ANNUAL REPORT OF KVK, SIVASAGAR, 2016-17

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail
	Office	FAX	
Krishi Vigyan Kendra, Sivasagar, Assam. PO: Dhopabar Via Santak PIN : 785687 www.kvksivasagar.nic.in	NA	NA	kvk_sivasagar@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	0376-2340029	0376-2310708	registrar@aau.ac.in

1.3. Name of the Programme Coordinator with Phone & Mobile No.

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr.PhuleswarNath	NA	9954411012	phuleswarnath@rediffmail.com

1.4. Year of sanction: 2003

1.5. Staff Position **(As on 31st March, 2017)**

Sl. No.	Sanctioned post	Name of the incumbent	Design-ation	Discipline	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category (SC/ST / OBC/ Others
1	Sr. Scientist and Head	Dr. Phuleswar Nath	Sr. Scientist and Head	Plant Pathology	37400-67000	65520	31.03.05	Permanent	OBC
2	Subject Matter Specialist	Mr.Rupjyoti Borah	Subject Matter Specialist	Soil Science	15600-39100	27390	10.10.01	Permanent	OBC
3	Subject Matter Specialist	Mrs.Toslima Sultana Begum	Subject Matter Specialist	Home Science	15600-39100	27390	08.11.08	Permanent	General
4	Subject Matter Specialist	Mrs. Nayanmoni Buragohain	Subject Matter Specialist	Horticulture	15600-39100	25050	08.08.11	Permanent	OBC
5	Subject Matter Specialist	Mrs. Trishnalee Saikia	Subject Matter Specialist	Agril. Economics	15600-39100	22950	07.11.08	Permanent	MOBC
6	Subject Matter Specialist	Dr. Debajit Deka	Subject Matter Specialist	Animal Science	15600-39100	21630	27.10.15	Permanent	General

7	Subject Matter Specialist	Miss Priyanka Dutta	Subject Matter Specialist	Agronomy	15600-39100	21630	19.10.15	Permanent	OBC
8	Programme Assistant	Mr.Priyabrot Bordoloi	Prog. Asstt.	Agri. Extension	8000-35000	13690	29.12.15	Permanent	General
9	Computer Programmer	Sri Juga Rashmi Borah	Prog. Asstt. (Comp)	Computer	8000-35000	18920	11.11.08	Permanent	OBC
10	Farm Manager	Mr. Debashish Baruah	Farm Manager	Agronomy	8000-35000	13290	31.8.15	Permanent	General
11	Accountant / Superintendent	Mrs. Rashmirekha Saikia	Office Superintendant cum Accountant	Agri-Business Management	8000-35000	14540	22.02.12	Permanent	OBC
12	Stenographer	Mrs. Karabi Borgohain Phukan	Jr. Steno cum computer operator		5200-20200	11220	18.02.12	Permanent	OBC
13	Driver	Sri Phanidhar Gogoi	Driver cum Mechanic		5200-20200	9390	22.02.12	Permanent	OBC
14	Driver	Mr.Jitu Baruah	Driver cum Mechanic		5200-20200	7400	30.11.2016	Permanent	OBC
15	Supporting staff	Baneswar Gogoi	Grade -IV		4560-15600	11710	09.02.96	Permanent	OBC
16	Supporting staff	Vacant							
	Total		15/16						

Note: No column in the table must be left blank

1.6. a. Total land with KVK (in ha) :**13.7 ha**

b. Total cultivable land with KVK (in ha) :10.5 ha

c. Total cultivated land (in ha) :2.5 ha

SL. No.	Item	Area (ha)
1	Under Buildings (Administrative building+ Farmers' Hostel+ Staff Quarters)	0.800
2.	Under Demonstration Units	0.014
3.	Under Crops (Cereals, pulses, oilseeds etc.)	2.0 ha
4.	Under vegetables	

5.	Orchard/Agro-forestry	0.5
6.	Others (Fishery)	0.65

1.7. Infrastructural Development:

A) Buildings

Sl. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR	19.7.2014	238	8498471.75		-	100% Complete
2.	Farmers Hostel	-do-	-			14.4.2009	305	Incomplete
3.	Staff Quarters (6)	-do-				14.4.2008	298	95% Complete
4.	Demonstration Units (2)	RKVY	9.10.2013 11.2.2014	237.87	2037304.00			100% Complete
5	Fencing	ICAR	26.7.2012	723	1425899.00	-	823	45% Complete

B) Vehicles

Type of vehicle	**Regd. No.**	**Year of purchase**	**Cost (Rs.)**	**Total kms. Run**	**Present status**
Mahindra Marshall Jeep	AS-03E-0029	2005-06		108700	Good
Power Tiller		2009	148000.00		Good

C) Equipments& AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Kilburn Mita Digital Copier	2006	48,360.00	Good
Digital photo copier	2010-11	101920.00	Good
2KVA Voltage stabilizer	2006	3,375.00	Good
Duplicating machine	2005	43,686.00	Out of order
Desktop Computer	2006	27,101.00	Good
Desk Top Computer	2010	55,094.00	Good
Laptop	2010	31547.00	Out of order
Laser Printer	2006	9,605.00	Out of order
Laser Printer	2010	5475.00	Out of order
1KVA UPS	2006	5,951.00	Out of order
Scanner	2006	3,549.00	Out of order
Scanner	2010	2724.00	Needs to repair
Digital Camera	2005-06	15,080.00	Not up to date
Digital Camera	2010	19000.00	Good
Fax Machine	2005-06	25,792.00	Not in use
Fax Machine	2010	15190.00	Not in use
Cassette Player with Amplifier	2005-06	5,625.00	Good
Microphone with stand	2005-06	6,300.00	Good

300 watts Sound Box with 15" Speaker	2005-06	11,250.00	Good
LCD Projector	2005-06	55,016.00	Good
UPS	2009-10	2150.00	Not in working condition
Weather station	2012	45,000.00	Good

1.8. A). Details SAC meeting* conducted in the year 2016-17

Sl.No.	Date	Name and Designation of Participants	Salient Recommendations	Action taken on last SAC recommendation
1.	23.03.2017	Dr. K. M. Bujarbaruah, Vice-Chancellor, AAU, Jorhat	Attached under	Attached under
		Dr. H. C. Bhattacharya, DEE, AAU, Jorhat		
		Dr. M. Neog, ADEE (T), AAU, Jorhat		
		Dr. T. Ahmed, Chief Scientist, RARS, Titabar		
		DR. K. DevGoswami, DVO, Sivasagar		
		Mr. H. C. Deori, GM, DLCC, Sivasagar		
		Dr. A. Changkakoti, DAO, Charaideo		
		Dr. A. Barthakur, DAO, Sivasagar		
		Ashok Bora, Extension Officer, Sericulture		
		DibyajyotiDoley, Range Officer, Soil Conservation, Sivasagar		
		SimantaJyotiBaruah, Farmer		
		ArotiChetia, Farm Women		
		SaratGogoi, Farmer		
		LohitGogoi, Founder, KASS-NASS		
		Dr. S. K. Dutta, ATMA, Sivasagar		
		PremaDharDeka, DFDO, Sivasagar		
		DeepsikhaSaikia, Jr. Engineer		
		UshaKonwar, Jr. Engineer		
		L. Mahanta, DDM, NABARD		
		M. Setty, LDM, Sivasagar and Charaideo		
		SantanuBaruah, Asstt. Conservator of Forest, Sivasagar		
		AbhijitBaruah, DDC, Sivasagar		
		Ram Kanu, Suraksha NGO		
		SumanjitLahan, SHAP NGO		

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

Salient recommendations:

- During interaction with district fishery officer, Chairman said that one fishery expert from FRC, AAU, Joraht-13 will be appointed in KVK Sivasagar.
- Recommendation for farmers producers organization (FPO) on mushroom, fishery and other agricultural value added products.
- During interaction with farmers, the Chairman asked to go for trial on short duration Arhar crop.
- It was advised to work collaboratively with Dr.RamaniKantaThakuria, Deptt. of Water Management, AAU, Jorhat for ground water recharging procedure in the needed areas.
- It was advised to develop an ideal farming system model by DAO, Cheraideo along with help of KVK, Sivasagar if needed.

Action taken report

Sl no.	**Action Point**	**Action taken**
1	The tomato variety ArkaRakshak is to be tested against bacterial wilt instead of ArkaShrestha	Testing of triple resistant tomato variety ArkaRakshak under field condition.
2	Rechecked the occurrence of Brown Spot disease in Ranjit Sub-1	Brown Spot disease recorded in negligible severity with resistant reaction
3	Workshop on "Problems and prospects of multicropping : exploring potentialities in upper Assam" was to be organized.	Could not be done due to time constraints.
4	Attention should be given to create Farmers Producers Organization (FPO) with commodities like mushroom, vermicompost, fish production and other value added products with necessary support from NABARD	Only two Farmers Clubs (FC) have been created with full support from DDM, NABARD
5	To implement SMART farming concept for small farmers where technology inputs could be obtained from Govt. of India's programme such as organic farming which includes organic crop production, organic livestock production and certified accordingly as organic	Already about 100 ha area has been selected for organic production and 50 ha for double cropping. Report will be submitted soon.
6	The process of soil health Card (SHC) to the farmers should be continued with full zeal and the areas deficient in specific nutrients should be amended properly.	Issued 1961 nos. Soil Health Card to the farmers despite of having own lab facility. The uploading in KVK Portal is on.
7	Some new fruit crops like apple, almond, new varieties of Mango should be tried in the district for crop diversification.	Necessary arrangement has been made to plant Mango variety Amrapali at KVK, Farm
8	Special attention on pulse crop should be given in the district	Already done
9	On Farm trial on true Potato Seed should be taken up	Yet to done

2. DETAILS OF DISTRICT

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

Sl. No	Farming system/enterprises
1.	Agri – Hort – AH
2.	Agri – Hort – AH – Fishery
3.	Agri – Hort – AH – Seri
4.	Hort – Agri
5.	AH
6.	AF – Agri

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

Sl. No	Agro-climatic Zone	Characteristics
1	Upper Brahmaputra Valley Zone	❖ This zone covers 160789 sq/ km ❖ Hot and wet summer climate ❖ Maximum temperature 37^{o}C ❖ Minimum temperature 7^{o}C ❖ Relative Humidity : 96% ❖ Heavy rainfall: March, April and May ❖ Very cold during January and February ❖ Dry weather: Mid October – Mid December

2.3 Soil type/s

Sl. No	Soil type	Area in ha
1.	Inceptisol (Old Alluvial)	136863
2.	Entisol (Recent Alluvial)	68116

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

Sl. No	Crop	Area (ha)	Production (Mt)	Productivity (kg/ha)
1	Winter paddy	95535	236386	2474.34
2	Autumn Paddy	129	150	1163
3	Summer paddy	172	510	2965.12
4	Wheat	9	12	1333.33
5	Black Gram	278	153	550.36
6	Lentil	7	3	428.57
8	Rapeseed & Mustard	1887	932	494
9	Sugarcane	84	2992	35619
10	Jute	25	211	8440
11	Banana	1569	25708	16385
12	Orange	293	2867	9785
13	Pineapple	137	1990	14526
14	Papaya	158	3847	24348

15	Litchi	176	1178	6693
16	Mango	288	3362	11674
17	Guava	219	4159	18991
18	Jackfruit	893	6858	7680
19	Assam lemon	504	2885	5724
20	Potato	745	3296	4424
21	Onion	55	153	2782

2.5. Weather data

Month	Rainfall (mm)	Temperature ^{0} C		Relative Humidity (%)
		Maximum	Minimum	
April, 2016	213.8	33.9	17.9	89.5
May, 2016	395.8	38.4	19.3	89
June, 2016	148.8	38.1	23	87.8
July, 2016	335	37.3	24.8	90.8
Aug, 2016	240	39.5	23.5	88
Sept, 2016	373.6	35.8	23.5	93.1
Oct, 2016	86.4	36.6	19.5	90.5
Nov, 2016	35	31.6	10.6	88.5
Dec, 2016	11.8	28.2	7.6	86.5
Jan, 2017	6	27.8	6.6	83.5
Feb, 2017	76	31.5	9.1	82.6
Mar, 2017	134	32.3	12.3	84.6

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

Category	Population	Production	Productivity
Cattle	413355		
Indigenous cattle	345063		
Crossbreed cattle	15607		
Buffalo	18653		
Sheep	111		
Goats	114689		
Horses and ponies	323		
Pigs	79714		
Total livestock	690980		
Fowls	457127		
Ducks	172094		

