03	-	-	02	-	02	-	35	-	40	-	75	-	35	-	40	-	77	-	77
Carp breeding and hatchery management																						
Carp fry and fingerling rearing	02	-	02	03	-	-	-	03	-	05	-	43	-	48	-	8	-	43	-	51	-	51
Composite fish culture	-	02	02	-	15	-	-	-	15	-	85	-	-	-	85	-	100	-	-	-	100	100
Pond construction and management	02	-	02	02	0	22	-	24	-	15	-	11	-	26	-	17	-	33	-	50	-	50
Breeding and culture of ornamental fishes																						
Portable plastic carp hatchery																						
Pen culture																						

of fish and prawn																						
Shrimp farming																						
Edible oyster farming																						
Disease management	0	-	01	01	-	-	-	01	-	21	-	05	-	26	-	22	-	05	-	27	-	27
Fish processing and value addition	0	-	02	-	-	-	-	-	-	03	-	42	-	45	-	03	-	42	-	45	-	45
IX Production of Inputs at site																						
Seed Production																						
Planting material production																						
Bio-agents production																						
Bio-pesticides production																						
Bio-fertilizer production																						
Vermi-compost production																						
Organic manures																						

production																						
Production of fry and fingerlings																						
Production of Bee-colonies and wax sheets																						
Small tools and implements																						
Production of livestock feed and fodder																						
Production of Fish feed																						
X Capacity Building and Group Dynamics																						
Leadership development																						
Group dynamics																						
Formation and Management of SHGs	1	0	1	11	0	4	0	15	0	0	0	10	0	10	0	15	0	10	0	25	0	25
Marketing																						
Mobilization of social																						

capital																						
Crop insurance																						
Record keeping																						
Entrepreneurial development of farmers/youths	1	0	1	0	0	20	0	20	0	0	0	4	0	4	0	0	0	24	0	24	0	24
WTO and IPR issues																						
XI Agro-forestry																						
Production technologies																						
Nursery management																						
Integrated Farming Systems																						
ICT																						
Use of ICT in Agriculture																						
Any Other (PAramparat cultivation)	0	2	2	0	0	0	0	0	0	0	36	0	18	0	54	0	36	0	18	0	54	54
TOTAL	4	9	54	11	74	9	0	20	74	32	18	63	60	92	26	44	25	76	60	116	31	1477

	5			4		1		5		5	3	0		9	9	3	7	5		0	7	
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(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)																						
Themati c area	No. of Courses/ Prog		Participants																		Gra nd Tota l (x + y)	
	O n (1)	Sp On * (2)	Tot al (1+ 2)	General						SC/ST						Total						
				Male		Femal e		Total		Male		Female		Total		Male		Female		Total		
				O n (4)	S p. O n (5)	O n (6)	S p. O n (7)	On (a= 4+ 6)	Sp. On (b= 5+ 7)	O n (8)	S p. O n (9)	On (1 0)	Sp. On (1 1)	On (c= 8+1 0)	Sp. On (d= 9+1 1)	On (4+ 8)	Sp. On (5+ 9)	On (6+1 0)	Sp. On (7+1 1)	O n (x = a +c)		Sp . O n (y = b +d)
Mushroo m Producti on																						
Bee- keeping																						
Integrate d farming																						
Seed																						

producti on																						
Producti on of organic inputs																						
Integrate d Farming																						
Planting material producti on																						
Vermi- culture																						
Sericultu re																						
Protecte d cultivatio n of vegetable crops																						
Commerc ial fruit producti on																						
Repair and maintena nce of																						

farm machinery and implements																						
Nursery Management of Horticulture crops																						
Training and pruning of orchards																						
Value addition																						
Commercial flower cultivation	1	-	1	-	-	-	-	-	-	12	-	13	-	25	-	12	-	13	-	25	-	25
High value crop cultivation	1	-	1	13	-	7	-	20	-	5	-	-	-	5	-	18	-	7	-	25	-	25
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																						
TOTAL	2	-	2	13	-	7	-	20	-	17	-	13	-	30	-	30	-	20	-	50	-	50

**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		
	Of f	Sp Of f	Total	General						SC/ST						Total							
				Male		Female		Total		Male		Female		Total		Male		Female		Total			
				Of f	Sp Off *	Of f	Sp Off *	Of f	Sp Off *	Off	Sp Off *	Of f	Sp Off *	Of f	Sp Off *	Of f	Sp Off *	Of f	Sp Off *	Of f		Sp Off *	
Mushroom Production																							
Bee-keeping																							
Integrated farming																							
Seed production																							
Production of organic inputs	2	0	2	18	0	2	0	20	0	22	0	8	0	30	0	40	0	10	0	50	0	50	
Integrated Farming																							
Planting material production																							
Vermiculture																							
Sericulture																							
Protected cultivation of																							

vegetable crops																						
Commercial fruit production																						
Commercial flower production																						
Repair and maintenance of farm machinery and implements																						
Nursery Management of Horticulture crops																						
Training and pruning of orchards																						
Value addition	1	0	1	0	0	0	0	0	0	3	0	22	0	25	0	3	0	22	0	25	0	25
Production of quality animal products																						
Dairying	1	-	1	5	-	-	-	5	-	12	-	8	-	20	-	17	-	8	-	25	-	25
Sheep and goat rearing																						

Quail farming																						
Piggery	1	-	1	-	-	-	-	-	-	19	-	8	-	19	8	19	-	8	-	19	8	27
Rabbit farming	1	-	1	10	-	2	-	12	-	12	-	2	-	24	-	22	-	4	-	26	-	26
Poultry production	3	-	3	-	-	-	-	-	-	43	-	37	-	80	-	43	-	37	-	80	-	80
Ornamental fisheries	01	-	01	-	-	-	-	-	-	17	-	08	-	25	-	17	-	08	-	25	-	25
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																						
IFS																						

Small scale processing																							
Income generation activities for empowerment of rural Women	3	0	3	0	0	25	0	25	0	0	0	51	0	51	0	25	0	51	0	76	0	76	
Tailoring and Stitching																							
Rural Crafts	3	0	3	0	0	0	0	0	0	4	0	71	0	75	0	4	0	75	0	75	0	75	
TOTAL	16	0	16	33	0	29	0	62	0	132	0	215	0	349	8	190	0	223	0	401	8	409	

