

ANNUAL REPORT OF KVK UDALGURI, 2017-18

1. GENERAL INFORMATION ABOUT THE KVK

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

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

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, 2018)

S/N	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category
1	Senior Scientist and Head	Dr. Debasish Borah	Sr Scientist & Head	Agronomy	37400-67000+9000	46400	6 th July, 2015	Permanent	Gen
2	Subject Matter Specialist	Pabitra Kr. Saharia	SMS	Fishery Science	15,600-39,100 + 7000	26590	10 th Nov, 2008	Permanent	Gen
3	Subject Matter Specialist	Dr. Dipankar Bharali	SMS	Animal Science	15,600-39,100 + 7000	26590	10 th Nov, 2008	Permanent	Gen
4	Subject Matter Specialist	Britan Rahman	SMS	Soil Science	15,600-39,100 + 7000	24320	29 th Aug 2011	Permanent	Gen
5	Subject Matter Specialist	Sharmistha Borgohain	SMS	Horticulture	15600-39100+5400	21630	30 th Jan, 2014	Permanent	OB C
6	Subject Matter Specialist	Pallavi Deka	SMS	Agril. Economics	15600-39100+5400	21630	01 st Feb, 2014	Permanent	ST
7	Subject Matter	Himadri Rabha	SMS	Pl. Protect	15600-39100+5400	21630	07 th Feb, 2014	Permanent	ST

	Specialist			ion	400				
8	Program me Assistant	Pompy Bora	Prog Assistant	Home Science	8,000-35,000+4900	12900	27 th Oct, 2014	Permane nt	OB C
9	Computer Program mer	Pranabesh Barman	Prog Assistant	Comp uter	8,000-35,000+4900	18360	14 th Nov, 2008	Permane nt	SC
10	Farm Manager	Biswajit Konwar	Farm Manager	Agricu lture	8,000-35,000+4900	12900	8 th Sept 2015	Permane nt	Gen
11	Accounta nt / Superinte ndent	Dhruba Jyoti Sarmah	OSA	Accou nts	8,000-35,000+4900	14110	22 nd Feb, 2012	Permane nt	Gen
12	Stenograp her	Bhaskar Jyoti Saikia	Jr. Steno cum Com Operator		5200-20200+3300		13 th Aug, 2016	Permane nt	Gen
13	Driver	Mithun Biswas	Driver cum Mechanic		5200-20200+2200		1 st Dec, 2016	Permane nt	SC
14	Driver	Vacant							
15	Supportin g staff	Vacant							
16	Supportin g staff	Vacant							
	Total	14							

- 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)	Nil
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: Yet to be constructed

S. No	Name of building	Source of fundin g	Stage						
			Complete			Incomplete			
			Completi on Date	Plint h area (m ²)	Expenditur e (Rs.)	Startin g Date	Plinth area (Sq.m)	Status of constructio n	

1.	Administrative Building	-						Nil
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	-	1,28,803 kms	Running Condition
Mahindra Tractor	AS 03 AC 5953	2012	-	672 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 2017-2018

Sl.no.	Name and Designation of Participants	Salient Recommendations	Action taken on last SAC recommendation
1.	Dr. H.C. Bhattacharyya, DEE, AAU, Jorhat	For demonstration of Toria variety TS-67 site selection should be done alone with DAO and sowing should be done on December. INM toria should not be taken	Cluster based FLD on Production technology of Oyster Mushroom was done covering 6 groups of women and landless farmer at village Dewrigaon and Kacharital. Mr Chokon Boro of the district was sent to KVK Barpeta for 5 days training programme on Spawn production of Oyster Mushroom.
2.	Dr. A. K. Chakrabarty, DR(Vety.), AAU	For cluster mode of Kamrupa bird house suggested replacing the local male with Kamrupa male wherever possible with participation of	CFLD on Toria, Field Pea and Greengram, Blackgram covering a total area of 50 ha in Pulses and 50 ha in oilseed under NFSM and NMOOP

		farmers.	
3.	Dr. R. Bordoloi, Principal Scientist, ATARI, Ghy, Zone-VI	For Organic cultivation, house suggested first to cover 25% area and then increase gradually. Organic seed may be collected from B. Chariali	Cluster based demonstration on Broccoli was done covering an area of 10 bigha at Chanbari under TSP programme
4.	Mr. Abdul Baten, DAO, Udalguri	Malbhog banana which should be surrounded by <i>chenichampa</i> . Awareness camp should be organized for ripening of banana in healthy method	Conducted OFT on poultry breed Kamrupa in cluster basis at Dewrigaon covering 30 nos. farming
5.	Biswajit Deb, DDM, NABARD	Focus on study of horizontal spread of mushroom production	FLD on Broiler Duck and Vanaraja were conducted on cluster basis covering 80 nos. of farmers at Dewrigaon and Kacharital
6.	Subhrajyoti Bhowmick, ADO, Dalgaon	Importance on medicinal plant & product sale to Patanjali or other nearby industry	Conducted FLD in cluster mode at Kacharital on pig bred Rani
7.	Dr. B.K Sarmah, BVO, Mazbat	Pumkin variety Arjuna to Abdul Mannan and advised to plant latest by July.	Demonstration on Banana var. Malbhog was conducted in more than 1 ha at village Botabari
8.	N. Brahma, LDM, Udalguri	Red Rice may be tried in the district if seed is available	One OFT was conducted on INM on Rapeseed var. TS-38 at Aminpara, Lalpool and Jurpukhuri
9.	G.C Kachari, Director, RSETI	House suggested to train 2 to 3 farmers on bio pesticide production at AAU	Vocational training on organic agriculture and production of compost, vermicompost and enriched compost has been completed at village Teliapara & Nakhamara. Training was given to promote INM in Rice and oilseed
10.	Bhabendra Boro, President, KASS, Udalguri	For strawberry study the shelf life of the fruits.	A comparative trial on assessment of Strawberry var. Sweet Charlie with Early Dawn was conducted at village Gersong
11.	Bharati Rabha Deka, Secretary, NASS, Udalguri	Value addition on woven products like girl top, gamosa, handkerchief, sofa cover, dining table cover etc.	OFT on Product diversification and value addition of woven fabric
12.	Nirupa Narzary, CMI, Sericulture	Awareness camp on soil health, human health and crop and livestock insurance in every training.	On farm Trial on Management of viral disease of Bhut Jalakia and Tomato var. Arka Rakshak
13.	Kabita Borah, Farmer	Black pepper demonstration in arecanut	Front Line Demonstration on Summer Marigold followed by Gerbera was

	member	belt	conducted covering an area of 0.03 ha
14.	Abhinash Daimary, President, Udalguri Farmers Society	House suggested for sesame cultivation near apiculture unit	Action taken
15.	Jiron Boro, Working President, KASS, Udalguri	Pickle preparation packaging and labeling is very important	Action taken
16.	Harmohan Deka, member, KASS	-	-
17.	Kamaleswar Boro, President, Daobariary Organic Grower Society, Udalguri	Continue KVK guidance for their society	Regular guidance given to the society
18.	Dhaneswar Rabha, President, Jagaran NGO, Kacharitol	Continue KVK guidance for their village	Regular guidance given to the villagers
19.	Abdul Mannan, Progressive farmer	-	-
20.	Dorendra Boro, Progressive farmer	Continue KVK guidance for their villagers	Number of programmes were taken in their village which is adopted as doubling farmers income village
21.	Bishop Basumatary, Progressive farmer	KVK guidance for his fishery unit	Regular guidance given
22.	Haren Deka, Progressive farmer	Request for help in Banana cultivation	Demonstration on Scientific banana cultivation done.
23.	Lalit Deka, Progressive farmer	KVK guidance for his fishery unit	Regular guidance given

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

2. DETAILS OF DISTRICT

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

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, 2017	275.8	28.7	20.1	82	64
May, 2017	242.4	30.2	22.6	88	65
June, 2017	421.8	31.4	24.7	91	74
July, 2017	378.3	32.4	25.4	91	73
August, 2017	307.1	32.6	25.7	91	75
September, 2017	306.6	32.3	25.1	93	75
October, 2017	137.0	30.8	22.4	92	69
November, 2017	16.8	28.0	15.2	88	53
December, 2017	0.0	25.4	11.7	88	52
January, 2018	0.0	24.2	9.8	87	51
February, 2018	24.6	24.8	13.1	87	51
March, 2018	42.2	26.7	16.5	85	51

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

Note: Pl. provide the appropriate Unit against each enterprise

2.7 Details of Operational area / Villages (2017-18)

Sl. No .	Tal uk/ Ele ka	Name of the block	Name of the village	Major crops & enterpri ses	Major problem identified	Identified thrust area
1		Kalaign on	Kacharit al	Rice, rapeseed, cattle, fishery, piggery	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	Scientific cattle rearing for milk production, Scientific cultivation of cereals, oilseeds, pulses, fibre crops and vegetables
2		Kalaign an	Ojhagao n	Rice, rapeseed, cattle, fishery, piggery	1.Lack of Awareness about improved farm technologies 2.Lack of irrigation facilities 3.Marketing and transportation problem 4.Pest and disease incidence	Rice-Fish farming &Scientific cultivation of cereals, oilseeds, pulses, fibre crops and vegetables
3		Dalgaon	Dewriga on	Rice, rapeseed, cattle, fishery, piggery, poultry	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	Small Scale livestock/poultry farming using improved breed
4		Dalgaon	Sarbaher ua	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,
5		Udalguri	Habigao n	Rice, rapeseed Vegetabl es cattle, Poultry, Buffalo, Goat, Fishery	1.Lack of knowledge about scientific cultivation practices, IPM & IDM of field & vegetable crops 2.Transportaion problem 3. Lack of irrigation facilities 4.Pest and disease incidence	Livestock rearing & scientific cultivation practices of field crops

6		Bechima ri	Panikhai ty	Rice, rapeseed, cattle, vegetable s,	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, Vegetabl es 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, vegetable s, 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		Kalai ga on	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		Kalai ga on	Sintagao n	Rice, rapeseed handcraft s, Handloo m, value addition, cattle, fishery, piggery	1.Wastage of minor fruits due to lack of knowledge about proper value addition 2.Pest and disease problems	Post harvest management of products
11		Borsola	Sapkhait i	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
12		Kalai ga on	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

13		Rowta	Jhargaon	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
14		Dalgaon	Fakidia	Rice, rapeseed, chilli, brinjal, potato, cattle	1. High incidence of weeds in vegetables 2. Judicious use of fertilizer 3. Pest and disease attack	Scientific cultivation of cereals, oilseeds, pulses, fibre crops and vegetables
15		Rowta	Balisiha	Rice, rapeseed, Mushroom, cattle, fishery, piggery	1.lack of knowledge on production technology of mushroom 2.Lack of transportation facilities	Scientific spawn production of mushroom
16		Kalaignon	Kalaignon	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		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
18		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
19		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