Numbers and Area of fishery, fish production in Sivasagar District

Sl. No.	Item	Unit	2011-12	2012-13
1	Registered beel	Nos.	14	260
2	Area under registered beel	Hect.	1920	260
3	Unregistered beel	Nos.	117	133
4	Area under unregistered beel	Hect.	1469.22	2665
5	Registered River Fisheries	Hect.	-	
6	Fish production		-	
	Department	Kg	-	
	Private	M.T.	11558.93	10579.82
7	Seed Production			
	Department	Lakh		
	Private	Lakh	173.80	81.20
8	Imp. Fish from outside the state	Tonnes	240	210

Source: Office of the Deputy Director of Economics and Statistics, Sivasagar

2.6 Details of Operational area / Villages (2016-17)

No	Taluk	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1.	Sivasagar sub-Division	Sivasagar block	Betbari, Cherekapar, Nemuguri, Hanhsora, Gargaon, Rajabari, Rajmai, Bakata.	Rice, Tea, Horticulture crops, Vermicompost, Mushroom, Backyard poultry	Pests and diseases, flood	Rice, Tea, dairy, piggery, fishery, Horticulture crops, Vermicompost, Mushroom,
		Demow block	Rajabari, Netaipukhuri, Sukhanpukhuri, Demow, Disangmukh, Panbesa, Konwarpur, Jhanji, Sesamukh, Bhekurichapori	Rice, mustard, vegetables and horticultural crops, Vermicompost, Mushroom, Backyard poultry	Low productivity, pests and diseases.	Rice, mustard, vegetables, pea, black gram. Mushroom, Backyard poultry
		Gaurisagar block	Rangpur, Rudrasagar, Magarhat, Dikhowmukh, Khanamukh, Rupohimukh, Discial, Bhorolua, Garbhoga, NakataniKalugaon, Charing Duwarahpar, Khanikargaon	Rice, vegetables, fishery, poultry, piggery. Vermicompost, Mushroom,	Low productivity, pests and diseases. Flood occurrence.	Rice, fishery, vegetable crops, contingency planning, Vermicompost, Mushroom, Backyard poultry
2.	Amguri sub-division	Amguri block	Namti, Amguri, Lalimchiga, Khanikar, Samguri, Tarabari, Haluating, phulpanichiga	Rice, mustard, wheat, horticultural crop.	Pests and diseases. Low productivity of citrus.	Rice, horticultural crop, rejuvenation of citrus plantations.
3.	Nazira Sub-division	Nazira block	Nazira, Simologuri, Namti, Galeki, Dhopabar, Hanhsora, Bartala, Ligiripukhari, Chauak, Bihubar, Mesagarh, Rohdoipukhuri, mezenga, sundarpukhuri	Rice, wheat, jute, potato, sugarcane, piggery, fishery, dairy Vermicompost, Mushroom, Backyard poultry	Low production, pest and disease incidence.	Management of production technology. Vermicompost, Mushroom, Backyard poultry

4.	Sonari sub-division	Sonari block	Lakua, Safrai, Mathurapur, Dolbagan, Borhat, Bhojo, Tengapukhuri, Sepon, Abhoipur, Maibela, Charaideo,	Rice and horticultural crops, banana, pine apple, coconut,	Nursery raising, pest and disease problem	Rice, horticultural crops, pine apple, papaya, banana, coconut, mustard.
		Mahmora block	Nirmalia, Nizkhaloighugura, Kochupathar, Moranjan, Doba, Lessaihabi, Laiseng, Barbarua, Moudumoni, Himpara, Bisrampur, Nabajyoti, Bogoriting, Holmari	Rice and horticultural crops, banana, pine apple, coconut, tea	Nursery raising, pest and disease problem	Rice, horticultural crops, pine apple, papaya, banana, mustard, Vermicompost, Mushroom, Backyard poultry
		Sapekhati block	Balikhetia, Chotianaguri, Kanubari, Balijan,	Rice and horticultural crops, banana, pine apple, pea,	Nursery raising, pest and disease problem	Rice, horticultural crops, pine apple, papaya, banana, coconut, mustard.

3. TECHNICAL ACHIEVEMENTS

3. A. Details of target and achievements of mandatory activities by KVK during 2016-17

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	
	Target	Achievement	Targets	Achievement	Target	Achievement	Target	Achievement
Agronomy	3	3	9	9	4	3	8	8
Horticulture	3	2	8	4	4	3	8	10
Animal Science	2	2	20	20	2	2	30	30
Soil Science	3	3	15	15	2	2	17	17
Home Science	0	1	0	3	0	1	0	3
Plant protection	3	2	9	3	2	1	28	4
Agril. Economics	2	0	200	0	2	0	175	0
Total	**16**	**13**	**261**	**54**	**16**	**12**	**266**	**72**

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	17	35	750	845	75	90	100	2000
Rural youth	21	13	855	355	50	65	40	1575
Extn. Functionaries	9	2	300	49	11	20	20	75
Total	**137**	**53**	**1905**	**1249**	**136**	**175**	**160**	**3650**

Seed Production (ton.)		Planting material (Nos. in lakh)	
5		6	
Target	**Achievement**	**Target**	**Achievement**

Note: Target set during last Annual Zonal Workshop

3. B. Abstract of interventions undertaken during 2016-17

Sl. No	Thrust area	Crop/ Enterprise	Identified problems	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Varietal Evaluation	Rice	Requirement of suitable flood tolerant variety for 4.46% land area of Sivasagar district	OFT on submergence tolerant rice variety Ranjit Sub1, Swarna Sub1 and Bahadur Sub1		An introduction to newly developed rice varieties			Seed,fertilizer ,plant protection chemicals
		Rice-Lathyrus	Monocropping leads less profit to the farmers	INM in Lathyrus under Rice utera condition					Seed,fertilizer ,plant protection chemicals
		Rice-Toria	Monocropping leads less profit to the farmers	Rice-Toria cropping sequence					Seed,fertilizer ,plant protection chemicals
		Rice	High incidence of bacterial wilt disease	Evaluation of Ranjit Sub-1 against brown spot disease under field condition					Seed,fertilizer ,plant protection chemicals

		Tomato		Performance of tomato variety ArkaRakshak against bacterial wilt under field condition					Seed,fertilizer ,plant protection chemicals
		Toria			Popularizatio n of HYV toria var. TS-67 under late sown condition				
		Sesamum			Popularizatio n of sesamum variety Koliabor local in summer season				
		Quail	Cholesterol level in Meat and egg	Evaluation of quail in Sivasagar district					Day old chick, pre starter feed and medicine
		Kamrupa	Evaluation of improved dual type of poultry Kamrupa in Sivasagar District as backyard system	Non availability of improved variety	Rearing of improved dual type of poultry Vanaraja in Sivasagar District under backyard system				Day old chick, pre starter feed and medicine

		Pig			Popularization of improved crossbred Hampshire pig				Piglet, medicine
2	Crop production	Rice			Popularization of medium duration high yielding Sali rice var.TTB-404	Production technology of ahu rice-3			Seed,fertilizer ,plant protection chemicals
3	Integrated crop management	Oilseeds (NMOOP)			1.CFLD onkharif oilseed crop sesamum 2. CFLD on Rabi oilseed crop Toria	1.Scientific sesamum cultivation-2 2.Scientific cultivation of toria			Seed, Bioagent, Biofertilizer, plant protection chemical
		Pulses(NFSM)			1.CFLD on kharif pulses Greengram 2. CFLD on kharif pulses crop Blackgram 3. CFLD on summer pulses crop Greengram 4. CFLD on summer pulses crop Blackgram	1.Scientific cultivation of kharif pulses 2.Scientific cultivation of Blackgram 3.Scientific cultivation of Greengram 4.Scientific cultivation of Lentil-2 5.Scientific cultivation of pea 6.Scientific method of cultivation of major pulses			Seed, Bioagent, Biofertilizer, plant protection chemical

4	Fodder production					1.Scientific cultivation of fodder crops-2 2. Scientific cultivation of fodder, toxic plants, toxicity and its treatment			
5	Flower production(contd.from 2015-16)	Marigold	Lack of high yielding variety during summer season	Evaluation of summer marigold 'seracole"	Popularization of tuberose 'Calcutta double"	-	-	-	Planting material,fertilizer,plant protection chemicals
6	Vegetable production	Okra Pumpkin	Low temperature and moisture reduces the early yield	Plastic mulching in okra	FLD on Pumpkin Var. Arjuna F1 in Sivasagar District	1.Production technology of cucurbits 2.Production technology of low volume high value vegetables	-	-	Seed, black polythene mulch,fertilizer,plant protection chemicals
7	Organic farming	Cabbage	Organic farming is the need of hour	Cultivation of cabbage using organic source of nutrients	-	-	-	-	Seed, biopesticide, biofertilizer, vermicompost
8	Spice production	Black pepper			Scientific cultivation of Black pepper in existing Arecanut Orchard				Planting material(bulb),fertilizer,plant protection chemicals

9.	Fruit production				Demonstration on papaya var. Red Lady and Sapna	1.Improved production technology of Banana-2 2.Improved production technology of pineapple			Seed, plant protection chemicals
10	Nutritional garden					Establishment and management of nutritional garden			
11	Soil fertility management	Rice-pea		Water and fertility management in rice-pea cropping sequence	Effect of Zinc in rice productivity	Management of soil resources for the future Principles of fertilizer application and increasing its efficiency		Field day Training	Critical inputs
12	INM	Toria		INM in toria		Azolla culture and production o enriched compost Integrated Nutrient Management-2			
13	Soil amendment	Blackgram		Acid soil management in blackgram		Soil management practices for sustained soil fertility		Field day,	Critical inputs
14	Production of organic inputs					Vermiculture and vermicomposting – 5			
15	Goat farming					Scientific management of goat			
16	Livestock Production					Recent Advances in Livestock and poultry production-2			

17	Pig farming					Scientific management of pig-2			
18		Paddy	Drudgery in agricultural operations reduces productivity and cause health hazards.	Suitability/Acceptability Assessment of Protective clothing/accessories for agricultural workers specially for Harvesting and post harvesting operation like threshing,dehusking/ cleaning					
19	Value addition					Preparation of value added milk products			
20	Designing low/minimum cost diet					Hands on training on Design and Development of low/minimum cost diet			
21	Women and child care					Reproductive health care of Adolescent girls			

22	Organic dye				Demonstration for enterprise on Natural and Chemical dye on Endi and cotton fibre and fabrics and designing for diversified items				
23	IPM	Rice			Seed treatment with Mancozeb and Carbofuran and placing bird perch (need based IPM component)				Critical inputs

3.1 Achievements on technologies assessed and refined during 2016-17

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	Agron-1 PP-1	Agron-1	Agron-1	-	PP-1	-	Hort-1	-	-	6
Seed / Plant production	-	-	-	-	-	-	-	-	-	-
Weed Management	-	-	-	-	Hort-1	-	-	-	-	1
Integrated Crop Management	Soil-1	-	Soil-1	-	-	-	-	-	-	2
Integrated Nutrient Management	-	Soil-1	-	-	-	-	-	-	-	1
Integrated Farming System	-	-	-	-	-	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-	-	-	-	-	-
Drudgery reduction	Home Science-1	-	-	-	-	-	-	-	-	1
Farm machineries	-	-	-	-	-	-	-	-	-	-
Value addition	-	-	-	-	-	-	-	-	-	-
Integrated Pest Management	-	-	-	-	-	-	-	-	-	-
Integrated Disease Management	-	-	-	-	-	-	-	-	-	-
Resource conservation technology	-	-	-	-	-	-	-	-	-	-
Small Scale income	-	-	-	-	-	-	-	-	-	-

generating enterprises										
Organic cultivation	-	-	-	-	Hort-1	-	-	-	-	1
TOTAL	-	-	-	-	-	-	-	-	-	12

* *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 HarvestTechnology										
Integrated Pest Management										
Integrated Disease Management										

Resource conservation technology										
Small Scale income generating enterprises										
TOTAL										