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)				
	On (1)	Sp On* (2)	Total (1+2)	General						SC/ST						Total								
				Male		Female		Total		Male		Female		Total		Male		Female			Total			
				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																					
Low cost and nutrient efficient diet designing																					
Production and use of organic inputs																					
Gender mainstrea																					

ming through SHGs																					
Total																					

3.3.6. Achievements on Training of <u>Extension Personnel</u> in <u>Off Campus</u> including <u>Sponsored Off Campus</u> Training Programmes (*Sp. Off means Off Campus training programmes sponsored by external agencies)																						
Thematic area	No. of Courses/ prog.			Participants																Grand Total		
	Of f	Sp Off *	Total	General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female			Total	
				Of f	Sp Off *	Of f	Sp Off *	Of f	Sp Off *	Of f	Sp Off *	Of f	Sp Off *	Of f	Sp Off *	Of f	Sp Off *	Of f	Sp Off *		Of f	Sp Off *
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	1	-	1	1	-	12	-	13	-	1	-	9	-	10	-	2	-	21	-	23	-	23

production																						
Household food security																						
Women and Child care																						
Low cost and nutrient efficient diet designing																						
Production and use of organic inputs																						
Gender mainstreaming through SHGs																						
Crop insurance																						
TOTAL	1	-	1	1	-	12	-	13	-	1	-	9	-	10	-	2	-	21	-	23	-	23

Note: Please furnish the details of above training programmes as Annexure 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	Scientific cultivation practices of maize	13/3/20	1	KVK, Udalguri	F/FW	1	3	4	15	9	24	16	12	28

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
Horticulture	Production and Management technology of spice crop	Scientific cultivation of ginger & turmeric	4/6/19-5/6/19	2	Kacharital	PF	0	0	0	20	5	25	20	5	25
	Production and Management technology of plantation crop	Scientific cultivation of Coconut and Arecanut	25/6/19 - 26/6/19	2	Kukurakata, Kalaigaon	PF	8	2	10	11	4	15	19	6	25

	Production and Management technology of spice crop	Scientific cultivation practices of ginger and turmeric	2/9/19-3/9/19	2	Mazbat	PF	0	0	0	24	2	26	24	2	26
	Production and Management technology of plantation crop	Scientific cultivation of Coconut and Arecanut	4/9/19-5/9/19	2	Singribari No. 2	PF	1	0	1	29	0	29	30	0	30
	Exotic vegetable cultivation	Scientific cultivation Practices of Broccoli	14/10/19	1	Lailonpara	PF, FW	6	0	6	0	19	19	6	19	25
	Production and Management technology of winter vegetables	Scientific cultivation of winter vegetables	1/11/19 - 2/11/19	2	Kacharital	PF, FW	0	0	0	4	21	25	4	21	25
	ICM	Integrated crop management of green gram	1/9/19	1	Mazbat	PF	5	0	5	11	0	11	16	0	16

	Commercial cultivation	Commercial cultivation of flowers	13/3/20 - 14/3/20	1	Chanbari	RY	0	0	0	12	13	25	12	13	25
	High value crop cultivation	Scientific cultivation practices of Strawberry for Assam Condition	15/3/20	1	Mazbat	RY	17	3	20	5	0	5	22	3	25
Community Science	Designing and development for high nutrient efficiency diet	Nutrification of traditional recipes	02/7/19 - 03/7/19	2	Kacharital	F/FW	0	0	0	0	25	25	0	25	25
			09/7/19 - 10/7/19	2	PuroniTangla	F/FW	0	0	0	0	25	25	0	25	25
			16/10/19 - 17/10/19	2	Mazbat	F/FW	0	23	0	10	10	0	33	33	
	Location specific drudgery reduction technologies	Drudgery reduction through work simplification	04/9/19	1	Kacharital	F/FW	0	0	0	0	26	26	0	26	26
			16/9/19	1	Nalkhamra	F/FW	0	0	0	1	25	26	1	25	26
	Value addition	Processing and preservation of fruits and vegetables	10/9/19 - 14/9/19	5	Mougaon	RY	0	0	0	3	22	25	3	22	25
		Value addition of seasonal fruits and vegetables	24/9/19 - 27/9/19	4	Teliapara	F/FW	12	10	22	2	1	3	14	11	25

			23/10/19-26/10/19	4	Chanbari	F/FW	0	0	0	0	25	25	0	25	25
	Rural Crafts	Bamboo based table mat making	12/3/2020-13/3/2020	2	Kacharital	F/FW	0	0	0	0	20	20	0	20	20
	Income generation activities for empowerment of rural Women	Design and development of jute based product	18/3/2020-24/3/2020	7	BorTangla	RY	0	0	0	0	25	25	0	25	25
	Rural Crafts	Artificial flower making	18/9/19-19/9/19	2	Gelabil	RY	0	0	0	4	21	25	4	21	25
26/12/19-27/12/19			2	Purondia	RY	0	0	0	0	25	25	0	25	25	
Value addition of fabric through dyeing printing and embroidery		02/3/2020-04/3/2020	3	Makelikan da	RY	0	0	0	0	25	25	0	25	25	
Plant Protection	Mushroom	Year round production technology and value	3.3.2020	1	Nalkhamra	F/FW	2	0	2	0	23	23	2	23	25

		addition of mushroom													
Plant Protection	Apiculture	Apiculture for self employment	13.3.2020	1	Lailangpara	F/FW	0	0	0	12	14	26	12	14	26
Soil Science	Soil testing	Soil testing for management of soil health and sustainable crop productivity	29 June 2019	1	Kacharital	F/FW	0	0	0	17	8	25	17	8	25
Soil Science	ICM	Scientific cultivation of Sesamum under CFLD	22 July 2019	1	Bhergaon	F/FW	0	0	0	24	1	25	25	0	25
Soil Science	ICM	Scientific cultivation of Sesamum under CFLD	31 July 2019	1	Teliapara	F/FW	23	0	23	2	0	2	25	0	25
Soil Science	ICM	Scientific cultivation of Blackgram under CFLD	02 September 2019	1	Majbat	F/FW	0	0	0	10	15	25	10	15	25
Soil Science	Organic farming	Organic farming	03 - 04 September 2019	2	Majbat	F/FW	0	0	0	20	5	25	20	5	25
Soil Science	Production and use of organic inputs	Vermicompost production technology	13 September 2019	1	Deurigaon	F/FW	5	0	5	0	20	20	5	20	25
Soil Science	Production and use of organic inputs	Vermicompost production technology	16 September 2019	1	Bangbari	F/FW	2	0	2	7	16	23	9	16	25