20		Pachim Mangaloi	Kuhiarkuchi	Rice, rapeseed, Sugarcan e, Vegetabl es cattle, fishery, piggery	1.Lack of knowledg e about cultivation practices, livestock/poultry farming 2.Transportation and marketing problem 3.Pest and disease incidence	Small Scale piggery farming
21		Dalgaon	Simaluguri	Rice, rapeseed, Sericultu re, Vegetabl es cattle, fishery, piggery	1.Lack of knowledg e about cultivation practices, livestock/poultry farming 2. lack of exposure to market 3.Pest and disease incidence	Weaving in large scale
22		Udalguri	Borigaon	Rice, rapeseed, Pulses, Vegetabl es cattle, piggery	1.Lack of knowledg e 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
23		Mazbat	Kathpuri	Rice, rapeseed, Vegetabl es cattle, Fishery, Minor fruits, orange	1.Lack of knowledg e about scientific cultivation practices of field & vegetable crops 2.Lack of knowledg e on orchard management of orange 3.Pest and disease incidence of Rice	Scientific orchard management and processing of minor fruits
24		Bhergaon	Bhergaon	Rice, Vegetabl es cattle, Fishery, Piggery	1.Poor transportation facilities 2. Lack of knowledg e on scientific fish farming 3. Lack of knowledg e on organic cultivation 3.Pest and disease incidence	Organic cultivation & Scientific fish farming

3. TECHNICAL ACHIEVEMENTS

3. A. Details of target and achievements of mandatory activities by KVK during 2017-18

Discipline	OFT (Technology Assessment and Refinement)				FLD (Oilseeds, Pulses, Maize, Other Crops/Enterprises)			
	Number of OFTs		Number of Farmers		Number of FLDs		Number of Farmers	
	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
Animal Science	2	4	30	76	6	8	140	195
Soil Science	1	1	3	3	4	4	95	96
Horticulture	2	2	4	4	4	6	66	72
Fisheries	4	4	12	12	3	3	20	20
Plant Protection	2	3	10	13	3	4	22	28
Agronomy	1	1	5	5	2	2	10	10
Agril. Econ	2	2	43	43	3	3	195	195
Home Science	2	2	8	8	2	2	8	10
Total	16	19	125	164	27	32	556	626

Training (including sponsored, vocational and other trainings carried under Rainwater Harvesting Unit)					Extension Activities			
3					4			
Number of Courses			Number of Participants		Number of activities		Number of participants	
Clientele	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
Farmers	20	20	500	520	50	51	2500	10979
Rural youth	9	9	225	231				
Extn. Functionaries	4	4	100	101				
Vocational	3	3	75	71				
Total	36	36	900	923	50	51	2500	10979
Seed Production (ton.)					Planting material (Nos. in lakh)			
Target		Achievement		Target		Achievement		
7		3.57		0.08		0.01375		

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

S/ N	Thrust area	Crop/ Enter prise	Identified problems	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Varietal evaluation	Rapeseed	Low yield,	Performance of toria var. TS-67 in rice-toria cropping sequence	-	Scientific cultivation practices of rapeseed and mustard	-	-	Seed, Manures, Plant protectio n chemicals
2	Productio n of organic inputs	Vermi compo st	Non availability of manure in sufficient quantity for organic cultivation		Low cost vermicompost production technology	Vermicompost production technology	-	-	Worms and vermibed s
3	Soil Managem ent	Rapeseed	Injudicious application of fertilizers	INM in rapeseed in rice-toria cropping sequence	-	<ul style="list-style-type: none"> • Preparation of compost, vermicompost and enriched compost • Organic Agriculture • Production of vermicompost 	-	1.Advisory services 2.Mobile Advisory services 3.diagnostic visit	Seed, fertilizers and Biofertil izers

4	Soil Management	Black gram	Non fertility management		CFLD on Black gram			Field day, Advisory services, Mobile Advisory services & diagnostic visit	Seed, Biofertilizers, Vermicompost
5	Soil Management	Greengram	Non fertility management	-	FCLD on Greengram	-	-	Field day, Advisory services, Mobile Advisory services & diagnostic visit	Seed, Biofertilizers, Vermicompost
6	Varietal evaluation	Summer Sesame	Ignorance on summer Sesame	-	Demonstration on Summer Sesamum var. Koliabor Local-1	-	-	-	Seed and fertilizers
7	Production of Organic inputs	Vermicompost	Less availability of Organic inputs	-	Demonstration on Vermicompost production	-	-	-	Vermibed and Worms
8	Varietal evaluation	Strawberry	Lack of suitable variety	Assessment of strawberry var. Sweet Charlie with Early Drawn	-	-	-	1.Advisory services 2.Diagnostic visit	Seedling, fertilizers, plant protection chemical

9	ICM	Brinjal	Yield loss	IWM in brinjal	-	-	-	1.Advisory services 2.Diagnostic visit	Seeds, fertilizers, plant protection chemical
10	Crop diversification	Marigold & Gerbera	Lack of awareness on floriculture	-	Popularization of marigold – gerbera cropping sequence	Commercial cultivation of flowers	-	1.Advisory services 2.Diagnostic visit	Seedling, fertilizers, plant protection chemical
11	Crop diversification	Broccoli & Pumpkin	Lack of awareness on double cropping	-	Popularization of Broccoli – Pumpkin cropping sequence	Organic cultivation of winter vegetables	-	1.Advisory services 2.Diagnostic visit	Seeds, fertilizers, plant protection chemical
12	Cultivation of fruits	Banana	Lack of proper scientific knowledge of cultivation	-	Scientific cultivation of banana var. Malbhog	-	-	1.Advisory services 2.Diagnostic visit	Seedling, fertilizers, plant protection chemical
13	Crop diversification	Turmeric	Lack of suitable variety	-	Popularization of turmeric var. <i>Megha Turmeric -1</i>	-	-	1.Advisory services 2.Diagnostic visit	Seeds, fertilizers, plant protection chemical

14	Strengthening of SHGs, FIGs and their better management and book keeping	Group based activity	1.Lack of knowledge about importance and procedure of book keeping 2.Maximum nos. of SHGs are only confined to savings	-	Value chain analysis of Mushroom-drying and marketing	1.Formation and promotion of SHGs for economic upliftment 2. processing of oyster mushroom 3. Strengthening of women SHGs through handmade décor items 4. Formation and promotion of Farmers club	Formation and promotion of Farmers producer groups	1.Advisory services 2.Mobile Advisory services 3.diagnostic visit 4.PRA 5.Farmer scientist interaction	Packaging materials of dried mushroom
15	Storage technique	mushroom	1. less self life 2. poor quality of dry mushroom	Low cost technology of drying of Oyster Mushroom				1.Advisory services 2.Mobile Advisory services 3.diagnostic visit	KMS, Citric acid
16	Value addition	Weaving	Low market value of woven fabric	Product diversification and value addition of woven fabric		1. Value addition of fabric through dyeing, printing and embroidery 2. processing and preservation of fruits and vegetables		1.Advisory services 2.Mobile Advisory services 3.diagnostic visit	Yarn, pattern
17	Organic dye utilization	weaving			Popularization of application of natural dye on yarn in Udalguri district			1.Advisory services 2.Mobile Advisory services 3.diagnostic visit	Yarn, dye

18	Drudgery reduction	Women friendly tool			popularization of bamboo paddy stripper for paddy seed selection			1.Advisory services 2.Mobile Advisory services 3.diagnostic visit	Paddy stripper
19	Women and child care						Health and nutritional care of children		
20	Designing and development for high nutrient efficiency diet					Nitrification of traditional recipes			
21	Income generation activities for empowerment of rural youth					Garment construction			

22	Poultry management	Poultry, duck	1.lack of knowledge about scientific rearing and disease control 2. low productivity of local breeds	1.Improved poultry farming (Breed: <i>Kamrupa</i>)	Improved poultry farming (Breed: <i>Vanaraja</i>)	1.Scientific poultry farming for self employment. 2.Backyard poultry farming.	-	1.diagnostic visit 2.Advisory services 3.Group discussion 4.PRA 5.Farmers scientist Interaction	Supply of chicks, ducklings under FLD and OFT programme
23	Poultry management	Duckery	1.lack of knowledge about scientific rearing and disease control 2. low productivity of local breeds	-	1. Improved duck farming (breed: Khaki Campbell) 2. Broiler duck farming (breed: <i>White Pekin</i>).	1.Scientific poultry farming	-	1.diagnostic visit 2.Advisory services 3.Group discussion 4.Farmers scientist Interaction	Ducklings
24	Piggery management	Piggery	1.lack of knowledge about scientific rearing and disease control 2. low productivity of local breeds	Improved pig farming (Breed: <i>Rani</i>)	Improved pig farming (Breed: <i>Cross bred Hampshire</i>)	Scientific pig farming for self employment	-	1.diagnostic visit 2.Advisory services 3.Group discussion 4.PRA 5.Farmers scientist Interaction	Supply of Piglets, under FLD and OFT programme

25	Disease management	Livestock	Lack of knowledge about scientific control of diseases and supplementation of mineral mixture	Effect of AAUVETMIN in anoestrous cows	-	Common diseases of poultry and their prevention	-	1. Animal health camp 2. Advisory services 3. Diagnostic visit	Supply of AAUVE TMIN under OFT programme
26	Dairying	Cattle	Low productivity of local cattle			Scientific dairy farming for self employment	-	-	-
27	Goat rearing	Goatery	Low productivity of local breed	-	Improved goat farming (breed: Crossbred Beetal) under TSP	Improved goat farming	-	1. Diagnostic visit 2. Advisory services 3. Group discussion 4. Farmers scientist Interaction	Supply of Beetal goat
28	Poultry management	Poultry	1. lack of knowledge about scientific rearing and disease control 2. low productivity of local breeds		Improved poultry farming (Breed: <i>Kamrupa</i>) under TSP	1. Scientific poultry farming for self employment. 2. Backyard poultry farming.	-	1. diagnostic visit 2. Advisory services 3. Group discussion 4. PRA 5. Farmers scientist Interaction	Chicks

29	Poultry management	Duckery	1.lack of knowledge about scientific rearing and disease control 2. low productivity of local breeds	-	Broiler duck farming (breed: <i>White Pekin</i>) under TSP	1.Scientific poultry farming	-	1.diagnostic visit 2.Advisory services 3.Group discussion 4.Farmers scientist Interaction	Ducklings
30	Piggery management	Piggery	1.lack of knowledge about scientific rearing and disease control 2. low productivity of local breeds	-	Improved pig farming (Breed: <i>Cross bred Hampshire</i>) under TSP	Improved pig farming	-	1.diagnostic visit 2.Advisory services 3.Group discussion 4.PRA 5.Farmers scientist Interaction	Piglets
31	IFS	Fishery	Low yield of paddy Overall productivity	-	Integrated Rice-Fish farming system	-	-	-	Fish seed and lime
32	IFS	Fishery	Non judicious use of pond embankment	-	Integrated Fish-Horti farming	-	-	Field day	Fish seed, and lime
33	IFS	Fishery	Insect and pest problem in paddy field Low productivity	Growth performance of Kawoi in integrated rice-fish farming system	-	-	-	-	Kawoi seed, lime and nylon net

