ANNUAL REPORT (2015-16)

KRISHI VIGYAN KENDRA

ASSAM AGRICULTURAL UNIVERSITY

GOSSAIGAON, KOKRAJHAR

PROFORMA FOR ANNUAL REPORT OF KVKS, 2015-16

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, AAU, Kokrajhar, Telipara, Gossaigaon, Dist.- Kokrajhar, Pin.: 783360, Assam	03669- 292704	-	kvkkokrajhar@gmail.com kvk_kokrajhar@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, Assam	0376-2340029	-	kvk.aau@gmail.com dee@aau.ac.in

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Manoj Kumar Bhuyan	-	9435084843	pcmkbhuyan@gmail.com

1.4. Year of sanction: 1985

1.5. Staff Position **(As on 31st March, 2016)**

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category (SC/ST/ OBC/ Others)
1	Programme Coordinator	Dr. Manoj Kumar Bhuyan	Programme Coordinator	Soil Science	37400/-67000/- G.P. 9000/-	57110/-	11-08-2011	Permanent	Gen
2	Subject Matter Specialist	Mrs Sanchita Brahma	Subject Matter Specialist	Horticulture	15600/-39,100/- G.P. 6000/-	26590/-	07-11-08	Permanent	ST
3	Subject Matter Specialist	Mr. Mahadev Uzir Basumatary	Subject Matter Specialist	Agronomy	15600/-39,100/- G.P. 6000/-	26590/-	29-07-09	Permanent	ST
4	Subject Matter Specialist	Mr. Goutom Bhagawati	Subject Matter Specialist	Plant Protection	15600/-39,100/- G.P. 5400/-	21630/-	03.02.2014	Permanent	Gen
5	Subject Matter	Mr. Ankur Rajbongs	Subject Matter	Fishery	15600/-	21000/-	19.10.2016	Permanent	OBC

	Specialist	hi	Specialist		39,100/- G.P. 5400/-				
6	Subject Matter Specialist	Mr. Bhupen Kumar Baishya	Subject Matter Specialist	Soil Science	15600/- - 39,100/- G.P. 5400/-	21000/-	19.10.2016	Permanent	Gen
7	Subject Matter Specialist	Mrs. Porna Sarmah	Subject Matter Specialist	Home Science	15600/- 39,100/- G.P. 5400/-	21000/-	31/01/2015	Permanent	Gen
8	Programme Assistant	-	-	-	-	-	-	-	-
9	Computer Programmer	Mr. Mridul Kumar Haloi	Programme Assistant	Computer Application	8000/- - 35000/- G.P. 4900/-	14540/-	13-09-11	Permanent	SC
10	Farm Manager	Mr. Pradip Kumar Das	Farm Manager	Entomology	8000/- - 35000/- G.P. 4900/-	14110/-	12-03-12	Permanent	OBC
11	Accountant / Superintendent	Mr. Akhil Roy Choudhury	Accountant / Superintendent	Accountancy	8000/- - 35000/- G.P. 4900/-	13290/-	10-11-14	Permanent	Gen
12	Stenographer	-	-	-	-	-	-	-	-
13	Driver	Mr. Sabed Ali Sheikh	Driver	-	5200/- - 20200/- G.P 2200/-	8430/-	22-02 12	Permanent	Gen
14	Driver	-	-	-	-	-	-	-	-
15	Supporting staff	Mr. Robindra Nath Narzary	Watchman	-	5200/- - 20200/- G.P 2200/-	13610/-	01-11-85	Permanent	ST
16	Supporting staff	Mr. Dwijen Basumatary	Kitchen Attendant	-	5200/- - 20200/- G.P 2200/-	13610/-	15-11 - 85	Permanent	ST
	Total	**13**							

1.6. a. Total land with KVK (in ha): 11 ha

b. Total cultivable land with KVK (in ha): 7.5 ha

c. Total cultivated land (in ha): 6.0 ha

S. No.	Item	Area (ha)
1	Under Buildings (Administrative building+ Farmers' Hostel+ Staff Quarters)	1.5
2.	Under Demonstration Units	0.50
3.	Under Crops (Cereals, pulses, oilseeds etc.)	7.5
4.	Under vegetables	-
5.	Orchard/Agro-forestry	1.5
6.	Others (specify)	-

1.7. Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1. A	Administrative Building (Old)	ICAR	1987-88	157.45	2.00 lakh	-	-	-
B	Administrative Building (New)	ICAR	2015	332	86.73 lakh	-	-	Completed
2.	Farmers Hostel	ICAR	1987-88	910.10	14.00 lakh	-	-	Damaged, need major repairing
3.	Staff Quarters (1)	ICAR	2003	132.76	5.98 lakh	-	-	Working
4.	Demonstration Units							
A	Poultry unit	RKVY	2010	45.00	2.19 lakh			Working
B	Piggery unit	RKVY	2010	145.00	6.06 lkah			Working
C	Goatery Unit	RKVY	2010	18.0	1.32 lakh			Working
D	Display & demonstration unit	RKVY	-	6 m in hexagonal shape	4.48 lakh			Working
E	Rice-fish vegetable farming unit	RKVY	2010	224 running meter	2.0 lakh			Working
F	Polyhouse	ATMA	2011		1.0 lakh			Working
G	Vermicompost unit	RKVY	2010	50.0	1.12 lakh			Working
H	IFS (Poultry-Fish-Horticulture farming)	RKVY	2012	2600msq	5.95 lakh			Working
I	Azolla	RKVY	2012		2.72 lakh			Working
J	Compost & Vermicompost	RKVY	2012		2.20 lakh			Working
5	Fencing	ICAR	1995	0.80km	4.92 lakh	-	-	Need repairing
		ICAR	2015	300 rm	13.24 lakh			Working

B) Vehicles

Type of vehicle	**Regd. No.**	**Year of purchase**	**Cost (Rs.)**	**Total kms. Run**	**Present status**
Jeep	AS-03E-0023	2006	490503.00/-	18782	Running
Tractor	AS-16C-0706	2003	Transferred from RARS, Diphu	1242	Not running
	AS-16D-0010	2013	570925.00	800	Running

C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Amplifier	1988	3202.00	Repairable
Black Board	1987	150.00	Damaged

Calculator Machine	1986	252.00	Damaged
Camera	1987	5544.00	Repairable
Desktop Computer	2005	46206.00	Demaged
Digital Camera	2006	15080.00	Demaged
Digital Camera (Sony)	2010	19000.00	Demaged
Duplicating Machine (Manual)	1986	6708.26	Damaged
Duplicating Machine (Automatic)	1995	39050.00	Repairable
Fax Machine (Brother)	2010	15,190.00	Working
Film Rewinder	1988	179.20	Repairable
Flash Gun	1988	570.00	Damaged
Generator	1987	17360.00	Demaged
Horn	1988	358.00	Working
Line Connecting Transformer	1988	616.00	Damaged
Microphone	1988	1891.00	Repairable
Microphone Stand	1988	276.00	Working
Photophone OHP	1988	4256.00	Damaged
Photophone Superlite Sound Projector	1988	12152.00	Repairable
Projection Screen	1988	856.80	Working
Projector Roll (Cinema)	1988	196.00	Damaged
Projector Screen	1988	442.90	Working
Slide Projector	1988	4256.00	Damaged
Television Set	1988	10145.00	Damaged
Xerox Machine (KM – 1635 MFP Printer)	2007	50440.00	Working
Xerox Machine (Kilburn)	2010	101920.00	Working
Digital Inverter (Electra – EEDI 800)	2007	13540.00	Battery damaged
LCD Projector	2010	98331.00	Damaged
UPS (Uniline-800VA FBLI UPS)	2010	5964.00	Demaged
Mechanized Grass Cutter	2009	28000.00	Working
Multipurpose power weeder	2009	42078.00	Working
Power paddy weeder	2009	36254.00	Working
Rice transplanter	2009	188198.00	Working
Earth Augar	2009	56749.00	Working
Water pumps (3 nos.)	2009 & 2010	30,000.00	Working
Seed cleaner	2009	311012.00	Working
Rotavator (2 nos.)	2009	95805.00	Working
Puddler	2009	25896.00	Working
Chaff cutter	2009	15496.00	Working
Voltage stabilizer	2007	3999.00	Working
Poly Sealing Machine	2012	2838.00	Demaged
Desktop Computer	2010	27547.00	Working
Balance	2011	9591.00	Working
BOD Incubator	2011	-	Working
Horizontal Leminar Flow	2011	-	Working
Ph meter	2011	2270.00	Working
Autoclave	2011	93638.00	Working
Hot Air Oven	2011	36888.00	Working
Incubator	2012	-	Working
Laminar Flow	2012	-	Working
Refrigerator	2012	15990.00	Working
Bharat paddy thresher (2)	2013	390001.50	Working
Front mounted vertical conveyance reaper	2013	260001.00	Working
Projector	2013	-	Working
Motorized screen with remote	2013	-	Working
Dehumidifier	2013	-	Working
Digital pH = temperature metre	2013	-	Working

Portable FRP carp Hatchery	2014	-	Working
Hatchery pool	2014	-	Working
Egg/ Spawn collection tank	2014	-	Working
Composite feed mill	2014	-	Working
Egg incubator	2014	-	Not working
Maize shaller	2014	-	Working
Maize dehusker cum sheller	2016	-	Working

1.8. A). Details SAC meeting* conducted in the year 2015-16

Sl.No.	Date	Name and Designation of Participants	Salient Recommendations	Action taken on last SAC recommendation
1.	01.03.2016	1. Dr. H. C. Bhattacharyye, DEE, AAU, Jorhat 2. J.B. Brahma, Director of Agriculture, BTC 3. R. Swargiary, ADC, Kokrajhar 4. M.M. Swargiary, District Agriculture Officer, Kokrajhar 5. Dr. S.K. Paul, Chief Scientist, RARS, Gossaigaon 6. Dinesh Banikya, CHD, Fishery, Kokrajhar 7. Dr. D.K. Bhuyan, District Veterinary officer, Kokrajhar 8. A.C. Deuri, PD, DRDA, Kokrajhar 9. B. Deuri, DDM, NABARD, Kokrajhar 10. Dr. M.K. Bhuyan, PC, KVK Kokrajhar 11. Hemkanta Narzary, Farmers representative 12. Dibakar, Roy, Farmers representative 13. Minoti Roy, Farmers representative 14. Hamida Khatun, Farmers representative 15. S. Brahma, SMS, KVK Kokrajhar 16. Ankur Rajbngshi, SMS, KVK Kokrajhar 17. Goutom Bhagawati, SMS, KVK Kokrajhar 18. Porna Sarma, SMS, KVK Kokrajhar 19. Pradip Das, Farm Manager, KVK, Kokrajhar	1. Vocational training on fishery to be organized 2. Analysis of water quality parameters of fish ponds of the district. 3.Organising Animal health camp 4. Awareness programme on fodder production. 5. Priority on Vocational training and stress on cluster demonstration on oilseed and pulses 6. Testing summer blackgram or green gram 7. Cluster development in paddy, pig and weaving and other important aspects. 8. KVK should provide technical help for 3-tier system of fish cultivation to progressive farmer.	-

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 + Horti + Dairy Cow + Goatery + Poultry + Duckery
2	Agri + Horti + Dairy Cow + Goatery + Piggery + Poultry + Duckery + Pigeon + Fishery
3	Agri + Horti + Dairy Cow + Piggery + Poultry
4	Agri + Horti + Dairy Cow + Buffalo + Piggery + Poultry + Duckery + Pigeon
5	Agri + Horti + Dairy Cow + Goatery + Poultry + Duckery + Fishery