Soil Science	Production and use of organic inputs	Homestead Azolla cultivation	26/12/19	1	Nalkhamra	RY	9	1	10	11	4	15	20	5	25
Soil Science	Production and use of organic inputs	Vermicompost production technology	28 December 2019	1	Rowta	F/FW	1	0	1	13	11	24	14	11	25
Soil Science	Paramparagat cultivation	Training under PKVY (Pumkin)	30/12/19	1	Bhergaon	RY	0	0	0	19	16	25	19	16	25
Soil Science	Production and use of organic inputs	Vermicompost production technology	07/01/2020	1	Bangbari	F/FW	22	3	25	0	0	0	22	3	25
Soil Science	Production and use of organic inputs	Homestead Azolla Cultivation	24/02/20	1	Lalpool	RY	9	1	10	11	4	15	20	5	25
Soil Science	ICM	Scientific Cultivation of Toria under CFLD	15/11/19	1	Teliapara	F/FW	18	0	18	7	0	7	25	0	25
Soil Science	ICM	Scientific Cultivation of Toria under CFLD	19/11/20	1	Nalkhama ra	F/FW	8	0	8	17	0	17	25	0	25
Soil Science	Paramparagat Cultivation	Cultivation of Toria under PKVY	18/11/19	1	Bhergaon	F/FW	0	0	0	17	4	21	17	4	21
Agronomy	ICM	Scientific cultivation practices of rapeseed and mustard	12/9/19	1	Deorigaon	F/FW	0	0	0	16	11	27	16	11	27

Agronomy	ICM	Scientific cultivation practices of rapeseed and mustard	13/9/19	1	Deorigaon	F/FW	0	0	0	7	20	27	7	20	27
Agronomy	ICM	Scientific cultivation practices of potato	18/9/19	1	Kacharital	F/FW	0	0	0	9	16	25	9	16	25
Agronomy	ICM	Scientific cultivation practices of potato	19/9/19	1	Kacharital	F/FW	0	0	0	8	19	27	8	19	27
Agronomy	ICM	Scientific cultivation practices of Mustard	5/2/2020	1	Sapkhaity	F/FW	1	0	1	1	23	24	2	23	25
Agronomy	ICM	Scientific cultivation practices of Ahu rice	14/2/2020	1	Kacharital	F/FW	5	0	5	19	1	20	5	20	25
Animal science	Rabbit management	Rabbit production and Management	17/7/2019	1	Kukurakata	RY	10	2	12	12	2	14	22	4	26
Animal science	Poultry management	Duck rearing and management in Backyard system	29/6/2019	1	Mazkhuti	PF	0	0	0	4	21	25	4	21	25
Animal science	Poultry management	Training on Backyard poultry farming	19/6/2019	1	Kacharital	RY	0	0	0	23	2	25	23	2	25
Animal science	Poultry management	Diseases of poultry & their preventive measures	30/7/19 and 1/8/19	2	Ambagao n	PF	0	2	2	0	23	23	0	25	25
Animal science	Dairy	Diseases of livestock & their prevention	7/8/19 and	2	Bhergaon	PF	0	0	0	7	23	30	7	23	30

		and control measures	8/8/19												
Animal science	Poultry management	Commercial Broiler farming	10.8.19	1	Bhergaon	RY	0	0	0	13	17	30	13	17	30
Animal science	Dairy management	Recent advances in veterinary Science	22/8/19	1	ASRLM, Mazbat	EF	1	12	13	1	9	10	2	21	23
Animal science	Poultry management	Scientific rearing of improved poultry for egg production at village level	12/9/2019 and 13/9/2019	2	Deurigaon	RY	0	0	0	7	18	25	7	18	25
Animal science	Poultry management	Scientific rearing of duck as Integrated farming system	7/1/2020 and 8/1/2020	2	Teliapara	PF	20	2	22	2	1	3	22	3	25
Animal science	Fodder production and Management	Year round fodder production for better milk production in dairy cattle	28/1/2020 and 29/1/2020	2	Nalkhama ra	PF	10	1	11	18	9	27	28	10	38
Fisheries	Integrated farming system	Integrated paddy cum fish culture	16 July 2019	1 day	Kacharital	PF	0	0	0	16	9	25	16	9	25
Fisheries	Seed production	Rearing of fish seed in backyard pond for income generation	20 July 2019	1 day	Mazkhuti	PF	0	0	0	4	21	25	4	21	25
Fisheries	Seed production	Advanced fry and fingerling production of carps in ponds	12 September 2019	1 day	Lailonpara	PF	3	0	3	1	22	23	4	22	26
Fisheries	Integrated farming	Integrated fish cum Poultry farming	28 September	1 day	Bhuyankhat	FW	0	2	2	0	24	24	0	26	26

	system		er 2019												
Fisherie s	Integrate d farming system	Integrated fish cum duck farming system	03 October 2019	1 day	Pokibari	PF	0	0	0	1 9	7	26	19	7	26
Fisherie s	Pond managem ent	Fish pond construction & its management	15 October 2019	1 day	Mazbat Dev. Block	FW	0	2 2	22	0	4	4	0	26	26
Fisherie s		Construction and maintenance of Aquarium	24 October 2019	1 day	Kaijamati	RY	0	0	0	1 7	8	25	17	8	25
Fisherie s	Disease managem ent	Fish diseases and their management	30 January 2020	1 day	Udalguri	PF	1	0	1	2 1	5	26	22	5	27
Fisherie s	Composit e fish farming	Composite fish culture under CMSGUY	20 -24 January 2020	5 days	DFDO, Udalguri	PF	5	0	5	4 5	0	45	50	0	50
Fisherie s	Composit e fish farming	Composite fish culture under CMSGUY	03 -07 February 2020	5 days	SDO Civil, Bregaon	PF	10	0	10	4 0	0	40	50	0	50
Fisherie s	Value addition	Hands on training on Construction & operation of solar tent dryer	12 March 2020	1 day	Chanbari	FW	0	0	0	0	25	25	0	25	25
Agril. Econ & FM	FPO	Foration and management of farmers producers company	17/7/19 - 18/7/19	2 days	Chanbari	PF	11	4	15	0	10	10	11	14	25
	Income generatio n activities	Entrepreneurship development through processing of minor fruits	10/9/19 - 14/9/19	5 days	Bhuyankh at	RY	0	2 5	25	0	1	1	0	26	26

		Jute based product development	19/9/19 - 23/9/19	5 days	Chanbari	RY	0	0	0	0	25	25	0	25	25
		Strengthening and promotion of women SHGs through low cost handmade decor items	24/9/19 - 28/9/19	5 days	Teliapara	FW	0	4	4	0	20	20	0	24	24

