PROFORMA FOR ANNUAL REPORT OF KVKS, 2014-15

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

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

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, 2015)**

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. M.K. Bhuyan	Programme Coordinator	Soil Science	37400/-67000/-G.P. 9000/-	55440/-	11-08-2011	Permanent	Gen
2	Subject Matter Specialist	Mrs S. Brahma	Subject Matter Specialist	Horticulture	15600/--39,100/-G.P. 6000/-	25810/-	07-11-08	Permanent	ST
3	Subject Matter Specialist	Mr. C. R. Deka	Subject Matter Specialist	Agriculture Extension	15600/--39,100/-G.P. 6000/-	25810/-	07-11-08	Permanent	Gen
4	Subject Matter Specialist	Mr. M. U. Basumatary	Subject Matter Specialist	Agronomy	15600/--39,100/-G.P. 6000/-	25810/-	29-07-09	Permanent	ST
5	Subject Matter Specialist	Miss. S. Bhuyan	Subject Matter Specialist	Home Science	15600/--	21000/-	01.02.2014	Permanent	Gen

					39,100/- G.P. 5400/-				
6	Subject Matter Specialist	Mr. G. Bhagawati	Subject Matter Specialist	Plant Protection	15600/- - 39,100/- G.P. 5400/-	21000/-	03.02.2014	Permanent	Gen
7	Subject Matter Specialist	-	-	-	-	-	-	-	-
8	Programme Assistant	Dr. R. B. Kayastha	Programme Assistant	Animal Science	8000/- - 35000/- G.P. 4900/-	14110/-	04-09-11	Permanent	Gen
9	Computer Programmer	Mr. M. K. Haloi	Programme Assistant	Computer Application	8000/- - 35000/- G.P. 4900/-	14110/-	13-09-11	Permanent	SC
10	Farm Manager	Mr. P.K. Das	Farm Manager	Entomology	8000/- - 35000/- G.P. 4900/-	13690/-	12-03-12	Permanent	OBC
11	Accountant / Superintendent	Mr. A.R. Choudhury	Accountant / Superintendent	Accountancy	8000/- - 35000/- G.P. 4900/-	12900/-	10-11-14	Permanent	Gen
12	Stenographer	-	-	-	-	-	-	-	-
13	Driver	Mr. S. Das	Driver	-	5200/- - 20200/- G.P 2200/-	8180/-	22-02-.12	Permanent	Gen
14	Driver	Mr. S. Ali Sk.	Driver	-	5200/- - 20200/- G.P 2200/-	8180/-	22-02 12	Permanent	Gen
15	Supporting staff	Mr. R.N. Narzary	Watchman	-	5200/- - 20200/- G.P 2200/-	13210/-	01-11-85	Permanent	ST
16	Supporting staff	Mr. D. Basumatary	Kitchen Attendant	-	5200/- - 20200/- G.P 2200/-	13210/-	15-11 - 85	Permanent	ST
	Total	**14**							

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	-	332	86.73 lakh	Feb, 2012		Completed
2.	Farmers Hostel	ICAR	1987-88	910.10	14.00 lakh	-	-	Damaged, need major repairing
3.	Staff Quarters	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			Completed
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
5	Fencing	ICAR	1995	0.80km	4.92 lakh	-	-	Need Renovation

B) Vehicles

Type of vehicle	**Regd. No.**	**Year of purchase**	**Cost (Rs.)**	**Total kms. Run**	**Present status**
Jeep	AS-03E-0023	2006	490503.00/-	107658	Running
Tractor	AS-16C-0706	2003	Transferred from RARS, Diphu	1242	Running Condition

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	Working
Digital Camera	2006	15080.00	Working
Digital Camera (Sony)	2010	19000.00	Working
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	Working
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	Working
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

1.8. A). Details SAC meeting* conducted in the year 2014-15

Sl. No.	**Date**	**Name and Designation of Participants**	**Salient Recommendations**	**Action taken on last SAC recommendation**
1.	-	-	-	-