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

Sl. No	Agro-climatic Zone	Characteristics
1.	Lower Brahmaputra Valley Zone (LBVZ) of Assam	The climate is humid sub-tropical in nature characterised by warm – humid summer cool – dry winter. The monsoon months (June-September) are wet receiving 65-70% of the total rainfall while the winter months (December-February) remain virtually dry. The mean maximum and minimum temperature varies from 33-38°C and 8-10°C respectively.
	Agro ecological situation	
a.	Foot hills old mountain valley	Foot hills of Bhutan in northern part of the district. The soil is loamy to clay, rich in organic matter
b.	Flood free riverine old alluvial plain	Plain areas, sandy to sandy loam soil free from flood
c.	Flood prone riverine alluvial plain	Flood prone areas affected by river Champabati, Gaurang, Saralbhang and Sankosh
d.	Hills and hillocks	Hills and Hillocks areas, red clay soil
e.	Beels	Marshy/Swampy land, water logging, low lying areas and covered with water hyacinth

2.3 Soil type/s

Sl. No	Soil type	Characteristics	Area in ha
1	Alfisols (mountain valley)	Soil is loamy to clay and built up alluvial materials washed down from the hills slope. Medium to heavy textured soil	93658
2	Inceptisols (old alluvium)	Soils are old riverine alluvial type. Sandy loam to loamy soil and free from flood	162962
3	Entisols (recent alluvium)	Soils are recent riverine alluvial plain. Sandy or loamy sand and light textured soil	20758
4	Ultisols (laterised red)	Old alluvial soils are found. The surface soils are generally red to reddish brown and acidic in nature	37824

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

Sl. No	Crop	Area (ha)	Production (ton)	Productivity (Qtl /ha)
1	Wheat	1513	4093	27.05
2	Millets	325	192	5.91
3	Gram	76	42	5.53
4	Green Gram	495	317	6.4
5	Total Rabi pulse	5398	2848	5.28
6	Mesta	1298	9707	74.78
7	Cotton	20	9	4.5

8	Tapioca	785	8046	102.5
9	Sweet Potato	475	1889	39.77
10	Chillies	487	400	8.21
11	Turmeric	645	580	8.99
12	Onion	360	1060	29.44
13	Ginger	360	2724	75.67
14	Rapeseed & mustard	25135	16243	6.46
15	Niger	1045	549	5.25
16	Linseed	470	269	5.72
17	Sesamum	380	267	7.03
18	Banana	1215	21848	179.82
19	Pineapple	550	8536	155.2
20	Papaya	375	10049	267.97
21	Arecanut	1650	2788	16.9
22	Coconut	400	3118	77.95
23	Orange	498	4774	95.86
24	Castor	90	52	5.78
25	Tobacco	20	9	4.5
26	Lathyrus (Matikalai)	2165	1051	4.85
27	Tur	439	381	8.68

Source: District Agriculture Office, Kokrajhar BTC (2014-2015)

2.5. Weather data

Month	Rainfall (mm)	Temperature ^{0} C		Relative Humidity (%)	
		Maximum	Minimum	Max	Min
April, 15	107.4	29.7	20.0	87.1	53.1
May, 15	544.9	30.6	22.4	89.8	62.5
June, 15	1061.2	30.5	23.7	92.6	78.8
July, 15	650.6	33.1	25.5	85.1	72.2
August, 15	1267.1	31.9	24.9	91.5	80.9
September, 15	316.9	32.2	24.2	92.1	73.2
October, 15	23.9	32.4	20.3	89.4	59.5
November, 15	9.9	28.9	14.3	92.3	54.4
December, 15	0.0	24.9	9.6	96.3	53.7
January, 16	15.3	23.4	9.1	97.3	56.4
February, 16	0.0	27.6	12.0	95.2	47.6
March, 16	159.0	31.3	16.5	86.3	46.2

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

Category	Population	Production	Productivity
Cattle			
Crossbred	536	15,22,156 ltrs (Milk)	6 ltrs/day/ Animal
Indigenous	353253		750 ml/day/Animal
Buffalo	**14983**		1.5 ltrs/day/Animal
Sheep			
Crossbred	-	-	-
Indigenous	13686	14,84,350 kgs (Meat)	8 kg/ Animal
Goats	**159979**		5 kg /animal

Pigs	**98970**		
Crossbred	32927		60 kg /Animal
Indigenous	66043		30 kg / Animal
Rabbits			
Poultry			
Hens	189999	4,51,800 Nos.	160 Nos./ year/Bird
Desi			
Improved			
Ducks	132610		120 Nos. /year/ Bird
Turkey and others	-	-	-

Table: Production and productivity of Inland Fisheries in Kokrajhar District

Category	**Area (Ha)**	**Productivity (Kg/ha)**	**Production (Ton)**
River Fisheries	4289.70		75.22
Beel Fisheries			
Registered Beel	1499.00	1500	508.93
Unregistered Beel	567.50	300	
Forest fisheries	35	300	234.80
Community pond and tank	105		-
Ponds and tanks	1700.64	2500	528.44
Swamp and waste land (Low lying area)	371.00	300	108.62
Reservoir Fisheries	-	190	53.92
Paddy field /cannel	-	238	249.36

Source:*Joint Director cum CHD, Fisheries Department, BTC, Kokrajhar, BTC (2013-14)*

2.6 Details of Operational area / Villages (2015-16)

Sl. No.	**Taluk/ Eleka**	**Name of the block**	**Name of the village**	**Major crops & enterprises**	**Major problem identified**	**Identified thrust area**

1	Gossaigaon	Gossaigaon	Matiajuri, Rangapara, Padmabil, Joyma, Kusumbil, Bhumka, Chakma, Bashbari, Babubil, Thuribari, Bhawraguri, Natunpara, Guwabari, Sagunhara, Choto Binnyakhata, Gambaribil, Kamalsing Dhauliguri Singimari Kandanpara Mallikpur	Boro Rice and early Ahu, Lentil, Pea, Linseed, Rapeseed, Vegetables, Potato, Flowers	i. Low productivity of Oilseeds and Pulses due to non-adoption of recommended varieties ii. Production problem in Potato	i. Popularisation of HYV of Summer and Boro rice ii. Introduction of high yielding Pulse and Oilseed varieties iii. Commercial potato and fruit production
		Hatidhura	Jacobpur, Fwilaguri, Majadabri, Kamandanga, Haripur, Tamahat, Simaltapu, Grahampur, Srirampur, Palashkandi	Rice, Maize, Rapeseed, Niger, Wheat, Vegetables, Goatery	i. Poor yield in Oilseeds and Pulses ii. Pest and Disease problem iii. Low productivity due to rearing of local breed of goat iv. Sandy and light textured soil	i.Popularisation of improved varieties of Oilseed and Pulse ii. Integrated Pest and Disease management iii. Improvement of productivity of Goatery iv. Soil health and fertility management

		Kachugaon	Ballamguri, Malaguri, Bhadiaguri, Ballimari, Jaymaguri, Dawaguri, Goladangi, Bajugaon, Jaraguri, Maktaigaon, Bhomrabil, Saraibil, Mothambil, Nasrabil, Borobadha, Burichattam, Haoriapet, Hashraobari, Hatigarh, Garufella, Sapkata, Gakulkata, Polashguri, Kachugaon Batabari Chengmari Jambuguri Jiaguri Samdasguri Katribari Khagrabari Gaon chulka Raimona Raikhanbari Modati	Rice, Maize, Vegetables, Rapeseed, Lentil, Pea, Buckwheat, Niger Beekeeping	i. Pre and Post Production problem in Vegetables ii. Poor fertility status of soil iii. Lack of scientific knowledge and skills about rearing of honey bee	i. Low volume – high value Vegetables ii. Soil health and fertility management iii. Commercial fruit production and processing iv. Popularisation of Beekeeping

2	Kokrajhar	Titaguri	Debargaon, Narabari, Gendrabil, Kunthaibari, Titaguri, Kumguri, Sukanjhara, Chandrapara, Simborgaon, Uttar Patgaon, Amlaguri, Jharbari, Ghoramari, Bhumki, Dakhin Karigaon, Dawkibari, Kakrighola, Nayekgaon, Bandarmari, Harighola, Harigaon, Bamungaon, Diplaibil, Salakati, Bandarchara, Chautaki, Bangaldoba, Diajhajuri, Kalugaon, Janagaon	Piggery, Poultry, Aqua-farming, Sericulture, Agro-forestry, Winter vegetables,	i. Low production of meat and egg ii. Fish seed formulation, feeding technology and pond management iii. Poor quality and low yield of worm due to traditional rearing method iv. Dearth of scientific knowledge regarding agro-forestry plantation	i. Rearing of Pig and Poultry ii. Integrated Fish farming iii. Rearing of Eri, Muga and Silk worm iv. Agro-forestry plantation technology v. Spice production and value addition
		Dotma	Angthihara, Simlaguri, Batabari, Dotma, Barshijhora, Umanagar, Baldiapathan, Fakiragram, Saktiashram, Chithilaghop, Athiabari, Ghoshkata, Sikargaon, Laudanga, Dangarkuti, Bhalukmari, Puthimari, Lakhnabari, Ramfalbil, Serfanguri, Medhipara, Pratapkahata	Dairy, Piggery, Mushroom, Fruit preservation, Tailoring and Stitching	i. Low productivity and management problem in Dairy and Piggery ii. Lack of scientific knowledge about mushroom production iii. Storage problem of fruit iv. Lack of technical knowledge and skills regarding tailoring, stitching and knitting	i.Improvement of productivity of Dairy ii. Rearing of Pig iii. Production techniques of Mushroom iv. Processing of fruit v. Tailoring, Knitting and Embroidery techniques for women

3	Parbatjhora	Rupsi	Kajigaon, Manglajhora, Tipkai, Molandubi, Kurshakati Belbari Ambari Hatibandha Bamunipara	Ahu, Boro rice, Rapeseed, Potato, Summer vegetables	i. Low yield of Rice due to growing of local varieties ii. Production and management problem of vegetables and spices iii. Pest and Disease problem	i. Popularisation of HYV of Summer, Sali and Boro rice ii. Low volume – high value Vegetables iii. Spice production and value addition iv. Integrated Pest and Disease management

3. TECHNICAL ACHIEVEMENTS

3. A. Details of target and achievements of mandatory activities by KVK during 2015-16

Discipline	OFT (Technology Assessment and Refinement)				FLD (Oilseeds, Pulses, Maize, Other Crops/Enterprises)			
	1				2			
	Number of OFTs		Number of Farmers		Number of FLDs		Number of Farmers	
	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
Soil Science	2	2	3	6	2	3	10	78
Animal Science	2	1	8	3	3	2	15	10
Home Science	2	2	14	14	3	3	13	13
Plant Protection	2	1	6	3	3	2	20	11
Horticulture	2	2	8	8	3	6	26	47
Agronomy	2	-	15	-	3	8	15	189
Total	**12**	**8**	**54**	**34**	**17**	**24**	**99**	**348**

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	54	52	1365	1327	1092	3724	1476	2869
Rural youth	21	21	485	507				
Extn. Functionaries	8	5	175	114				
Total	83	78	2025	1948				

Seed Production (ton.)		Planting material (Nos. in lakh)	
5		6	
Target	Achievement	Target	Achievement
Cereal		Coconut-50	20
Rice- Gitesh- 4.5 t	1.6 t	Gladiolus-300	100
Ranjit- 2.3 t	1.1 t	Gerbera-500	2000
TTB404- 2.0 t	0.8 t	Mussenda-300	500
Buckwheat- 0.8 t	0.45 t	Cabbage-1000	1000
Boro rice-	20.0 t	Knolkhol- 1000	1000
Oilseed		Brocolli-500	500
Sesamum- Local- 0.4 t	2.5 t	Tomato-2000	2000
Niger- NG1- 0.3 t	0.5 t	Lemon cuttings- 1000	1000
Linseed Local-	13.0 t	Summer Marigold-200	200

Rapeseed- Mesta-HC583- 0.1 t Blackgram PU-31=1.6 t Lentil- Field pea-	35.48 t 0.15 t 9.0 t 6.0 t 10.0t	Banana-300	300