(D) Vocational training programmes for Farmers, Farm Women

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			Type of enterprise ventured into	Number of units	Number of persons employed	Avg. Annual income in Rs. generated through the enterprise	
					M	F	T	M	F	T	M	F	T					
Fisheries	26 -29 November 2019	4 days	Value addition	Fish product development and value addition	0	0	0	3	17	20	3	17	20	Value addition of fish	1	5	Ongoing	No
Fisheries	17-22 February 2020	5 days	Pond management	Vocational training on scientific method	2	0	2	15	7	22	17	7	24	Scientific fish production	1	5	Ongoing	No

				of aquaculture practices and its management										technology				
Different types of Compost	18-22/02/20	5	Bhergaon	Production of different types of Compost	2	0	2	15	8	23	17	8	25	Vermicompost production technology	3	5	Ongoing	-
Piggery	17/10/19 to 23/10/19	7	Piggery for self employment	Scientific pig farming for self-employment	-	-	-	19	8	27	19	8	27	Housing of pigs	4	4	Just started	No
Dairy	18/3/2020 to 22/3/2020	5	scientific rearing of dairy cattle	scientific rearing of dairy cattle for	5	-	5	12	8	20	17	8	25	-	-	-	-	-

				impro ed Product ion															
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*training title should specify the major technology /skill transferred

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

On/Off/Vocational	Beneficiary group (F/FW/R/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	F/FW	22 July 2019	1	Soil Science	Bhergaon	Scientific cultivation of Sesamum under CFLD	0	0	0	2	1	2	2	0	2	NMOOP	
Off	F/FW	31 July 2019	1	Soil Science	Teliapara	Scientific cultivation of Sesamum under CFLD	2	0	2	2	0	2	2	0	2	NMOOP	
Off	F/FW	02 September 2019	1	Soil Science	Majbat	Scientific cultivation of Blackgram under CFLD	0	0	0	1	1	2	1	1	2	NFSM	
Off	F/FW	30/12/19	1	Soil Science	Bhergaon	Training under PKVY (Pumkin)	0	0	0	1	1	2	1	1	2	PKVY	
Off	F/FW	15/11/19	1	Soil Science	Teliapara	Scientific Cultivation of Toria under CFLD	1	0	1	9	0	9	2	0	2	NMOOP	

Off	F/FW	19/11/20	1	Soil Science	Nalkhama	Scientific Cultivation of Toria under CFLD	8	0	8	1	0	1	2	0	2	NMOOP	
Off	F/FW	18/11/19	1	Soil Science	Bhergaon	Cultivation of Toria under PKVY	0	0	0	1	2	1	1	2	1	PKVY	
Off	F/FW	1/9/19	1	Horticulture	Majbat	Integrated crop management of greengram	5	0	5	1	0	1	1	0	1	NFSM	
Off	F	20 -24 January 2020	5 days	Fisheries	Composite fish farming	Composite fish culture	5	0	5	4	0	4	5	0	5	Department of	1,12,500
Off	F	03 -07 February 2020	5 days	Fisheries	Composite fish farming	Composite fish culture	1	0	1	4	0	4	5	0	5	Department of	1,12,500

3.4. Extension Activities (including activities of FLD programmes) (Please mention specific Extension Activity conducted by the KVK such as Field Day, KisanMela, Exhibition, Diagnostic Visit, etc) during 2019-20

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	Agronomy, Horticulture, Plant Protection, Soil Science, Animal Science, Fisheries Science, Community Science, Agril. Economics etc	Round the year	1370	210	320	530	450	348	798	10	2	12	670	700	1370
2.	Diagnostic visit	Different diseases and management of livestock and poultry, pest and disease management of field crops	Round the year	151	23	49	72	27	52	79	0	0	0	50	101	151

		and vegetable crops, fish mortality and low production, fertility management etc														
3.	Field day	Scientific cultivation of Toria	30/01/2020	1	0	0	0	18	0	18	0	0	0	18	0	18
		Fish seed raising technology	03/01/2020	1	0	0	0	20	0	20	0	0	0	20	0	20
		Field day on Potato cultivation	29/01/2020	1	0	0	0	16	1	17	0	0	0	16	1	17
4.	Group Discussion	Disease management in piggery	03/07/2019	1	0	0	0	4	6	10	0	0	0	4	6	10
		Disease management in poultry	06/07/2019	1	0	0	0	5	6	11	0	0	0	5	6	11
5.	KishanGosthi	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	KishanMela	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.	Film show	Webcasting on Vaccination and Artificial	11/09/2019 28/01/2020 22/10/2019	3	18	28	46	22	78	100	10	0	10	50	106	156

		Insemination (AI), FMD & Brucellosis, International Potato Conference, Fertilizer Application Awareness Programme															
7.	SHG formation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8.	Exhibition	State Level Farmers Fair at Kahikuchi, AAU	26 & 27 /02/2020	5	1475	785	2260	1788	2127	3915	1616	509	2125	4879	3421	8300	
		Bodoland Farmers Fair, BTC, Boroma, Baksa	9-11/01/2020														
		Mushroom Day, Kahikuchi,	9-11/01/2020														
		Exhibition on QRT team visit to KVK, Kamrup	7/11/2019														
		CAU,	11-														

		Regional Agri Fair	13/11/2019													
9.	Scientists visit to farmers fields	Agronomy, Horticulture, Plant Protection, Soil Science, Animal Science, Fisheries Science, Community Science, Agril. Economics etc	Round the year		23	30	53	27	66	93	0	0	0	50	96	146
10.	Plant/ Animal Health camp	Vaccination and Artificial Insemination (AI), FMD & Brucellosis	11/09/2019		18	28	46	22	78	100	10	0	10	50	106	156
11.	Farm science club	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12.	Ex-trainee Sammelan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13.	Farmers seminar/ workshop	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14.	Method	Application of	03/07/2019	7	0	0	0	1	7	8	0	0	0	1	7	8

demonstration	Biofertilizer as Rice seedling root dip treatment														
	Application of KSB as Rice seedling root dip treatment in Darrinipara	06/07/2019	2	0	2	2	0	2	0	0	0	4	0	4	
	Application of Biofertilizer as seedling root dip treatment IN Scented Joha Rice	18/07/2019	0	0	0	8	0	8	0	0	0	8	0	8	
	Application of KSB as Rice seedling root dip treatment in Bhergaon	07/07/2019	0	0	0	5	0	5	0	0	0	5	0	5	
	Seed treatment of Blackgram with rhizobium	02/09/2019	0	0	0	20	5	25	0	0	0	20	5	25	
	Seed treatment of	02/09/2019	0	0	0	24	2	26	0	0	0	24	2	26	