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

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

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

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 (if applicable)
1	OFT on submergence tolerant rice variety Ranjit Sub1, Swarna Sub1 and Bahadur Sub1	Requirement of suitable flood tolerant variety for 4.46% land area of Sivasagar district	Submergence tolerant rice variety Ranjit Sub1, Swarna Sub1 and Bahadur Sub1 Check variety: Jalashree	Rice fallow	3 (Gowalpothar, NapaamKhonikor and Mautgaon)	**Swarna Sub 1**: DS:2.6.16-8.6.16 DT:13.7.16-26.7.16 Period of Submergence: i)23.7.16-25.7.16 ii)10.8.16-12.8.16 No of tillers after 30 days: 60-68 Plant height after 45 days: 73.67cm Days to 50% flowering: 5.10.16-18.10.16 ET:15-17 Length of panicle: 25.50cm No of effective grains per panicle:320-355 No of uneffective grains per panicle: 10-15 Yield :4.5 t/ha **Ranjit Sub 1**: DS:2.6.16-8.6.16 DT:13.7.16-26.7.16 Period of Submergence: i)23.7.16-25.7.16 ii)10.8.16-12.8.16 No of tillers after 30 days: 53-55 PH after 30 days: 83.82 cm Days to 50% flowering: 3.10.16-12.10.16 ET:18-20 Length of panicle: 30.25cm No of effective grains per panicle:390-402	Farmers are satisfied with the performance of the variety. Specially Ranjit Sub 1 and Swarna Sub 1 because of its medium slender grain type. As these varieties can tolerate submerged condition upto 10-12 days, so farmers express their	Yield is found to be good in each variety. But in case of Ranjit Sub 1 it was observed that after 2nd top dressing of urea brown spot disease appear but it does not hamper the yield.	Swarna Sub 1: 1.04 RanjitSub-1 1: 1.29 Bahadur Sub 1: 1.26 Jalashree: 0.97

						No of uneffective grains per panicle:10-12 Yield : 5.6t/ha **Bahadur Sub 1**: DS:2.6.16-8.6.16 DT:13.7.16-26.7.16 Period of Submergence: i)23.7.16-25.7.16 ii)10.8.16-12.8.16 No of tillers after 30 days: 60-65 PH after 30 days: 88.90 cm Days to 50% flowering:7.10.16-18.10.16 ET: 20-22. Length of panicle:30.40cm No of effective grains per panicle:350-400 No of uneffective grains per panicle:12-18 Yield :5.45t/ha **Check variety:Jalashree**: DS:2.6.16-8.6.16 DT:13.7.16-26.7.16 Period of Submergence: i)23.7.16-25.7.16 ii)10.8.16-12.8.16 No of tillers after 30 days: 45-51 PH after 30 days: 99.60 cm Days to 50% flowering:10.10.16-19.10.16 ET: 18-20. Length of panicle: 24.76m No of effective grains per panicle:295-320 No of un-effective grains per panicle:10-15 Yield :4.2t/ha	willingness to accept these varieties		
2	INM in Lathyrusun	Monocropping leads less	INM in double	Rice fallow	3 (Dihingmukh	**Rice:** DS:10.6.16-17.6.16	Lathyrus has the	After 30-40	

	der Rice utera condition	profit to the farmers	cropped Lathyrus under rice utera condition. (Rice variety :Mashuri, Lathyrus variety: Ratan)		, Kochupothar and Deodhaigaon)	DT:5.7.16-16.7.16 No of tillers at the time of maturity: 18-20 No of ET: 15-18 PH at maturity: 120 cm Days to 50% flowering: 1.10.16-9.10.16 Length of panicle: 27.50cm No of effective grains/panicle: 320-355 No of uneffective grains/panicle:5-10 Yield: 4.3t/ha **Lathyrus:** DS: 3.10.16-9.10.16 Other characters: Crop is at pod formation stage	capacity to survive under drought condition. So farmers point of view is that lathyrus has tremendous scope in Sivasagar district if irrigation can be provided in critical stages.	sowing lathyrus faces drought stress condition. But the crop is able to overcome stress condition. It has a great possibility of acceptance by the farmer	
3	Rice-Toria cropping sequence	Monocropping leads less profit to the farmers	Winter rice (TTB-404-Toria (TS 38) Check variety: MashuriRanjit	Rice fallow	3(Dihingmukh,NizkhaloighogoraandDikhowmukh)	**TTB 404:** DS:10.6.16-17.6.16 DT:5.7.16-16.7.16 No of tillers at the time of maturity: 18-20 No of ET: 14-16 PH at maturity: 120 cm Days to 50% flowering: 28.09.16-5.10.16 Length of panicle: 24.76m No of effective grains per panicle:350-415 No of un-effective grains per panicle:8-15 Yield :4.6 t/ha	Farmers are satisfied with the performance of both the rice variety and toria variety.		TTB-404:1.21 Mashuri: 1.19 Ranjit:1.16 Toria: 2.00 Rice (TTB-404) equivalent yield of toria:7.61 t/ha B:C ratio of cropping sequence is:1.95

						Toria: DS: 4/11/2016 Plant height: 1.10cm Date of harvesting: 6/2/17 No of siliqua per plant: 300-370 No of seed per siliqua: 20-24 Yield: 9.45 q/ha **Mashuri:** DS:10.6.16-17.6.16 DT:5.7.16-16.7.16 No of tillers at the time of maturity: 15-17 PH at maturity: 125cm Days to 50% flowering: 26.09.16-4.10.16 Length of panicle: 23.75m No of effective grains per panicle:290-345 No of un-effective grains per panicle:10-12 Yield :4.25t/ha **Ranjit:** DS:10.6.16-17.6.16 DT:5.7.16-16.7.16 PH at maturity: 105.5cm Days to 50% flowering: 12.10.16-16.10.16 No of effective tillers :15-18 Length of panicle: 28.50m No of effective grains per panicle:305-410 No of un-effective grains per panicle:12-18 Yield :4.8t/ha			
4	Water and fertility	Underutilizati on of residual	Rice-relay pea with	Rice- fallow	5 (Deodhaigao	Rice: Mashuri No of ET: 12-16	The technolog	The technolog	B:C Ratio : Double crop

	management in rice-pea system under relay	effect of fertilizers in rice and decline in soil conditions in heavy textured soil	basal application of vermicompost (@ 1 t/ha) and FYM (@ 2.5 t/ha) to rice crop and 1 irrigation of 4 cm at flowering stage of pea		n, Khanikar, Kochupothar, Gorukhutigaon)	PH at maturity: 110 cm No of effective grains/panicle: 300-340 Yield : 4.25t/ha Pea: Pod no per plant: 12-15 Grain no per pod: 3-5 Grain yield : 8.76 q/ha Ranjit (monocrop) PH at maturity: 107.5cm No of effective tillers per plant : 18 No. of grains per panicle : 310-405 Yield : 4.9t/ha The available N, P_2O_5, K_2O and Organic carbon in the OFT recorded an increase of 2.95, 10.6, 2.02 and 21.43 per cent over initial and 4.67, 13.09, 1.55 and 13.34 percentover farmers'practice(Rice monocrop).	y is acceptable if irrigation facilities are available and considerable soil moisture is there.	y seems to have a limitation of performing well in heavy soil with low organic matter content. However, increasing organic inputs in the first crop may meet the problem to some extent in such soils.	: 1.67; Rice monocrop : 1.10
5	INM in Toria	Deteriorating soil health due to overdependence on chemical fertilizers	Fertilizer @ 45 : 22.5 : 30 kg (N : P_2O_5 : K_2O)/ ha along with Azotobacter and PSB each @ 40g/ kg seed	Rice-Toria	5	Plant Height: OFT -108 cm FP -105 cm No. of Siliqua/plant : OFT -358, FP- 321 No. of seeds/siliqua: OFT-24, FP-15 Yield: The OFT recorded 11.22% increasing yield(9.8q/ha) over farmers practice (8.7q/ha). The available N, P_2O_5, K_2O and Organic carbon recorded an increase of 17.26, 6.90, 1.12 and 3.44 per cent over farmers'	Satisfied with the technology owing to equivalent yield at a minimal cost and soil health restoration	The technology is acceptable to the farming system of the district.	BC Ratio: OFT-2.98 FP-2.75

						practice.			
6	Acid Soil Management in Blackgram	Reduced P availability due to acidity resulting in low pod formation	Application of 33% lime requirement and 2% urea spray at pod initiation stage alongwith recommended doses of fertilizer @ 15:35:15 kg/ha N:P2O5:K2O	Blackgram	5	Initial pH of soil : 4.42 Lime Requirement : 9.82 q/ha Crop in growth stage	On going		
7	Evaluation of Marigold var.Seracole (contd. From 2015-16)	Lack of high yielding variety in summer season	Evaluation of Marigold var. Seracole	Marigold	3	Plant height : 74.5 cm No. of primary branches/plant : 13.8 no Days to first harvest : 85 days No.of flower /plant (115 days): 175 flower weight of flower: 2.5 g yield/ha: 21.55 q/ha (loose flower) Crop duration : 7 months	Maintaining the planting material is a problem	Variety performed well and accepted by the farmer	**3.54 : 1**
8	Cultivation of cabbage using organic source of nutrients	Organic farming is the need of hour	Cultivation of cabbage using organic source of nutrients	Cabbage	2	Tech: Diameter of head:15.3 cm Avg.head weight:0.5 kg Yield:138 q/ha Check: Diameter of head:16.5 cm Avg.head weight:0.65 kg Yield:180 q/ha	Organic nutrients and other plant protection inputs are voluminous and not	-	3.03:1(tech.) 3.42:1(check)

							available locally		
9	Plastic mulching in okra	Low soil moisture and temperature reduces the early yield of crop	Plastic mulching in okra	okra	2	At vegetative stage	-	-	-
10	Performance of tomato variety ArkaRakshakagainsr bacterial wilt under field condition	High incidence of bacterial wilt disease	Triple resistant variety	Tomato	2	7% disease incidence in ArkaRakshak with resistant reaction Total collapse of variety Abinash as control	Very good variety in regards to disease resistance and fruit quality also good.	can be extensively cultivated	NA
11	Evaluation of Ranjit Sub-1 against brown spot disease under field condition	Suggest by SAC	Variety	Rice	1	Insignificant incidence of brown spot	-	very good variety	NA
12	Evaluation of quail in Sivasagar district	cholesterol level in Meat and egg	Brooding, feeding, general management Vaccination of quail	Intensive system (cage)	10 nosHahchara Chetiagaon	1. Average Body weight at 15 days : 42 g 2. Average Body weight at 30 days : 78 g	They are satisfied with the growth rate of quail		On going

13	Evaluation of improved dual type of poultry Kamrupa in Sivasagar District as backyard system	Non availability of improved variety	dual type of poultry Kamrupa	Backyard system	10 nosBarbaruahhandiquegaon	1. Average Body weight at 15 days : 125 g 2. Average Body weight at 30 days : 235 g	The farmers are satisfied with the growth rate over local poultry		On going
14	Suitability/ Acceptability Assessment of Protective clothing/accessories for agricultural workers specially for Harvesting and post harvesting operation like threshing, dehusking/ cleaning	Drudgery in agricultural operations reduces productivity and cause health hazards.	Developed protective clothing/accessories of agricultural workers during different activities (Harvesting/ Threshing/ Dehusking/ Cleaning)	Paddy	15 Nos (03 location)	- LISTED UNDER	-	-	-

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***

Results of Assessment/ Refined (Data on the parameter should be provided)Parameter (Questionnaire designed by AICRP- Clothing & Textile)	**Overall acceptability/Suitability (Technology)N=15**	**Overall acceptability/Suitability (Local Dress: Long sleeve shirt)**	**Feed back from the farmer**	**Feed back to the researcher**
Protective clothing and accessories/Check are easy to wear and remove	Yes = 100%	Yes =100%	-	1.For increasing efficiency of the worker farm women required cotton fabrics as they felt more hotness in the field specially in the paddy harvesting operations which was performed during day time and the weather is comparatively hot during the harvesting month of November and december.They specially asked for a cotton apron. 2.Farm women required more sun light protective head gear like a cap. 3.For the apron farm women need some additional accessories specially in the shoulder they need a heavy fabric ; jeans like material so that they kept the sickle in between roping of paddy bunch in harvesting operation. 4.Designing of a hand glove will be very much useful for farm women to protect their hands.
Protective clothing/Check does not look awkward	Yes = 100%	Yes=100%	Women hesitates to wear it in front of their in -laws	
Functional feather/ fasteners used in garment /Check are do not cause pinching	Yes =100%	Yes=45%	-	
Protective clothing do not have adverse	Yes =100% for paddy	Yes=50%	*Need cotton	

effect on workers efficiency/Check	threshing, and winnowing * but for harvesting they feel uncomfortable (100%) as it cause more hotness so they tired easily. The Net cause blurring in vision in day time		Apron and cotton Head wear with cotton net for working in day time in the field as during the harvesting time(winter paddy) the weather is comparatively hot in Sivasagar district of Assam (month of November & December)	

3.2 Achievements of Frontline Demonstrations during 2016-17

a. Follow-up for results of FLDs implemented during previous years
List of technologies demonstrated during previous year and popularized during 2016-17 and recommended for large scale adoption in the district