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

2. DETAILS OF DISTRICT

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

Sl. No	Farming system/enterprises
1	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	Autumn Rice	21910	48960	22.35
2	Winter Rice	66580	156374	23.49
3	Summer Rice	20960	81745	39
4	Wheat	1513	4093	27.05
5	Maize	935	613	6.56
6	Millets	325	192	5.91
7	Gram	76	42	5.53
8	Green Gram	495	317	6.4
9	Lentil	1183	675	5.71
10	Peas	705	419	5.94
11	Total Rabi pulse	5398	2848	5.28
12	Jute	3884	33294 (Bales of 180 kg	15.43
13	Mesta	1298	9707	74.78
14	Cotton	20	9	4.5
15	Tapioca	785	8046	102.5
16	Sweet Potato	475	1889	39.77
17	Sugarcane	196	3497	178.42
18	Chillies	487	400	8.21
19	Turmeric	645	580	8.99
20	Onion	360	1060	29.44
21	Ginger	360	2724	75.67
22	Rapeseed & mustard	25135	16243	6.46
23	Niger	1045	549	5.25
24	Linseed	470	269	5.72
25	Sesamum	380	267	7.03
26	Banana	1215	21848	179.82
27	Pineapple	550	8536	155.2
28	Papaya	375	10049	267.97
29	Arecanut	1650	2788	16.9
30	Coconut	400	3118	77.95
31	Orange	498	4774	95.86
32	Castor	90	52	5.78
33	Tobacco	20	9	4.5
34	Lathyrus (Matikalai)	2165	1051	4.85
35	Tur	439	381	8.68

2.5. Weather data

Month	Rainfall (mm)	Temperature ^{0} C		Relative Humidity (%)	
		Maximum	Minimum	Morning	Evening
April, 14	50.8	31.8	22.6	90.4	507
May, 14	725.3	31.0	22.02	92.5	64.1
June, 14	1073.6	32.4	25.75	92.3	69.13
July, 14	398.1	34.1	26.6	91.5	68.8
August, 14	902.2	31.4	25.3	92.0	72.7
September, 14	482.2	32.2	24.7	91.4	68.6
October, 14	33.9	32.0	24.5	91.0	68.0
November, 14	6.2	29.7	19.5	91.2	62.9
December, 14	0.6	23.7	14.0	94.1	63.7
January, 15	20.6	22.4	11.1	94.9	63.2

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	-	-	-

Category	Area	Production	Productivity
Fish			
Marine			
Inland	3197.87 ha	30315.80 Qt	948.00 kg / ha
Prawn			
Scampi			
Shrimp			

Note: Pl. provide the appropriate Unit against each enterprise

2.6 Details of Operational area / Villages (2014-15)

Sl.No.	Taluk	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas

1	Gossaigaon	Gossaigaon	Matiajuri, Rangapara, Padmabil, Joyma, Kusumbil, Bhumka, Chakma, Bashbari, Babubil, Thuribari, Bhawraguri, Natunpara, Guwabari, Sagunhara, Choto Binnyakhata, Gambaribil, Kamalsing	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	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 managemen t 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	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 2014-15

Discipline	OFT (Technology Assessment and Refinement)				FLD (Oilseeds, Pulses, Maize, Other Crops/Enterprises)			
	Number of OFTs		Number of Farmers		Number of FLDs		Number of Farmers	
	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
Agronomy	3	2	11	6	3	3	23	21
Horticulture	2	-	6	-	3	-	14	-
Soil Science	2	2	8	8	2	1	10	6
Plant	2	1	7	3	3	1	15	5

Protection								
Animal Science	3	2	7	6	3	3	16	13
Home Science	2	2	9	8	3	2	17	10
Agril. Extn.	-		-		1	-	30	-
Total	**14**	**9**	**48**	**31**	**18**	**10**	**125**	**55**

Note: Target must be as set during last Action Plan Workshop

Training (including sponsored, vocational and other trainings carried under Rainwater Harvesting Unit)					**Extension Activities**			
3					**4**			
Number of Courses			**Number of Participants**		**Number of activities**		**Number of participants**	
Clientele	**Targets**	**Achievement**	**Targets**	**Achievement**	**Targets**	**Achievement**	**Targets**	**Achievement**
Farmers	-	-	-	-	713	536	3430	1712
Rural youth	-	-	-	-				
Extn. Functionaries	-	-	-	-				
	-	-	-	-				
Total	-	-	-	-				