		Greengram with rhizobium														
		Construction of Solar tent drier	12/03/2020		0	0	0	0	25	0	0	0	0	0	25	25
15.	Celebration of important days	International Women's Day	08/03/2020	10	185	61	246	89	139	228	15	1	16	289	201	490
		Celebration of Gandhi Jayanti	02/10/2019													
		National Unity Day	31/10/2019													
		World Food Day	16/10/2019													
		International Yoga Day	21/06/2019													
		World environment Day	05/06/2019													
		Mahila Kisaan Diwas	15/10/2019													
		World Soil Day	05/12/2019													
		Constitution Day	26/11/2019													
		Agriculture Education Day	03/12/2019													

16.	Exposure visits	Fish Farming	06/02/2020	7	0	0	0	25	25	50	0	0	0	25	25	50
		Exposure visit on Fisheries	23/01/2020		0	0	0	25	25	50	0	0	0	25	25	50
		Exposure visit of farmers of Udalguri district to AAU, C.V.Sc. and Poultry Expo	18/10/2019		0	0	0	26	21	47	0	0	0	26	21	47
		IFS demonstration farm to AAU, C.V.Sc. under TSP	02/05/2019 to 03/05/2019		0	0	0	30	0	30	0	0	0	30	0	30
		State Level Farmers Fair at Kahikuchi, AAU	26/02/2020		10	0	10	40	0	40	0	0	0	50	0	50
		Mushroom Day, Kahikuchi,	11/01/2020		0	0	0	5	0	5	0	0	0	5	0	5
		Bodoland Farmers Fair, BTC, Boroma, Baksa	9/01/2020		7	0	7	43	0	43	0	0	0	50	0	50
17.	Electronic	Vermicompost	03/12/2019	1	16	0	16	8	9	17	11	6	17	35	15	50

	media (CD/DVD)	Production															
18.	Extension literature	-	Year round	7	-	-	-	-	-	-	-	-	-	-	-	-	Mass
19.	Newspaper coverage	-	Year round	5	-	-	-	-	-	-	-	-	-	-	-	-	Mass
20.	Popular articles	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21.	Radio talk	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22.	TV talk	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23.	Training manual	Training Manual on Commercial cultivation of Banana	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100
24.	Soil health camp	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25.	Awareness camp	PCRA, Fertilizer Application Awareness Programme, Large Scale Plantation Programme	13/02/2020 22/10/2019 17/09/2020 01/11/2019 13/11/2019 14/11/2019 18/02/2020 22/02/2020 07/03/2020	9													
					28	12	40	254	267	521	15	0	15	297	279	576	

26.	Lecture delivered as resource person	Fertility management of Soyabean	21/1/2020	1	10	10	20	20	20	40	0	0	0	30	30	60
		Soyabean as livestock feed	21/1/2020	1	10	10	20	20	20	40	0	0	0	30	30	60
		Cultivation practices of soyabean	21/1/2020	1	10	10	20	20	20	40	0	0	0	30	30	60
		Plant protection measures on soyabean cultivation	21/1/2020	1	10	10	20	20	20	40	0	0	0	30	30	60
		Value addition on soyabean products	21/1/2020	1	10	10	20	20	20	40	0	0	0	30	30	60
		Fertility management of Soyabean	23/1/2020	1	20	5	25	30	5	35	0	0	0	50	10	60
		Soyabean as livestock feed	23/1/2020	1	20	5	25	30	5	35	0	0	0	50	10	60
		Cultivation practices of soyabean	23/1/2020	1	20	5	25	30	5	35	0	0	0	50	10	60
		Plant protection measures on	23/1/2020	1	20	5	25	30	5	35	0	0	0	50	10	60

	soyabean cultivation														
	Value addition on soyabean products	23/1/2020	1	20	5	25	30	5	35	0	0	0	50	10	60
	Production of Vermicompost	24/02/2020	1	0	0	0	20	5	25	1	2	3	21	7	28
	Soil health management, Seed production, SRI, Krishi Sakhi	24/09/2019	1	0	3	3	0	20	20	1	0	1	1	23	24
	Scientific Piggery and dairy farming	12/07/2019	1	0	0	0	25	5	30	0	0	0	25	5	30
	Scientific Piggery and dairy farming	21/07/2019	1	5	0	5	25	0	25	0	0	0	30	0	30
	Scientific Piggery and dairy farming	22/07/2019	1	5	0	5	25	0	25	0	0	0	30	0	30
	Challenges and opportunities of pig farming	26/07/2019	1	6	7	13	28	12	40	0	0	0	34	19	53
	Marketing of	28/08/2019	1	4	3	7	30	13	43	0	0	0	34	16	50

	Horticultural products for FPO farmers for <i>Parthenium</i> Awareness														
	Soil health management, Seed production, SRI, Krishi Sakhi	25/09/2019	1	0	5	5	0	20	20	0	0	0	0	25	25
	High Value crop cultivation and post harvest management	28/11/2019	1	20	10	30	65	15	80	0	0	0	85	25	110
	High Value crop cultivation and post harvest	29/11/2019	1	20	10	30	65	15	80	0	0	0	85	25	110
	Scientific aqua culture practices	09/01/2020	1	60	40	100	450	150	700	10	0	10	520	190	710
	Organic	10/01/2020	1	70	30	100	440	160	600	17	0	17	527	190	717

	farming														
	Scientific piggery farming	10/01/2020	1	70	30	100	440	160	600	17	0	17	527	190	717
	Scientific cultivation of Potato	13/01/2020	1	0	0	0	30	10	40	0	0	0	30	10	40
	Animal Bite Management	28/09/2019	1	30	0	0	0	0	0	0	0	0	30	0	30
	Piggery farming	21/08/2019	1	0	0	0	21	13	34	0	0	0	21	13	34
	Piggery farming	12/01/2020	1	15	0	15	45	0	45	0	0	0	60	0	60
	Entrepreneur development through fish farming	07/06/2019	1	0	0	0	80	0	80	0	0	0	80	0	80
	Promising technology for self employment in Udalguri	07/06/2019	1	0	0	0	80	0	80	0	0	0	80	0	80
	Promising technology for self employment in Udalguri	13/06/2019	1	0	0	0	79	0	79	0	0	0	79	0	79