Sl. No	Crop/ Enterprise	Technology demonstrated	Horizontal spread of technology		
			No. of villages	No. of farmers	Area in ha
1	Toria	Toria var. TS-38	22	285	25
2	Vermicompost	Vermicomposting in low cost bamboo lathe structure	15	175	-
3	Oyster mushroom	Oyster mushroom production technology	20	310	-
4	Winter paddy.	Var-Gitesh	5	30	10
5	Poultry	Evaluation of improved dual type of poultry Kamrupa in Sivasagar District as backyard system	3	90	1800
6	Poultry	Rearing of dual improved Vanaraja poultry variety as backyard system	10	200	5000
7	Pig	Rearing of crossbred Hampshire pig	8	25	75

**** 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. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ Demonstration			Reasons for shortfall in achievement	Farming situation (Rainfed / Irrigated, Soil type, altitude, etc)	Status of soil (Kg/ha)		
					Proposed	Actual	SC/ST	Others	Total			N	P	K
	Cereals													
1.	Rice	Crop production	Rice var. TTB-404(Shraboni)	Kharif, 2016	2	2	-	2	2	Nil	Rainfed	250.9	112.5	25.46
2	Rice	Nutrient Management	Effect of Zinc in Rice Productivity (Basal application of Zn @ 25 kg/ha)	Kharif 2016	1.5	1.5	0	4	4	Nil	Rainfed	326.11	59.08	270.15
3	Rice	IPM	Seed treatment with mancozeb&Carbofuran and placing bird perch (IPM component)	Kharif 2016	2	1.5	-	4	4	Delay in transplanting due to social problem	Rainfed	301.06	11.44	118.68
	Oilseeds													
1	Toria	Varietal trial	Var. TS-67	Rabi, 2016	10	2	-	4	4	Non availability of seed	Rainfed	250.9	112.5	25.46
2	Sesamum (summer)	Varietal trial	Var. Koliabor local INM, IPM	Summer	2	1	-	2	2	Non availability of seed	Rainfed	301.06	11.05	60.35
3	Sesamum	Varietal	Var. AST-1	kharif	20	2	20	26	46	Nil	Rainf	301.0	11.0	60.35

	(NMOOP)	trial	INM, IPM			0					ed	6	5	
4	Toria (NMOOP)	Varietal trial	Var. TS-67 INM, IPM	Rabi	30	30	3	50	53	Nil	Rainfed	250.9	112.5	25.46
	Pulses													
1	Blackgram (NFSM)	Varietal trial	Var. PU-31 INM, IPM	Kharif	20	20	29	26	55	Nil	Rainfed	301.06	11.05	60.35
2	Greengram (NFSM)	Varietal trial	Var. IPM-2-3 INM, IPM	Kharif	30	30	15	30	45	Nil	Rainfed	301.06	11.05	60.35
3	Lentil (NFSM)	Varietal trial	Var. Moitree INM, IPM	Rabi	20	20	2	48	50	Nil	Rainfed	250.9	112.5	25.46
4	Field pea (NFSM)	Varietal trial	Rachna INM, IPM	Rabi	30	16.66	10	36	46	Non availability of seed	Rainfed	250.9	112.5	25.46
5	Summer Blackgram (NFSM)	Varietal trial	Var. IPU-94-1 INM, IPM	Summer	20	20	7	36	43	Nil	Rainfed	250.9	112.5	25.46
6	Summer Greengram (NFSM)	Varietal trial	Var. IPM-2-3 INM, IPM	Summer	30	30	-	52	52	Nil	Rainfed	250.9	112.5	25.46
	Horticultural crops													
1	Tuberose	Flower production	Popularization of tuberose var. Calcutta Double	Kharif, 2016	0.25	0.25	-	3	3		Rainfed	329.0 210.1	53.10 33.50	501.2 247.44
2	Pumpkin	Vegetable production	Demonstration on Pumpkin var. Arjuna F1	Rabi, 2016	0.1 ha	0.33	-	2	2		Rainfed	250.88 338.69	11.05 20.65	54.30 52.28
3	Blackpepper	Spice production	Scientific Cultivation of Black pepper in Arecanut orchard	Kharif, 2016, perennial	1	0.5	-	3	6		Rainfed	275.97	44.67	40.19
4	Papaya	Fruit Producti	Demonstration of papaya var. Red	Rabi, 2017,	0.1	0.1	2	0	2		Rainfed	326.11	59.08	270.15

		on	Lady and Sapna	perenn ial										

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 parameters other than yield, e.g., disease incidence, pest incidence etc.		Econ. of demo. (Rs./ha.)				Econ. of check (Rs./Ha.)			
				Demo.	Check		H*	L*	Demo	Local	GC**	GR**	NR**	BCR**	GC	GR	NR	BCR
1	Rice	Crop production	2	43.5	32.2	5.41	43.5	39.35	No disease and pest		41125	47850	6725	1.16	41125	35420	-5705	0.86
2	Rice	IPM	1.33	4.7	-	-	-	-	affected by flood	damaged by flood	41625	51700	10075	1.24	-	-	-	-
3	Toria	Varietal trial	2	9.75	4.60	52.82	9.75	8.24	Aphid		19330	34125	24420	1.77	19330	16100	-3230	0.83
4	Sesamum	Varietal trial	1	Sowing is done														
5	Sesamum	Varietal trial	20	7.35	nil	100	8.2	6.5	Phytophthora blight pest		24680	73500	48820	2.98	nil	nil	nil	nil
6	Toria	Varietal trial	30	11.31	8.03	29	12.12	10.5	Aphid		19330	39585	20255	2.05	16,500	28105	11605	1.7
7	Blackgram (Kharif)	Varietal trial	20	10.67	7.2	32.52	11.23	10.1			25619	85360	59741	3.33	24479	57600	33121	2.35
8	Greengram	Varietal	30	8.54	nil	100	9.7	7.3			256	8540	5978	3.33	nil	nil	nil	nil

	(kharif)	trial					5	3			19	0	1					
9	Lentil	Varietal trial	20	8.29	nil	100	9.45	7.14			25619	49770	24151	1.94	nil	nil	Nil	nil
10	Field pea	Varietal trial	16.66	7.62	nil	100	8.20	7.05			25619	38100	12481	1.48	nil	nil	Nil	nil
11	Blackgram(summer)	Varietal trial	30	Crop is in active vegetative stage														
12	Greengram(Summer)	Varietal trial	20	Crop is in active vegetative stage														
13	Rice	Effect of Zinc in increasing productivity	1.5	5.20	4.40	30.70	5.46	4.26	Plant height: OFT-109 cm No. of effective tillers: OFT-20 No. of grains per panicle: OFT-315	Plant height: FP-102 cm No. of effective tillers: FP-12 No. of grains per panicle : FP-220	49225	57200	7975	1.16	46725	48400	1675	1.04
14	Tube rose	Flower production	0.25	Plant height: 87 cm Days to first flowering : 82 days Avg. floret : 18/spike Spike length : 80 cm Yield : sporadic flowering came with very less percentage of flower. Ratoon crop will be followed														
15	Black Pepper	Spice production	0.5	Yield will be obtained in 3rd year. Planting done in August,2016														

16	Pumpkin	Vegetable production	0.3	124	68	82.35	130	118	No. of fruit -5, Avg, fruit weight=3.1 kg Days to flowering :104	No. of fruits/ plant: 3 Avg. fruit weight: 2.2 kg Days to flowering: 98 days	35820	186000	150180	5.19	27,500	1,31,000	1,03,500	4.76
17	Papaya	Fruit production	0.1	Seed sowing completed														
18	Vegetables	Nutrition gardening	0.04													Ongoing		

*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 organised	Date	Number of participants			Remarks
				Gen	SC/ST	Total	
1	Field days						
	1. Greengram	1	5/01/2017	18	16	34	
	2. Sesamum	1	27/12/2016	16	9	25	
	3. Toria	1	04/02/2017	42	5	47	
	4. Toria	1	14/02/2017	25	14	39	
	5. Lentil	1	14/02/2017	0	50	50	
	6. Pea	1	17/03/2017	10	20	30	
	7. Zinc in rice	1	21/11/2016	33	0	33	
2	Farmers Training	1	14/09/2016	0	33	33	
		1	15/09/2016	27	0	27	
		1	15/09/2016	27	0	27	
		1	30/09/2016	0	29	29	
		1	06/10/2016	25	0	25	
		1	16/11/2017	25	0	25	
		1	16/11/2017	29	0	29	
		1	25/11/2017	25	0	25	
		1	25/11/2017	25	0	25	
		1	05/01/2017	4	22	26	

		1	25/02/2017	8	23	31	
		1	17/03/2017	20	0	20	
		1	17/03/2017	1	22	23	
		1	15/11/2016-16/11/2016	25	0	25	
3	Media coverage	5	07/01/2017				Asomiya Pratidin
			10/01/2017				Asomiya Khabor
			04/01/2017				The Sentinel
			10/12/2016				Dordarshan
			12/12/2016				DY 365
4	Training for extension functionaries						
5	Group discussion under CFLD	6	15/09/2016	27	0	27	
			25/11/2016	21	4	25	
			15/09/2016	27	0	27	
			30/09/2016	3	26	29	
			06/10/2016	23	2	25	
			16/11/2016	21	4	25	
	Total	**32**		**363**	**165**	**528**	

e. Details of FLD on Enterprises

(i) Farm Implements

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

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

(ii) Livestock Enterprises

Sl. No.	Enterprise/ Category (e.g., Dairy, Poultry etc.)	Thematic area	Name of Technology	No. of farmers	No. of units	No. of animals, poultry birds etc.	Major Performance parameters / indicators		% change in the parameter	Other parameters (if any)		Econ. of demo. (Rs./Ha.)				Econ. of check (Rs./Ha.)				Remarks
							Demo	Check		Demo	Check	GC**	GR**	NR**	BCR**	GC	GR	NR	BCR	
1	Pig	Meat production	Popularization of improved cross bred Hampshire pig	3	3	9	Avg Body wt (Kg) at 8th week : 8.5 Average Body	Avg Body wt (Kg) at 8th week: 6.5 Average Body												On going

							weight (Kg) at 8th week : 17.75 Disease incidence : Diarrhoea	weight (Kg) at 8th week : 11.25 Disease incidence : Diarrhoea											
2	Poultry	Rearing of improved dual type of poultry Vanaraja in Sivasagar District under backyard system	Meat and egg production	20	20	200	Average Body weight (g) at 1st week : 110	Average Body weight (g) at 1st week : 85											On going

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

Produce Sale Price must be as per MSP or Registered Marketing Society

Pl. apply the formula: Net Return= Gross Return-Gross Cost, BCR= GR/GC

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

(iii) Fisheries

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

*** 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,	Thematic area	Name of Technology	No. of farmers	No. of units	Major Performance parameters / indicators		% change in the parameter	Other parameters (if any)		Econ. of demo. (Rs./Ha.)				Econ. of check (Rs./Ha.)				Remarks
						Demo	Check		Demo	Check	GC**	GR**	NR**	BCR**	GC	GR	NR	BCR	
1	Vermicompost	Production of organic inputs	Upscaling of existing Vermicompost Units with Vermibeds	10	10	62 q/unit					2500/unit	6200/unit	3700	2.48					