3. B. Abstract of interventions undertaken during 2015-16

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	Feeding management	Dairy	Low production performance of the dairy cattle.		Feeding management of local/cross bred cattle by incorporation of commercially available mineral mixtures	1. Production & management of dairy animals 2. Fertility Management in dairy animals 3. Balanced/ supplement feeding in dairy livestock.	-	Field visit & monitoring	Commercially available calcium & mineral mixture (VM All & Lactaid Oral)
2		Poultry	Low productivity of indigenous poultry	Incorporation of commercial broiler feed for growth performance of local bird for meat purpose under confinement		1. Broiler farming for income generation.	-	Field visit & monitoring	Desi chicks- 50 nos, broiler chicks- 50 nos, Broiler feed- 3.5 qtl, vaccines, antibiotic, vitamin
3	Breed introduction	Poultry	Low productivity of indigenous poultry	-	Introduction of Kamrupa birds under backyard managemental condition in Kokrajhar district	1. Scientific poultry farming	-	Field visit & monitoring	Supply of Kamrupa chicks, vaccines, antibiotic & vitamin

4	Home Science	Eri Yarn	Wastage of Noil Eri Yarn	Noil Eri Yarn					Noil Eri yarn
5	Varietal performance	Tomato	Low yield of local variety	Varietal performance of tomato Arka Rakshak	-	-	-	Monitoring & field visit, diagnostic visit, advisory services etc.	Distribution of seeds, pesticides, fertilizers etc.,
6	Organic Cultivation	Cabbage	Degradation of soil health due to inorganic based production system	Production technology of cabbage using organic sources	-	Organic production technology of cabbage and cauliflower	-	Monitoring & field visit, diagnostic visit, advisory services etc.	Distribution of seeds, organic inputs, etc.,
7	Varietal performance	Banana	Severe incidence of Panama wilt disease in malbhog banana with complete destruction of banana orchards	-	Popularization of tissue culture banana Grand Naine	-	-	Monitoring & field visit, diagnostic visit, advisory services etc.	Distribution of banana suckers, fertilizers, plant protection chemicals etc.,
8	Varietal performance	Potato	Low yield of crops grown from tubers	-	Performance assessment of TPS (HPS II/67)	Improved cultivation of potato with reference to TPS	-	Monitoring & field visit, diagnostic visit, advisory services etc.	Distribution of TPS, fertilizers, plant protection chemicals etc.,
9	Varietal performance	Marigold	Non-availability of summer marigold	-	Performance assessment of summer marigold, Seracole	-	-	Monitoring & field visit, diagnostic visit, advisory services etc.	Distribution of TPS, fertilizers, plant protection chemicals etc.,

10	Biological Pest management	Paddy	Use of chemical pesticide as the only mode of pest suppression has resulted in use of diverse/broad spectrum pesticides which further resulted in decline of predators/parasitoids and also less effectively of popularly used pesticide.	Biological Suppression of rice pests.	-	1.Ecofriendly methods of pest and disease management. 2.Pesticides-uses and misuses and basic precautions in pesticides uses and study of alternatives 3. Integration of traditional methods of pest and disease management with modern methods. 4. Rodent management in field and store.	Introduction to Agro Eco System Analysis (AESA)	Monitoring and field visit, diagnostic visit, advisory services, installation of T perch and dead crab techniques, application of ITKs etc.	Distribution of paddy seed, Pseudomonas fluorescence,Beauveria bassiane, Trichogramma japonicum, Erection of bird perches, botanicals, and fertilizers.

11	Others (Vedic methods of pest and disease management)	Tomato	Year after year application of chemical pesticides for control of insect pests and diseases has elevated the problems of health of environment, human being and other animals. There is urgent need to bring to focus the golden formulae of age old practice of Panchagavya, which was the practice in vogue from time immemorial to few decades back.		Panchagavya- its application in vegetable crops against insect pests and diseases.	-	-	Demonstration of preparation methods of Panchagavya, monitoring and field visit, advisory services,	Distribution of plastic barrel, khada cloth, tomato seeds, ghee, milk, curd, tender coconut, Jaggary,

12	Other beneficial organisms	Mushroom.	The district has large population of tribal and adivasi population. The cases of mushroom poisoning due to wrong collection of wild mushroom.		Production technology of wild mushroom.	Production technology of Oyester Mushroom.	-	Demonstration of mushroom production methods with paddy straw, monitoring and field visit, advisory services,	Distribution of mesta stick (for demo unit preparation), spawn, binding wire etc.
13	Soil ammendment	Blackgram	Low productivity of pulses in acid soil	Acid soil management for *kharif* blackgram	-	Scientific production technology of kharif pulses Management of soil acidity for higher crop production	-	Field visit & monitoring	Distribution of seeds, fertilizer, pesticide and lime
14	Soil health	Toria	Low nutrient use efficiency and high cost involved with chemical fertilizer	Biofertilizer seed treatment of Toria	-	Scientific production technology of kharif oilseed	-	Field visit & monitoring	Distribution of seeds, fertilizer, pesticide
15	Soil management	Rice (Summer)	Micronutrient deficiency and low yield	-	Effect of zinc in summer rice	Integrated nutrient management in summer paddy	-	Field visit and monitoring	Seed , fertilizer , pesticide

3.1 Achievements on technologies assessed and refined during 2015-16

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation	-	-	-	-	1	-	-	-	-	1
Seed / Plant production	-	-	-	-	-	-	-	-	-	-
Weed Management	-	-	-	-	-	-	-	-	-	-
Integrated Crop Management	-	1	1	-	-	-	-	-	-	2
Integrated Nutrient Management	-	-	-	-	1	-	-	-	-	1
Integrated Farming System	-	-	-	-	-	-	-	-	-	-
Mushroom cultivation										
Drudgery reduction	1	-	-	-	-	-	-	-	-	1
Farm machineries										
Value addition										
Integrated Pest Management	1	-	-	-	-	-	-	-	-	1
Integrated Disease Management	-	-	-	-	-	-	-	-	-	-
Resource conservation technology	-	-	-	-	-	-	-	-	-	-
Small Scale income generating enterprises	-	-	-	1	-	-	-	-	-	1
TOTAL	2	1	1	1	2	-	-	-	-	7

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

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation	-	-	-	-	-	-	-	-	-	-
Seed / Plant production	-	-	-	-	-	-	-	-	-	-
Weed Management	-	-	-	-	-	-	-	-	-	-
Integrated Crop Management	-	-	-	-	-	-	-	-	-	-
Integrated Nutrient	-	-	-	-	-	-	-	-	-	-

Management										
Integrated Farming System	-	-	-	-	-	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-	-	-	-	-	-
Drudgery reduction	-	-	-	-	-	-	-	-	-	-
Farm machineries	-	-	-	-	-	-	-	-	-	-
Post Harvest Technology	-	-	-	-	-	-	-	-	-	-
Integrated Pest Management	-	-	-	-	-	-	-	-	-	-
Integrated Disease Management	-	-	-	-	-	-	-	-	-	-
Resource conservation technology	-	-	-	-	-	-	-	-	-	-
Small Scale income generating enterprises	-	-	-	-	-	-	-	-	-	-
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**	**Rabbitary**	**Fisheries**	**TOTAL**
Evaluation of Breeds	-	-	-	-	-	-	-	-
Nutrition Management	-	-	-	-	-	-	-	-
Disease of Management	-	-	-	-	-	-	-	-
Value Addition	-	-	-	-	-	-	-	-
Production and Management	-	-	-	-	-	-	-	-
Feed and Fodder	-	1	-	-	-	-	-	1
Small Scale income generating enterprises	-	-	-	-	-	-	-	-
TOTAL	-	1	-	-	-	-	-	1

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

Thematic areas	**Cattle**	**Poultry**	**Sheep**	**Goat**	**Piggery**	**Rabbitry**	**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	Incorporation of commercial broiler feed for growth performance of local birds for meat purpose under confinement	Low productivity of indigenous poultry	Local desi birds for intensive rearing, feeding of broiler feed to the desi birds, rearing of broiler chicks	Poultry	3	Av. wt. of broiler and local birds (kg) 1 st week Broiler- 0.102 Desi-0.054 2nd week Broiler- 0.745 Desi- 0.168 3rd week Broiler- 1.2 Desi- 0.430 4th week Broiler-1.79 Desi- 0.840 5thweek Broiler- 1.95 Desi- 0.980 6th week Broiler- sold Desi-1.4 Vaccination has been done against IBD, Ranikhet and Gumbaroo. No specific diseases have been recorded	Farmers are happy with the growth rate of desi birds incorporating commercial feed as the prevailing market price of desi bird is almost double to the rate of broiler birds	Desi birds grow well with incorporation of commercial broiler feed and occurrence of disease can also be prevented in intensive rearing	**Demo** Broiler: 1.75:1 Desi birds: 2:1 **Farmers practice** 1:1
2	Product diversification and value addition of hand woven fabric for	Not inclusion of right elements and principle	Product diversification	Handwoven Fabric	4	1. Geometric design were preferred by more customers especially the Rabha design in Sadar Mekhla. 2.Multicolouredtribal	1. Inclusion of principle of colour and element of design make the fabric more	Product diversification of hand woven fabric will get better marketability in	

	better marketability	of design				Motif/Design in contrast background in sadar Mekhla are found more preferable.6 out of 10 customers liked motif in contrast background.	attractive, especially if design weave in contrast background. fabric background	Assam if Rabha Design will be weaved in mekhla and Sadar Border and stitched in cotton/muga /mulberry fabric.	
3	Noil Eri Yarn	Wastage of Silk	Weaving	Eri	10	1.Fabric constructed out of only Noil eri yarn are have low strength compared to fabric weave out of long length eri yarn but the strength were found increased when blended with cotton. 3. Farmers utilize short eri yarn efficiently without wasting it.	1. Farmers prefer to weave Noil eri yarn with cotton yarn.	Union fabric from noil eri yarn and cotton are found with better quality than noil eri yarn alone.	
4	Biological Suppression of rice pests.	use of chemical pesticide as the only mode of pest suppression has resulted in use of diverse/broad spectrum pesticides which further resulted in decline of predators	1.Seed treatment/seedling root dip treatment with *Pseudomonas fluorescence* 2.Spraying of *Beauveria bassiane* 3.Release of *Trichogramma japonicum,* 4.Spraying of *Pseudomonas fluorescence* 5.Erection of bird perches, 6.Need based application of botanicals,	Rice	3	1. Dead Hearths/leaf folder – 0.25 % (Control), 0.5 % (Treated) and 0.5 % (Farmer) 2. White ear head – 3. Sucking pests. No 4. Disease incidence – 5. Yield –	Very effective for insect pests management and good for health.	The bioagents should be made available in the market.	Continuing