		IFS for self employment	13/06/2019	1	0	0	0	79	0	79	0	0	0	79	0	79
		Fish Farm Construction and its management	01/07/2019	1	20	0	20	10	0	10	0	0	0	30	0	30
		Scientific fish Farming	02/07/2019	1	20	0	20	10	0	10	0	0	0	30	0	30
		Stocking and post stocking management	03/07/2019	1	20	0	20	10	0	10	0	0	0	30	0	30
		Integrated Farming System	06/07/2019	1	20	0	20	10	0	10	0	0	0	30	0	30
		Fish product development and value addition	08/07/2019	1	20	0	20	10	0	10	0	0	0	30	0	30
		Fish Disease Management	11/07/2019	1	20	0	20	10	0	10	0	0	0	30	0	30
27.	PRA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28.	Farmer-Scientist interaction	Zonal Farmers Meet, RARS, N. Lakhimpur	07/12/2019	10	111	56	167	107	83	190	98	45	143	316	184	500
		Large Scale Plantation Programme,	17/09/2019		0	0	0	71	123	194	6	0	6	77	123	200

	Kacharital														
	Fertility Management in Apple Ber	28/06/2019	0	0	0	8	0	8	0	0	0	8	0	8	
	Scientific Cultivation of Toria under CFLD	16/09/2019	2	0	0	5	5	10	0	0	0	5	5	10	
	PKVY Discussion	30/12/2019	0	0	0	17	3	10	0	0	0	17	3	20	
	Fertilizer Application Awareness Programme	22/10/2019	9	7	16	28	47	75	9	0	9	46	54	100	
	Vaccination and Artificial Insemination (AI), FMD & Brucellosis	11/09/2019	18	28	46	22	78	100	10	0	10	50	106	156	
	Benefits of Soil Health Card	05/12/2019	19	0	19	8	17	25	6	0	6	33	17	50	
	International Potato Conference	28/01/2020	18	0	18	7	2	9	3	0	3	28	2	30	
	Scientific Fish Farming,	09/01/2020	200	0	200	295	0	295	5	0	5	500	0	500	

		Bodoland Farmers Fair, BTC, Boroma, Baksa															
29.	Soil test campaign	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30.	MahilaMandal Convener meet	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=	=
31.	Any other (DAMU Agromet Services)	Agromet Advisory bulletin	Tuesday and Friday of every week	504 copies	73	27	100	56	44	100	6	0	6	135	71	206 farmers	
		FAP	6		19	5	24	127	87	214	0	0	0	146	92	238	
Grand Total																	mass

3.5 Production and supply of Technological products during 2019-20

A. SEED MATERIALS

Major group/class	Crop	Variety	Quantity (qt)	Value (Rs.)	Number of recipient/ beneficiaries		
					General	SC/ST	Total
CEREALS	Rice	<i>Ranjit Sub-1</i>	38	1,44,400.00	-	-	-
OILSEEDS	Toria	<i>TS-67</i>	12	1,02,000.00	-	-	-
PULSES							
VEGETABLES							
FLOWER CROPS							
OTHERS (Specify)							
Total			50	2,46,400.00			

A1. SUMMARY of Production and supply of Seed Materials during 2019-20

Sl. No.	Major group/class	Quantity (ton.)	Value (Rs.)	Number of recipient/ beneficiaries		
				General	SC/ST	Total
1	CEREALS	3.8	1,44,400.00	-	-	-
2	OILSEEDS	1.2	1,02,000.00	-	-	-
3	PULSES					
4	VEGETABLES					
5	FLOWER CROPS					
6	OTHERS					
TOTAL		5.0	2,46,400.00	Yet to sale		

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							
Spices							
Ornamental Plants							
VEGETABLES							
Forest Spp.							
Plantation crops							
Medicinal plants							
OTHERS (Pl. Specify)							

B1. SUMMARY of Production and supply of Planting Materials (In Lakh) during 2019-20

Sl. No.	Major group/class	Numbers (In Lakh)	Value (Rs.)	Number of recipient beneficiaries		
				General	SC/ST	Total
1	Fruits					
2	Spices					
3	Ornamental Plants					
4	VEGETABLES					
5	Forest Spp.					
6	Medicinal plants					
7	Plantation crops					
8	OTHERS (Specify)					
TOTAL						

C. Production of Bio-Products during 2019-20: Nil

Major group/class	Product Name	Species	Quantity		Value (Rs.)	Number of Recipient /beneficiaries		
			No	(qt)		General	SC/ST	Total
BIOAGENTS								
BIOFERTILIZERS								
1								
BIO PESTICIDES								
1								

C1. SUMMARY of production of bio-products during 2019-20: Nil

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							
	TOTAL							

D. Production of livestock during 2019-20: Nil

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

D1. SUMMARY of production of livestock during 2019-20: 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 2019-20

(A) KVK News Letter ((Date of start, Periodicity, number of copies distributed etc.): (B) Articles/ Literature developed/published

Item	Title/and Name of Journal	Authors name	Number of copies
Research papers			
1.	Study on adaptability, productive performance, economy and impact of chara chambelli duck in backyard system of rearing at Udalguri district of Assam	D. Bharali. D. Borah, P. Rajbongshi and I. J Dutta	
2.	Study on adaptability, productive performance and constraints of Vanaraja birds in Backyard system of rearing at Udalguri district of Assam, India	D. Bharali. D. Borah, P. Rajbongshi and I. J Dutta	
3.	Analysing impact of improve technologies on technology adoption and profitability of Toria in Udalguri district, <i>Indian Journal of Social Research</i> , vol. 60(6):749-756	P. Deka, D. Borah, S. Barman, P.Bora	
Training manuals	Training manual on Commercial Cultivation of Banana	B. Boruah, Dr. M. Neog, Dr. D. Borah, I. Ojah	100
Technical Report	Action plan, Annual Report, Monthly Report	-	-
Book/ Book Chapter	-	-	-
Popular articles	-	-	-
Technical bulletins	-	-	-
Extension bulletins	-	-	-
Newsletter	-	-	-
Conference/ workshop proceedings	-	-	-
Leaflets/folders	Scientific Cultivation Practices of Rapeseed and Mustard (Reprint)	Dr. D. Borah, Dr. R. Saud, I. Ojah, B. Boruah	300
	Production of Vermicompost (Reprint)	Dr. D. Borah, Dr. R. Saud, I. Ojah	250
	Importance and method of Soil Sample Collection	Dr. D. Borah, I. Ojah	50
	Fertility management and cultivation practices of Apple ber	I. Ojah, B. Boruah, Dr. D. Borah,	50
	Scientific Cultivation of Pea as a pulse Crop	B. Boruah, Dr. D. Borah	
e-publications	-	-	-
Any other (Abstract)	-	-	-
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:

Sl. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number produced
1	-		

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

Usually most of the farmers in the district used to keep the field fallow to the next growing season of *rabi* vegetables. However, fraction of cultivated area was used for growing some traditional and old varieties of Blackgram & Greengram and they followed improper doses of fertilizers, no inter cultural operations and improper plant population measures resulting in low yield. Owing to the diverse agro climatic situations, Udalguri district of Assam is endowed with comparative advantage for growing pulse crops.