Seed Production (ton.)		**Planting material (Nos. in lakh)**	
5		**6**	
Target	**Achievement**	**Target**	**Achievement**
Sali Rice (Ranjit)- 4.0 T	Ranjit-1.9 T, Mahsuri-1.08 T, Gitesh-1.56 T	Lemon- 0.005	200 no.s
Maize (Hybrid) – 4.8 T	0.25 T	Pineapple- 0.005	650 n.o.s
Buckwheat (PU-19, VL-7) -1.2T	0.40 T	Banana sucker- 0.003	200 no.s
Sesame (Local)- 0.20 T	0.22 T	Litchi – 0.0005	40 no.s
Niger (NG1)- 0.50 T	0.35 T	Gerbera – 0.004	500 no.s
Green gram – 0.60 T	-	Gladiolus- 0.006	400 no.s
		Mussenda – 0.003	100 no.s
		Napier – 0.02	-
		Turmeris- 1.0 q	5.0 q

Note: Target must be as set during last Action Plan Workshop

3. B. Abstract of interventions undertaken during 2014-15

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	Integrated Weed Management	Blackgram	Low yield of kharif black gram due to severe weed infestation	Weed management in Kharif blackgram				Field visit & monitoring	Supply of seed, fertilizer, plant protection chemical etc.

2	Tillage management	Linseed	Monocropping of rice .Rice field remain fallow after harvesting of Sali rice	Utera cropping of linseed in rice				Field visit & monitoring	Supply of seed, fertilizer, plant protection chemical etc.
3	Varietal evaluation	Rice	Late sowing of second crop (rapeseed, lentil) after harvest of Sali rice due to long duration variety of Sali rice		Varietal evaluation of mid duration variety TTB 404 for Sali season			Field visit & monitoring	Supply of seed, fertilizer, plant protection chemical etc.
4		Maize	Low productivity of Maize due to use of local variety		Use of hybrid variety of Maize			Field visit & monitoring	Supply of seed, fertilizer, plant protection chemical etc.
5		Rapeseed	Low productivity of Rapeseed due to use of traditional variety		Use of High yielding var. Rapeseed (TS-46)			Field visit & monitoring	Supply of seed, fertilizer, plant protection chemical etc.
6	Soil Health	Toria	Low nutrient use efficiency and high cost involved with chemical fertilizer	Biofertilizer seed treatment in toria var TS-38		Integrated nutrient management of oilseeds and pulses	Soil health management and soil health card	Field visit & monitoring	Supply of seed, fertilizer, plant protection chemical etc.
7	Soil amendment	Blackgram	Low productivity of pulses in acid soil	Acid soil management in Kharif black gram		Management of soil acidity for higher crop production		Field visit & monitoring	Supply of seed, fertilizer, plant protection chemical etc.
8	Soil management	Rice	Zinc deficiency & low yield	Nutrient management in Rice – Rice sequence	Effect of Zinc in Sali rice			Field visit & monitoring	Supply of seed, fertilizer, plant protection chemical etc.

9	Biological control	Paddy	Use of chemical pesticide as the only mode of pest suppression has resulted in use of diverse/broad spectrum pesticides which resulted in decline of predators/parasitoids and other biological pests suppressor.	Biological suppression of rice pests.	T- perch as resting sites for predatory insectivorous birds in rice fields as a component of IPM.	1.Ecofriendly methods of pests and disease management. 2.Role of predatory and depredatory birds in agricultural production 3. Biological control of insect pests.	-	1.Field visits, 2.Group discussions, 3.Diagonistic visits, 4.Monitoring, 5.TV programme,	1.Boro rice seeds, 2. T-perch, 3. Preromone traps, 4. Pseudomonas florescence formulations 5. Beauveria bassiana formulations
10	Breed introduction/ Breed improvement	Pig/ Goat	Low productivity of the indigenous pig/goat	Introduction of cross bred goats (Beetal cross) in agroclimatic condition of Kokrajhar	Scientific Management of Cross Bred Piglet (Hampshire /T & D)			Field visit & monitoring	T&D piglets/ Crossbred kids
11	Feeding management	Dairy	Low production performance of the dairy cattle.		Supplementation of Calcium and Mineral mixture for maximum milk production			Field visit & monitoring	Commercially available calcium & mineral mixture (VM All & Lactaid Oral)
12	Health care	Pig/ Goat	High mortality and malnutrition of Pig reared under backyard condition	Incorporation of nutritional supplements in feeding together with regular deworming in crossbred goat.	Preventive health care management of Pig reared under backyard condition			Field visit & monitoring	Commercially available feed supplement, vaccines, dewormers