		/parasitoids and also less effectively of popularly used pesticide.							
5	Varietal performance of tomato variety Arka rakshak	Low yield of local variety susceptible to bacterial wilt	Tomato variety Arka Rakshak	Tomato/Vegetable crop production	4	**Demonstration** Fruit weight(g)-0.075-0.080kg ii) Fruit Yield/plant (kg)-4.6kg iii) Yield/ha (t)-45.0t/ha iv) Keeping quality-15-20 days v) Disease incidence(%)-Bacterial wilt-nil & Leaf curl-1% **Farmers Practice:** i) Fruit weight(g)-0.040-0.050kg Fruit Yield/plant (kg)-1.5kg Yield/ha (t)-23.0t/ha Keeping quality-6-7 days Disease incidence-Bacterial wilt 75% & Leaf curl 50%	Farmers were highly satisfied with the variety as incidence of bacterial wilt is almost nil with higher yield perfromance	The variety can be adopted for higher yield and resistance to bacterial wilt	7.56:1 4.6:1
6	Production technology of cabbage using organic sources	Degradation of soil health due to inorganic fertilizer based production practices	Organic cabbage production variety Golden Acre	Cabbage/ organic production	4	**Demonstration:** i)Plant spread (cm)-55cm ii) Head Compactness (%)-41% iii) Head weight (kg)-1.5 kg iv) Head yield (t/ha)-25.0t/ha v) No. of wrapper leaves-28nos **Farmers Practice:** i)Plant spread (cm)-36.6cm	Farmers were highly satisfied with the organic production technology as the tribal farmers of the district never uses inorgnic fertilizers for vegetable	The technology can be adopted for higher yield as well as for maintaining soil health.	3.9:1 3:1

						ii) Head Compactness (%)-35.9% iii) Head weight (kg)-1.3 kg iv) Head yield (q/ha)-150q/ha v) No. of wrapper leaves-20	production		
7	Acid soil management for *kharif* blackgram	Low productivity of pulses in acid soil	T_1 Soil Application of 33% lime (LR basede) and RD of fertilizer including foliar application of 2% urea at pod initiation stage T_2 = Without lime, RD of fertilizer including foliar application of 2% urea at pod initiation stage T_3 Farmer's Practice	*Kharif* Blackgram	3	T_1 =0. 746 t/ha T_2 = 0.680 t/ha T_3 =0. 576 t/ha	Farmers expressed willingness to apply lime and fertilizer at recommender level as crop yield in limed and fertilized plot was 29.51 % more than the farmers practice	Rainfall during Liming is important in Kokrajhar district	T_1 = 2.30:1 T_2 = 2.09:1 T_3 = 2.25:1
8	Biofertilizer seed treatment of Toria	Low nutrient use efficiency and high cost involved with chemical fertilizer	T1 75% RD of N and P fertilizer along with seed treatment of biofertilizers (Azotobacter & PSB @ 40 g/kg seed) and RD of K fertilizer T2 100% RD of NPK fertilizer without biofertilizers seed treatment T3 Farmer's Practice	Toria (Rapeseed)	3	T_1 =0.79 t/ha T_2 = 0.81 t/ha T_3 = 0.626 t/ha	Farmers desired to use biofertilizer to cut chemical fertilizer need and yield gain 27.7 % over their no fertilizer practice.	1. Non availability of good quality bio fertilizer in the market 2. Var.TS-36 is not suitable for delayed sowing	T_1 = 1.76:1 T_2 = 1.71:1 T_3 = 1.61:1

3.2 Achievements of Frontline Demonstrations during 2015-16

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

List of technologies demonstrated during previous year and popularized during 2014-15 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	Sali rice	T1: 25 kg ZnSO4 heptahydrate & FYM/compost 2t/ha & RD of NPK T2: RD of NPK	6	18	6
2	Sali rice	Use of Medium duration variety of Sali rice var.(TTB-404)	5	10	2
3	Toria	Use of HYV of toria var. TS-46	10	75	12
4	Maize	Use of Hybrid variety of Maize	12	105	15
5	Paddy	1.T-perch @ 50nos/ha as a component of IPM at a height of 60 cm (min) above the crop canopy, 2.Removing T-perches just before flowering,	5	14	4
6	Mandarin	INM in Mandarin through use of 75 % RD of fertilizer + 5.625 kg Neem cake + 500 g VAM +100 g PSB + 100 g Azospirillum + 100 g Trichoderma harzianum/plant/year in two split in March/April & Sept/Oct.	3	5	2
7	Piggery	Vaccination, deworming, feed _referred_ available commercially	6	15	-
8	Piggery	Hampshire/T&D as quality inputs	5	20	-
9	Dairy	Supplimentation of commercially available Calcium and mineral mixture	10	15	-
10	Dyeing	Natural dyeing	3	8	-
11	Storage	Zero energy cool chamber	2	4	-

**** 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 short fall in achievement	Farming situation (Rainfed / Irrigated, Soil type, altitude, etc)	Status of soil (Kg/ha)		
												N	P	K
					Proposed	Actual	SC/ST	Others	Total					
1.	Linseed Var.- Local (Cluster demonstration)	Varietal evaluation	Scientific cultivation of Linseed	Rabi, 2015-16	20 ha	20 ha	-	44	44	-	Rainfed	M	M	M
2.	Rapeseed Var.- TS-36 (Cluster demonstration)	Varietal evaluation	Scientific cultivation of Rapeseed	Rabi, 2015-16	30 ha	30 ha	35	10	45	-	Raifed			
3	Lentil Var – HUL-57 and Local (Cluster demonstration)	Varietal Evaluation	Scientific cultivation of Lentil	Rabi 2015-16	10 ha	10 ha	14	2	16	-	Rainfed			
4	Field Pea Var – Prakash and other (Cluster demonstration)	Varietal Evaluation	Scientific cultivation of field pea.	Rabi 2015-16	10 ha	10 ha	13	4	17	-	Rainfed			
5	Rapeseed (TSP)	Varietal evaluation	Scientific cultivation of Rapeseed	Rabi, 2015-16	5 ha	5 ha	9	-	9		Rainfed			
6	Boro rice Var. – Joymati (TSP)	Varietal evaluation	Package and practices of demonstration	Summer, 2015-16	13.33 ha	13.33 ha	48	-	48	-	Rainfed	L	M	M
7	Sesamum Var.- Local (TSP)	Varietal evaluation	Scientific cultivation of Sesamum	Kharif, 2015-16	5 ha	5 ha	14	-	15	-	Rainfed	M	M	M

8	Maize Var. 900M (TSP)	Varietal Evaluation	Scientific cultivation of Maize.	Rabi – 2015-16	20 ha	20 ha	35	-	35		Rainfed			
9	Tomato	Others (vedic method of pests and disease management)	Panchagavya – its application in vegetable crops against insect pests and diseases.	Rabi – 2015-16	1 ha	1 ha	3	3	6	-	Irrigated	-	-	-
10	Mushroom	Other beneficial organisms.	Production technology of oyester mushroom.	Cool months - 2015-16	5 units.	5 units.	3	2	5	-	-	-	-	-
11	Banana variety Grand Naine	Varietal evaluation	Banana tissue culture sucker Grand naine	Summer / 2016-17	0.39	0.39	5	2	7	nil	Irrigated/ Sandy loam/Medium land	M	L	L
12	Potato TPS	Varietal evaluation	Potato seed TPS (HPS II/67)	Rabi/ 2015-16	0.65	0.65	3	2	5	-	Irrigated /clay loam/Medium land	M	L	L
13	Summer Marigold	Varietal evaluation	Summer marigold variety Seracole	Summer , 2016-2017	0.65	0.65	5	-	5	nil	Irrigated /Sandy loam/Medium land	M	L	L
14	Rice	Soil management	25 kg ZnSO4 hepta hydrate, FYM 2t/ha & recommended dose of NPK Farmer practice Without fertilizer	2015-16 Summer	2.0	2.0	2	3	5	-	Irrigated Medium land	386.4-740.0	16.2-51.0	144.4-338.2
15	Blackgram	Varietal performance	Variety: PU-31 Farmer Practice Local	Kharif, 2015	1.5	1.5	8	-	8	-	Rainfer Upland	H-M	M-L	M-L

16	Rapeseed	Crop management	Recommended dose of fertilizer and other management Farmer's Practice without fertilizer	2015-16 Rabi	6.7	6.7	25	-	25		Rainfed medium land	H-M	M-L	M-L
17	Banana (Malbhog) (TSP)	Crop Production	Banana Var.-Malbhog	Summer 2015-16	1.0	1.0	8	-	8	-	Rainfed	M	L	L
18	Colocasia (TSP)	Crop Production	Colocasia	Summer 2015-16	1.0	1.0	6	-	6	-	Rainfed	M	L	L
19	Tapioca (TSP)	Crop Production	Tapioca	Summer 2015-16	2.0	2.0	16	-	16	-	Rainfed	M	L	L

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	Linseed (Cluster demonstration)	Varietal evaluation	20 ha	6.5 q/ha	5.7 q/ha	12.30	7.5 q/ha	5.5 q/ha	No incidence of minor pest is observed	No incidence of pest & diseases	16144.00	26000.00	9856.00	1.61:1	17572.6	22800	5227.4	1.29:1

2	Rapeseed (Cluster demonstration)	Varietal evaluation	30 ha	8.0 q/ha	6.0 q/ha	18.75	8.5 q/ha	7.5 q/ha	Incidence of minor pest is observed	No incidence of pest & diseases	15914.8	26800	10885.2	1.68	17112.6	20100	2987.4	1.17:1
3	Lentil Var – HUL-57 and Local	Scientific production techniques in lentil.	10 ha	6 q/ha	4 q/ha	33	8.5 q/ha	3.5 q/ha	No major disease and pest observed.	No incidence of pest & diseases	18000	60000	42000	3.3:1	18000	40000	22000	.2:1
4	Field Pea Var – Prakash and other	Scientific production techniques in field pea.	10 ha	10 q/ha	8 q/ha	20	11 q/ha	6 q/ha	No major disease and pest observed.	No incidence of pest & diseases	26000	70000	44000	2.6:1	26000	56000	30000	2.1:1
5	Rapeseed (TSP)	Varietal evaluation	5 ha	9.5 q/ha	8.2q/ha	13.68	10 q/ha	9 q/ha	Incidence of minor pest is observed	No incidence of pest & diseases	15914.80	31825	15910.20	1.99	17152.60	24600.00	7447.40	1.43:1
6	Boro rice Var. – Joymati (TSP)	Varietal evaluation	13.33 ha	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

7	Sesamum Var.-Local (TSP)	Varietal evaluation	5 ha	4.8 q/ha	4.0 q/ha	16.66	5.4 q/ha	4.2 q/ha	No incidence of minor pest is observed	No incidence of pest & diseases	15850.00	33600.00	17750.00	2.11	16648.60	19200.00	2551.40	1.15:1
8	Maize (TSP)	Scientific production technology.	20 ha	(Crop in tassaling stage)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	Tomato (Local variety)	Others (vedic method of pests and disease management)	1 ha	180	120	33	200	150	Almost nil. (except few seedlings)	Wilt in seedlings, blight in mature crops	6500	45000	38000	**5.8:1**	5000	20000	15000	4:1
10	Banana	Varietal evaluation	0.39	(Crop is in seedling stage)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	Potato (TPS)	Varietal evaluation	0.65	(Data could not be recordede due to late blight incidence	-	-	-	-	-	-	-	-	-	-	-	-	-	-

12	Summer marigold, Seracole	Varietal evaluation	0.13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	Rice	Soil management	2.0	Crop is at vegetative stage	Crop is at vegetative stage	-	-	-		-	-	-	-	-	-	-	-	-
14	Blackgram	Varietal performance	1.5	6.95	5.22	33.14	7.45	6.4	Macrophomina blight and powdery Mildwe	Macrophomina blight and powdery Mildwe	13828.00	32143.00	18315.00	2.31:1	11700.00	24142.00	12442.00	2.06:1
15	Rapeseed	Crop Management	6.7	8.77	6.30	39.2	9.75	7.80	Mustard sawfly	Mustard sawfly	15872.00	29380.00	13508.00	1.85:1	13050.00	21105.00	8055.00	1.61:1
16	Banana (TSP)	Crop Production	1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	Colocasia (TSP)	Crop Production	1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	Tapioca (TSP)	Crop Production	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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	22-2-16	35	5	40	Field day was conducted in a adivashi village.
2	Farmers Training	1					
3	Media coverage						
4	Training for extension functionaries						
5	Any other (Pl. specify)						
	Total	**2**		**35**	**5**	**40**	