The Scientific cultivation of Blackgram using var. PU 31 (NPK@ 10:35:15; Compost @ 1 t/ha; Seed treatment with *Rhizobium* @ 50 g/kg of seeds) was demonstrated. Under the NFSM project a total of 10 ha of PU 31 were demonstrated in cluster basis in the year 2019-20. For the demonstration of the technology KVK has provided inputs like blackgram var. PU 31 along with the *Rhizobium* culture for seed treatment, vermicompost and plant protection chemicals. Regular services are also provided to the farmers to solve their day to day problems and have feedback and monitoring.

The average yield was 9.2 q/ha and the net return obtained from cultivating per ha of blackgram was Rs. 21500 with a B:C ratio 1.87. It was found that majority of the participant farmers in the programme had full adoption of improved practices viz., land preparation, use of high yielding varieties, sowing time and application of manures and fertilizers. The farmers have also packed the produce and will sell in the local market as seed for the next season. The area under this variety has now spread significantly covering a majority of (area approx. 20 ha) and expected to show further horizontal increase in the next season.

Performance of technology:

Specific Technology	Yield (q/ha)	Gross cost (Rs/ha)	Gross income (Rs/ha)	Net income (Rs/ha)	B:C ratio
Farmer practices	6.9	22350	34500	12150	1.54
Demonstration	9.2	24500	46000	21500	1.87
% Increase	33.33	-	-	-	-

Quality Photographs



Training under CFLD



Method Demonstration on Seed treatment of Blackgram



Black gram cultivation under CFLD



Black gram cultivation under CFLD

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

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			

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

- Identification of courses for farmers/farm women: PRA
- Rural Youth: PRA
- Extension personnel: Discussion with line departments
-

3.11 Field activities

- i. Number of villages adopted :22
- ii. No. of farm families selected :320
- iii. No. of survey/PRA conducted : Nil

3.12. Activities of Soil and Water Testing

Status of establishment of Lab :

1. Year of establishment :
2. List of equipments purchased with amount :

Sl. No	Name of the Equipment			Qty.	Cost
	S&WT lab	Mini lab/ Mridaparikshak	Manufacturer		
1	-	Mridapariksha	-	2	-
Total-	-		-	2	-

3. Details of samples analyzed (2019-20) :

Details	No. of Samples analysed	No. of Farmers	No. of Villages	Amount (In Rupees) realized
Soil Samples	250	250	32	
Water Sample	-	-	-	
Plant Samples	-	-	-	
Petiole Samples	-	-	-	
Total	250	250	32	

1. Details of Soil Health Cards (SHCs) (2019-20)

- a. No. of SHCs prepared: 250**
- b. No. of farmers to whom SHCs were distributed: 250**
- c. Name of the Major and Minor nutrients analysed: pH, OC, N, P, K, S, Zn, B, Fe**
- d. No. of villages covered: 32**
- e. Soil health card based nutrient management in different crops (pl. submit in brief in separate page):**

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	7	18640	2	6180	8	24720	6	18540	6	18540	5	15550	33	31100
Voice only														
Voice and Text both														
Total	7	18640	2	6180	8	24720	6	18540	6	18540	5	15550	33	31100

3.14 Contingency planning for 2019-20

1.

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	4.0	10	5	15
	Distribution of seeds and planting materials	500 nos.	20	80	100
Sudden outbreak of swarming caterpillar	Awareness programme and management practices	5 activities	100	200	300

a. 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

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

Name of specific technology/skill transferred	No. of participant s	% of adopti on	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Integrated crop management of Pea using Var: Prakash	50	80%	14480/ha	27520/ha
Integrated fish cum livestock farming system	12	80%	140000/ha	266000/ha
Vermicompost production technology	20	70%	Nil	7885/bag
INM in <i>Sali</i> rice var. <i>Ranjit</i>	10	70	41500.00	49900.00
T- perch as resting sites for predatory insectivorous birds in rice fields as a component of IPM	3	60	16284.00	31090.00
Integrated weed management in Chilli (1. Pre emergence application of Pendimethalin @ 1.5kg/ha + hand weeding at 35DAT, 2. Garden hoeing at 20 & 40 DAT)	3	60	47120.00	72152.00

Popularization of HYV of turmeric var. Megha Turmeric-1	13	60	230400.00	372200.00
Introduction of improved breed <i>Kamrupa</i>	67	30	400/bird	635/bird
Introduction of improved breed Japanese quail	50	100%	-	250/bird
Production technology of Oyster mushroom	48	70	0	4270.00
Scientific species ratio and combination in composite fish farming	3	40	180000.00	383400.00

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

4.2. Cases of large scale adoption

1. **IFS** has been popularized through training and FLD and more than 200 farmers adopted the same particularly in Bhergaon, Udalguri and Rowta area.
2. **Turmeric:** High yielding Turmeric var. Megha Turmeric-1 has been introduced in the district through trainings FLD, OFT, TSP and under NEH component programme by KVK, Udalguri. Day by day the variety is getting more popular among the farmers of the district. More than 120 ha of area is now under this variety of Turmeric. The KVK has taken many programmers with farmers of ABAD (FPC) for production of quality planting material of this variety organically. The FPC is also producing turmeric powder and selling it on their organic outlet at Tangla. Due to high yield, the farmers of the Udalguri district are adopting the variety quickly. The crop and the variety is getting more popularity among the tribal farmers of the district.
3. **Cultivation of Rice – followed by Toria** – due to use of long duration rice varieties and various other problems farmers generally grow rice as monocropping. KVK has introduced late sown toria variety TS 46, TS-47 etc through OFT, FLD, CFLDs,

which can be grown after harvesting long duration rice and the technology is adopted on large scale basis. About 300 plus hacters is covered under the technology of Rice (Kharif) followed by toria.

4. **Vermicomposting as enterprise** – Vermicomposting has been popularized in large scale basis through trainings, FLD and TSP demonstrations. Presently about 30 farmers of village Nalkhamra has established a unit named as and they are selling the products. Hundreds of farmers of different part of the district has already started vermicomposting. It also boost up organic cultivation in the district.