34	Seed rearing	Fishery	Non availability of kawoi seed	Induced breeding of Kawoi	-	-	-	-	Kawoi brooders and hormone
35	Varietal Evaluation	Fishery	Low growth of indigenous Rohu	Growth performance of Jayanti rohu in composite fish farming	-	-	-	-	Lime, fish seed
36	Varietal Evaluation	Fishery	Low consumer preference Erosion of pond embankment	Growth performance of Amur common carp in composite fish farming	-	-	-	-	Lime and fish seed
37	IFS	Fishery	Non judicious use of pond embankment	-	Integrated fish-horti farming under TSP	Scope and importance of integrated fish-horti farming for enhanced pond productivity	-	-	Banana sucker, fish seed, fish feed and lime
38	Bee keeping	Honey bee	1. Lack of knowledge of Scientific bee keeping 2. Low yield of <i>Apis cerena</i>	Performance of <i>Apis mellifera</i> in Udalguri district	Scientific bee keeping for economic upliftment	Apiculture for self employment	-	-	Honey bee seed colony with box

39	Biological control of diseases	Tomato, ginger	Injudicious application of inorganic pesticides	Performance of Arka Rakshak in Udalguri district	Management of rhizome rot of ginger with Biozin PTB	-		-	Seeds of Arka Rakshak, Biozin-PTB
40	Integrated pest and disease management of field crops and horticultural crops	Rice, cole crops, summer vegetables, King chilli	Lack of knowledge of IPM and IDM	Management of Viral diseases of King chilli	-	1. Integrated pest and disease management in rice 2. Integrated pest and disease management in cole crops 3. Integrated pest and disease management of summer vegetables	Emerging insect pest problem of rice in Udalguri district	-	Seeds of king chilli, Trisodium phosphate and Imidacloprid
41	Mushroom cultivation	Mushroom	Lack of knowledge of scientific cultivation of mushroom	-	Year round production of oyster mushroom	1. Production technology and value addition of mushroom	-	-	Spawn, PP bag, straw, Carbendazim

3.1 Achievements on technologies assessed and refined during 2017-18

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation	-	1	-	-	-	1	-	-	-	2
Seed / Plant production	-	-	-	-	-	-	-	-	-	-
Weed Management	-	-	-	-	1	-	-	-	-	1
Integrated Crop Management	-	-	-	-	-	-	-	-	-	-
Integrated Nutrient Management	-	1	-	-	-	-	-	-	-	1
Integrated Farming System	-	-	-	-	-	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-	-	-	-	-	-
Drudgery reduction	-	-	-	-	-	-	-	-	-	-
Farm machineries	-	-	-	-	-	-	-	-	-	-
Value addition	-	-	-	-	-	-	-	-	-	-
Integrated Pest Management	-	-	-	-	1	-	-	-	-	1
Integrated Disease Management	-	-	-	-	2	-	-	-	-	2
Resource conservation technology	-	-	-	-	-	-	-	-	-	-
Small Scale income generating enterprises	1	1	-	-	-	-	-	-	-	2
Market chain analysis	-	-	-	-	1	-	-	-	-	1
Others (commercial products) (Woven fabrics)	-	-	-	1	-	-	-	-	-	1
TOTAL	1	3	-	1	5	1	-	-	-	11

* 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										
Others										
TOTAL										

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

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

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitery	Fisheries	TOTAL
Evaluation of Breeds	1	2	-	-	1	-	2	6
Nutrition Management	-	-	-	-	-	-	-	-
Disease of Management	-	-	-	-	-	-	-	-
Value Addition	-	-	-	-	-	-	-	-
Production and management	-	-	-	-	-	-	2	2
Feed and Fodder	-	-	-	-	-	-	-	-
Small Scale income generating enterprises	-	-	-	-	-	-	-	-
TOTAL	1	2	0	0	1	0	4	8

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								
Production and Management								
Feed and Fodder								
Small Scale income generating enterprises								
TOTAL								

A.5. Results of On Farm Testing

Sl. No .	Title of OFT	Problem Diagnosed	Name of Technology Assessed	Crop/Cropping system/ Enterprise	No. of Trials	Results of Assessment/ Refined (Data on the parameter should be provided)	Feedback from the farmer	Feedback to the Researcher	B.C . Ratio
1	Backyard poultry farming	Low productive local breed	Introduction of dual purpose breed <i>Kamrupa</i>	Poultry	30	Adult male weight = 2025g Adult female weight =1750g Age at first egg laying = 160 days Egg production- 144 / bird / year Mortality 12%	Farmers are very much satisfied with the growth performance and high egg production than the local.	Need adequate supply of chicks to meet the demand of farmers.	2.27
2	Effect of AAUVE TMIN on anoestrous cows	Long inter calving period	Supplementation of area specific mineral mixture	cattle	20	40% animals showed oestrus 19-29 days after treatment. General health of cows improved, reduced disease incidence and increased milk production.	Farmers are very much satisfied with the performance of the AAUVETMIN, as it improved the general health of cows, reduced disease incidence and increased milk production		NA

							besides solving anoestrus problem.		
3	Backyard poultry farming	Low productive local breed	Introduction of dual purpose breed <i>Kamrupa</i>	Poultry	23	Male body weight at 7 months = 1800 g Female body weight at 7 months=1450g Age at first egg laying = 138 days Mortality 8%	Farmers are very much satisfied with the growth performance and high egg production than the local.	Need adequate supply of chicks to meet the demand of farmers.	-
4	Improved pig farming	Low productive local breed	Introduction of new breed <i>Rani</i>	piggery	3	Male body weight at 9 months = 43 kg Female body weight at 9 months= 48 kg Age at first breeding = 276 days Mortality 0 %	Till date satisfactory		-
5	INM in rapeseed in rice-toria cropping sequence	Injudicious application of fertilizers	Application of 50% RD of N and P ₂ O ₅ and 100% K ₂ O along with seed treatment with biofertilizers (<i>Azotobacter</i> and PSB) @ 40g/kg seed. Var. <i>TS-38</i>	Rapeseed in rice-toria cropping system	3	<ul style="list-style-type: none"> • Yield: 0.88 ton/ha • Av. Plant height: 107.5 cm • Av. Siliqua/plant: 67.4 • Av. No. of seed/siliqua: 11.3 • B:C ratio: 1.82 • Soil fertility: N:P₂O₅:K₂O :: 368.9:19.02:208.9 kg/ha 	The variety and technology was well accepted among farmers	To make avail variety and biofertilizers to the farmers	1.82

6	Performance of <i>Jayanti</i> Rohu in composite fish farming	Low performance of existing indigenous Rohu	<i>Jayanti</i> Rohu i.e. strains of selective breeding is released in the ponds @ 20% in composite fish farming	Fisheries	3	<ul style="list-style-type: none"> • Wt of <i>Jayanti</i> Rohu =1500 gm • Local=700 gm • Av prodⁿ=3232.5kg/ha • Gross return=581850.00 • Cost/ha=1,50000.00 • Net return= 431850.0 • B:C ratio=3.87 <p><u>Control</u></p> <ul style="list-style-type: none"> • Avg prodⁿ=1800 kg/ha • Gross return=324000/ha • Cost= 150000.00 • Net Return: 17400.00 • B:C ratio=2.16 	Farmers are satisfied	<i>Jayanti</i> Rohu may be considered replacement for existing Rohu	BC ratio=3.87 Control=2.16
7	Performance of <i>Amur</i> common Carp in composite fish farming	Low consumer preference of existing common carp due to bulged belly and erosion of pond embankment	Release of <i>Amur</i> common carp @15% in composite fish farming	Fisheries	4	<ul style="list-style-type: none"> • Wt. of <i>Amur</i> = 1200 gm • Local =700 gm • Av prodⁿ= 2600 kg/ha • Gross return = Rs.468000/ha • Cost of cultivation/ha =Rs. 150000.00 • Net return =318000.00 <p><u>Control</u></p> <ul style="list-style-type: none"> • Avg production=1600 kg • Gross return=288000.00 • Net return=138000.00 	Farmers are satisfied due to slender body and fast growth unlike existing common carp	Suitable bottom dwelling species in composite fish farming	3.12= demonstration 1.92 = Control

8	Perfoman ce of Kawoi in rice-fish farming system	Low production of rice due to Pest infestation	Preparation of paddy plot & encircling the plot to prevent escape Release of Kawoi seed @ 1500/bigha Feeding and management	Rice cum fish	3	<u>Demo</u> • Production=825 kg/ha • Gross cost=139500.00 • Gross return=331200 • Net return= Rs.191700 <u>Control</u> • Gross cost=43500.00 • Gross return=80670.00 • Net return=37170.00	Farmers are satisfied due to increased production performance of the system	Best option for integratio n. However suitable protective measures to be taken from escape	B: C Ratio =2.37 Control= 1.73
9	Induced breeding of Kawoi	Non availibility of Kawoi seeds	Selection of brooder, Injecting Brooders, Rearing of spawn, Feeding and management	Fishery	2	Survival= 60% Profit=Rs.30000.00 (3 operation)	Farmer satisfied	Low cost breeding technolog y for making timely available of kawoi seeds	B: C = 6.0
10	Market chain analysis of chilli	Low return of farmers	Market chain analysis of chilli	Chilli		<u>Identified market channel</u> Channel I: Producer- Consumer Channel II: Producer- Wholeseller- Retailer- Consumer Channel III: Producer- Trader- Wholeseller- Retailer- Consumer			

						<u>Price Spread (Rs./kg)</u> Channel I: 0.00 Channel II: 10.00 Channel III: 20.00 <u>Producer's share in</u> <u>Consumer rupee</u> Channel I: 100.00 Channel II: 53.12 Channel III: 41.30			
11	Agro Chemical application and farmers perception on food safety in Bhergaon Sub Division	Excessive use of chemicals	Agro Chemicals application and farmers perception on food safety in Bhergaon Sub Division	Commercial product		<u>Major Agrochemical used:</u> Chlorantraniliprole- Brinjal shoot & fruit borer chlorpyrifos, Quinolphos Cypermethrin: insecticides used in vegetables, cereals. Copper oxychloride, Carbendazm,: bacterial leaf blight, rust, brown spot, powdery mildew, downy mildew <u>Purpose of</u> <u>agrochemicals use:</u> 1. Weed control: 32.33% 2. Pest control: 74.50% 3. Rodent control: 10.11% 4. Disease control: 75.55% <u>Farmers perception of</u>			