2	Demonstration for enterprise on Natural and Chemical dye on Endi and cotton fibre and fabrics and designing for diversified items	Organic dye	Organic Dyeing method	25	02	1.Shades of colour 2.Colour fastness by rubbing,washing,ironing and sunlight 3. Economics	1.Shades of colour 2.Colour fastness by rubbing,washing,ironing and sunlight 3. Economics	33.33 % for coloured yarn	1.Different yellow shades obtained from marrigold and nigtjasmine, Brown shades obtained from teak leaves 2.All the dyed colour shows good colour fastness by	White coloured yarn is used for cotton and eri original colouded yarn is used	C. Yarn =300 C. Fabric= 450 Endi fabric= 700	C. Yarn =450 C. Dyed Fabric= 900.00 Endi dyed abric =1600	C. Yarn =150 C. Fabric= 450 Endi fabric= 900	C. Yarn =1.5 C. Fabric= 2 Endi =2.28					Farm women prefered the technology as unique colour can be obtained from their garden

									rubbing,washing,ironing and moderate colour fastness to sunlight										

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

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

(v) Farm Implements and Machinery

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

f. Performance of FLD on Crop Hybrids

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

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. Achievements on Training

3.3.1. Farmers and Farm Women in On Campus including Sponsored On Campus Training Programmes

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

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

Fodder production																					
Production of organic inputs																					
II. Horticulture																					
a) Vegetable Crops																					
Production of low volume and high value crops																					
Off-season vegetables																					
Nursery raising																					
Exotic vegetables like Broccoli																					
Export potential vegetables																					
Grading and standardization																					
Protective cultivation (Green Houses, Shade Net etc.)																					
b) Fruits																					
Training and Pruning																					
Layout and Management of Orchards																					
Cultivation of Fruit																					
Management of young																					

plants/orchards																					
Rejuvenation of old orchards																					
Export potential fruits																					
Micro irrigation systems of orchards																					
Plant propagation techniques																					
c) Ornamental Plants																					
Nursery Management																					
Management of potted plants																					
Export potential of ornamental plants																					
Propagation techniques of Ornamental Plants																					
d) Plantation crops																					
Production and Management technology																					
Processing and value addition																					
e) Tuber crops																					
Production and Management																					

technology																						
Processing and value addition																						
f) Spices																						
Production and Management technology																						
Processing and value addition																						
g) Medicinal and Aromatic Plants																						
Nursery management																						
Production and management technology																						
Post harvest technology and value addition																						
III Soil Health and Fertility Management																						
Soil fertility management	1	0	1	5	0	1	0	6	0	3	0	0	0	3	0	8	0	1	0	9	0	9
Soil and Water Conservation																						
Integrated Nutrient Management																						
Production and use of organic inputs	1	0	1	5	0	1	0	6	0	3	0	0	0	3	0	8	0	1	0	9	0	9
Management of Problematic soils																						
Micro nutrient deficiency in crops																						

Nutrient Use Efficiency																					
Soil and Water Testing																					
IV Livestock Production and Management																					
Dairy Management																					
Poultry Management																					
Piggery Management																					
Rabbit Management																					
Disease Management																					
Feed management																					
Production of quality animal products																					
V Home Science/Women empowerment																					
Household food security by kitchen gardening and nutrition gardening																					
Design and development of low/minimum cost diet																					
Designing and development for high																					

nutrient efficiency diet																						
Minimization of nutrient loss in processing																						
Gender mainstreaming through SHGs																						
Storage loss minimization techniques																						
Value addition																						
Income generation activities for empowerment of rural Women																						
Location specific drudgery reduction technologies																						
Rural Crafts																						
Women and child care																						
VI Agril. Engineering																						
Installation and maintenance of micro irrigation systems																						
Use of Plastics in farming practices																						
Production of																						

small tools and implements																					
Repair and maintenance of farm machinery and implements																					
Small scale processing and value addition																					
Post HarvestTechnology																					
VII Plant Protection																					
Integrated Pest Management																					
Integrated Disease Management																					
Bio-control of pests and diseases																					
Production of bio control agents and bio pesticides																					
VIII Fisheries																					
Integrated fish farming																					
Carp breeding and hatchery management																					
Carp fry and fingerling rearing																					

Composite fish culture																					
Hatchery management and culture of freshwater prawn																					
Breeding and culture of ornamental fishes																					
Portable plastic carp hatchery																					
Pen culture of fish and prawn																					
Shrimp farming																					
Edible oyster farming																					
Pearl culture																					
Fish processing and value addition																					
IX Production of Inputs at site																					
Seed Production																					
Planting material production																					
Bio-agents production																					
Bio-pesticides production																					
Bio-fertilizer production																					
Vermi-compost																					

production																					
Organic manures production																					
Production of fry and fingerlings																					
Production of Bee-colonies and wax sheets																					
Small tools and implements																					
Production of livestock feed and fodder																					
Production of Fish feed																					
X Capacity Building and Group Dynamics																					
Leadership development																					
Group dynamics																					
Formation and Management of SHGs																					
Mobilization of social capital																					
Entrepreneurial development of farmers/youths																					
WTO and IPR issues																					
XI Agro-forestry																					
Production																					

technologies																						
Nursery management																						
Integrated Farming Systems																						
TOTAL	**2**	**0**	**2**	**10**	**0**	**2**	**0**	**12**	**0**	**6**	**0**	**0**	**0**	**6**	**0**	**16**	**0**	**2**	**0**	**18**	**0**	**18**

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

Thematic area	**No. of Courses/ prg.**			**Participants**																		**Grand Total**
				General						**SC/ST**						**Total**						
				Male		**Female**		**Total**		**Male**		**Female**		**Total**		**Male**		**Female**		**Total**		
	Off	**Sp Off***	**Total**	**Off**	**Sp Off***	**Off**	**Sp Off***	**Off**	**Sp Off***	**Off**	**Sp Off***	**Off**	**Sp Off***	**Off**	**Sp Off***	**Off**	**Sp Off***	**Off**	**Sp Off***	**Off**	**Sp Off***	
I. Crop Production																						
Weed Management																						
Resource Conservation Technologies																						
Cropping Systems																						
Crop Diversification																						
Integrated Farming																						
Water management	1	0	1	4	0	0	0	4	0	8	0	14	0	22	0	12	0	14	0	22	0	22

Seed production	1	0	1	10	0	5	0	15	0	7	0	3	0	10	0	17	0	8	0	25	0	25
Nursery management																						
Integrated Crop Management	10	0	10	102	0	31	0	133	0	57	0	40	0	97	0	159	0	71	0	230	0	230
Fodder production	2	0	2	25	0	5	0	30	0	15	0	5	0	20	0	40	0	10	0	50	0	50
Production of organic inputs																						
II. Horticulture																						
a) Vegetable Crops																						
Production of low volume and high value crops	1	-	1	28	-	-	-	28	-	-	-	-	-	-	-	28	-	-	-	28	-	28
Production technology of cucurbits	1	-	1	14	-	13	-	27	-	-	-	-	-	-	-	14	-	13	-	27	-	27
Establishment and management of nutritional garden	1	-	1	16	-	9	-	25	-	-	-	-	-	-	-	16	-	9	-	25	-	25
Off-season vegetables																						
Nursery raising																						
Exotic vegetables like Broccoli																						
Export potential																						

vegetables																						
Grading and standardization																						
Protective cultivation (Green Houses, Shade Net etc.)																						
b) Fruits																						
Training and Pruning																						
Layout and Management of Orchards																						
Cultivation of Fruit	2	-	2	5	-	46	-	51	-	-	-	-	-	-	-	5	-	46	-	51	-	51
Management of young plants/orchards																						
Rejuvenation of old orchards																						
Export potential fruits																						
Micro irrigation systems of orchards																						
Plant propagation techniques																						
c) Ornamental Plants																						
Nursery Management																						

Management of potted plants																					
Export potential of ornamental plants																					
Propagation techniques of Ornamental Plants																					
d) Plantation crops																					
Production and Management technology																					
Processing and value addition																					
e) Tuber crops																					
Production and Management technology																					
Processing and value addition																					
f) Spices																					
Production and Management technology																					
Processing and value addition																					
g) Medicinal and Aromatic Plants																					
Nursery management																					

Production and management technology																					
Post harvest technology and value addition																					
III Soil Health and Fertility Management																					
Soil fertility management	1	0	1	25	0	0	0	25	0	0	0	0	0	0	0	25	0	0	0	25	0	25
Soil and Water Conservation																					
Integrated Nutrient Management	2	0	2	12	0	13	0	25	0	6	0	24	0	30	0	18	0	37	0	55	0	55
Production and use of organic inputs	7	0	7	48	0	118	0	166	0	14	0	0	0	14	0	62	0	118	0	180	0	180
Management of Problematic soils																					
Micro nutrient deficiency in crops																					
Nutrient Use Efficiency	1	0	1	3	0	28	0	31	0	0	0	0	0	0	0	3	0	28	0	31	0	31
Soil and Water Testing																					
IV Livestock Production and Management																					
Dairy Management																					
Poultry Management																					
Piggery Management	1	0	1	7	0	8	0	15	0	6	0	4	0	10	0	12	0	13	0	25	0	25

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	1	-	1	-	-	27	-	-	-	-	-	-	-	-	-	-	-	27	-	27	-	27
Designing and development for high nutrient efficiency diet																						
Minimization of nutrient loss in processing																						
Gender mainstreaming through SHGs																						
Storage loss minimization techniques																						

Value addition																						
Income generation activities for empowerment of rural Women																						
Location specific drudgery reduction technologies																						
Rural Crafts																						
Women and child care	1	-	1	-	-	26	-	26	-	-	-	-	-	-	-	-	-	26	-	26	-	26
VI Agril. Engineering																						
Installation and maintenance of micro irrigation systems																						
Use of Plastics in farming practices																						
Production of small tools and implements																						
Repair and maintenance of farm machinery and implements																						
Small scale processing and																						

value addition																					
Post Harvest Technology																					
VII Plant Protection																					
Integrated Pest Management																					
Integrated Disease Management																					
Bio-control of pests and diseases																					
Production of bio control agents and bio pesticides																					
VIII Fisheries																					
Integrated fish farming																					
Carp breeding and hatchery management																					
Carp fry and fingerling rearing																					
Composite fish culture																					
Hatchery management and culture of freshwater prawn																					

Breeding and culture of ornamental fishes																					
Portable plastic carp hatchery																					
Pen culture of fish and prawn																					
Shrimp farming																					
Edible oyster farming																					
Pearl culture																					
Fish processing and value addition																					
IX Production of Inputs at site																					
Seed Production																					
Planting material production																					
Bio-agents production																					
Bio-pesticides production																					
Bio-fertilizer production																					
Vermi-compost production																					
Organic manures production																					

Production of fry and fingerlings																					
Production of Bee-colonies and wax sheets																					
Small tools and implements																					
Production of livestock feed and fodder																					
Production of Fish feed																					
X Capacity Building and Group Dynamics																					
Leadership development																					
Group dynamics																					
Formation and Management of SHGs																					
Mobilization of social capital																					
Entrepreneurial development of farmers/youths																					
WTO and IPR issues																					
XI Agro-forestry																					
Production technologies																					
Nursery management																					

Integrated Farming Systems																					
TOTAL	33	0	33	299	0	329	0	601	0	113	0	90	0	203	0	411	0	420	0	827	0	827

(B) RURAL YOUTH

3.3.3. Achievements on Training Rural Youth in On Campus including Sponsored On Campus Training Programmes
(*Sp. On means On Campus training programmes sponsored by external agencies)

Thematic area	No. of Courses/ Prog			Participants																		Grand Total (x + y)
				General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
	On (1)	Sp On* (2)	Total (1+2)	On (4)	Sp. On (5)	On (6)	Sp. On (7)	On (a=4+6)	Sp. On (b=5+7)	On (8)	Sp. On (9)	On (10)	Sp. On (11)	On (c=8+10)	Sp. On (d=9+11)	On (4+8)	Sp. On (5+9)	On (6+10)	Sp. On (7+11)	On (x = a +c)	Sp. On (y= b +d)	
Mushroom Production																						
Bee-keeping																						
Integrated farming																						
Seed production																						
Production of organic inputs																						
Integrated Farming																						
Planting material production																						
Vermi-culture																						
Sericulture																						
Protected																						

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

culture																						
Freshwater prawn culture																						
Shrimp farming																						
Pearl culture																						
Cold water fisheries																						
Fish harvest and processing technology																						
Fry and fingerling rearing																						
Small scale processing																						
Post Harvest Technology																						
Tailoring and Stitching																						
Rural Crafts																						
Soil Fertility Management	1	0	1	17	0	14	0	31	0	0	0	0	0	0	0	17	0	14	0	31	0	31
TOTAL	1	0	1	17	0	14	0	31	0	0	0	0	0	0	0	17	0	14	0	31	0	31

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

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

Integrated farming																					
Seed production	4	0	4	92	0	12	0	104	0	0	0	0	0	0	0	92	0	12	0	104	0	104
Production of organic inputs	1	0	1	7	0	16	0	23	0	0	0	0	0	0	0	7	0	16	0	23	0	23
Integrated Farming																						
Planting material production																						
Vermi-culture																						
Sericulture																						
Protected cultivation of vegetable crops																						
Commercial fruit production	1	-	1	21	-	4	-	25	-	-	-	-	-	-	-	21	-	4	-	25	-	25
Repair and maintenance of farm machinery and implements																						
Nursery Management of Horticulture crops																						
Training and pruning of orchards																						
Value addition	1	0	1	3	0	26	0	29	0	0	0	0	0	0	0	3	0	26	0	3	26	29
Production of quality animal products																						