13	Blended fabric	Weaving	Deficit property of yarn	Union fabric	-	-	-	Field visit & monitoring	Supply of yarns
14	Value addition of woven fabric	Weaving	Low market value of woven fabrics	Product diversification and value addition of Woven fabric for better marketability	-	-	-	Field visit & monitoring	Supply of yarns & accessories
15	Storage Techniques	Storage	Perishable food	-	Zero energy cool chamber	-	-	Field visit & monitoring	Supply of raw materials
16	Organic dye introduction/ utilization	Dyeing	Non use of locally available natural dye & high cost of synthetic dye		Application of natural dye on yarn	Value addition of fabrics through dyeing	-	Field visit & monitoring	Supply of yarns, mordanting chemical & natural dye
17	INM	Mandarin	Low yield of mandarin due to improper fertilization and lack of knowledge & awareness on integrated nutrient management of the crop.	-	Integrated nutrient management in mandarin	-	-	Field visit, monitoring and advisory service as and when necessary	Supply of fertilizers, Neem cake, VAM, Azotobacter, Azospirillum
18	Protected cultivation	High value vegetable Crops (Tomato-Palak-Coriander-Cucumber)	Market glut of high value vegetables during on-season fetches lower prices to the farmers. Off-season cultivation of high value vegetables can help the farmers for realizing higher return in Kokrajhar district.	-	Off-season cultivation of high value vegetable crops inside low cost polyhouse	Training on protected cultivation technology of off season vegetables		Field visit, monitoring and advisory service as and when necessary	Supply of seeds of tomato, palak, coriander ,cucumber including fertilizers and plant protection chemicals

19	Crop management	Banana	Micronutrient deficiency and low nutrient use efficiency of soil applied fertilizer affect quality of banana.	Foliar application of micro-nutrient formulation (Banana Special) in banana		-	-	Field visit and monitoring of foliar spraying and advisory service as and when necessary	Banana special

3.1 Achievements on technologies assessed and refined during 2014-15

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	-	-	1	-	-	-	-	-	-	1
Integrated Crop Management	2	1	1	-	-	1	-	-	-	4
Integrated Nutrient Management	-	-	-	-	-	1	-	-	-	1
Integrated Farming System	-	-	-	-	-	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-	-	-	-	-	-
Drudgery reduction	-	-	-	-	-	-	-	-	-	-
Farm machineries	-	-	-	-	-	-	--	-	-	-
Value addition	-	-	-	-	-	-	-	-	-	-
Integrated Pest Management	1	-	-	-	-	-	-	-	-	1

Integrated Disease Management	-	-	-	-	-	-	--	-	-	-
Resource conservation technology	-	-	-	-	-	-	-	-	-	-
Small Scale income generating enterprises	-	-	-	-	-	-	-	-	-	-
Protected Cultivation	-	-	-	-	1	-	-	-	-	1
TOTAL	4	1	2	-	1	2	-	-	-	10

* *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	-	1	-	1	1	-	-	3
Nutrition Management	-	-	-	-	-	-	-	-
Disease of Management	-	-	-	-	-	-	-	-
Value Addition	-	-	-	-	-	-	-	-
Production and Management	1	-	-	1	1	-	-	3
Feed and Fodder	-	-	-	-	-	-	-	-
Small Scale income generating enterprises	-	-	-	-	-	-	-	-
TOTAL	1	1	-	2	2	-	-	6