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	Dairy	Feeding mana	Feeding manag	5	5	5 cows	Lactation milk	Traits unde	65 %	-	-	**Jersey** Rs.	**Jersey** Rs.	**Jersey** Rs.	Jersey	**Farmers Prac**	**Farmers Prac**	**Farmers Prac**	**Local** 1:1	Daily milk production

		geme nt	ement of local/cr ossbre d cattle by incorpo ration of comme rcially availab le mineral mixture				yield	r Farm ers pract ice				800/- per month/co w **Loca l** Rs. 350/- per month/co w	2400 /- per month/co w **Loca l** Rs. 900/- per month/co w	1600 /- per month/co w **Loca l** Rs. 550/- per month/co w	2:1 **Lo cal** 1.5 :1	**tice** Rs. 150/- per month/co w	**tice** Rs. 300/- per month/co w	**tice** Rs. 150/- per month/co w		increases 2 lit in Jersey X and 0.75 lit in local X animals
2	Poult ry	Breed introd uction	Introdu ction of Kamru pa birds under backya rd manag emenita l conditi on in Kokraj har district	5	5	100 bird s	Weig ht gain, Age at 1st lay, egg prod uctio n	Weig ht gain, Age at 1st lay, egg prod uctio n in local birds	60%	-	-	Rs. 6000 /- per unit per year	Rs. 9000 /- per unit per year	Rs. 3000 /- per unit per year	2:1	Rs. 2500 /- per unit per year	Rs. 6000 /- per unit per year	Rs. 3500 /- per unit per year	1.4: 1	Wt. at day old chick: 40 gms Av. Wt. at 4 weeks: 300 gm 8 weeks: 580 gm 20 weeks: 1.4 kg Age at 1st lay: 190 days No incidence of disease. Birds are in laying stage

(iii) Fisheries

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

(iv) Other enterprises

Sl. No.	Category / Enterprise, e.g., mushroom, vermicompost, apiculture etc.	Thematic area	Name of Technology	No. of farmers	No. of units	Major Performance parameters / indicators		% change in the parameter	Other parameters (if any)		Econ. of demo. (Rs./Ha.)				Econ. of check (Rs./Ha.)				Remarks
						Demo	Check		Demo	Check	GC**	GR**	NR**	BCR**	GC	GR	NR	BCR	
1	Mushroom	Other Beneficial organisms	Production technology of Oyester mushroom	5	5	30 kilograms per unit	15 kg/unit	100	No insect incidence	Few cases of maggot attack reported.	1000	8000	7000	8:1	1200	6000	4800	5:1	Mushroom
2	Zero energy cool chamber	Storage techniques	Storage techniques	2	2 units	Storability: Betel leaves =1 week.	Storability; Betel leaves =	100	-	-	-	-	-	-	-	-	-	-	-

						Cooked food =1-2 day. Leafy vegetables like spinach, coriander = 5-6 days. Fruits =10 days	1-2 days. Cooked food = 3-4 hrs. Leafy vegetables like spinach, coriander = 1 days. Fruits = 2-3 days											
3	Natural Dye	Dyeing	Application of natural dye on yarn	7	7 units	1. Alum gives different shades of colour 2. Annato seed gives pastel colour to cotton yarn 3. Yarn dyed with naturally dye are more colourfastness to sunlight and get easily fade especially dyed with turmeric but last during washing and pressing.	1. Alum is not use during dying. 2.Farmers are unaware about use of Annato seed as dye.	100	-	-	-	-	-	-	-	-	-	--	-

						4. Yarn dyed with tea leave response well to all three parameters													
4	Maize Sheller	Maize Sheller	Maize Sheller (Rotatory Type)	4	4 Units	1kg of maize will be shell with maize sheller within 15 min. More efficient	1 kg of maize shell with hand requires 45 min. Less efficient and leads to swelling of hand and finger	35	-	-	-	-	-	-	-	-	-	-	-

(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
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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						
				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)	Grand Total (x+y)
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	-	1	12	-	-	-	10	-	15	-	-	-	15	-	27	-	-	-	27	-	27
Soil and Water Conservation																						
Integrated Nutrient Management																						
Production and use of organic inputs																						
Management of Problematic soils																						
Micro nutrient deficiency in crops																						
Nutrient Use Efficiency																						
Soil and Water Testing																						
IV Livestock Production and Management																						
Dairy Management																						
Poultry Management																						
Piggery Management																						
Rabbit Management																						
Disease Management																						
Feed management																						

Production of quality animal products																						
V Home Science/Women empowerment																						
Household food security by kitchen gardening and nutrition gardening																						
Design and development of low/minimum cost diet																						
Designing and development for high nutrient efficiency diet																						
Minimization of nutrient loss in processing																						
Gender mainstreaming through SHGs																						
Storage loss minimization techniques																						
Value addition	1	-	1	-	-	3	-	3	-	-	-	22	-	22	-	-	-	25	-	25	-	25
Income generation activities for empowerment of rural Women																						
Location specific drudgery reduction technologies																						
Rural Crafts																						

Women and child care																						
VI Agril. Engineering																						
Installation and maintenance of micro irrigation systems																						
Use of Plastics in farming practices																						
Production of small tools and implements																						
Repair and maintenance of farm machinery and implements																						
Small scale processing and value addition																						
Post Harvest Technology																						
VII Plant Protection																						
Integrated Pest Management																						
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**	**12**	**0**	**3**	**0**	**13**	**0**	**15**	**0**	**22**	**0**	**37**	**0**	**27**	**0**	**25**	**0**	**52**	**0**	**52**

3.3.2.Achievements on Training off 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																						
Seed production	4	0	4	4	0	2	0	6	0	73	0	21	0	94	0	77	0	23	0	100	0	100
Nursery management																						
Integrated Crop Management	2	-	2	-	-	-	-	-	-	29	-	-	-	29	-	29	-	-	-	29	-	29

Fodder production	1	-	1	-	-	-	-	-	-	25	-	-	-	25	-	25	-	-	-	25	-	25
Production of organic inputs																						
II. Horticulture																						
a) Vegetable Crops																						
Production of low volume and high value crops	2		2	-	-	-	-	-	-	32	-	32	18	-	18	32	-	32	18	-	18	50
Off-season vegetables																						
Nursery raising																						
Exotic vegetables like Broccoli	1		1	25	-	25	-		-	-	-	-	-	-	-	25	-	25	-	-	-	25
Export potential vegetables																						
Grading and standardization																						
Protective cultivation (Green Houses, Shade Net etc.)																						
b) Fruits																						
Training and Pruning																						
Layout and Management of Orchards																						
Cultivation of Fruit	1	-	1	-	-	-	-	-	-	26	-	-	-	26	-	26	-	-	-	26	-	26
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	1	-	1	-	-	-	-	-	-	-	-	15	-	11	-	15	-	11	-	26	-	26
Processing and value addition																						
e) Tuber crops																						
Production and Management technology	1	-	1	12	-	-	-	12	-	-	-	14	-	-	-	26	-	-	-	26	-	26
Processing and value addition																						
f) Spices																						

Production and Management technology	1	-	1				14	-	14	9	-	9	11	-	11	23	-	23	11	-	11	34
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	-	1	-	-	-	-	-	-	24	-	2	-	26	-	24	-	2	-	26	-	26
Soil and Water Conservation	1	-	1	-	-	-	-	-	-	10	-	15	-	25	-	10	-	15	-	25	-	25
Integrated Nutrient Management	1	-	1	-	-	-	-	-	-	17	-	6	-	23	-	17	-	6	-	23	-	23
Production and use of organic inputs	1	-	1	-	-	-	-	-	-	14	-	11	-	25	-	14	-	11	-	25	-	25
Management of Problematic soils	2	-	2	22	-	3	-	25	-	20	-	7	-	27	-	42	-	10	-	52	-	52
Micro nutrient deficiency in crops																						
Nutrient Use Efficiency	1	-	1	22	-	1	-	23	-	4	-	-	-	4	-	26	-	1	-	27	-	27
Soil and Water Testing																						

IV Livestock Production and Management																						
Dairy Management	2	-	2	37	-	18	-	55	-	-	-	-	-	-	-	37	-	18	-	52	-	52
Poultry Management																						
Piggery Management	1	-	1	2	-	-	-	2	-	17	-	6	-	23	-	19	-	6	-	25	-	25
Rabbit Management																						
Disease Management	2	-	2	11	-	12	-	23	-	7	-	20	-	27	-	18	-	32	-	50	-	50
Feed management	1	-	1	24	-	1	-	24	-	-	-		-	-	-	24	-	1	-	25	-	25
Production of quality animal products																						
Sheep & Goat Management	1	-	1	4	-	5	-	9	-	10	-	6	-	16	-	14	-	11	-	25	-	25
Integrated Farming System	1	-	1	18	-	-	-	18	-	7	-	-	-	7	-	25	-	-	-	25	-	25
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	2	-	2	-	-	10	-	10	-	-	-	40	-	40	-	-	-	50	-	50	-	50
Income generation activities for empowerment of rural Women																						
Location specific drudgery reduction technologies	1	-	1	1	-	-	-	1	-	2	-	22	-	24	-	1	-	24	-	25	-	25
Rural Crafts	1	-	1	-	-	18	-	18	-	-	-	7	-	7	-	-	-	25	-	25	-	25
Women and child care																						
VI Agril. Engineering																						
Installation and maintenance of micro irrigation systems																						
Use of Plastics in farming practices																						
Production of small tools and implements																						

Repair and maintenance of farm machinery and implements																						
Small scale processing and value addition																						
Post Harvest Technology																						
VII Plant Protection																						
Integrated Pest Management	5	-	5	103	-	27	-	130	-	15	-	11	-	26		119	-	38	-	157	-	157
Integrated Disease Management	1		1	16	-	11	-	27	-	-	-	-	-	-	-	16	-	11	-	27	-	27
Bio-control of pests and diseases	1		1	-	-	-	-	-	-	10	-	17	-	27	-	10	-	17	-	27	-	27
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	2	-	2	35	-	3	-	38	-	9	-	3	-	12	-	44	-	6	-	50	-	50
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																						
Pond Management	1	-	1	17	-	2	-	19	-	4	-	2	-	25	-	21	-	4	-	25	-	25
Fish Disease	1	-	1	9	-	2	-	11	-	13	-	1	-	14	-	22	-	3	-	25	-	25
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	2	-	2	18	-	18	-	36	-	7	-	7	-	14	-	25	-	25	-	50	-	50
Entrepreneurial development of farmers/youths																						
WTO and IPR issues																						
Contingency planning	1	-	1	14	-	4	-	18	-	6	-	1	-	7	-	20	-	5	-	25	-	25

XI Agro-forestry																					
Production technologies																					
Nursery management																					
Integrated Farming Systems																					
TOTAL	**47**	**0**	**47**	**394**	**0**	**162**	**14**	**505**	**14**	**390**	**0**	**275**	**29**	**584**	**29**	**826**	**0**	**435**	**29**	**1098**	**29**	**1207**

(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	1	-	1	3	-	5	-	8	-	8	-	9	-	17	-	11	-	14	-	25	-	25
Sheep and goat rearing																					
Quail farming																					
Piggery																					
Rabbit farming																					
Poultry production	1	-	1	11	-	5	-	16	-	-	-	9	-	9	-	11	-	14	-	25	-	25
Ornamental fisheries																					
Para vets																					
Para extension workers																					
Composite fish culture																					
Freshwater prawn culture																					
Shrimp farming																					

Pearl culture																						
Cold water fisheries																						
Fish harvest and processing technology																						
Fry and fingerling rearing																						
Small scale processing																						
Post Harvest Technology																						
Tailoring and Stitching																						
Rural Crafts	2	-	2	-	-	35	-	35	-	-	-	15	-	15	-	-	-	50	-	50	-	50
TOTAL	**4**	**0**	**4**	**14**	**0**	**45**	**0**	**59**	**0**	**8**	**0**	**33**	**0**	**41**	**0**	**22**	**0**	**78**	**0**	**100**	**0**	**100**