Dairying	1	0	1	27	0	3	0	30	0	0	0	0	0	0	0	27	0	3	0	27	3	30
Sheep and goat rearing	1	0	1	17	0	21	0	38	0	0	0	0	0	0	0	17	0	21	0	17	21	38
Quail farming																						
Piggery	1	0	1	17	0	10	0	27	0	0	0	0	0	0	0	17	0	10	0	17	10	27
Rabbit farming																						
Poultry production																						
Ornamental fisheries																						
Para vets																						
Para extension workers																						
Composite fish culture																						
Freshwater prawn culture																						
Shrimp farming																						
Pearl culture																						
Cold water fisheries																						
Fish harvest and processing technology																						
Fry and fingerling rearing																						
Small scale processing																						
Post Harvest Technology																						
Tailoring and Stitching																						
Rural Crafts																						
TOTAL	10	0	10	18	0	92	0	27	0	0	0	0	0	0	0	184	0	92	0	21	60	276

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

networking among farmers																					
Capacity building for ICT application																					
Care and maintenance of farm machinery and implements																					
WTO and IPR issues																					
Management in farm animals																					
Livestock feed and fodder production																					
Household food security																					
Women and Child care																					
Low cost and nutrient efficient diet designing																					
Production and use of organic inputs																					
Gender mainstreaming through SHGs																					

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

Thematic area	No. of Courses/ prog.			Participants																			Grand Total
				General						SC/ST						Total							
				Male		Female		Total		Male		Female		Total		Male		Female		Total			
	Off	Sp Off*	Total	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*		
Productivity enhancement in field crops																							
Integrated Pest Management																							
Integrated Nutrient management																							
Rejuvenation of old orchards																							
Protected cultivation technology																							
Formation and Management of SHGs																							
Group Dynamics and farmers organization																							
Information networking among farmers																							
Capacity building for ICT application																							

Care and maintenance of farm machinery and implements																					
WTO and IPR issues																					
Management in farm animals	2	0	2	39	0	0	0	39	0	10	0	0	0	10	0	49	0	0	0	49	0	49
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	**2**	**0**	**2**	**39**	**0**	**0**	**0**	**39**	**0**	**10**	**0**	**0**	**0**	**10**	**0**	**49**	**0**	**0**	**0**	**49**	**0**	**49**

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

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

Discipline	Area of training	Title of the training programme	Date (From – to)	Duration in days	Venue	Please specify Beneficiary group (Farmer & Farm women/ RY/ EP and NGO Personnel)	General participants			SC/ST			Grand Total		
							M	F	T	M	F	T	M	F	T
Soil Science	Soil Fertility Management	Management of soil resources for the future	26.09.16	1	KVK	NGO Personnel	2	1	3	6	0	6	8	1	9
	Production of organic inputs	Vermiculture and vermicomposting	3.11.16	1	KVK	NGO Personnel	6	2	8	0	0	0	6	2	8
	Soil Fertility Management	Need of soil health management	12.01.17	1	KVK	RY	17	14	31	0	0	0	17	14	31

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	Crop production	Scientific sesamum cultivation	14/9/16	1	Milankur	Farmer & Farm women	22	11	33	-	-	-	22	11	33
	Crop production	Scientific sesamum cultivation	15/9/16	1	Baputigarh	RY	21	6	27	-	-	-	21	6	27
	Crop production	Scientific cultivation of kharif pulses	15/9/16	1	Baputigarh	RY	21	6	27	-	-	-	21	6	27
	Crop production	Scientific cultivation of Blackgram	30/9/16	1	Bhekurichapori	Farmer & Farm women	-	-	-	23	5	28	23	5	28
	Crop production	Scientific cultivation of Greengram	6/10/16	1	DeodhaiShantipur	Farmer & Farm women	18	7	25	-	-	-	18	7	25
	Crop production	Scientific cultivation of Lentil	16/11/17	1	Khonajan	Farmer & Farm women	-	-	25	-	-	-	25	-	25
	Crop production	Scientific cultivation of Lentil	16/11/17	1	Tetelighuri	Farmer & Farm women	27	2	29	-	-	-	27	2	29
	Crop production	Scientific cultivation of toria	25/11/17	1	Garukhutigaon	RY	25	-	25	-	-	-	25	-	25
	Crop production	Scientific cultivation of pea	25/11/17	1	Garukhutigaon	RY	25	-	25	-	-	-	25	-	25

	Water management	Water management and quality seed production in toria	5/1/17	1	Kotiori	Farmer & Farm women	4	-	4	8	14	22	12	14	26
	Crop production	Production technology of ahu rice	25/2/17	1	Dehajan	Farmer & Farm women	8	-	8	12	11	23	20	11	31
	Crop production	An introduction to newly developed rice varieties	17/3/17	1	KanubariBalijan	Farmer & Farm women	-	-	-	2	18	20	2	18	20
	Crop production	Scientific method of cultivation of major pulses	18/3/17	1	Garukhutigaon	Farmer & Farm women	-	1	1	12	1	21	2	21	23
	Fodder production	Scientific cultivation of fodder crops	1/3/17	1	Koribosti	Farmer & Farm women	10	4	14	10	1	11	20	5	25
	Fodder production	Scientific cultivation of fodder crops	6/3/17	1	Bihubor	Farmer & Farm women	15	3	18	5	2	7	20	5	25
	Crop production	Scientific production technology of Ahu rice	2/3/17	1	Gotonga	Farmer & Farm women	20	5	25	0	0	0	0	0	25
	Crop production	Scientific production technology of Ahu rice	8/3/17	1	Kotiori	Farmer & Farm women	7	5	12	8	5	13	15	10	25
	Seed production	Certified seed production in pulse crop	20/3/17	1	Nitaipukhuri	Farmer & Farm women	10	5	15	7	3	10	17	8	25
Horticulture	Fruit production	Improved production technology of banana	12/05/16	1	Nirmolia	Farmer & Farm women	3	22	26	-	-	-	3	22	26
	Nutritional garden	Establishment and management of nutritional garden	24/08/16	1	Khokamuragaon	Farmer & Farm women	16	9	25	-	-	-	16	9	25
	Vegetable production	Production technology of cucurbits	04/11/16	1	DeodhaiKhanikor	Farmer & Farm women	14	13	27	-	-	-	14	13	27
	Vegetable production	Production technology of low volume high value vegetables	25/01/17	1	Bhorolua	Farmer & Farm women	28	-	-	-	-	-	28	-	28
	Fruit production	Improved production technology of pineapple	17/03/17	1	Balijan	Farmer and Farm women	2	24	26	-	-	-	2	24	26

	Fruit production	Improved production technology of Banana	20/03/17	1	Kochupather	Rural youth	22	3	25	-	-	-	22	3	25
Soil Science	Organic inputs	Azollaculture and production of enriched compost	28.09.16	1	HanchoraChetiaGaon	Farmer & Farm women	3	32	35	0	0	0	3	32	35
	Soil Fertility Management	Soil management practices for sustained soil fertility	3.10.16 – 4.10.16	2	DeodhaiGaon	Farmer & Farm women	25	0	25	0	0	0	25	0	25
	Organic inputs	Vermiculture and vermicomposting	4.11.16	1	KhanikorGaon	Farmer & Farm women	19	6	25	0	0	0	19	6	25
	INM	INM	15.11.16 - 16.11.16	2	Lalimsiga	Farmer & Farm women	12	13	25	0	0	0	12	13	25
	INM	INM	21.11.16 – 22.11.16	2	NakatiKalugaon	Farmer & Farm women	0	0	0	6	24	30	6	24	30
	Production of Organic inputs	Vermiculture and vermicomposting	23.12.16	1	Phulpanisiga	Farmer & Farm women	3	27	30	0	0	0	3	27	30
	Production of Organic inputs	Vermiculture and vermicomposting	24.12.16	1	Patorgaon	Farmer & Farm women	1	23	24	0	0	0	1	23	24
	Production of Organic inputs	Production of Organic inputs	27.12.16	1	Lahongaon	RY	7	16	23	0	0	0	7	16	23
	Nutrient use efficiency	Principles of fertilizer application and increasing its efficiency	24.01.17, 1.03.17	2	Khamun	Farmer & Farm women	3	28	31	0	0	0	3	28	31
Animal Sc	Fodder cultivation	Scientific cultivation of fodder, toxic plants, toxicity and its treatment	07.11.16	1	Mechagarh	RY	27	3	30	0	0	0	27	3	30

	Goat farming	Scientific management of goat	10.11.16	1	Charing	RY	17	21	38	0	0	0	17	21	38
	Livestock Production	Recent Advances in Livestock and poultry production	29.11.16	1	DAHVO, Sivasagar	EF	20	0	20	4	0	4	24	0	24
	Livestock Production	Recent Advances in Livestock and poultry diseases	30.11.16	1	DAHVO, Sivasagar	EF	20	0	20	5	0	5	25	0	25
	Pig farming	Scientific management of pi	18.02.17	1	Khanikargaon	RY	17	10	27	0	0	0	17	10	27
	Value addition	Preparation of value added milk products	6th to 14th March, 2017	7	Nazira Milk Processing Plant	RY	3	26	29	0	0	0	3	26	29
	Piggery	Scientific management of pig farming	28.03.17	1	Gelekey	Farmer & Farm women	7	8	15	6	4	10	13	12	25
Home Science	Designing low/minimum cost diet	Hands on trining on Design and Development of low/minimum cost diet	23.11.16	01	Hahsora	Farm women	-	27	-	-	-	-	-	27	27
	Women and child care	Reproductive health care of Adolescent girls	03.03.17	01	Adabari PHE	Farm women and RY	-	26	-	-	-	-	-	26	26

(D) Vocational training programmes for Rural Youth

Crop / Enterprise	Date (From – To)	Duration (days	Area of training	Training title*	No. of Participants									Impact of training in terms of Self employment after training				Whether Sponsored by external funding agencies
					General			SC/ST			Total							
					M	F	T	M	F	T	M	F	T	Type of enterprise ventured into	Number of units	Number of persons employed	Avg. Annual income in Rs. generated through the enterprise	
Value addition of milk	6.03.17 to 14.03.17	7	Value addition of milk	Preparation of value added milk products	3	26	29	0	0	0	3	26	29					**No**
Value addition	13/03/2017 to 20/03/2017	7	Gendermainstreaming through SHG	Vocational training on Artificial Flower making – an identified incoe generating venture for SHG	-	19	19	-	02	02	-	21	21	-	-	-	-	No

*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/ RY/ EP)	Date (From-To)	Duration (days)	Discipline	Area of training	Title	No. of Participants									Sponsoring Agency	Amount of fund received (Rs.)
							General			SC/ST			Total				
							M	F	T	M	F	T	M	F	T		
Off	F/FW	6.09.16	1	Soil Science	Production of organic inputs	Vermicomposting											
Total																	

3.4. Extension Activities (including activities of FLD programmes) (Please mention specific Extension Activity conducted by the KVK such as Field Day, KisanMela, Exhibition, Diagnostic Visit, etc) during 2016-17

Sl. No.	Extension Activity	Topic	Date and duration	No. of activities	Participants											
					General (1)			SC/ST (2)			Extension Officials (3)			Grand Total (1+2)		
					M	F	T	M	F	T	M	F	T	M	F	T
1	Advisory services	Telephonic, mobile etc	2016-17	609	338	212	550	37	12	49	10	0	10	385	224	609
2	Diagnostic visit	Agricultural and veterinary technology, plant		20	180	35	215	68	17	85	0	0	0	248	52	300

		protection, animal health care													
3	Field day	Efficacy of Zinc in rice productivity	26.11.16	1	14	7	21	0	0	0	0	0	0	14	7	21
		CFLD Sesamum	27.12.16	1	14	6	20	0	0	0	0	0	0	14	6	20
		CFLD Greengram	05.01.17	1	9	0	9	31	0	31	0	0	0	40	0	40
		CFLD Lentil	14.02.17	1	5	0	5	45	0	45	0	0	0	50	0	50
		CFLD Pea	18.03.17	1	25	0	25	5	0	5	3	1	4	33	1	34
		CFLD Toria	04.02.17	1	37	5	42	6	2	8	0	0	0	43	7	50
		CFLD Toria	14.02.17	1	16	0	16	23	0	23	2	0	0	41	0	41
4	Group Discussion	Entrepreneurship development through Assamese confectionary	27.01.17	1	0	17	17	0	0	0	0	0	0	0	17	17
5	KishanGosthi															
6	KishanMela	Pre Rabi Sanmmelan	05.12.16	1	260	30	290	160	35	195	12	3	15	325	175	500
7	Film show	Vermicomposting and Mushroom production	22.11.16 16.12.16 17.12.16 23.12.16 24.12.16 25.12.16 26.12.16 27.12.16 28.12.16 29.12.16	1 1 1 1 1 1 1 1 1 1	18 0 0 12 02 0 3 7 41 14	7 0 0 19 19 19 37 15 17 0	25 0 0 31 21 19 40 22 58 14	0 21 21 0 0 0 0 0 0 0	0 13 13 0 0 0 0 0 0 0	0 34 34 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	18 21 21 12 2 0 3 7 41 14	7 13 13 19 19 19 37 15 17 0	25 34 34 31 21 19 41 22 58 14
8	SHG formation															
9	Exhibition	World Soil Day Pre Rabi Sanmmelan	05.12.16	1 1	156 186	45 75	201 261	30 30	14 34	44 64	5 5	0 0	5 5	175 221	75 109	250 330
		Silver Jubilee of Sonari College	17.12.16	1	176	25	201	30	19	49	0	0	0	206	44	250
		Technology Week	28.12.16	1	79	126	205	0	0	0	0	0	0	79	126	205
		Assam SahityaSabha	09.02.17 to	1												5000