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	Weed management in Boro rice (2013-14)	Low productivity in Boro rice due to weed infestation	Application of pre emergence herbicide after 3 days of transplanting in Boro rice	Boro rice	3	The avg. grain yield was recorded as 75 q/ha which is 22% more over the control (58q /ha)	The farmers were satisfied with the higher grain yield of Boro rice	Lack of assured irrigation facility	2.3:1
2	Weed management in Kharif blackgram	Low yield due to weed infestation in Kahrif blackgram	Application of pre emergence herbicide of pendimethalin @1kg/ha	Blackgram	3	The average grain yield was recorded as 10.1 q/ha which is 31% higher than local variety (6.9 q/ha)	Farmers felt that application of pendimethalin@1kg/ha is the important technique for getting higher production in *kharif* black gram	Seeds are not available in the local market	1.77:1
3	Rice based relay cropping of linseed	Low productivity due to late sowing of linseed	i)Application of 6 kg DAP to the relay crop (linseed) ii. Cutting of rice stubbles	Linseed	3	The average grain yield of linseed was recorded as 6.5 q/ha which is	Farmers were very much impressed upon the effect of	Lack of available HYV of linseed in the local market	2.25:1

			at height of 20 cm iii. Sowing of linseed when the rice crop attains 50% flowering			30% higher than traditional practices (4.5q/ha)	DAP more particularly on *utera* for higher productivity.		
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 resulted in decline of predators/parasitoids and other biological pest suppressor.	NBAII, Bangalore: 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,	Boro Paddy	3	Continuing	1. Treated seed – germination good, 2. No disease observed during panicle initiation stage, 3. Incidence of YSB attack very minimal,	-	Continuing
5	Foliar application of micro-nutrient formulation (Banana Special) in banana (2013-14)	Micronutrient deficiency and low nutrient use efficiency of soil applied fertilizer affect quality of banana.	Use of foliar application of 75g of Banana Special-micronutrient formulation (Zn-3%, B-1.5%, Mn-1.0%, Fe-1.5%) +juice of 2 lemon	1	3	Banana Yield/ha=43.5 t (treated) & 39.7 t (control) Increase in yield due to spray of banana special =3.8t/ha	Farmers were highly satisfied with the performance of Banana Special micronutrient formulation which has significant	-	1:3.97

			fruits in 15lit of water from 5th month onward once in 30 days till 10th month stage				affect on increasing the bunch weight and yield of banana		
6	Introduction of backyard poultry-Giriraja and its impact on the household economy of rural farmers (2013-14)	Low productivity of indigenous poultry	Giriraja chicks as quality inputs	Backyard Poultry	1	Data recorded upto one year Av. Wt. at 15 days= 130gm 1 month= 361 gm 2 months= 1.24 kg 3 months= 2.2 kg 4 months= 2.7 kg 5 months= 3.2 kg 6 months= 3.8 kg 9 month= 4.3 kg 12 month= 4.8 kg Age at 1st lay155 days. Avg. Egg production upto 1 year = 84 nos	Farmers showed shift of preference from rearing of indigenous birds for the fast growth rate of Giriraja birds	Input is not readily available as per the demand	-
7	Introduction of Artificial Inseminatio n in cross bred female Pig with Hampshire boar semen under	Slow growth rate of indigenous pig	Artificial Insemination by Hampshire boar semen	Pig	1	Successful AI has been done on 03/03/2014 with farrowing of 7 nos of crossbred piglets.	Farmer are interested to adopt the technology	Use of the technology is economical to the farmers	-

	backyard farming system. (2013-14)								
8	Incorporation of commercial broiler feed for growth performance of local bird for meat purpose (2013-14)	Low productivity of indigenous poultry	Local desi birds for intensive rearing, feeding of broiler feed to the desi birds, rearing of broiler chicks	Poultry	1	Av. wt. of broiler and local birds (kg) 1 st week Broiler- 0.102 Desi-0.0 54 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	-
9	Studies on the impact of scientific housing on milk production and general	Practice of unscientific housing leading to low production	Provision for Scientific housing	Dairy	1	Milk production increase by 1.5 ltrs/day with milk production of 12 ltrs/day. No significance diseases have	Farmers are satisfied by observing the increase production trait under scientific	Farmers are not getting maximum outcome from their dairy units because of	-

	health management of cross bred Dairy animals. (2013-14)					been recorded. Previous history of mastitis has been restricted	housing.	their improper housing	
11	Introduction of cross bred goats (Beetal cross) in agroclimatic condition of Kokrajhar	Slow growth rate of local goats	Crossbred goat (Beetal cross) as quality inputs	Goat	3	Av. B. wt. at 1st week Crossbred- 2.09kg Desi- 1.42kg 1st Month Crossbred- 3.05kg Desi- 2.55kg 2nd Month Crossbred- 4.35kg Desi- 3.05kg 3rd Month Crossbred- 6.05kg Desi- 4.65kg 4th month Crossbred- 7.5kg Desi- 5.3kg 5th month Crossbred- 9.5kg Desi- 7.6kg 6th month Crossbred- 13.75kg Desi- 9.90kg Necessary feed supplements and periodic deworming has given.	Farmers are happy with the growth rate of crossbred beetal goats	-	Ongoing