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																						
IPM	1	-	1	39	-	2	-	41	-	-	-	-	-	-	-	39	-	2	-	41	-	41
Integrated farming	1	-	1	7	-	6	-	13	-	10	-	2	-	12	-	17	-	8	-	25	-	25
Seed production	1	-	1	-	-	-	-	-	-	24	-	6	-	30	-	24	-	6	-	30	-	30
Production of organic inputs																						
Integrated																						

Farming																						
Planting material production																						
Vermi-culture																						
Sericulture	1	-	1	-	-	-	-	-	-	-	-	25	-	25	-	-	-	25	-	25	-	25
Protected cultivation of vegetable crops																						
Commercial fruit production	1	-	1	26	-	26	-	-	-	-	-	-	-	-	-	26	-	26	-	-	-	26
Repair and maintenance of farm machinery and implements																						
Nursery Management of Horticulture crops																						
Training and pruning of orchards	1	-	1	1	-	1	2	-	2	18	-	18	6	-	6	19	-	19	8	-	8	27
Value addition	1	-	1	-	-	-	-	-	-	-	-	25	-	25	-	-	-	25	-	25	-	25
Production of quality animal products																						
Dairying																						
Sheep and goat rearing																						
Quail farming																						
Piggery																						
Rabbit farming																						
Poultry production																						
Ornamental fisheries																						
Para vets																						

Para extension workers																					
Composite fish culture																					
Freshwater prawn culture																					
Shrimp farming																					
Pearl culture																					
Cold water fisheries																					
Fish harvest and processing technology																					
Fry and fingerling rearing																					
Small scale processing																					
Post Harvest Technology																					
Tailoring and Stitching																					
Rural Crafts																					
IPR	1	-	1	26	-	-	-	26	-	-	-	-	-	-	-	26	-	-	-	26	-	26
PRA	1	-	1	7	-	6	-	13	-	10	-	2	-	12	-	17	-	8	-	25	-	25
TOTAL	**9**	**0**	**9**	**106**	**0**	**41**	**2**	**93**	**2**	**62**	**0**	**78**	**6**	**104**	**6**	**168**	**0**	**119**	**8**	**197**	**8**	**250**

C. Extension Personnel

3.3.5. Achievements on Training of Extension Personnel in On Campus including Sponsored On Campus Training Programmes

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

Thematic area	No. of Courses/ prog			Participants																		Grand Total (x + y)
				General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
	On (1)	Sp On* (2)	Total (1+2)	On (4)	Sp. On (5)	On (6)	Sp. On (7)	On (a= 4+6)	Sp. On (b= 5+7)	On (8)	Sp. On (9)	On (10)	Sp. On (11)	On (c= 8+10)	Sp. On (d= 9+11)	On (4+8)	Sp. On (5+9)	On (6+10)	Sp. On (7+11)	On (x= a +c)	Sp. On (y= b +d)	
Productivity enhancement																						

in field crops																					
Climate Change	1	-	1	7	-	4	-	11	-	4	-	-	-	4	-	11	-	4	-	15	-	15
Integrated Pest Management																					
Integrated Nutrient management																					
Rejuvenation of old orchards	1	-	1	21	-	-	-	21	-	4	-	-	-	4	-	25	-	-	-	25	-	25
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																						
Total	**2**	**0**	**2**	**28**	**0**	**4**	**0**	**32**	**0**	**8**	**0**	**0**	**0**	**8**	**0**	**36**	**0**	**4**	**0**	**40**	**0**	**40**

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
	Off	Sp Off*	Total	General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
				Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	
Productivity enhancement in field crops	1	-	1	14	-	-	-	14	-	11	-	2	-	13	-	25	-	2	-		27	27
Integrated Pest Management	1	-	1	14	-	-	-	14	-	8	-	-	-	8	-	22	-	-	-	22	-	22
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	1	-	1	-	-	-	-	-	-	-	-	25	-	25	-	-	-	25	-	25	-	25
Women and Child care	1	-	1	-	-	25	-	25	-	-	-	-	-	-	-	-	-	25	-	25	-	25
Low cost and nutrient efficient diet designing																						
Production and use of organic inputs																						
Gender mainstreaming through SHGs																						
TOTAL	**4**	**0**	**4**	**28**	**0**	**25**	**0**	**53**	**0**	**19**	**0**	**27**	**0**	**46**	**0**	**47**	**0**	**52**	**0**	**72**	**27**	**99**

(D) Vocational training programmes for Rural Youth

Crop / Enterprise	Date (From – To)	Duration (days	Area of training	Training title*	No. of Participants									Impact of training in terms of Self employment after training				Whether Sponsored by external funding agencies (Please Specify with amount of fund in Rs.)
					General			SC/ST			Total							
					M	F	T	M	F	T	M	F	T	Type of enterprise ventured into	Number of units	Number of persons employed	Avg. Annual income in Rs. generated through the enterprise	
Poultry Farming	01.03.16 – 6.03.16	6 days	Poultry farming	Scientific Poultry Farming	5	-	5	5	-	5	10	-	10	Poultry Farming				
(Home Science) Fabric painting	30/11/15 to 5/12/15	6 days	Fabric Painting	Vocational Training on Fabric Painting	0	13	13	0	12	12	13	12	25	Fabric painting	1			No
Textile and apparel designing	26/09/15 to 16/10/15	21 days	Tailoring and stitching	Textile and apparel designing	0	6	6	0	10	10	6	10	16	Tailoring and stitching garments	1			No
Horticulture Nursery management	30-11-15 To 3-12-15	4 days	Horticulture Nursery management	Planning, layout and management of horticulture nursery	17	-	17	4	-	4	21	-	21	Nursery production of flowers, timberand vegetable crop	2 units	-	45,000.00	No
	17-3-16 To 22-3-16	6 days	Plant nursery management	Entrepreneurship development through plant nursery	21	7	28	-	-	-	21	7	28	Nursery production of flower crops	1 unit	-	Just started	No
Vermicompost	10.3.16-15.3.16	6 days	Vermicompost	Vermicompost and enriched compost production technology	10	5	15				10	5	15	Vermicompost production	10	-	-	No

Honey bee	10-2-16 to 17-2-16	6	Other beneficial organisms.	Honey production technology	5	6	11	7	2	9	12	8	20	Honey bee keeping	5	-	-	No.
Mushroom	6-1-16 to 9-1-16	4	Other beneficial organism	Production technology of oyester mushroom	3	11	14	1	12	13	4	23	27	Oyester production units.	10		About 600 to 10000 income generated during the last 3 months.	No.

3.4. Extension Activities (including activities of FLD programmes) (Please mention specific Extension Activity conducted by the KVK such as Field Day, Kisan Mela, Exhibition, Diagnostic Visit, etc) during 2015-16

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	-	Apr, 15-March, 16	318	100	45	145	144	29	173	-	-	-	244	74	318
2	Diagnostic visit	-	Apr, 15-March, 16	95	65	25	70	61	17	78	-	-	-	126	42	168
3	Field day	-	-	10	120	100	220	75	80	155	6	1	7	201	181	382
4	Group Discussion	-	Apr, 15-March, 16	6	68	-	68	60	13	73	-	-	-	128	13	141
5	Kishan Gosthi	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	Kishan Mela	-	August, 15	1	33	34	67	21	12	33	-	-	-	54	46	100
7	Film show	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	SHG formation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	Exhibition	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	Scientists visit to farmers fields	-	Apr, 15-March, 16	474	117	28	145	220	109	329	-	-	-	337	137	474
11	Plant/ Animal Health camp	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	Farm science club	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	Ex-trainee Sammelan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	Farmers seminar/ workshop	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	Method demonstration	-	Apr, 15-March, 16	8	26	46	72	25	25	50	-	-	-	51	71	122
16	Celebration of important days	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	Exposure visits	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	Electronic media (CD/DVD)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

19	Extension literature	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	Newspaper coverage	-	Apr, 15-March, 16	8	-	-	-	-	-	-	-	-	-	-	-	-
21	Popular articles	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	Radio talk	-	Apr, 15-March, 16	4	-	-	-	-	-	-	-	-	-	-	-	-
23	TV talk	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	Training manual	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	Soil health camp	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	Awareness camp	KCC & CIS, Poultry Vaccination	-	2	16	40	56	17	12	29	5		5	38	52	90
27	Lecture delivered as resource person	-	Apr, 15-March, 16	48	-	-	-	-	-	-	-	-	-	-	-	-
28	PRA	-	Apr, 15-March, 16	4	15	6	21	46	69	115	4	-	4	65	75	140
29	Farmer-Scientist interaction	-	-	1	12	5	17	18	2	20	3		3	33	7	40
30	Soil test campaign	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	Mahila Mandal Convener meet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	Collaborative training programme	-	May, 15	4	18	19	37	91	35	126				109	54	163
33	Farmers visit to KVK	-	Apr, 15-March, 16	490	101	104	205	224	61	285	-	-	-	325	165	490
34	Celebration of World Food Day	-	October, 15	1	7	28	35	7	4	11	-	-	-	14	32	46
35	Celebration of Jai Kisan Jai Vigyan Week	-	December, 15	1	62	34	96	17	-	-	-	-	-	79	34	113
36	Celebration of World Soil Day	-	December, 15	1	52	-	52	48	-	48	-	-	-	100	-	100
37	Training cum awareness programme on Protection of plan varities & farmers act	-	January, 16	1	5	15	20	68	7	75	-	-	-	73	22	95
	Total			**1476**	**817**	**529**	**1326**	**1142**	**475**	**1600**	**18**	**1**	**19**	**1977**	**1005**	**2982**

3.5 Production and supply of Technological products during 2015-16

A. SEED MATERIALS

Major group/class	Crop	Variety	Quantity (qt)	Value (Rs.)	Number of recipient/ beneficiaries		
					General	SC/ST	Total
CEREALS	Sali rice	Mashuri	0.2 (2014-15)	660.00	-	1	1
		Gitesh	3.23 (2014-15)	10659.00	9	12	21
			16.0 (20105-16)	-	-	-	-
		TTB-404	8.0 (20105-16)	-	-	-	-
		Ranjit	13.60 (2014-15)	44880.00	10	35	45
	Boro rice	Joymoti	200.0 (20105-16)				
	Buckwheat	Local	3.70 (2014-15)	14800.00	8	10	18
		Local	4.5 (20105-16)	-	-	-	-
OILSEEDS	Sesamum	Local	0.26 (2014-15)	2600.00	-	2	2
		Local	25.0 (20105-16)	-	-	-	-
	Niger	NG-1	3.24 (2014-15)	19440.00	2	8	10
		NG-1	5.0 (20105-16)	-	-	-	-
	Linseed	Local	130.0 (20105-16)	-	-	-	-
	Rapeseed	TS-36	354.8 (20105-16)	-	-	-	-
PULSES	Blackgram	PU-31	90.0 (20105-16)	-	-	-	-
	Lentil	Local	60.0 (20105-16)	-	-	-	-
	Field Pea	Prakash	100.0 (20105-16)	-	-	-	-
VEGETABLES							
FLOWER CROPS							
OTHERS (Specify)	Mesta	HC-583	1.18 (2014-15)	3186.00	2	3	5
		HC-583	1.5 (20105-16)	-	-	-	-

A1. SUMMARY of Production and supply of Seed Materials during 2015-16

Sl. No.	Major group/class	Quantity (ton.)	Value (Rs.)	Number of recipient/ beneficiaries		
				General	SC/ST	Total
1	CEREALS	24.92	70999.00	27	58	85
2	OILSEEDS	51.83	22040.00	2	10	12
3	PULSES	25.0	-	-	-	-
4	VEGETABLES					
5	FLOWER CROPS					
6	OTHERS (Mesta)	0.29	3186.00	2	3	5
TOTAL		102.04	96225	31	71	102

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

Major group/class	Crop	Variety	Numbers (In Lakh)	Value (Rs.)	Number of recipient beneficiaries		
					General	SC/ST	Total
Fruits	Lemon	Assam lemon	9 nos (2014-15)	108.00	-	3	3
		Assam lemon	1000 nos	-	-	-	-
	Coconut	Local	20 nos	-	-	-	-
	Banana	Malbhog	300 nos	-	-	-	-
Spices	Turmeric	Megha turmeric-1	125 kg (2014-15)	2500.00	-	-	Farm use
Ornamental Plants	Gladioulus	-	100 nos	-	-	-	-
	Gerbera	Redgem	2000 nos	-	-	-	-
	Mussenda	-	500 nos	-	-	-	-
	Summer Marigold	-	200 nos	-	-	-	-
VEGETABLES	Cabbage	-	1000 nos	-	-	-	-
	Knolkhol	-	1000 nos	-	-	-	-
	Brocolli	-	500 nos	-	-	-	-
	Tomato	-	2000 nos	-	-	-	-
Forest Spp.							