			13.02.17													
		Annual Meet of KASS & NASS	22.02.17 26.02.17	1												1000
10	Scientists visit to farmers fields		Once a week	52	301	90	391	170	36	206	7	0	7	478	126	604
11	Plant/ Animal Health camp	Animal health camp	30.08.16	1	45	5	0	17	2	19	0	0	0	50	19	69
12	Farm science club															
13	Ex-trainee Sammelan	Sharing experiences exploring possibilities	01.01.17	1	30	71	101	7	5	12	5	0	5	42	76	118
14	Farmers seminar/ workshop															
15	Method demonstration	Mushroom production technology	22.11.16	1	8	13	21	0	0	0	0	0	0	8	13	21
		Mushroom production technology	23.12.16	1	15	13	28	0	0	0	0	0	0	15	13	28
		Mushroom production technology and vermicompost	24.12.16	1	5	21	26	0	0	0	0	0	0	5	21	26
		Mushroom production technology and vermicompost	26.12.16	1	15	13	28	0	0	0	0	0	0	15	13	28
		Mushroom production technology and vermicompost. Urea enriched fodder preparation	28.12.16	1	32	26	58	0	0	0	0	0	0	32	26	58
		Mushroom pickle preparation	20.01.17	1	0	13	13	0	0	0	0	0	0	0	13	13

16	Celebration of important days	National Science Day	28.02.17											61	99	160
		International Womens Day	08.03.17											0	43	43
		SwacchhtaPakhwada	15.10.16 - 31.10.16	4	94	20	114	0	0	0	0	0	0	94	20	114
		World Soil Day	05.12.16													
17	Exposure visits	Students of DIET	11.05.16	1	10	37	47	0	0	0	0	0	0	10	37	47
		Farmers from different villages (ATMA)	22.10.16	1	19	0	19	0	0	0	0	0	0	19	0	19
		Exposure visit to Titabar	08.11.16	1	13	27	40	0	0	0	0	0	0	13	27	40
		Exposure visit of farmers to Demow for celebration of Silver Jubilee of KASS	26.02.17	1	34	26	60	0	0	0	0	0	0	34	26	60
18	Electronic media (CD/DVD)															
19	Extension literature	Army Worm Management	August, 16	1	-	-	-	-	-	-	-	-	-	-	-	500
20	Newspaper coverage			10	-	-	-	-	-	-	-	-	-	-	-	-
21	Popular articles															
22	Radio talk	Integrated Farming System for organic farming	24.08.16	1	-	-	-	-	-	-	-	-	-	-	-	-
		Rice cultivation in flood prone areas	05.03.17	1	-	-	-	-	-	-	-	-	-	-	-	-
		Commercial cultivation of coconut and arecanut	15.03.17	1	-	-	-	-	-	-	-	-	-	-	-	-
		Role of breeding for	02.03.16	1	-	-	-	-	-	-	-	-	-	-	-	-

		more profit in pig														
		Role of KVK in rural economy	05.11.16	1	-	-	-	-	-	-	-	-	-	-	-	-
23	TV talk															
24	Training manual															
25	Soil health camp			30	-	-	-	-	-	-	-	-	-	-	-	300
26	Awareness camp	PMFBY	29.05.16	1	438	215	653	275	38	313	17	-	17	730	253	983
		Cultivation of fodder for augmenting milk production, toxic plant. Toxicity and its treatment	29.12.16	1	46	24	70	0	0	0	3	0	3	49	24	73
		PPVFRA	11.03.17	1	105	20	125	0	0	0	3	0	3	108	20	128
27	Lecture delivered as resource person	Production technology of major crops	23.04.16	1	47	11	58	0	0	0	0	0	0	47	11	58
		Banana cultivation with nutrient and integrated plant management	31.05.16 10.06.16 17.06.16	3	133	11	144	0	0	0	0	0	0	133	11	144
		Cultivation practices of banana including nutrient & IPM	23.06.16	1	38	7	45	3	2	5	0	0	0	41	9	50
		Cultivation practices of ginger, turmeric and garlic	23.06.16	1	38	7	45	3	2	5	0	0	0	41	9	50
		Vermiculture and vermicomposting	06.09.16	1	14	16	30	0	0	0	0	0	0	14	16	30
		Vermiculture and vermicomposting	04.10.16	1	4	8	12	0	0	0	0	0	0	4	8	12
		Mushroom production technology	03.11.16	1	4	4	8	0	0	0	0	0	0	4	4	8
		Mushroom	16.11.16	1	16	0	16	0	0	0	0	0	0	16	0	16

		production technology														
		Vermiculture and vermicomposting	17.11.16	1	12	13	25	0	0	0	0	0	0	12	13	25
		Production of organic inputs	31.12.16	1	9	0	9	13	0	13	0	0	0	22	0	22
		Backyard poultry	10.01.17	1	0	32	32	0	0	0	0	0	0	0	32	32
		Hands on training on vermiculture	17.02.17	1	0	14	14	0	0	0	0	0	0	0	14	14
28	PRA	Pulibor Mahan Gaon	25.12.16	1	0	19	19	0	0	0	0	0	0	0	19	19
29	Farmer-Scientist interaction	Production technology of field and horticultural crops	28.12.16	1	24	9	33	0	0	0	0	0	0	24	9	33
		Production technology of field and horticultural crops	16.06.16	1	39	0	39	5	0	5	0	0	0	39	5	44
30	Soil test campaign		26.11.16 23.12.16 24.12.16 25.12.16 26.12.16 27.12.16 28.12.16 29.12.16	8	14 19 19 19 37 15 17 0	7 12 2 0 3 7 41 14	21 31 21 19 40 22 58 14	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	14 19 19 19 37 15 17 0	7 12 2 0 3 7 41 14	21 31 21 19 40 22 58 14
31	MahilaMandalConvener meet															
32	Soil Health Card distribution		28.05.16 26.08.16 05.12.16	1 1 1	725 98 197	124 2 54	849 100 251	110 0 0	16 0 0	126 0 0	1 0 3 5	5 0 0	1 5 3 5	845 101 202	145 2 54	990 103 256
	Grand Total			799	434 0	176 7	605 7	111 0	26 0	137 0	9 0	9	9 7	546 1	231 8	1458 0

3.5 Production and supply of Technological products during 2016-17

A. SEED MATERIALS

Major group/class	Crop	Variety	Quantity (qt)	Value (Rs.)	Number of recipient/ beneficiaries		
					General	SC/ST	Total
CEREALS	Paddy	Ranjit	18.36q	Ready for sale			
OILSEEDS	Toria	TS-67	3.31q	Ready for sale			
PULSES							
VEGETABLES							
FLOWER CROPS							
OTHERS (Specify)							

A1. SUMMARY ofProduction and supply of Seed Materials during 2016-17

Sl. No.	Major group/class	Quantity (ton.)	Value (Rs.)	Number of recipient/ beneficiaries		
				General	SC/ST	Total
1	CEREALS	CEREALS	1.836t	Ready for sale		
2	OILSEEDS	OILSEEDS	0.331t	Ready or sale		
3	PULSES					
4	VEGETABLES					
5	FLOWER CROPS					
6	OTHERS					
TOTAL						

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

Major group/class	Crop	Variety	Numbers (In Lakh)	Value (Rs.)	Number of recipient beneficiaries		
					General	SC/ST	Total
Fruits							
Spices							
Ornamental Plants							
VEGETABLES							
Forest Spp.							
Plantation crops							
Medicinal plants							
OTHERS (Pl. Specify)							

B1. SUMMARY of Production and supply of Planting Materials (In Lakh) during 2016-17

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

C. Production of Bio-Products during 2016-17

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

C1. SUMMARY of production of bio-products during 2016-17

Sl. No.	Product Name	Species	Quantity		Value (Rs.)	Number of Recipient beneficiaries		Total number of Recipient beneficiaries
			Nos	(kg)		General	SC/ST	
1	BIOAGENTS							
2	BIO FERTILIZERS							
3	BIO PESTICIDE							
	TOTAL							

D. Production of livestock during 2016-17

Sl. No.	Type of livestock	Breed	Quantity		Value (Rs.)	Number of Recipient beneficiaries		
			(Nos)	Kgs		General	SC/ST	Total
1	Cattle/ Dairy							
2	Goat	Beetel Cross Breed	2nos. 2nos					
3	Piggery	T&D	43nos piglets 4nos. Adults					

4	Poultry	Kamrupa K.Campbell	20nos. 50nos.					
5	Fisheries	Catla	2lakhs					
6	Others (Specify)							

D1. SUMMARY of production of livestock during 2016-17

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	Beetel CrossBreed	2nos. 2nos.					
3	POULTRY	Kamrupa K. Campbell	20 nos. 50nos.					
4.	PIGGERY	T&D	43nos.piglets 4nos. Adults		1,14,100.00 90,000.00			
5	FISHERIES	Catla	2lakhs					
6	OTHERS (Pl. specify)							
	TOTAL							

3.6. Literature Developed/Published (with full title, author & reference) during 2016-17

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

(B) Articles/ Literature developed/published

Item	Title/and Name of Journal	Authors name	Number of copies
Research papers			
1.			
2.			
3.			

Training manuals	"Matiporikhaarumatirswasthyobyobosthapona" (Soil testing and Soil Health Management)	SanjibRanjan Borah, Rupjyoti Borah, SamiranBarua and RupamBorgohain	Circulated to trainees of Vocational Training
Technical Report			
1.	Annual Report		
2.	Annual Action Plan		
3.			
Book/ Book Chapter			
Popular articles	EmoCharaiPalan (Rearing of Emo Bird)/ GharePathare	Dr.DebajitDeka	Mass Circulation
Technical bulletins			
Extension bulletins	Armyworm management Elements of Soil Testing	P. Dutta. R.J. Borah and P. Nath R.J. Borah	500 200
Newsletter			
Conference/ workshop proceedings			
Leaflets/folders			
e-publications			
Any other (Pl. specify)			
TOTAL	**6**		

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

(C) Details of Electronic Media Produced

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

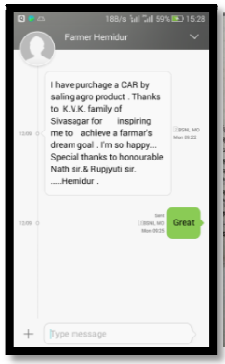
3.7. Success stories on horizontal spread of the technologies/Case studies, if any (two or three pages write-up on each case/ successes with suitable action photographs)

Trailblazing example of a farmer turned Seed Grower Md. HemidurRahman

Where there is a will, there is a way - this is the motto of the 48 year old HemidurRahman of Chumoni village of Charaideo district (erstwhile undivided Sivasagar district) who has set an example of how continuous perseverance and sincerity in anyone's work in any field can help in reaping harvest and happiness to the person, family and society. After completing graduation and a degree of B.Ed., he decided to choose the profession of farming to look after the 3.2 ha of land which he obtained hierarchically from his father. This decision, backed up by his experience in farming since childhood and support from the KrishiVigyan Kendra located just 2.5 km away proved right when he turned up to be the most prospective seed grower of the district few years later. Initially, Rahman started farming with a pair of bullocks relying exclusively on FYM as the source of nutrient. With 90% of his fields suited for Rice cultivation, between2000-2003, he gradually shifted to scientific methods of cultivation with more reliance on chemical fertilizers and introduction of HYV seeds like Ranjit. Doing this, he obtained a jump in productivity which encouraged him to go for adoption of more new varieties of paddy. During he same year, he obtained a power tiller in 50% subsidy from the State Department of Agriculture.