						. No specific diseases have been recorded			
12	Incorporation of nutritional supplements in feeding together with regular deworming in crossbred goat.	Decrease bodyweight gain and infertility problem due to multi-nutritional deficiency and parasitic load	Provision for periodic deworming, nutritional supplements and fertility enhancement	Goat	3	Av. B. wt. at 1st Month Crossbred-3.55kg Desi- 2.35kg 2nd Month Crossbred-4.25kg Desi- 3.5kg 3rd Month Crossbred-6.55kg Desi- 4.85kg 4th month Crossbred-7.2kg Desi- 5.5kg 5th month Crossbred-9.4kg Desi- 7.4kg 6th month Crossbred-14.2kg Desi- 10.0kg Necessary feed supplements and periodic deworming has given. Age at Puberty of Crossbred goat: 5th month Desi: 7th month	Farmers are happy with the growth rate of crossbred beetal goats with timely onset of puberty. No incident of major diseases recorded		Completed

13	Union fabric	Deficient physical properties of yarns	Union Fabric constructed of Cotton Eri and Eri polyester	Weaving	4	1) Eri cotton union are better absorbancy than simple eri fabrics. 2)Strength of eri cotton is more than general cotton. Tensile strength of eri cotton is 42.57 kg (Warp) and 41.60 kg (Weft) 3) Crease recovery of eri cotton is more than cotton hence it can be worn without pressing. Crease recovery of eri cotton 93.250 (Warp) and 102.500 (Weft) 4)The appearance of eri cotton is more eyepleasing and are smooth with a little lustrous look. The count of eri cotton is 49 thread/inch (Warp) and 50 thread/ inch (Weft) Eri polyster is	The grey beige colour of eri reduced and the appearance of eri becomes more eyecatching. the strength and crease recovery of cotton yarns increased.	Diversified products from eri cotton union can be produced.	-

						lustrous compared to eri/eri and Eri/ cotton.			
14	Product diversification and value addition of woven fabrics	Not inclusion of right element and principle of design.	Product diversification	Weaving	4	Continuing (weaving is going on)	-	-	-
15	Acid soil management of Kharif Blackgram	Low productivity due to soil acidity	Soil Application of 33% lime (LR basede) and RD of fertilizer including foliar application of 2% urea at pod initiation stage	Blackgram	3	Lime application increased grain yield 7.67% over non limed plot and 26.98% over farmers practice.	Farmers expressed eagerness to use lime as soil amendment	Used technooogy is economically not beneficial	3.04:1
16	Biofertilizer seed _referred in Toria var. TS-38	Low use efficiency of chemical fertilizer	75% RD of N and P fertilizer along with seed treatment of biofertilizers (Azotobacter & PSB @ 40 g/kg seed) and RD of K fertilizer	Toria	5	Biofertilizer treatment with 75% N, P fertilizer and full dose of K fertilizer increased grain yield by 32.11% over farmers practice.	Farmer may use biuofertilizer if available from reliable source.	Use of organic manure alongwith _referred__ ers needs to specified.	2.36:1

17	Nutrient management in Rice (Sali rice)-Rice (Boro rice) sequence (2013-14)	Improper nitrogen management	NPK 40:20:20 kg/ha + ZnSO4 25 kg/ha+FYM 5 t/ha in sequence	Rice-Rice	3	Yield performance of Sali rice was 22.56 % & boro rice 27.63 % ove farmers practice	Farmers are satisfied with result obtained on NPK & Zinc application	Short duration rice varieties needs to be tested	Sali rice: 2.14:1 Boro rice =2.92:1

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

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

3.2 Achievements of Frontline Demonstrations during 2014-15

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		
1.	Maize	Use of Hybrid maize Dekalb Hicsell	2	3	1.0

**** Thematic areas as given in Table 3.1 (A1 and A2)***

g) Details of FLDs conducted during reporting period (Information is to be furnished in the following **three tables** for **each category** i.e. **cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops**.)