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

5.0. LINKAGES ESTABLISHED

5.1 Functional linkage with different organizations

Sl.	Name of organization	Nature of linkage
1.	RSETI, SBI Udalguri	Training-Demonstration
2.	Udalguri Farmer's Society	Farmer's scientist interaction – Advisory services- Demonstration-OFT
3.	NABARD	Awareness programme- External Funding
4.	ATMA, Udalguri	Training-Farmer's scientist interaction
5.	KASS and NASS, Udalguri	Training-Demonstration-Field visit
6.	Department of Agriculture, Udalguri	Training-Field Day-Field visit
7.	ASSCA, Udalguri	Seed Certification
8.	NGO	Training-Demonstration
9.	Indian Army 159 field Regiment	Farmers-scientist Interaction, training
10	Department of Fisheries, Udalguri	In planning activities/ collaborative activities
11	Department of Sericulture, Udalguri	In planning activities/ collaborative activities
12	Department of Veterinary, Udalguri	In planning activities/ collaborative activities
13	LDM, SBI, Udalguri	In planning activities/ collaborative activities
14	Soil Conservation Office, Udalguri	In planning activities/ collaborative activities
15	DRDA, Udalguri	In planning activities/ collaborative activities
16	National Fisheries Development Board	Training-Farmer's scientist interaction
17	Food Civil Supply & Consumer Affairs	In planning activities/ collaborative activities
18	DICC, Udalguri	In planning activities/ collaborative activities
19	ABAD Agro Pro. Co. Ltd., Udalguri	Training-Field Day-Field visit
20	Daobariary Organic Grower Scoety, Udalguri	Farmers Scientist Interaction, Training, Field Visit
21	Jagaran NGO, Kacharitol	Farmers Scientist Interaction, Training, Field Visit
22	ADWR, NGO, Udalguri	Farmers Scientist Interaction, Training, Field Visit

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 2019-20

Name of the scheme	Activity	Date/ Month of initiation	Funding agency	Amount (Rs.)
PCRA workshop	Awareness programme	13.2.20	Petroleum Conservation Research Association, Ministry of Petroleum & Natural Gas, Govt. of India, Guwahati.	8300.00
Composite fish farming	Training (2 nos.)	20-24 January, 2020 & 03-07 February, 2020	Depart of fisheries, Govt. of Assam	2,25,000.00
Fertilizer Application Awareness Programme	Awareness programme	22/10/2019	DAC&FW, GoI	50000.00
National Animal Disease control programme for FMD and Brucellosis and National Artificial insemination Programme	Vaccination and webcasting	11/9/19	MoA&FW	15000.00
Large scale tree plantation programme	Tree plantation	17/11/19	DAC & FW	10000.00

5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district Yes

Sl. No.	Programme	Nature of linkage	Remarks
1.			

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

S. No.	Programme	Nature of linkage	Remarks
1.			

6. PERFORMANCE OF INFRASTRUCTURE IN KVK DURING 2019-20

6.1 Performance of demonstration units (other than instructional farm): No infrastructure available

Sl. No.	Demo Unit	Year of estd.	Area	Details of production			Amount (Rs.)		Remarks
				Variety	Product	Qty.	Cost of inputs	Gross income	

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	03.06.2019	04.11.2019	2	Ranjit Sub 1	Foundation Seed	38 q	84450.00	144400.00	
Wheat									
Maize									
Any other									
Hybrid Napier	17.04.2017	21.05.2019	0.015		Setts	19000	2897.00	19000.00	
Setaria	17.04.2017	-	0.015		Slip	10000	2897.00	10000.00	
Malbhog Banana	30.07.2017	-	0.03		Sucker	300	17252.00	600.00	

Pulses									
Green gram (Participatory mode in farmers field)	25.08.201 9	05.12.201 9	10.0	SGC- 16	Certified seed	50.0	-	-	
Black gram (Participatory mode in farmers field)	05-09- 2019	20-11- 2019	10	PU- 31	Certified seed	15.0	-	-	
Arhar									
Lentil									
Any other									
Oilseeds									
Mustard/Tori a	11.11.201 9	10.02.202 0	2	TS- 67	Certified Seed	12 q	64000.00	102000.0 0	
Toria (Participatory mode in farmers field)									
Groundnut									

Any other									
Fibers									
i.									
ii.									
Spices & Plantation crops									
i.									
ii.									
Floriculture									
i.									
ii.									
Fruits									
i.									
ii.									
Vegetables									
i.									
ii.									

a. Others (specify) Fish fingerling produced									
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.	Vermiworm	6 kg	8800.00	12000.00	
2.	Vermicompost	22.5 q		27000.00	

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

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed/species	Type of Product	Qty.	Cost of inputs	Gross income	
1	Poultry	Vencobb	Meat	476.25	95400.00	40680.00	
2	Poultry	Rainbow	Meat	81.6 kg		12240.00	

6.5 Rainwater Harvesting

Training programmes conducted by using Rainwater Harvesting Demonstration

Unit: Nil

Date	Title of the training course	Client (PF/RV/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 19-20: Nil

Accommodation available (No. of beds) :

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	Rowta	10253820770
With KVK	State bank of India	Rowta	33659377112
With KVK	State bank of India	Rowta	38366595217
Revolving Fund	State bank of India	Rowta	33863400752

7.2 Utilization of funds under FLD on Maize (Rs. In Lakhs) if applicable - NA

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

7.3 Utilization of KVK funds during the year 2019-20

S. No.	Particulars	Sanctioned (in Lakh)	Released (in Lakh)	Expenditure (in Lakh)
A. Recurring Contingencies				
1	Pay & Allowances	125.00	125.00	140.90318
2	Traveling allowances	2.50	2.50	2.49483
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	17.00	17.00	17.00202

<i>H</i>	Maintenance of buildings			
<i>I</i>	Establishment of Soil, Plant & Water Testing Laboratory			
<i>J</i>	Library			
TOTAL (A)		144.50	144.50	160.40
B. Non-Recurring Contingencies				
1	Works	40.00	40.00	-
2	Equipments including SWTL & Furniture	2.00	2.00	-
3	Vehicle (Four wheeler/Two wheeler, please specify)			-
4	Library (Purchase of assets like books & journals)			-
TOTAL (B)		42.00	42.00	-
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)		186.50	186.50	160.40

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

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year
April 2016- March 2017	60,767.00	98,910.00	1,18,228.00	41,449.00
April 2017- March 2018	41,449.00	1,45,862.00	95,033.00	92,278.00
April 2019- March 2020	92,278.00	3,02,718.00	2,32,119.50	1,62,876.50

Note: No KVK must leave this table blank

8.0 Please include information which has not been reflected above - nil

8.1 Constraints

(a) *Administrative*: no office building, no boundary wall, no furniture, no supporting staff, no demonstration units and no training hall

(b) *Financial* :Fund under Recurring contingency head may be increased

(c) *Technical* : More HRD training to scientific staff required



(Signature)
Sr. Scientist cum Head