						agrochemicals on the environment: 1. Contribute to air pollution: 93.33% 2. Destroy soil by reducing its quality: 76.66% 3. Pollute river & streams: 73.33% 4. Decrease biodiversity: 70%			
12	Performance of <i>Apis mellifera</i> in the Udalguri district	Low yield of Indian honey bee	Rearing of European bee, <i>A. mellifera</i> in crop field for economic up-liftment of the farmer	Honey bee	3	Demo yield: 20.65 kg/box	Farmers highly satisfied with the performance of the species	Good	B:C ratio of Demo: 1.88 Local: 1.53
13	Performance of high yielding, triple disease resistance tomato variety <i>Arka Rakshak</i>	Crop loss due to high incidence of diseases in tomato	Growing of high yielding, triple disease (Tomato Leaf curl Virus, Bacterial wilt and early blight) resistant tomato variety, <i>Arka Rakshak</i>	Tomato	5	Disease incidence: In Demo: ToLCV: 0 % Early blight: 0% Bacterial wilt: 0% Late blight: 12.0% In Local: ToLCV: 2.5 % Early blight: 0.3% Bacterial wilt: 2.8%	The variety and technology was well accepted among farmers	Very Good	B:C ratio of Demo: 6.04 Local: 2.39
14	Management of	High incidence of	Treatment of seeds with Trisodium	<i>King chilli</i>	5	Disease incidence till date: 5.71%	Vegetative stage		

	viral diseases of Bhut Jalakia (<i>King chilli</i>)	viral diseases of <i>king chilli</i>	phosphate @ 0.03 % by soaking the seeds for 24 hours						
15	Product diversification and value addition of woven fabric	Low market value of woven fabric	Traditional Bodo dakhana design will be introduced in Assamese mekhela chadar Warp: Rajlaxhi yarn Weft: cotton yarn (80 ply) Pattern design: Kashmiri yarn	weaving	4	Color scheme: attractive, using complementary colour scheme Price: 1800.00 per set of mekhela chadar	Farmers satisfied	Good	Demo: 2.14
16	Low cost technology of drying of Oyster mushroom	Less self life and poor quality of dried mushroom	T ₁ : Blanching T ₂ : chemical treatment- mushroom is to be soaked for 6-7 hrs in preservatives (0.6 gm KMS/Kg fresh mushroom and 10 gm diluted in 1 lit normal water)	mushroom	4	Dry weight : T ₁ : 100 gm/kg T ₂ : 100 gm/kg Selling price: T ₁ : Rs. 50.00/ 50 gm T ₂ : Rs. 55.00/ 50 gm Colour: T ₁ : Brown T ₂ : Off white	Farmers are highly satisfied	Good	Demo: T ₁ : 3.06 T ₂ : 3.07
17	Assessment of strawberry var.	Lack of suitable varieties	Strawberry var. Sweet Charlie Strawberry var.	Strawberry	1	(1) Sweet Charlie Yield: 8.5 q/ha Taste: Sweet Size: Big	Farmers are highly satisfied	Good	(1) 1.78:1 (2) 1.40:1

	Sweet Charlie with Early Drawn		Early Drawn			Self life: 3 days (2) Early Drawn Yield: 6.4 q/ha Taste: Less Sweet Size: Small in comparison Self life: 2 days			
18	Integrate weed management in Brinjal	Yield loss	Pre-emergence application of Pendimethalin @ 1.5kg/ha + hand weeding at 35 DAT	Brinjal	3	On-going (fruiting starts)			
19	Performance of toria var TS-67 in rice-toria cropping sequence	Low yield of local variety, Lack of suitable variety to be grown after winter rice	Var. TS-67 Duration: 90-95 Suitable for late sowing	Rapeseed	5	Demo yield: 8.6 q/ha Local yield: 6.4 q/ha Net return : Rs. 28380/ha (Demo) Net return: Rs. 21120/ha (Local)	Satisfied	Suitable to be grown after rice in <i>rainfed</i> condition	1.56:1

**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 2017-18

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

List of technologies demonstrated during previous year and popularized during 2017-18 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	Mushroom	Production technology of Oyster Mushroom	7	60	NA
2	Banana	Scientific cultivation of banana var. <i>Malbhog</i>	4	25	2.5
3	Rapeseed	Demonstration on rapeseed var. <i>TS-46</i> in Udalguri district	6	35	12.0
4	Turmeric	Popularization of Turmeric var. <i>Megha Turmeric -1</i>	5	22	3.0
5	Rapeseed	Popularization of HYV of Toria var. <i>JT-30-1</i>	3	60	28.0
6	Poultry	Introduction of improved poultry breed <i>Vanaraja</i>	4	12	NA
7	Poultry	Introduction of improved poultry breed <i>Kamrupa</i>	6	18	NA
8	Piggery	Introduction of improved pig breed <i>Crossbred Hampshire</i>	4	10	NA
9	Fishery	Rice-Fish farming	5	10	3.0
10	Honey bee	Scientific bee keeping	6	30	NA

* *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	Farmin g situation (Rainfed/ Irrigated, Soil type, altitude , etc)	Status of soil (Kg/ha)		
					Proposed	Actual	SC/ ST	Others	Total			N	P	K
Cereals														
1	Rice	Comparative study	Comparative study on different Rice based cropping system in Udalguri district	<i>Kharif, 2017</i>	40 samples	40 samples	40	-	40	-	Rainfed	-	-	-
Horticultural Crops														
2	Ginger	Integrated Disease management	Management of rhizome rot of ginger using BIOZIN-PTB	<i>Rabi 2017</i>	0.96 ha	0.96 ha	6	0	6	NA	Rainfed	-	-	-
3	Turmeric	Varietal evaluation	Var. <i>Megha Turmeric - 1</i>	<i>Summer, 2017</i>	0.1 ha	0.1 ha	2	1	3	NA	Rainfed	-	-	-
4	Banana	Scientific	Var. <i>Malbhog</i>	<i>Kharif,</i>	0.1 ha	0.1 ha	1	2	3		Irrigated			

		cultivat ion of fruits		2017										
5	Marig old & Gerbe ra	Crop diversif ication	Marigold var. <i>Seracole</i> Gerbera var. <i>Red Gem</i>	<i>Khar if,</i> 2017	0.03 ha	0.03 ha	2	1	3	NA	Rainfed	-	-	-
6	Brocc oli & Pump kin	Crop diversif ication	Broccoli var. Green Surf Pumpkin var. Arjuna	<i>Rabi,</i> 2017	0.1 ha	0.1 ha	2	1	3	NA	Rainfed	-	-	-
7	Brocc oli	Crop diversif ication	Var. <i>Green Magic</i>	<i>Rabi</i> 2017	10 ha	10 ha	10	0	10	NA	Rainfed	-	-	-
Oilseeds														
8	Rapes eed	INM	Var. <i>TS-38</i>	<i>Rabi</i> 2017	49 ha	49	10 4	15	12 5	NA	Rainfed	395.3	31.2	185.2
9	Rapes eed	IFS	Var. <i>TS-38</i> Mustard cum apiary	<i>Rabi</i> 2017	1	1	6	0	6	NA	Rainfed	363.2	28.2	175.5
10	Sesa mum	INM	Var. Koliabor Local-1 N:P:K::30:20:20 kg/ha	<i>Sum mer</i> 2018	10	10	10	0	10	NA	Rainfed	365.5	29.3	172.3

Pulse														
11	Black gram	INM	Var. PU-31 Seed treatment with <i>rhizobium</i> @ 40g/kg seed, N:P:K::15:35:1 0 kg / ha Compost 1 ton/ha	<i>Khar if</i> 2017	20	20	45	5	50	Nil	Rainfed	391.6	30.1	166.4
12	Green gram	INM	Var. Pratap Seed treatment with <i>rhizobium</i> @ 40g/kg seed, N:P:K::10:35:1 0 kg/ha Compost 1 ton/ha	<i>Khar if</i> 2017	10	10	14	12	26	Nil	Rainfed	365.5	29.3	172.3
13	Field pea	Integrated Crop Management	Var. <i>Prakash</i> N:P:K::0:46:10 kg/ha	Rabi 2017	20	20	29	21	50	Nil	Rainfed	298.2	26.8	178.2

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 38 parameter other than yield, e.g., disease incidence, pest incidence etc.	Econ. Of demo. (Rs./ha.)				Econ. Of check (Rs./Ha.)			
				Dem o.	Che ck		H*	L*		GC*	GR*	NR*	BC R**	GC	GR	NR	BC R
Cereals																	
1	Rice based cropping system	Comparative study	40 samples	<p>1. Identified rice based cropping system: Rice-Fellow Rice-Toria Rice- winter vegetable</p> <p>2. Profitable cropping system: Rice- winter vegetable</p> <p>3. Cost of cultivation/ha: Rice-Fellow: Rs.20330.00 Rice-Toria: Rs.36592.00 Rice- winter vegetable: Rs.83678.00</p> <p>4. Return/ha: Rice-Fellow: Rs.35922.00 Rice-Toria: Rs.65538.00 Rice- winter vegetable: Rs.161214.00</p> <p>5. B:C ratio: Rice-Fellow: 1.76 Rice-Toria: 1.79 Rice- winter vegetable: 1.92</p>													

Horticultural Crops																		
2	Ginger	Integrated disease management	0.96 ha	Ongoing														
3	Turmeric	Varietal evaluation	0.1 ha	285	178	60.11	294	263	-	-	103500	570000	466500	5.5:1	86829	356000	269171	4.1:1
4	Banana	Scientific cultivation of fruits	0.1 ha	- Ongoing -														
5	Marigold & Gerbera	Crop diversification	0.03 ha	155	98	58.16	161	144	-	-	217697	775000	557303	3.56:1	188461	490000	301538	2.6:1
				60000 flowers	-	-	605725	58045	-	-	721060	1800000	1078940	2.49:1	-	-	-	-
6	Broccoli & Pumpkin	Crop diversification	0.1 ha	148	110	34.5	156	133	-	-	49785	222000	172215	4.4:1	28947	110000	81053	3.8:1
				- Pumpkin ongoing -														
7	Broccoli (TSP)	Crop diversification	10 ha	125	105	19.0	133	119	-	-	65135	312500	247365	4.79:1	39375	157500	118125	4.0:1
Oilseed																		
8	Rapeseed	INM	49ha	7.53	4.71	60.0	7.97	6.84	-	-	16600	24850	8250	1.5:1	15200	15543	343	1.02:1
9	Rapeseed	Mustard cum apiary	1 ha	9.04	4.71	92.0	9.56	8.52	-	-	24100	29832	5732	1.24:1	15200	15543	343	1.02:1
1	Sesam	INM	10	ongoing														

0	um		ha															
Pulse																		
1 1	Black gram	INM	20 ha	5.63	4.5	20.07	7.3 2	5.1 1	Plant ht: 43cm Av pod/pt: 132 Av seed/po d: 7.3	-	2014 5	4480 0	2465 5	2.22: 1	1574 0	2940 0	1360	.87: 1
1 2	Green gram	INM	10 ha	6.5	4.2	35.38	7.1 2	5.3 3	Plant ht: 42cm Av pod/pt: 152 Av seed/po d: 6.7	-	2014 5	5200 0	3185 5	2.58: 1	1574 0	3600 0	2026 0	2.2 9:1
1 3	Field pea	INM	20 ha	12.2	-	-	14. 26	9.2 8	-	-	2280 0	4880 0	2600 0	2.14: 1	-	-	-	-