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement	Farming situation (Rainfed/ Irrigated, Soil type, altitude, etc)	Status of soil (Kg/ha)		
												N	P	K
					Proposed	Actual	SC/ST	Others	Total					
1	Sali rice	Soil amendment	T1: 25 kg ZnSO4 heptahydrate & FYM/compost 2t/ha & RD of NPK T2: RD of NPK	Kharif, 2014	1.0	1.0	6	-	6	-	Rainfed low to medium land	350.6-624.52	17.8-51.7	97.44-221.4
2	Sali rice	Varietal evaluation	Use of Medium duration variety of Sali rice var.(TTB-404)	Khraif,14	2.0	1.0	4	-	4		Rainfed	M	L	L
3	Toria	Varietal evaluation	Use of HYV of toria var. TS-46	Rabi, 14	2.0	1.0	4	2	6		Rainfed	M	L	L
4	Maize	Varietal evaluation	Use of Hybrid variety of Maize	Summer, 15	1.0	1.0	5	1	6		Rainfed	M	L	L

5	Paddy	Biological control	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,	*Kharif* 2014	3.4	2.0	4	1	5	-	Rainfed Sandy loam	M	L	L
6	Maize (2013-14)	Varietal evaluation	Use of Hybrid variety of Maize	Summer, 14	1.0	1.0	3	-	3		Rainfed	M	L	L
7	Boro rice (2013-14)	Varietal evaluation	Use of HYV variety Boro rice (var. Kanaklata	Summer, 13-14	1.0	1.0	3	-	3		rainfed	M	L	L
8	Mandarin (13-14)	INM	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.	Rabi/2013	0.23	0.23	3	-	3	Nil	Rainfed	M	L	L
9.	Mandarin (14-15)	INM	INM in Mandarin through use of 75 % RD of fertilizer + 5.625 kg Neem cake +	Kharif/2015	30 plants	30 plants	3	-	3	Nil	Rainfed	M	L	L

			500 g VAM +100 g PSB + 100 g Azospirillum + 100 g Trichoderma harzianum/plant /year in two split in March/April & Sept/Oct.											
9	High value Vegetable Crops (2013-14)	Protected Cultivation	Off-season cultivation of tomato-palak-coriander-cucumber/capsicum inside low cost polyhouse / High value vegetable crop	Rabi/2013	0.04	0.04	4	-	4	Nil	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	Sali rice	Soil amendment	1.0	47.90	34.70	38.04	54.4	42.0	No major incidence of insect-pests and disease.	Incidence of stem borer, leaf folder, and blast disease	28910	71850	42940	2.49	24400	52050	27650	2.13
2	Sali	Varietal	1.0	56.25	42.0	25.3	63.0	49.5	Inciden	No	24990	70312	45322	1.8	23500	52500	32000	1.36

	rice (TTB-404)	evaluation							ce of minor pest and diseases was observed	incidence of pest & diseases								
3	Toria (TS-46)	Varietal evaluation	1.0	11.25	7.5	33.3	13.5	9.0	Incidence of minor pest is observed	No incidence of pest & diseases	14710	36000	21290	1.45	11500	24000	12500	1.08
4	Maize (M-Gold)	Varietal evaluation	1.0	71.5	45	37.06	75.0	68.0	No incidence of pest & diseses	No incidence of pest & diseases	18900	71500	52600	2.78	15500	4500	29500	1.9
5	Paddy	Biological control	2.0	55	45	13	57	45	Leaf folder less population, bugs	Comparatively more	24500	66000	44250	1.8:1	21000	56250	34250	1:1.6
6	Maize (2013-14) (Dekalb Hichell)	Varietal evaluation	1.0	67.6	42.0	37.8	70.90	64.30	Incidence of minor pest is observed	No incidence of pest & diseases	20,500	67,600	47,100	2.3	15,375	42,000	26,625	1.7
7	Boro rice (2013-14)	Varietal evaluation	1.0	64.5	52	19.37	70.0	59.0	Incidence of minor pest is observed	No incidence of pest & diseases	26500	80625	54125	2.04	24500	65000	40500	1.65
8	Mandarin (2013-14)	INM	0.23	140.0	60q/ha	57.14	170.0	110.0	-	-	1,40,000.00	6,00,000.00	4,60,000.00	4.28	85,000.00	3,00,000.00	2,15,000.00	4.28
9.	Mandar	INM	30	250.0	100.00	60.00	280.0	220.0	-	-	1,40,00	8,50,00	7,10,00	6.07	85,000.	4,00,00	3,15,00	4.70