Plantation crops							
Medicinal plants							
OTHERS (Pl. Specify)							

B1. SUMMARY of Production and supply of Planting Materials (In Lakh) during 2015-16

Sl. No.	Major group/class	Numbers (In Lakh)	Value (Rs.)	Number of recipient beneficiaries		
				General	SC/ST	Total
1	**Fruits**	1329 nos	108.00	-	3	3
2	**Spices**	125 kg	2500.00	-	-	Farm use
3	**Ornamental Plants**	2800nos	-	-	-	-
4	**VEGETABLES**	4500 nos	-	-	-	-
5	**Forest Spp.**					
6	**Medicinal plants**					
7	**Plantation crops**					
8	**OTHERS (Specify)**					
TOTAL		**8629 nos**	**2608.00**	**-**	**3**	**-**

C. Production of Bio-Products during 2015-16

Major group/class	Product Name	Species	Quantity		Value (Rs.)	Number of Recipient /beneficiaries		
			No	(qt)		General	SC/ST	Total
BIOAGENTS								
BIOFERTILIZERS								
1	Vermicompost	*Eichinia foetida*	**-**	5.0	2200.00	1	-	1
BIO PESTICIDES								

C1. SUMMARY of production of bio-products during 2015-16

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	*Eichinia foetida*	-	500.0	2200.00	1	-	1
3	BIO PESTICIDE							
	TOTAL		**-**	**500.0**	**2200.00**	**1**	**-**	**1**

D. Production of livestock during 2015-16

Sl. No.	Type of livestock	Breed	Quantity		Value (Rs.)	Number of Recipient beneficiaries		
			(Nos)	Kgs		General	SC/ST	Total
	Cattle/ Dairy							
	Goat							
	Piggery	T&D	4	-	10000.00	-	4	4
	Poultry							
	Meat	Vanaraja	-	23.5	2630.00	-	-	-
	Egg	Vanaraja	193	-	965.00	-	-	-
	Fisheries							
	Others (Specify)							

D1. SUMMARY of production of livestock during 2015-16

Sl. No.	Livestock category	Breed	Quantity		Value (Rs.)	Number of Recipient beneficiaries		Total number of Recipient beneficiaries
			Nos	(kg)		General	SC/ST	
1	CATTLE							
2	SHEEP & GOAT							
3	POULTRY	**Vanaraja**	**193**	**23.5**	**3595.00**	**-**	**-**	**-**
4.	PIGGERY	**T&D**	**4**	**-**	**10000.00**	**-**	**4**	**4**
5	FISHERIES							
6	OTHERS (Pl. specify)							
	TOTAL		**197**	**23.5**	**13595.00**	**-**	**4**	**4**

3.6. Literature Developed/Published (with full title, author & reference) during 2015-16

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

(B) Articles/ Literature developed/published

Item	Title/and Name of Journal	Authors name	Number of copies
Research papers			
1.			
Training manuals			
Technical Report			
Book/ Book Chapter			
Popular articles	Improved production technology of sweet gourd/Adab, 2016	Sanchita Brahma	100
Technical bulletins	Nursery raising techniques of transplanted vegetable crops and planning and layout of kitchen garden	Dr. Manoj Kr. Bhuyan, Sanchita Brahma	100
	Protection of plant variety and farmers right (PPV & FR) Act-2001	Dr. M.K. Bhuyan, Mr. C.R. Deka, Mrs. S. Brahma, Miss. S. Bhuyan, Mr. M.U. Basumatary, Mr. G. Bhgawati	100
	Sasyar jat aru Krisakar adhikar raxanabexan aain	Dr. M.K. Bhuyan, Mr. C.R. Deka, Mrs. S. Brahma, Miss. S. Bhuyan, Mr. M.U. Basumatary, Mr. G. Bhgawati, Dr. B.R kayastha	100

Newsletter			
Conference/ workshop proceedings			
Leaflets/folders			
e-publications			
Any other (Pl. specify)			
TOTAL	**4**	**-**	**400**

(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/Case studies, if any (two or three pages write-up on each case with suitable action photographs)

Sri Dibakar Roy, son of Shri Narendra Nath Roy of village No. 1 Hatigarh is a very enthusiastic farmer and entrepreneur. His father was a farmer and they have about 4.66 ha (35 bigha) of land. Yet they fight hard to earn bread and butter. He passed High School Leaving Certificate examination in 1999. Seeing poor economy of the family and struggle for two meals of the family, Dibakar Roy did not pursue further study and started helping his father in his agricultural field. He observed that traditional agriculture was the main problem of paltry income from their agricultural field. So, he started attending training programme in the village and other areas. About 8 years from now he attended first training programme of KVK Kokrajhar. It followed several training courses of KVK in agriculture, horticulture and animal sciences. He conducted many FLDs and On farm trials of KVK Kokrajhar. He was sent for training at AAU Jorhat, HRS Kahikuchi and Duck research Centre, Bangalore. He attended trainings at NDRI, Karnal, NRC pig, Rani, Assam, and fisheries training in West Bengal and Andhra Pradesh. On advice of scientist of KVK Kokrajhar, he brought eggs of Broiler duck, Vigova Super M from Bangalore and he got the distinction of being first rearer of the broiler duck in Assam. Under FPARP project of KVK Kokrajhar he gained experience of rearing Chara Chambelli duck and became a model duck farmer of the area changing livelihood of many families of his area. He has now 30 ducks and 25 poultry of Banaraja and Kamrupa breed. He learned brooding and vaccination also. On being advised by scientist of KVK Kokrajhar and with the help of Veterinary officials, he offered his local cow for artificial insemination and now he has two very good cross bred cow. Under FPRAP project, scientists of KVK helped their farmers' group in scientific fish cultivation on integrated mode and with his knowledge from fisheries training outside Assam, he became a successful fish farmer and demonstrator of successful rice cum pisciculture model till today. But he has an entrepreneurial mind. So taking support of other lined department he owned rice, chira, dal, atta, haldi meals and a feed mill. He is now a torch bearer entrepreneur of the area. This has improved his livelihood to a great extent.

Economics of enterprises under Sri Dibakar Roy during 2015-16

Particulars of enterprise	Area (ha)/ size	Net Income (Rs)
A. Field Crop		
i. Rice	3.3 (25 bigha)	138000.00
ii. Maize	1.4 (10.5 bigha)	15000.00
iii. Sugarcane	0.26 (2 bigha)	5000.00
B Horticultural crop and agro forestry		
i. Vegetables	0.4 (3 bigha)	90000.00
ii. Arecanut	190 no.s	16000.00
iii. Banana	0.13 (1 bigha)	8000.00
iv. Bamboo	0.2 (1.5 bigha)	12500.00
C. Veterinary		
i. Duck	30	13000.00
ii. Poultry	25	12000.00
iii. Dairy	7 (4 milch cow)	48000.00
D. Fishery	2 no.s	50000.00
E. Processing industry		
i. Rice, Dal, Chira, Haldi, Atta mills	1 unit each	240000.00
ii. Feed mill	1 unit	50000.00
Total		**699500.00**

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

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

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

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

- Identification of courses for farmers/farm women

PRA techniques, SAC meeting, ZREAC meeting, Farmers visit to KVK, Bimonthly/Quarterly Zonal Workshop, Interaction with extension functionaries, Discussion with district and primary Pathar Parichalana Samiti (PPS) etc.

-Rural Youth

PRA techniques, SAC meeting, ZREAC meeting, Farmers visit to KVK, Bimonthly/Quarterly Zonal Workshop, Discussion with district and primary Pathar Parichalana Samiti (PPS), Extension Functionaries, Youth organizations, NGOs, SHGs etc

- In-service personnel

Bimonthly/quarterly Zonal Workshop, SAC meeting, ZREAC meeting, Interaction with extension functionaries, PRA techniques, Interaction with youth organizations, NGOs, SHGs etc.

3.11 Field activities

i. Number of villages adopted: 6
ii. No. of farm families selected: 368
iii. No. of survey/PRA conducted: 6

3.12. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab : Working

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

Sl. No	Name of the Equipment	Qty.	Cost
1	Spectrophotometer	1 No	23,488.00
2	Flame photometer	1 No	22,490.00
3	PH Meter	1 No	7,384.00
4	Conductivity Bridge	1 No	8,673.00
5	Physical Balance (5 Kg capacity)	1 No	4,500.00
6	Physical Balance (2.5 Kg capacity)	1 No	3,000.00
7	Chemical Balance	1 No	32,500.00
8	Shaker	1 No	16,500.00
9	Rotary Shaker	1 No	19,800.00
10	Refrigerator	1 No	14,062.00
11	Hot Plate	1 No	3,000.00
12	Oven	1 No	18,960.00
13	Grinder	1 No	15,750.00
14	Double Water Distillation Apparatus	1 No	27,800.00
15	Water Distillation Still	1 No	9,970.00
16	Electronic Automatic KEL PLUS Digestion System	1 No	80,497.00
17	Electronic KEL PLUS Automatic Distillation System	1 No	1,50,110.00
Total		17 nos	308,374.00

3. Details of samples analyzed so far :

Details	No. of Samples	No. of Farmers	No. of Villages	Amount (In Rupees) realized
Soil Samples	253	253	14	-
Water Samples	-	-	-	-
Plant Samples	-	-	-	-
Petiole Samples	-	-	-	-
Total	253	253	14	-

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	77	84117	12	13229	34	37214	-	-	-	-	4	4172	127	138732
Voice only	1	1148	5	900	-	-	-	-	-	-	-	-	6	2048
Voice and Text both	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	**78**	**85265**	**17**	**14129**	**34**	**37214**	**0**	**0**	**0**	**0**	**4**	**4172**	**133**	**140780**

3.14 Contingency planning for 2015-16

a. Crop based Contingency planning

Contingency (Drought/ Flood/ Cyclone/ Any other please specify)	Proposed Measure	Proposed Area (In ha.) to be covered	Number of beneficiaries proposed to be covered		
			General	SC/ST	Total
Flood	Introduction of new variety or crop				
	Introduction of Resource Conservation Technologies				
	Distribution of seeds and planting materials	13.3	31	61	92
	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
Disease outbreak	200 chicks	4	Health camp :2 Awareness camp:2	Animal: 500 Bird: 500	70	130	200

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)
Summer vegetables cultivation techniques	450	90	30000/ha	60000/ha
Cole crops production technology	500	90	40000/ha	65000/ha
Nursery techniques	300	84	44000/ha	70000/ha
Mushroom production technology	520	60	-	45000/Season
Fertilizer application in Boro rice	370	75	12000/ha	25000/ha
Improved variety of Rapeseed	560	80	15000/ha	25000/ha
Improved cultivation of Potato	550	85	25000/ha	35000/ha
Improved method of Banana plantation	465	90	15000/ha	35000/ha
Broiler farming	250	75	3500/month	7000/month
Composite Fish farming	76	40	45000/ha	75000/ha
HYV in Sali rice (Ranjit)	900	95	25000/ha	38000/ha
Control of shoot and fruit borer in Brinjal	150	65	8000/ha	15000/ha
Control of fruit scaring beetle in Banana	380	78	20000/ha	36000/ha
Techniques for preparation of Vermicompost	260	50	10000/ha	40000/year