***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	4	21.11.207, 18.02.2018, 17.02.2018 & 20.02.2018	23	57	80	
2	Farmers Training	10	22.01.2017, 16.08.2017, 15.03.2018, 24.03.2018, 18.12.2017, 27.03.2018, 07.09.2017, 24.01.2018, 09.08.2017, 08.11.2017	91	168	259	
3	Media coverage	0					
4	Training for extension functionaries	4	21.07.2017, 20.09.2017, 22.07.2017, 09.08.2017	65	36	101	
5	Any other (Pl. specify)						
	Total	18		179	261	440	

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 matic area	Name of Technology	No. of farmers	No. of units	No. of animals, poultry birds etc.	Major Performance parameters / indicators		% change in the parameter	Other parameters (if any)		Econ. Of demo. (Rs./Ha.)				Econ. Of check (Rs./Ha.)				Remarks
							Demo	Check		Demo	Check	GC*	GR**	NR**	BCR**	GC	GR	NR	BCR	
1.	Duckery	Breed introduction	Introduction of <i>Khaki Campbell</i> breed	49	49	300	Male weight (Adult) Female (Adult) weight Egg production	Male weight (Adult) Female (Adult) weight Egg production	13.33 12 90.6	Age at 1 st egg laying = 175 days Mortality = 14 %	Age at 1 st egg laying = 245 days Mortality = 20 %	725	1230	505	1.7	490	645	155	1.3	
2	Poultry	Breed introduction	Introduction of dual purpose breed	50	50	500	Male weight (Adult) Female	Male weight (Adult) Female	121 145	Age at 1 st egg laying = 184 days	Age at 1 st egg laying = 245 days									Ongoing

			Vanaraj				weight (Adult) Egg production	weight (Adult) Egg production	-	Mortality = 12 %	Mortality = 35 %									
3	Duckery	Breed introduction	Introduction of broiler duck White Pekin	23	23	200	Body weight at 60 days	-	-	Body weight at 60 days = 2700 g	Mortality = 0	354 per bird	486	132	1.37					No local broiler duck is available
4	Piggery	Breed introduction	Introduction of crossbred Hampshire	3	3	9	Body weight at 5 months	Body weight at 5 months	64.29	Body weight at 5 months = 19 kg	Body weight at 5 months = 14 kg									Ongoing

										Mortality = 0	Mortality = 11 %									
5	Poultry	Breed introduction	Introduction of dual purpose breed Kamrupa under TSP	40	40	600	Male weight Female weight Egg production	Male weight Female weight Egg production	75 70 -											Ongoing
6	Duckery	Breed introduction	Introduction of broiler duck White Pekin under TSP	6	6	400	Body weight at 60 days	-	-	Body weight at 30 days = 1600 g Mortality = 0	-									Ongoing

7	Piggery	Breed introduction	Introduction of crossbred Hampshire under TSP	14	14	45	Body weight at 3 months	Body weight at 3 months	54.20	Body weight at 3 months = 9 kg	Body weight at 3 months = 6 kg									Ongoing	
8	Goatery	Breed introduction	Introduction of crossbred Beetal under TSP	10	10	14															Ongoing

**** GC- Gross Cost, vfrgvfgGR- 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		Demo	Check	GC**	GR**	NR**	BCR**	GC	GR	NR	BCR	
1.	Rice-fish	IFS	Integrated rice fish farming	4	4	6000 /ha	Fish=1370 Kg/ha	150 kg	11	1370 kg	-	5500	2199	1644	39	2100	3300	1200	2.23	
2	Horti-fish farming	IFS	Integrated fish-horti farming	4		6000/ha	Fish=3037.5 kg/ha	-											On going	

3	Fish cum horti	IFS	Integrated fish-horti farming	12	12	14000	On going												On going
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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.

(iv) Other enterprises

Sl. No.	Category/ Enterprise, e.g., mushroom, vermicompost, apiculture etc.	The 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	
1	Oyster mushroom	Value chain analysis	Value chain analysis of Mushroom-drying and	3 groups	3	Total fresh mushroom produced: 1328kg /Unit/	-	-	1. Raw mushroom sale: 800 kg @ Rs.170/kg 2. Total value: Rs.136000.	67 57 2.0 0	19 93 60. 00	13 17 88. 00	2.9 5	-	-	-	-	-

			marketing			Dried mushroom: 528 kg/unit Dry wt: 52.8kg/unit			00	3. Total dried mushroom sale: 52.8 kg @ Rs. 60/50 gm										
2.	Apiculture	Beneficial insect	Scientific bee keeping for economic upliftment	6	6	9.11 kg/Box	2.45 kg/box	73			1224.00	3188.50	1964.50	2.6	804.00	857.50	53.5	1.06		
3	Apiculture	Beneficial insect	Scientific bee keeping for economic upliftment (TSP)	10	10	Ongoing														

4	Mushroom	Beneficial organism	Year round production of Oyster mushroom	6	6	1.43 kg/bed	-	-			61 22 5.0 0	23 80 00. 00	17 67 75	3.8 9	-	-	-	-	
5	Weaving	Value addition	Popularization of application of natural dye on yarn in Udalguri district	4	4						73 90. 00	11 20 0.0 0	31 80. 00	1:1. 51	62 40. 00	800 0 .00	17 60. 00	1:1 .28	Satisfactory
6	Women friendly tool	Drudgery reduction	Popularization of bamboo paddy stripper for	6	6	6	-	-	Health hazard: no grip pain Farm Women Reaction: Satisfactory		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Good

			paddy seed selection															
7	Vermicompost	Production of organic Inputs	Low cost vermicompost production technology	5	5	Ongoing												
8	Vermicompost	Production of organic Inputs	Demonstration on vermicompost production	10	20	On going												

**** 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: Nil

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

			rated					er		per unit etc.)	
	-										

f. Performance of FLD on Crop Hybrids : Nil

Sl. No.	Crop	Name of hybrids	Area (ha.)	No. of farmers	Avg. yield (Q/ha.)		% increase in Avg. yield	Additional data on demo. yield (Q/ha.)		Econ. of demo. (Rs./Ha.)				Econ. of check (Rs./Ha.)				
					Dem o.	Chec k		H*	L*	GC*	GR*	NR*	BC R*	GC	GR	NR	BCR	
<i>I</i>	-																	

**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)	Sponsored (2)	Total (1+2)	General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
				On	Sp. On	On	Sp. On	On	Sp. On	On	Sp. On	On	Sp. On	On	Sp. On	On	Sp. On	On	Sp. On	On	Sp. On	
(4)	(5)	(6)	(7)	(a=4+6)	(b=5+7)	(8)	(9)	(10)	(11)	(c=8+10)	(d=9+11)	(4+8)	(5+9)	(6+10)	(7+11)	(x=a+c)	(y=b+d)					
I. Crop Production																						
Weed Management																						
Resource Conservation Technologies																						
Cropping Systems																						
Crop Diversification																						
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																						

t																																									
Disease Management																																									
Feed management																																									
Production of quality animal products																																									
V Home Science/Women empowerment																																									
Household food security by kitchen gardening and nutrition gardening																																									
Design and development of low/minimum cost diet																																									
Designing and development for high nutrient efficiency diet																																									
Minimization of nutrient																																									

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																						
Production technology and value addition of mushroom																						
VIII Fisheries																						
Integrated fish farming																						
Carp breeding and hatchery management																						
Carp fry and fingerling rearing																						
Composite fish culture																						
Hatchery management and culture of freshwater prawn																						
Breeding and culture																						

of ornamental fishes																						
Portable plastic carp hatchery																						
Pen culture of fish and prawn																						
Shrimp farming																						
Edible oyster farming																						
Pearl culture																						
Fish processing and value addition																						
IX Production of Inputs at site: 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 development																						
Group dynamics																						
Formation and Management of SHGs																						
Mobilization of social capital																						
Entrepreneurial development of farmers/youths																						
WTO and IPR issues																						
XI Agro-forestry: Nil																						
Production technologies																						
Nursery management																						
Integrated Farming Systems																						
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

3.3.2. Achievements on Training of Farmers and Farm Women in Off Campus including Sponsored Off Campus Training Programmes
 (*Sp. Off means Off Campus training programmes sponsored by external agencies)

Thematic area	No. of Courses/prg.			Participants																Grand Total		
	Of f	Sp Off *	Total	General						SCST						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 *
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	0	0	0	0	0	0	24	0	1	0	25	0	24	0	1	0	25	0	25	
Fodder production																							
Production of organic inputs	1	0	1	0	0	0	0	0	0	20	0	0	0	20	0	20	0	0	0	20	0	20	
II. Horticulture																							
a) Vegetable Crops																							
Production of low volume and high value crops	1	0	1	4	0	0	0	4	0	23	0	0	0	23	0	27	0	0	0	27	0	27	
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																								
Lay out and Management of Orchards																								
Cultivation of Fruit																								
Management of young plants/orchards																								
Rejuvenation of old orchards																								
Export potential fruits																								
Micro irrigation systems of orchards																								
Plant propagation techniques																								

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	3	0	3	55	0	0	0	55	0	26	0	1	0	27	0	81	0	1	0	82	0	82	
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	1	0	1	0	0	0	0	0	0	22	0	18	0	40	0	22	0	18	0	40	0	40	
Piggery Management	1	0	1	0	0	0	0	0	0	7	0	10	0	17	0	7	0	10	0	17	0	17	

Rabbit Management																							
Disease Management																							
Feed management																							
Production of quality animal products																							
V Home Science/Women empowerment																							
Household food security by kitchen gardening and nutrition gardening																							
Design and development of low/minimum cost diet																							
Designing and development for high nutrient efficiency diet	1	0	1	0	0	25	0	25	0	0	0	0	0	0	0	0	0	25	0	25	0	25	

Minimization of nutrient loss in processing																						
Gender mainstreaming through SHGs																						
Storage loss minimization techniques																						
Value addition	1	0	1	0	0	0	0	0	0	0	0	26	0	26	0	0	0	26	0	26	0	26
Income generation activities for empowerment of rural Women																						
Location specific drudgery reduction technologies																						
Rural Crafts																						
Women and child care																						

VI Agril. Engineering																						
Installation and maintenance of micro irrigation systems																						
Use of Plastics in farming practices																						
Production of small tools and implements																						
Repair and maintenance of farm machinery and implements																						
Small scale processing and value addition																						
Post Harvest Technology																						
VII Plant Protection																						
Integrated Pest	3	0		13	0	10	0	23	0	53	0	1	0	54	0	76	0	1	0	77	0	77

Management																						
Integrated Disease Management																						
Bio-control of pests and diseases																						
Production of bio control agents and bio pesticides																						
VIII Fisheries																						
Integrated fish farming																						
Carp breeding and hatchery management																						
Carp fry and fingerling rearing																						
Composite fish culture																						
Hatchery management and culture of freshwater																						

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	1	0	1	0	0	12	0	12	0	0	0	14	0	14	0	0	0	26	0	26	0	26
Group dynamics	1	0	1	0	0	0	0	0	0	0	0	25	0	25	0	0	0	25	0	25	0	25
Formation and Management of SHGs	1	0	1	0	0	0	0	0	0	0	0	25	0	25	0	0	0	25	0	25	0	25
Marketing																						
Mobilization of social capital																						
Crop insurance																						
Record keeping																						
Entrepreneurial development of farmers/youths																						
WTO and IPR issues																						
XI Agro-forestry																						
Production technologies																						
Nursery management																						