This triggered the farmer in him to take up farming more seriously. In 2010, he successfully completed OFTs on varietal evaluation of the varieties Jalashree, Swarna Sub-1, TTB series and contributed his experiences to the research fraternity at ZREAC programme held at Titabar. Though a regular visitor to the KVK, Sivasagar in 2011-12, he came to KVK, Sivasagar expressing his willingness to adopt the means of Integrated Nutrient Management in his fields for sustained productivity. Rupjyoti Borah, SMS (Soil Science), P. Handique, SMS (Agril. Extension) under the able leadership of Dr. P. Nath, Programme Coordinator of the Kendra framed an action plan for him with a vision to sustain productivity in his land. The Kendra helped him in analysis of his soil and subsequent recommendation of fertilizers. In the subsequent year, he was included in the "Technology Showcasing"

programme undertaken by KVK, Sivasagar at Gowalpothar. In the programme, good agricultural practices were demonstrated. In that programme, Rahman undertook Certified Seed production of Ranjit variety of winter paddy and could obtain a net income of Rs. 85000.00. During that year, he obtained a total of Rs. 145000.00 from Rice cultivation. With the profit, he purchased a pumpset for irrigating his fields. He also was in close association with the RAWE Programme of B.Sc. (Agri.) student supervised by KVK Sivasagar. During their six-month stay, he shared experiences and obtained insight into the newer technologies from the student KamsenKhutiya. After that success, he decided to go for certified seed production in a bigger way from the subsequent year under the close supervision of Dr. P. Nath and Rupjyoti Borah of KVK, Sivasagar. During that year, he brought out his own brand “Oryza Seed Products” and could reap an income of about Rs. 100000 from selling his seed. IN that year the total harvest yielded Rs. 1.88 lakhs with a B:C ratio of 2.15. In the year 2014, he was also a leading farmer in the STCR experiments of Department of Soil Science, AAU. In 2015, he successfully conducted an OFT on Evaluation of promising submergence tolerant varieties under the guidance of PriyankaDutta, SMS (Agronomy). She also guided him in his seed production programme that year. Responding to the heavy demand of Mahsuri seeds, he produced certified seeds of Mahsuri that year and obtained a profit of Rs. 130000 and a total income of Rs. 218000.00. On 05.12.15, he was felicitated and given Soil Health Card – the first one in the massive soil health card programme initiatedin the International Year of Soils. On 12th September the same year, he purchased a car of his own, thanking the KVK, Sivasagar for their able guidance for which he could achieve the dream of a farmer. In the year 2016-17, he continued with his efforts as a seed grower and currently has 50 quintals of rice certified seed the prominent varieties being Ranjit, Mahsuri, Bahadur and Aghoni Bora with a targeted income of 1,60,000 and a total of 2,50,000 from total rice production. In the coming rice season, he has the aim of producing certified seeds of five promising varieties including few of the submergence tolerant ones. Mr.Rahman has undoubtedly set an example to the other farmers who in most of the times allege that rice production can never be profitable. Aptly, he was felicitated as the Best Farmer of the Year by the KrishiVigyan Kendra, Sivasagar in the ex-trainees meet held at KVK premises on the 1st of January, 2017. KVK, Sivasagar wishes all success in his pursuits in the days to come.



Case study of Spread of Mushroom Production technology in Sivasagar district

Cultivation of oyster mushroom has, of late gaining momentum in the Sivasagar district, thanks to the efforts of the scientists of the KrishiVigyan Kendra, Sivasagar. Traditionally, the village people of the Sivasagar district have the habit of collecting wild mushroom from the forests and eating them. In most cases, they face the menace of food poisoning and even death. Convincing the rural masses from abstaining from eating the wild mushroom and cultivating the non-poisonous oyster mushroom was a real challenge for the scientists and extension workers together. Also the need of alternate and cheap protein source for rural families to ensure nutrition to farm families was another issue to take up as a part of the vision of the KrishiVigyan Kendra, Sivasagar. Keeping this in view, KVK, Sivasagar imparted 14 hands-on trainings on oyster mushroom cultivation technology supported by film shows to 14 villages covering 535 farmers in the year 2016-17. In the absence of SMS (Plant Protection) the trainings were imparted by Ms.PriyankaDutta, SMS (Agronomy) and Mr.Rupjyoti BorahSMS (Soil Science). In each training, mushroom spawn was distributed free of cost initially to encourage interest of the farmers towards cultivation of the same. Especially in the Technology Week (Jai Kisan Jai Vigyan Week), exclusive trainings were imparted on this technology. The harvest and the income generated from the sale of produce has increased interest of the farmers and they started coming to the KVK, Sivasagar for spawn.

Availability of spawn in Assam is a problem and hence, the spawn had to be collected by the Kendra from a private source in Siliguri. Till date, 2.4 q of mushroom spawn has been distributed to 240 farmers. An important fact to consider at this juncture is that this has attracted the rural women in taking up the venture as 90 per cent of the cultivators are women. From this amount of spawn, a minimum of 5 q of fresh mushroom has been produced indicating a turnover of Rs. 1,00,000 in three months. This has invariably increased the farm income and therefore, mushroom production technology can easily be considered as an important component enterprise for doubling the farmers income by 2022.

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

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

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK

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

- Identification of courses for farmers/farm women

  Focussed Group Discussion, PRA exercise, Farmers' demand,

- Rural Youth

- Extension personnel

3.11 Field activities

i. Number of villages adopted : 3

ii. No. of farm families selected : 120

iii. No. of survey/PRA conducted : 1

3.12. Activities of Soil and Water Testing

Status of establishment of Lab : Not yet established

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

Sl. No	Name of the Equipment			Qty.	Cost
	S&WT lab	Mini lab/ Mridaparikshak	Manufacturer		
1					
2					
3					
Total					

3. Details of samples analyzed (2016-17) :

Details	No. of Samples analysed	No. of Farmers	No. of Villages	Amount (In Rupees) realized
Soil Samples	868	1635	45	Free of cost

Water Samples				
Plant Samples				
Petiole Samples				
Total				

4. Details of Soil Health Cards (SHCs) (2016-17)

a. No. of SHCs prepared : 1635
b. No. of farmers to whom SHCs were distributed : 1635
c. Name of the Major and Minor nutrients analysed : NPK, S, Fe, Zn, B, Org C, pH
d. No. of villages covered : 30
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	8	2504	5	1585	39	12285							52	16374
Voice only														
Voice and Text both														
Total	8	2504	5	1585	39	12285							52	16374

3.14 Contingency planning for 2016-17

a. Crop based Contingency planning

Contingency (Drought/ Flood/ Cyclone/ Any other please specify)	Proposed Measure	Proposed Area (In ha.) to be covered	Number of beneficiaries proposed to be covered		
			General	SC/ST	Total
	Introduction of new variety or crop				
	Introduction of Resource Conservation Technologies				
Flood contingency measures	Distribution of seeds and planting materials	33.33	27	3	30
	Any other (Please specify)				

a. Livestock based Contingency planning

Contingency (Drought/ Flood/ Cyclone/ Any other please specify)	Number of birds/ animals to be distributed	No. of programmes to be undertaken	No. of camps to be organized	Proposed number of animals/ birds to be covered through camps	Number of beneficiaries proposed to be covered		
					General	SC/ST	Total
Flood contingency measures	-	Animal Health camp	1	• Cattle : 215 • Buffalo : 6 • Pig : 52 • Goat : 40 • Poultry : 384 • Duck : 508 • Broiler : 100	50	19	69

4.0. IMPACT

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

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Vermicomposting in low cost vermibeds	12	100%	2000.00	15000.00
Cultivation of Oyster Mushroom	240	78.66	-	4000.00

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

Name of organization	Nature of linkage
1. District Agricultural Office	Implementation of ATMA programe and selection of participants
2. District Animal Husbandry & Veterinary Office	Joint implementation of programmes
3. District Fishery Development Office	Joint implementation of programmes
4. District Sericulture Office	Joint implementation of programmes
5. District Forest Office	Joint implementation of programmes
6. District Industry and Commerce Office	Joint implementation of programmes
7. DRDA	Joint implementation of programmes
8. Banking Organization	Contribution for infrastructural development
9. KrishakNyas, SHAPE, SHINE, KBKUS, Prerona, KASS (NGO)	Conducting training programmes and demonstration
10. NABARD	Sponsored training, SHG & JLG formation and management and other extension activities.

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 2016-17

Name of the scheme	Activity	Date/ Month of initiation	Funding agency	Amount (Rs.)
PMFBY	Awareness camp	May, 2017	ATARI	1,81,000.00
PPVFRA	Awareness camp	March, 2017	PPVFRA	80000.00

5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district Yes/No

Sl. No.	Programme	Nature of linkage	Remarks
1	Demonstration programmes on Vegetables	Joint field visit, Monitoring	
2	Demonstration on Hybrid paddy	Training, Cefemonial sowing, joint field visit, Monitoring	
3	Upscaling of vermicompost units	Training, Demonstration, Joint field visit	
4	Capacity building programmes on production of organic inputs, protected cultivation and rabi vegetables	Training	
5	ATMA GB Meeting	Role as a Member	

5.4 Give details of programmes implemented under National Horticultural Mission

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

6. PERFORMANCE OF INFRASTRUCTURE IN KVK DURING 2016-17

6.1 Performance of demonstration units (other than instructional farm)

Sl. No.	Demo Unit	Year of estd.	Area	Details of production			Amount (Rs.)		Remarks
				Variety	Produce	Qty.	Cost of inputs	Gross income	
1	Piggery			T&D	Piglets Adults	43no. 4no		1,14,100.00 90,000.00	
2	Goatery			Beetel Cross Breed	Kids Kids	2 no. 2no.			

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			0.4ha	RANJIT	F.SEED	18.36q			Ready or sale
Wheat									
Maize									
Any other									
Pulses									
Green gram									
Black gram									
Arhar									
Lentil									
Any other									
Oilseeds									
Mustard	06.11.2016	22.02.2017	0.8Ha	TS-67	F.SEED	3.31q	9481.00		Ready for sale
Soy bean									
Groundnut									
Any other									
Fibers									
i.									
ii.									
Spices & Plantation crops									
i.									
ii.									
Floriculture									
i.									
ii.									
Fruits									
i.									

ii.									
Vegetables									
i.									
ii.									
a. Others (specify)									
i.									
ii.									

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

Sl. No.	Name of the Product	Qty	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	

6.4 Performance of instructional farm (livestock and fisheries production)

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed/ species	Type of Produce	Qty.	Cost of inputs	Gross income	
1.	Piggery	T&D	Piglets Adults	43nos. 4nos.		1,14,100.00 90,000.00	
2.	Goatery	Beetel Cross breed	Kids Kids	2nos. 2nos.			
3.	Poultry	Kamrupa Khaki Campbell	Adults Ducklings	20nos 50nos.			
4.	Fishiers	Calta	Fingerlings	2 lakhs			

6.5 Rainwater Harvesting

Training programmes conducted by using Rainwater Harvesting Demonstration Unit

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

6.6. Utilization of hostel facilities (Month-Wise) during 2016-17

Accommodation available (No. of beds) :

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

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

7. FINANCIAL PERFORMANCE

7.1 Details of KVK Bank accounts

Bank account	Name of the bank	Location/ Branch	Account Number
With Host Institute	State Bank of India	Jorhat/ AAU	
With KVK	SBI, ADB, Gargaon	Gargaon	11671477783
Revolving Fund	SBI, ADB, Gargaon	Gargaon	30709339138

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

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

7.3 Utilization of KVK funds during the year 2016 -17

Sl. No.	Particulars	Sanctioned (in Lakh)	Released (in Lakh)	Expenditure (in Lakh)
A. Recurring Contingencies				
1	**Pay & Allowances**	93.60		9041548.00
2	**Traveling allowances**	2.50		106792.00
3	**Contingencies**			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	19.00		1546381.00
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)				
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)				

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

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year
April 2014 to March 2015	156454.00	216207.00	195492.00	177169.00
April 2015 to March 2016	177169.00	199655.00	260399.00	116475.00
April 2016 to March 2017	116475.00	277067.00	188381.00	205161.00

Note: No KVK must leave this table blank

8.0 Please include information which has not been reflected above. (Write in detail)

8.1 Constraints

(a) Administrative

- Requirement of one more vehicle to meet the ever increasing responsibilities of the KVK Scientists
- Helping hand in soil analysis and SHG preparation is a necessity

(b) Financial

- Delay in release of first half of the budget creates difficulty in undertaking the kharif programmes

(c) Technical

- High speed net connectivity and lack of sufficient number of computers

(Signature)
Sr. Scientist cum Head

Pl. Take maximum care while filling up the annual report format as per instructions so that no column is left blank. Pl. note that any incomplete individual KVK report shall not be considered and will be returned.