Rearing of Pig	280	75	Rs. 1300/piglet	Rs.2200/piglet
Rearing of Duck	150	55	130 egg/duck	200 egg/duck
Poultry management	85	40	90 eggs/bird	120eggs/bird
Dairy management	85	50	6lits milk/Crossbred cow	10lits milk/crossbred cow

4.2. Cases of large scale adoption

1	Adoption of HYV of Boro Rice – Joymati, Kanaklata & swarnav	Area increased – 85 %
2	Adoption of HYV of Rapeseed – TS – 36 , TS – 38 & TS-46	Increase in area – 72 %
3	Commercial cultivation of Banana variety – Malbhog	Increase in area – 80 %
4	Adoption of control measures for late blight of Potato	Adoption – 65 %
5	Adoption of Broiler farming	Adoption – 50%
6	Adoption of Piggery farming	Adoption – 75 %
7	Adoption of cultivation of Oyster mushroom	Adoption – 62 %
8	Adoption of Fish farming	Adoption – 34 %
9	Adoption of Giriraja bird farming	Adoption – 60 %
10	Adoption of Scientific housing in dairy cattle	Adoption – 45 %
10	Adoption of vermicompost production technology	Adoption- 50 %

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

Sl. No.	Name of the specific technology/skill transferred	No. of participant	% of adoption	Changes in income (Rs.)	
				Before	After
1	HYV in Boro rice (Joymati & Kanaklata & swarnav)	84	45	Rs. 26500/ha	Rs. 42000/ha
2	Production technology of Oyster mushroom	72	50	-	Rs. 38000/Sesaon
3	Improved variety of Rapeseed (TS 36, TS-38 &	85	70	Rs. 12000/ha	Rs. 28000/ha

	TS 46)				
4	Improved method of Banana production	76	65	15000/ha	35000/ha
5	Vermi-compost production techniques	60	20	-	Rs. 40000/Year
6	Rearing of Pig	100	72	Rs. 1100/piglet	Rs.2000/piglet
7	Nursery management of Horticultural crops	50	40	34000/ha	52000/ha
8	Goatery management	65	50	Rs.800/kid	Rs. 1500/kids
9	Poultry management	45	30	80 eggs/bird	120eggs/bird
10	Dairy management	65	25	5lits milk/Crossbred cow	8lits milk/crossbred cow

5.0. LINKAGES ESTABLISHED

5.1 Functional linkage with different organizations

Name of organization	Nature of linkage
1. Department of Agriculture, Kokrajhar	Training, Diagnostics visit, Reviewing departmental projects, Beneficiary selection
2. Department of AH & Vety., Kokrajhar	Training organization, selection of cluster of farmers
3. Dept. of Fishery, Kokrajhar	Training, Diagnostics visit, Reviewing departmental projects, Beneficiary selection
4. Department of Soil Conservation, Kokrajhar	Integrated Water shed management Project, Training
5. NABARD, Kokrajhar	Training, Farmers group formation
6. SIRD, Assam	Backyard rearing of Chara Chembelli ducks for women empowerment, Exposure visit
7. National Research Centre on Pig, ICAR, Rani	Artificial Insemination of Pig in Kokrajhar District
8. IIT, Kanpur	Voice message service
9. Discovery Club, Kokrajhar	Livelihood promotion through integrated farming system (NAIP)
10. LWS, Gossaigaon	Resource person
11. Wild Life Trust of India	Community development initiative through alternative livelihood in the fringe areas of Manas Tiger Reserve
12. NERSWN, Kokrajhar	Guidance, resource person, preparation of work plan
13. Socio Economic Development, Haraputa	Guidance, resource person, preparation of work plan
14. UCORSETTI, Kokrajhar	Action plan formulation resource person
15. ATMA, Kokrajhar	Action plan formulation resource person
16. Department of Sericulture, Kokrajhar	Training organization, selection of cluster of farmers
17. Department of Agricultural Engineering, Kokrajhar	Reviewing departmental projects, Beneficiary selection
18. District Rural Development Agency (DRDA), Kokrajhar	Reviewing departmental projects, Beneficiary selection
19. District Industries of Commerce Centre (DICC), Kokrajhar	Reviewing departmental projects, Beneficiary selection

5.2 List special programmes undertaken by the KVK, which have been financed by State Govt./Other Agencies during 2015-16

Name of the scheme	Activity	Date/ Month of initiation	Funding agency	Amount (Rs.)
Tribal sub plan project	i) Scientific cultivation techniques of banana (Malbhog)	5-03-16 to 10-03-16/ March	ICAR	15,82000.00
	ii) Scientific cultivation techniques of Colocasia	10-03-16 to 15-03-16/March	ICAR	
	iii) Scientific cultivation techniques of Tapioca	Selection of beneficiary in progress	ICAR	
	iv) Scientific cultivation techniques of paddy (Boro rice)	20/12/2015 to 30/12/2015/December	ICAR	
	v) Scientific cultivation of black gram		ICAR	
	vi) Scientific cultivation of sesamum		ICAR	
	vii) Scientific cultivation of rapeseed	18-11-15	ICAR	
	vii) Scientific cultivation of maize	10/12/2015 to 20/12/2015/December	ICAR	77500.00
Cluster Demonstration	i)Scientific cultivation of linseed	03/12/15	ICAR	280000.00
	ii) Scientific cultivation of linseed	01-11-15	ICAR	
	ii) Scientific cultivation of lentil	25.11.15	ICAR	150000.00
	iii) Scientific cultivation of field pea	02.12.15	ICAR	

5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district Yes/No

Sl. No.	Programme	Nature of linkage	Remarks
1.	Strategy for research and extension programme	Preparation of SREP	Process is on with other stake holder
2	Farmers advisory	Advisory to farmers on agriculture, veterinary sections	-

5.4 Give details of programmes implemented under National Horticultural Mission

S. No.	Programme	Nature of linkage	Constraints if any
1.	Production technology of strawberry	Training, Monitoring, Advisory service, Field visit	Nil
2.	Plastic tunnel technology for seedling production	Do	Nil
3.	Kharif vegetable production of hybrid varieties	Do	Nil
4.	Battery operated sprayer technology	Training	Nil
5.	Vermi-Bed (HDPE) technology	Training, Monitoring, Advisory service, Field visit	Nil
6.	Production of Tissue culture gerbera sucker with shade net house	Do	Nil
7.	Use of women friendly tools and inputs	Training	Nil

5.5 Nature of linkage with National Fisheries Development Board

S. No.	Programme	Nature of linkage	Remarks
1	Training on fisheries development in Kokrajhar district	Creating awareness among targeted mass, selection of core areas for training and organized training in Kokrajhar district	Submission of proposal for training

6. PERFORMANCE OF INFRASTRUCTURE IN KVK DURING 2015-16

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	2010	145 sq m	Hampshire & T & D					
2.	Poultry	2010	45 sq m	Kamrupa					
3.	Goatery	2010	-	Bettle cross					
4.	Vermicomposting	2010	50 sq m	*Eichinia foetida*					
5.	Compost and vermicompost								

6.	Azolla								
7.	Rice fish vegetable	2010	224 r m						

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	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-
Maize	-	-	-	-	-	-	-	-	-
Any other	-	-	-	-	-	-	-	-	-
Pulses									
Green gram	-	-	-	-	-	-	-	-	-
Black gram	-	-	-	-	-	-	-	-	-
Arhar	-	-	-	-	-	-	-	-	-
Lentil	-	-	-	-	-	-	-	-	-
Ay other	-	-	-	-	-	-	-	-	-
Oilseeds									
Mustard	-	-	-	-	-	-	-	-	-
Soy bean	-	-	-	-	-	-	-	-	-
Groundnut	-	-	-	-	-	-	-	-	-
Any other	-	-	-	-	-	-	-	-	-
Fibers									
i.	-	-	-	-	-	-	-	-	-
Spices & Plantation crops									
i.	-	-	-	-	-	-	-	-	-
Floriculture									
i.	-	-	-	-	-	-	-	-	-
Fruits									
i.	-	-	-	-	-	-	-	-	-
Vegetables									
i.	-	-	-	-	-	-	-	-	-
a. Others									

(specify)									
i.	-	-	-	-	-	-	-	-	-

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	
-	-	-	-	-	-	-	-

6.5 Rainwater Harvesting

Training programmes conducted by using Rainwater Harvesting Demonstration Unit: No rain water harvesting 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 2015-16

Accommodation available (No. of beds) : **Nil**

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	**-**	**-**	**-**	**--**	**-**

7. FINANCIAL PERFORMANCE

7.1 Details of KVK Bank accounts

Bank account	Name of the bank	Location/ Branch	Account Number
With Host Institute			
With KVK	SBI	Gossaigaon	11378641024
Revolving Fund	SBI	Gossaigaon	11378660228

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 2015 -16

S. No.	Particulars	Sanctioned (in Lakh)	Released (in Lakh)	Expenditure (in Lakh)
A. Recurring Contingencies				
1	**Pay & Allowances**	52.10	79.06	79.06
2	**Traveling allowances**	1.90	1.09	.09
3	**Contingencies**			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	6.58	6.58	6.58
B	POL, repair of vehicles, tractor and equipments	0.68	0.68	0.68
C	Meals/refreshment for trainees			
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	2.27	2.27	2.27
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	1.52	1.52	1.52
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	0.57	0.57	0.57
G	Training of extension functionaries	1.33	1.33	1.33
H	Maintenance of buildings	0.55	0.55	0.55
I	Establishment of Soil, Plant & Water Testing Laboratory	1.07	1.07	1.07
J	Library	0.03	0.03	0.03
TOTAL (A)		**99.10**	**99.10**	**99.10**
B. Non-Recurring Contingencies				
1	**Works**			
2	**Equipments including SWTL & Furniture**	4.0	4.0	4.0
3	**Vehicle** (Four wheeler/Two wheeler, please specify)			
4	**Library** (Purchase of assets like books & journals)			
TOTAL (B)		**4.0**		**4.0**
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)		**103.10**		**103.10**

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 2013 to March 2014	135338.00	302056.00	155899.00	281495.00
April 2014 to March 2015	281495.00	197819.00	231123.00	248191.00
April 2015 to March 2016	248191.00	139939.00	273789.00	114341.00

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
1. Vacant posts may be filled up and transfer of technical staff may be avoided during 2nd half of the financial year.
2. Post of at least one SMS (Animal Science) may be made mandatory.
3. More posts of SMS and supporting staff may be provided to conduct all programme at high standard.
b) Financial
1. Fund for all special programme including cluster demonstration on oilseed and pulse should be provided at least three months ahead of implementing time.
2. Separate fund for campus maintenance may be provided.
3. Trainee should be provided with TA/DA in case of on campus training.
4. Sanction power of PC/ Head may be increased.
(c) Technical
1. Large scale demonstration may be provided based on availability of recommend HYV seeds.
2. Very good quality camera may be provided on priority as none is available.
3. Two to three good quality GPS may be provided on priority as none is available.
4. Solar power may be provided to administrative building and farm area on priority for night vigilance.
5. Hostel facility may be created for trainees.
6. Library facility in KVK of far-flung areas from may be upgraded to state of art standard.
7. Irrigation facility to complete farm area may be done on priority.

8. Boundary wall/ fencing should be provided.
9. Farm road may be constructed with cemented block or black topped
10. One vehicle with sitting capacity of 3-4 passengers (KVK staff) and seed/ fertilizer may be provided for field activity.
11. Garden tractor, and power sprayers may be provided

(Signature)
Programme Coordinator