Integrated Farming Systems																							
ICT																							
Use of ICT in Agriculture																							
TOTAL	16	0	16	72	0	47	0	119	0	175	0	125	0	296	0	247	0	168	0	415	0	415	

(B) RURAL YOUTH

3.3.3. Achievements on Training Rural Youth in On Campus including Sponsored On Campus Training Programmes

(*Sp. On means On Campus training programmes sponsored by external agencies)

Thematic area	No. of Courses/ Prog		Participants																		Grand Total (x + y)	
	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 (4+6)	Sp On (b=5+7)	On (8)	Sp On (9)	On (10)	Sp On (11)	On (c=8+10)	Sp On (d=9+11)	On (4+8)	Sp On (5+9)	On (6+10)	Sp On (7+11)	On (x=a+c)		Sp On (y=b+d)
Mushroom Production	1	0	1	0	0	0	0	0	0	6	0	19	0	25	0	6	0	19	0	25	0	25

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																						
Use of ICT in Agriculture																						
TOTAL	1	0	1	0	0	0	0	0	0	6	0	19	0	25	0	6	0	19	0	25	0	25

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 *	Of f	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	1	0	1	15	0	11	0	26	0	0	0	0	0	0	0	15	0	11	0	26	0	26

Integrated farming																						
Seed production																						
Production of organic inputs																						
Integrated Farming																						
Planting material production																						
Vermiculture																						
Sericulture																						
Protected cultivation of vegetable crops																						
Commercial fruit production																						
Commercial flower production	1	0	1	0	0	0	0	0	0	11	0	5	0	16	0	10	0	1	0	11	0	27
Repair and maintenance of farm machinery and implement																						

s																						
Nursery Managem ent of Horticul ture crops																						
Training and pruning of orchards																						
Value addition	2	0	0	0	0	19	0	19	0	1	0	33	0	34	0	1	0	52	0	53	0	53
Production of quality animal products																						
Dairying	1	0	1	24	0	1	0	25	0	0	0	0	0	0	0	24	0	1	0	25	0	25
Sheep and goat rearing	1	0	1	0	0	0	0	0	0	15	0	5	0	20	0	20	0	5	0	25	0	25
Quail farming																						
Piggery	1	0	1	0	0	0	0	0	0	7	0	20	0	27	0	7	0	20	0	27	0	27
Rabbit farming																						
Poultry production	1	0	1	0	0	0	0	0	0	2	0	23	0	25	0	2	0	23	0	25	0	25
Ornamenta l fisheries																						
Para vets																						
Para																						

extension workers																						
Composite fish culture	1	0	1	3	0	2	0	0	0	5	14	0	7	0	0	21	0	0	0	26	0	26
Freshwater prawn culture																						
Shrimp farming																						
Pearl culture																						
Cold water fisheries																						
Fish harvest and processing technology																						
Fry and fingerling rearing																						
IFS	4	0	4	3	0	0	0	1	0	23	60	9	0	97	0	100	0	9	0	84	0	117
Small scale processing																						
Post Harvest Technology																						
Tailoring and	1	0	1	0	0	0	0	0	0	0	0	20	0	20	0	0	0	20	0	20	0	20

Stitching																						
Rural Crafts																						
TOTAL	14	0	14	45	0	33	0	78	0	62	60	128	0	190	60	107	60	161	0	268	60	328

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						SCST						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																						

Managem nt																						
Integrated Nutrient managemen t																						
Rejuvenatio n of old orchards																						
Protected cultivation technology																						
Formation and Managemen t of SHGs																						
Group Dynamics and farmers organizatio n																						
Information networking among farmers																						
Capacity building for ICT application																						
Care and maintenanc e 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 mainstreaming through SHGs																							
Total																							

3.3.6. Achievements on Training of Extension Personnel in Off Campus including Sponsored Off Campus Training Programmes

(*Sp. Off means Off Campus training programmes sponsored by external agencies)

Thematic area	No. of Courses/ prog.			Participants																	Grand Total	
	Of f	Sp Off *	Tot al	General						SCST						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	1	0	1	17	0	0	0	17	0	8	0	0	0	8	0	25	0	0	0	25	0	25
Integrated Nutrient management																						
Rejuvenation of old orchards																						
Protected cultivation technology	1	0	1	11	0	0	0	11	0	10	0	0	0	10	0	21	0	0	0	21	0	21
Formation and	1	0	1	15	0	0	0	15	0	10	0	0	0	10	0	25	0	0	0	25	0	25

Women and Child care	1	0	1	0	0	27	0	27	0	0	0	3	0	3	0	0	0	30	0	30	0	30
Low cost and nutrient efficient diet designing																						
Production and use of organic inputs																						
Gender mainstreaming through SHGs																						
Crop insurance																						
TOTAL	4	0	4	43	0	27	0	70	0	28	0	3	0	31	0	71	0	30	0	101	0	101

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			SCST			Grand Total				
							M	F	T	M	F	T	M	F	T		

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

Discipline	Area of training	Title of the training programme	Date (From – to)	Duration in days	Venue	Please specify Beneficiary group (Farmer & Farm women/ RY/ EP and NGO Personnel)	General participants			SC/ST			Grand Total		
							M	F	T	M	F	T	M	F	T
Agronomy	ICM	Scientific cultivation practices of rapeseed/mustard	22.01.2017 & 23.01.2017	2	Kacharital	PF	0	0	0	24	1	25	24	1	25
Agronomy	Production of organic inputs	Vermicompost production technology	27.03.2018	1	Chanbori	PF	0	0	0	20	0	20	20	0	20
Animal science	Piggery	Scientific pig farming for self employment	16-20, Aug, 2017	5	Kacharital	RY	0	0	0	7	20	27	7	20	27
Animal science	Poultry management	Scientific poultry farming for self employment	7-11 Sep, 2017	5	Deorigaon	RY	0	0	0	2	23	25	2	23	25
Animal science	Dairying	Scientific dairy farming for self employment	7-11, Feb, 2018	5	Jhargaon	RY	24	1	25	0	0	0	24	1	25
Animal science	Piggery	Improved pig farming	15-3-18	1	Bwigriguri	PF	0	0	0	7	10	17	7	10	17
Animal	Poultry management	Improved poultry	24-3-18	1	2 no. Amguri	PF	0	0	0	22	18	40	22	18	40

science	nt	farming													
Animal science	Goatery management	Improved goat farming	29-3-18	1	1 no. Gormara	PF	0	0	0	15	5	20	15	5	20
Soil Science	Organic Inputs	Preparation of Compost, Vermicompost & enriched compost	18 th -22 nd Dec, 2017	5	Nalkhamara	PF	14	0	14	11	0	11	25	0	25
Soil Science	Organic Farming	Organic Agriculture	30 th Jan-3 rd Feb, 2018	5	Teliapara	PF	28	0	28	4	0	4	32	0	32
Soil Science	Organic Inputs	Training on Package of practices on vermicompost production	26-03-18	1	Nalkhamara	PF	13	0	13	11	1	12	24	1	25
Fisheries	IFS	Integrated Fishery based Farming system	28 th Aug-1 st Sep, 2017	5	Bhergaon	PF	1	0	1	26	0	26	27	0	27
Fisheries	IFS	Integrated Fishery based Farming system	7 th to 11 th September, 2017	5	Dewrigaon	PF	1	0	1	24	0	24	25	0	25
Fisheries	Composite fish farming	Scientific fish farming for enhanced fish production	31 st Oct to 6 th Nov, 2017	5	Bhergaon	PF	3	2	5	14	7	21	17	9	26

Fisheries	IFS	Fishery based Integrated Fishery System	20 th -24 th Mar, 2017	5	Kacharital	RY	0	0	0	14	15	29	14	15	29
Fisheries	IFS	Integrated fish-horti farming	27.03.18	1	Hirabari	PF	0	0	0	23	9	32	23	9	32
Plant Protection	IPM	Emerging insect pest problem of rice in Udalguri district	21.7.17	1	DAO, Udalguri	EP	17	0	17	8	0	8	25	0	25
Plant Protection	IPM	Integrated pest and disease management in rice	8.8.17 to 12.8.17	5	No. 1 Dewrigaon	PF	0	0	0	27	0	27	27	0	27
Plant Protection	IPM	Integrated pest and disease management in cole crops	6.11.17 to 7.11.17	2	Puroni Tangla	PF	0	0	0	25	0	25	25	0	25
Plant Protection	IPM	Integrated pest and disease management of summer vegetables	27.3.18 to 28.3.18	2	Botabari	PF	13	10	23	1	1	2	14	11	25
Home Science	Value addition	Value addition of fabric through dyeing, printing and embroidery	8.8.17 to 12.8.17	5	Dewrigaon	FW	-	-	-	-	26	26	-	26	26

Home Science	Women and child care	Health and nutritional care of children	20.9.17	1	Hatigarh	EF	-	27	-	3	3	-	30	30	
Home Science	Value addition	Processing and preservation of fruits and vegetables	31.10.17 to 06.11.17	5	Chanbari	RY	-	-	1	25	26	1	25	26	
Home Science	Design and development of high nutrient efficiency diet	Nitrification of traditional recipes	12.12.17 and 13.12.17	2	Jhargaon	FW	-	25	-	-	-	-	25	25	
Home Science	Tailoring and stitching	Garment construction	09.02.18 to 16.02.18	7	Dewrigaon	RY	-	-	-	20	-	-	20	20	
Agri Econ and FM	Formation & Management of SHG	Formation & management of Farmers producers group	22.07.2017	1	Udalguri	EF	10	0	10	15	0	15	25	0	25
Agri Econ and FM	Entrepreneurship Development of farmers/youth	Entrepreneurship development through processing of minor fruits	14.09.2017-19.09.2017	5	Bhelapara	PF	0	12	0	14	14	0	26	26	

Agri Econ and FM	Formation & Management of SHG	Formation & management of FIG	06.11.2017 & 07.11.2017	2	Hasrapara	FW	0	0	0	0	25	25	0	25	25
Agri Econ and FM	Entrepreneurship Development of farmers/youth	Strengthening of women SHGs through hand made décor item	20/3/18 to 24/3/18	5	kacharital	RY	0	0	0	0	25	25	0	25	25
Horticulture	Offseason vegetables	Offseason cultivation of vegetables	09.08.17	1	Dimakuchi	EP	11	0	11	10	0	21	21	0	21
Horticulture	Organic agriculture	Organic cultivation of winter vegetables	28.08.17 to 01.09.17	5	Bhergaon	PF	4	0	4	23	0	23	27	0	27
Horticulture	Floriculture	Commercial cultivation of flowers	21.09.17 & 22.09.17	2	No. 2 Goroibari	RY	10	1	11	11	5	16	21	6	27
Horticulture	Value addition	Value addition of horticultural fruits and vegetables	24.01.18 to 31.01.18	5	Borghuli	RY	0	19	19	0	8	8	0	27	27

(D) Vocational training programmes for Rural Youth

Crop/ Enterprise	Date (From – To)	D u r a t i o n (d a y s	Area of training	Trainin g title*	No. of Participants									Impact of training in terms of Self employment after training				Whe t h e r S p o n s o r e d b y e x t e r n a l f u n d i n g a g e n c i e s (Please Specify with amount of fund in Rs.)
					General			SCST			Total			Type of en t r p r i s e v e n t u r e d i n t o	Num b e r o f u n i t s	Num b e r o f p e r s o n s e m p l o y e d	Avg. A n n u a l i n c o m e i n R s. g e n e r a t e d t h r o u g h t h e e n t e r p r i s e	
					M	F	T	M	F	T	M	F	T					
Apiculture	8.11.17 to 13.11.17	5	Apicultu re	Apicultu re for self employ ment	15	11	26	0	0	0	15	11	26		2	2		No
Mushroom	19.12.17 to 23.12.17	5	Mushro om	Producti on technolo gy and value addition of mushroo m	0	0	0	6	19	25	6	19	25		2	4	30000.0 0	No
Tailoring and stitching	09.02.18 to 16.02.18	7	Cutting and tailoring	Garment construc tion	-	-	-	-	20	20	-	20	20					

*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		

3.4. Extension Activities (including activities of FLD programmes) (Please mention specific Extension Activity conducted by the KVK such as Field Day, Kisan Mela, Exhibition, Diagnostic Visit, etc) during 2017-18

Sl. No.	Extension Activity	Topic	Date and duration	No. of activities	Participants											
					General (1)			SC/ST (2)			Extension Officials (3)			Grand Total (1+2)		
					M	F	T	M	F	T	M	F	T	M	F	T
1.	Advisory	Agromony,	Round the	765	71	13	84	142	37	179	-	-	-	213	50	1263

	services	Horticulture, Plant Protection, Soil Science, Animal Science, Home Science, Agril. Economics etc	Year													
2.	Diagnostic visit	Different diseases and management of livestock and poultry, diagnosis of army worm at field, pest and disease management of field crops and vegetable crops, fish mortality and low production etc.	Round the year	124	57	3	60	143	13	156	-	-	-	200	16	216
3.	Field day			4	20	15	35	20	25	45	0	0	0	40	40	80
4.	Group Discussion	Production Technology of Oyster Mushroom														
5.	Kishan Gosthi															
	Kishan Mela															
6.	Film show	Petroleum Conservation, Krishi Paddhati														550
7.	SHG formation			4	-	-	-	-	40	40	-	-	-	-	40	40
8.	Exhibition	1.Kisan Mela cum	02.06.2017	1												Mass

		Exhibition	& 03.06.2017													
9.		2.Sankalp Se Siddhi	26.08.2017	1												638
10.		3. World Soil Day	05.12.2017	1												637
11.		4. PCRA	09.01.2018	1												30
12.		5. PPV&FRA	17.032018	1												365
13.	Scientists visit to farmers fields	Agronomy, Horticulture, Plant Protection, Soil Science, Animal Science, Home Agril. Economics etc	140		231	30	261	120	89	209	-	-	-	351	119	470
14.	Plant/ Animal Health camp	Animal Health Camp in Flood Effected areas	27.7.2017	1	14	8	22	13	-	13	5	-	5	27	4	31
15.	Farm science club															
16.	Ex-trainee Sammelan															
17.	Farmers seminar/ workshop															
18.	Method demonstration	1. Fertilizer application in arecanut	08.09.2017	1	-	-	-	8	7	15	-	-	-	8	7	15
19.		2. Fertilizer application in	07.08.2017	1	-	-	-	9	11	20	-	-	-	9	11	20

		Banana Sucker															
20.	Celebration of important days	World Environment Day	05.06.2017														60
21.		Honey Bee Day	19.08.2017														30
22.		Sankalp Se Siddhi	26.08.2017														638
23.		Swatchata Hi Seva	25.09.2017 to 12.10.2017														142
24.		Farm Women Day	15.10.2017														25
25.		World Food Day	16.10.2017														28
26.		World Soil Day	05.12.2017														637
27.		National Science Day	28.02.2018													80	
28.		Agril. Education Day	03.12.2017													30	
29.		PPV&FRA	17.03.2018													365	
30.		Live telecasting of PM lecture	17.03.2018													365	
31.	Exposure visits																
32.	Electronic media (CD/DVD)																
33.	Extension literature																
34.	Newspaper coverage																
35.	Popular articles																

36.	Radio talk	1. Scientific cultivation practices of Ginger/ Turmeric	06.04.2017														Mass
37.		2. Bohag mahor Krishi Karjya	06.04.2017														Mass
38.		3. Discussion on Integrated Fish Farming System	08.08.2017														Mass
39.	TV talk																
40.	Training manual																
41.	Soil health camp																
42.	Awareness camp	Animal Health cum Awareness camp in Flood affected areas	27.07.2017	1	14	4	18	13	-	13	3	-	3	27	4	31	
		Awareness cum workshop on Petroleum Product consortium	09.01.2018	1	17	2	19	29	7	26	2	-	2	38	9	47	
		PPV&FRA	17.03.2018	1													517
		Emerging pest problem in Rice	15.11.2017	1	-	-	-	9	21	30	-	-	-	9	21	30	
43.	Lecture delivered as resource person			31												4455	

44.	PRA	Use of PRA tool for assessment and appraisal of village Batabari	28.3.2018 29.3.2018	2	10	25	35	10	5	15	-	-	-	20	30	50
45.	Farmer- Scientist interaction		05.10.2017													24
46.			20.12.2017													27
47.			23.12.2017													25
48.			30.12.2017													18
49.	Soil test campaign															
50.	Mahila Mandal Convener meet															
51.	Any other (Please specify)															
52.																
Grand Total				51	434	100	534	516	255	726	10	0	10	942	351	10979

3.5 Production and supply of Technological products during 2017-18

A. SEED MATERIALS

Major group/class	Crop	Variety	Quantity (qt)	Value (Rs.)	Number of recipient/ beneficiaries		
					General	SC/ST	Total
CEREALS	Rice	Ranjit Sub-1	21.90	83,220.00	Yet to sale		

		<i>Ranjit</i>	8.4	31,920.00	Yet to sale		
OILSEEDS	Rape seed	<i>TS-67</i>	5.4	51,300.00	Yet to sale		
PULSES							
VEGETABLES							
FLOWER CROPS							
OTHERS (Specify)							

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

Sl. No.	Major group/class	Quantity (ton.)	Value (Rs.)	Number of recipient/ beneficiaries		
				General	SC/ST	Total
1	CEREALS	3.03	1,15,140.00	Yet to sale		
2	OILSEEDS	0.54	51,300.00	Yet to sale		
3	PULSES					
4	VEGETABLES					
5	FLOWER CROPS					
6	OTHERS					
TOTAL		3.57	1,66,440.00	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	Tomato	Rocky	0.01375	1158.56		10	10
Forest Spp.	-						
Plantation crops	-						
Medicinal plants	-						
OTHERS (Pl. Specify)	-						

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

Sl. No.	Major group/class	Numbers (In Lakh)	Value (Rs.)	Number of recipient beneficiaries		
				General	SCST	Total
1	Fruits					
2	Spices					
3	Ornamental Plants					
4	VEGETABLES	0.01375	1158.56		10	10
5	Forest Spp.					
6	Medicinal plants					
7	Plantation crops					
8	OTHERS (Specify)					
TOTAL		0.01375	1158.56		10	10

C. Production of Bio-Products during 2017-18 Nil

Major group/class	Product Name	Species	Quantity		Value (Rs.)	Number of Recipient /beneficiaries		
			No	(qt)		General	SCST	Total

BIOAGENTS								
BIOFERTILIZERS	VERMICOMPOST	<i>Eisenia foetida</i>	-	10	12,000.00		10	10
1								
BIO PESTICIDES								
1								

C1. SUMMARY of production of bio-products during 2017-18: 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	VERMICOMPOST		1000 kg	12,000.00		10	10
3	BIO PESTICIDE							
	TOTAL			1000 kg	12,000.00		10	10

D. Production of livestock during 2017-18: Nil

Sl. No.	Type of livestock	Breed	Quantity		Value (Rs.)	Number of Recipient beneficiaries		
			(Nos)	Kgs		General	SC/ST	Total
			1	Cattle/ Dairy				
2	Goat							
3	Piggery							
4	Poultry							

5	Fisheries							
6	Others (Specify)							

D1. SUMMARY of production of livestock during 2017-18: Nil

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

3.6. Literature Developed/Published (with full title, author & reference) during 2017-18

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

(B) Articles/ Literature developed/published

Item	Title/and Name of Journal	Authors name	Number of copies
Research papers	-		
1. Boosting the Productivity of Chillii (Capsicum annum L var. Acuminatum) through INM- a success story	<i>Dimorian Review – a peer reviewed multidisciplinary indexed E-journal Vol.3(2): 45-48</i>	Britan Rahman, M Bharali and P Sarma	NA
2. Introduction of Climbing	<i>Journal of community mobilization and sustainable development</i>	Pabitra Kumar Saharia <i>et al.</i>	NA

Perch (<i>Anabas Testudineus</i> , <i>Bloch</i>) in low lying rice field as a component of integration for doubling farmers income in Assam	Vol.13(1):13-16		
Training manuals			
Technical Report			
1.Contingency Plan	District Agricultural Contingency Plan-Udalguri district	Dr. D Borah <i>et al.</i>	10
2.Annual Report 2017-18	Annual Report 2017-18 of KVK, Udalguri	Dr. D Borah <i>et al.</i>	10
Book/ Book Chapter			
Popular articles			
Technical bulletins	1. Scientific Cultivation practices of rapeseed and mustard	Debarsish Bora <i>et al.</i>	200
	2. Farmers Club	Pallavi Deka	500
	3. Cultivation practices of few Summer vegetables	Sarmistha Borgohain	500
Extension bulletins			
Newsletter			
Conference/ workshop proceedings			
Leaflets/folders	1. Vermicompost production technology	Debarsish Bora <i>et al.</i>	200
	2. Scientific cultivation practices of pea as pulse for NBPZ	Debarsish Bora <i>et al.</i>	200
	3. Scientific cultivation practices of <i>kharif</i> Black gram in Udalguri district	Debarsish Bora <i>et al.</i>	200
	4. Compost-its importance and production technology (in Assamese)	Britan Rahman <i>et al.</i>	200
	5. Importance of Green manuring in agriculture	Britan Rahman	500
	6. Rearing of Chara Chambelli ducks for egg laying	Dipankar Bharali	500
	7. Backyard poultry rearing	Dipankar Bharali	500
	8. Insect pest of citrus	Himadri Rabha	500
e-publications	-		

Any other (Abstract)	Introduction of Climbing Perch (<i>Anabas Testudineus, Bloch</i>) n low lying rice field as a component of integration for doubling farmers income in Assam as abstract in the boob K of abstract of 8h National seminar on Potential, prospect & strategies for doubling farmers income: Multi-stakeholder convergence during 9-11 Nov 2017 at CVSc. Khanapara	Saharia <i>et al</i>	NA
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: Nil

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)

In the different part of the Udalguri district, mushroom cultivation had been very successful. Mushroom cultivation is helping many unemployed youth and farm women to get decent livelihood with less investment in the district. This includes the cultivation of mushroom artificially as the tribal consume the mushroom products grown naturally in forest during monsoon season. In the past several organizations have tried to promote mushrooms but failed due to poor quality of spawn, market linkage and lack of knowledge on scientific cultivation of mushroom. Despite this danger, the number of people in the district fell ill and died after consuming the wild mushrooms that had picked from a nearby forest in the district. However, many progressive tribal farmers of the district started mushroom cultivation commercially. Among them, 4 nos. women of Self Help Groups in the village Kacharital, Udalguri learned that mushroom cultivation is more economical and feasible after attending a training programme conducted by KVK Udalguri. For women looking to earn an income, growing mushrooms is a simple, viable and profitable venture.

KVK Intervention: In 2015, KVK Udalguri conducted a Frontline Demonstration on Production technology of Oyster mushroom at Kacharital, Udalguri covering one woman Mrs. Mira Rabha. Few interested farm women were motivated by her and decided to grow oyster mushroom since it more economical and more profit earning enterprise and approached KVK Udalguri for technical guidance. In the next year, after interacting with the women, KVK Udalguri started a Frontline Demonstration of Scientific production technology of oyster mushroom by forming four nos. of Self Help Groups with the membership of 10 each including Mira Rabha at Kacharital viz; Pragatishil SHG, Binapani SHG, Pubali SHG and Jyotirupa SHG. The Jyotirupa SHG is run by all the college going girls. These Self-Help Groups members improve their economic status by producing oyster mushroom.

Outcome and Impact: Under FLD on production technology of oyster mushroom, the SHGs were provided spawn and polypropylene bags as inputs. In the first year, Mrs. Rabha cultivated oyster mushroom only for one season i.e; October to April with a mere 800 bags and earned a good net return of rs.154150.00 with the BC ratio of 2.81. In 2016, four SHGs were formed by KVK and conducted FLD on Production technology of Oyster mushroom. They started to earn net return of approx. Rs.12000 per month with the B:C ratio of 1.88. In recent years, mushroom consumption has steadily climbed but the production was subject to seasonal supply and demand gap. In the second year, to meet that demand KVK conducted year round mushroom production with same SHGs. KVK also conducted demonstration of value addition and marketing and linking SHGS to market for higher income and empowerment of women. Hence, from the third year, they also started to produce both fresh and dried mushroom and packaging and labeling also done for dried mushroom which is sold for Rs.55/50 gm. Now, the average daily production of oyster mushroom from each SHG is 5 kg-8 kg, 1.43 kg/bed which is sold for Rs 100/kg and during festival season the price may increased to 160/kg. The average net profit of each unit/ year is over Rs 176775.00 with the B:C ratio of 3.89. The success of the effort has encouraged other women for taking up entrepreneurship activities on mushroom. Gradually their business grew and today they excel in the area. The living conditions of the people of this area have changed for the better. The combined effort of the members of SHGs in the village has proved that joint initiatives can be a catalyst for earning livelihood through diversification of traditional farming.



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

3.9 Give details of indigenous technology practiced by the farmers in the KVK operational area which can be considered for technology development (in detail with suitable photographs)

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK
1	Chilli	High density cropping with single harvest to enable growing of second crop. This is done by direct sowing of chilli instead of transplanting, which requires 2 -3 weedings and crop is harvested only once in mature stage.	This technology saves labour because plucking of chilli is high labour intensive practice and costly too. So, in single harvest it saves money with respect to labour and allows second crop to grow immediately after harvest of chilli.

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 : 12 nos.
- ii. No. of farm families selected : 360 nos.
- iii. No. of survey/PRA conducted : 5 nos.

3.12. Activities of Soil and Water Testing

Status of establishment of Lab : Nil

- 1. Year of establishment : Nil
- 2. List of equipments purchased with amount : Mridaparikshak (2016-17)

Sl. No	Name of the Equipment			Qty.	Cost
	S & WT lab	Mini lab/ Mridaparikshak	Manufacturer		
1	Nil	Mridaparikshak	Nagarjuna Agrochemicals Pvt. Ltd	2	180600.00
2			Refill Kit	2	34000.00
Total					214600.00

3. Details of samples analyzed (2017-18) :

Details	No. of Samples analysed	No. of Farmers	No. of Villages	Amount (In Rupees) realized
Soil Samples	100	500	17	6250.00
Water Samples				
Plant Samples				
Petiole Sample				
Total				

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

- a. **No. of SHCs prepared: 500**
- b. **No. of farmers to whom SHCs were distributed: 500**
- c. **Name of the Major and Minor nutrients analysed: pH, OC, N, P, K, S, Zn, B, Fe**
- d. **No. of villages covered:17**
- 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	34	34408	7	7084	12	12144	3	3036	11	1112	10	10149	77	77943
Voice only	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Voice and Text both	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	27	34408	7	7084	12	12144	3	3036	11	1112	10	10149	71	77943

3.14 Contingency planning for 2017-18

a. Crop based Contingency planning

Contingency (Drought/ Flood/ Cyclone/ Any other please specify)	Proposed Measure	Proposed Area (In ha.) to be covered	Number of beneficiaries proposed to be covered		
			General	SCST	Total
	Introduction of new variety or crop	4.0	10	5	15
	Introduction of Resource Conservation Technologies				
	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	SCST	Total
Flood	200	4	2	400	100	200	300

4.0. IMPACT

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

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
INM in Ahu rice var. <i>Disang</i>	3	62	20500.00	37300.00
INM in <i>Sali</i> rice var. <i>Ranjit</i>	10	70	41500.00	49900.00
Sulfur management in Black gram var. PU-31 T1: Practice adopted by farmers. T2: N:P ₂ O ₅ :K ₂ O=15:35:15(2g urea,10 kg DAP and3 kg MOP per bigha) T3: 22 kg SSP as S source +RD of NPK(2 kg urea, 7kg DAP and 3 kg MOP per bigha	5	53	25800.0	18000.00
Integrated management practices of cutworm in potato	5	40	-	-
T- perch as resting sites for predatory insectivorous birds in rice fields as a component of IPM	3	60	16284.00	31090.00
Cultivation of cabbage var. Golden Acre using organic sources of nutrients (Application of RP @ 375 kg/ha and Vermicompost @ 5t/ha and <i>Azotobacter</i> + PSB @ 7.5g each/100 seedling as seedling root dip treatment)	3	56	132600.00	184300.00
Integrated weed management in Chilli	3	60	47120.00	72152.00

(1. Pre emergence application of Pendimethalin @ 1.5k g/ha + hand weeding at 35DAT 2. Garden hoeing at 20 & 40 DAT)				
Performance of Okra var. Arka Anamika using organic sources of nutrients (1. Application of FYM @ 5t/ha + vermicompost @ 1t/ha + RP @ 320kg/ha 2. <i>Azotobacter</i> + PSB @ 7.5g each/100 seeds as seed treatment)	5	40	189518.00	221000.00
Rejuvenation of declining Mandarin orchard var. Khasi Mandarin	3	40	181000.00	345000.00
Popularization of HYV of turmeric var. Megha Turmeric-1	3	60	230400.00	372200.00
Popularization of exotic vegetable Broccoli	3	45	208000.00	237000.00
Introduction of improved breed <i>Kamrupa</i>	67	30	474/bird	995/bird
Introduction of improved breed Vanaraja	50	60	485/bird	1045/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
Union fabric (polyester and cotton) with fabric construction	7	60	900.00/kg	2900.00/kg

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

4.2. Cases of large scale adoption

(Please furnish detailed information for each case)

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	Jagar an 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 2017-18

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

5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district Yes

Sl. No.	Programme	Nature of linkage	Remarks
1.	Conducted training Programmes	Training, Resource person, Melas, Kisan Kalyan Karyasala	

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.	Sponsored training	Funding for training	

6. PERFORMANCE OF INFRASTRUCTURE IN KVK DURING 2017-18

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	Produce	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	16/7/2017	14/11/2017	1.5	Ranjit/ Ranjit Sub-1	Seed	30.3 q	73876.00	115140.00	Yet to sale
Wheat									
Maize									
Any other									
Pulses									
Green gram									
Black gram									
Arhar									
Lentil									
Ay other									
Oilseeds									
Mustard/ Toria	19/11/2017	19/02/2018	1	TS-67	Seed	5.4 q	27810.00	51300.00	Yet to sale

Soy bean									
Groundnut									
Any other									
Fibers									
i.									
ii.									
Spices & Plantation crops									
i.									
ii.									
Floriculture									
i.									
ii.									
Fruits									
i.									
ii.									
Vegetables									
i.	25/11/2011	29/03/2018	60	Tomato	Vegetables	.67	300.00	1145.00	Sold

			sqft	Var. Rocky		q	(Seed cost)		
ii.	22/11/2017	19/1/2018	40 sqft	Cucumber Var. Malini	Vegetables	.011 q	100.00 (Seed cost)	330.00	Sold
a. Others (specify)									
i.									
ii.									

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

Sl. No.	Name of the Product	Qty	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
1.	Vermicompost	10 q	12100.00	12000.00	Only first harvest is done. It will generate income in upcoming years

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

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

6.5 Rainwater Harvesting

Training programmes conducted by using Rainwater Harvesting Demonstration Unit:
Nil

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

6.6. Utilization of hostel facilities (Month-Wise) during 2017-18: 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	SBI	Jorhat	102533820770
With KVK	SBI	Rowta	33659377112
Revolving Fund	SBI	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 2017 -18

S. No.	Particulars	Sanctioned (in Lakh)	Released (in Lakh)	Expenditure (in Lakh)
A. Recurring Contingencies				
1	Pay & Allowances	91.00	91.00	87.78751
2	Traveling allowances	2.00	2.00	1.99552
3	Contingencies			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	14.00	14.00	12.67482
B	POL, repair of vehicles, tractor and equipments			
C	Meals/refreshment for trainees			
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)			
E	Frontline demonstration except oilseeds and pulses			

	(minimum of 30 demonstration in a year)			
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)			
G	Training of extension functionaries			
H	Maintenance of buildings			
I	Establishment of Soil, Plant & Water Testing Laboratory			
J	Library			
TOTAL (A)			107.00	107.00
B. Non-Recurring Contingencies				
1	Works		-	-
2	Equipments including SWTL & Furniture		-	-
3	Vehicle (Four wheeler/Two wheeler, please specify)		-	-
4	Library (Purchase of assets like books & journals)		-	-
TOTAL (B)			-	-
C. REVOLVING FUND			-	-
GRAND TOTAL (A+B+C)			107.00	107.00
			102.45785	102.45785

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 2015 to March 2016	0.71519	0.59561	0.84976	0.46104
April 2016 to March 2017	0.46104	0.99780	0.85117	0.60767
April 2017 to March 2018	0.60767	0.98910	1.18051	0.41626

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