	in (2014-15)		plants								0.00	0.00	0.00		00	0.00	0.00	
10	High Value Vegetable Crops (100sq. m) (2013-14)	Protected Cultivation (CS-Tomato Palak Coriander Cucumber)	0.04	5.85 1.00 1.80 2.50	1.50 0.50 1.00 1.50	74.35 50.0 44.44 40.0	7.64 1.15 2.40 3.70	4.06 0.85 1.20 1.30	Bacterial Wilt incidence in tomato = 5%	Bacterial Wilt incidence in tomato = 10%	25,000.00/100 sq.m	44,500.00/100 sq.m.	18,500.00/100 sq.m.	1.78	10,000.00	15,300.00	5300.00	1.78

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

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

d. Extension and Training activities under FLD on Crops

Sl.No.	Activity	No. of activities organised	Date	Number of participants			Remarks
				Gen	SC/ST	Total	
1	Field days	4	11.12.14, 2.12.14 28.02.15, 03.12.14	73	79	152	
2	Farmers Training						
3	Media coverage						
4	Training for extension functionaries						
5	Any other (Pl. specify)						
	Total						

e. Details of FLD on Enterprises

(i) Farm Implements

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		

γ) ***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	Piggery (2013-14)	Health management	Vaccination, deworming, feed_referred_available commercially	2	2	2	Growth rate upto 8-9 months, Occurrence of diseases	Traits under Farmers practice	25 percent increase in body weight at 9 month of age	-	-	-	-	-	-	-	-	-	-	Av. Wt. at 3 months: 11 kg 6 months: 56 kg 9 months: 80 kg
2	Piggery (2013-14)	Breed introduction	Hampshire/T&D as quality	3	3	3	Growth rate upto 8-9 mont	Traits under Farmers	30 percent increase in	-	-	-	-	-	-	-	-	-	-	Av. Wt. at 3 moths: 7 kg 6

			inputs				hs, Occurrence of diseases	practice	growth rate recorded than local pig.											months: 32 kg 8 months: 57 kg
3	Dairy (2013-14)	Feeding management	Supplimentation of commercially available Calcium and mineral mixture	3	3	3	Lactation milk yield	Traits under Farmers practice	Daily milk production increases 2 lit in Jersey X and 0.750 lit in local X animals	-	-	-	-	-	-	-	-	-	-	Daily milk production increases 2 lit in Jersey X and 0.750 lit in local X animals
4	Piggery (2014-15)	Health management	Vaccination, deworming, feed_referred_available commerci	5	5	10	Growth rate upto 8-9 months, Occurrence of diseases	Traits under Farmers practice	17percent increase in growth rate recorded than local pig	-	-	-	-	-	-	-	-	-	-	Av. Wt. at 3 months: 12 kg 5 months: 36.4 kg 9 months: 72

			ally																	kg No significance diseases have been recorded.
5	Piggery (2014-15)	Breed introduction	Hampshire/T&D as quality inputs	5	5	5	Growth rate upto 8-9 months, Occurrence of diseases	Traits under Farmers practice	20 percent increase in growth rate recorded than local pig	-	-	-	-	-	-	-	-	-	-	Av. Wt. at 3 moths: 7.6 kg 5 months: 28 kg. 8 months: 65kg. Deworming at 2nd and 6th month of age is done.
6	Dairy (2014-15)	Feeding management	Supplimentation of commercially available	3	3	3	Lactation length and milk yield	Traits under Farmers practice	Daily milk production increases 1.7 lit in	-	-	-	-	-	-	-	-	-	-	Daily milk production increases 1.7 lit in Jersey

			Calcium and mineral mixture						Jersey X/HFX upto 6 month of lactation than the previous record											X/HFX upto 6 month of lactation than the previous record

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

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

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

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

(iii) Fisheries

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

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

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

(iv) Other enterprises

Sl. No.	Category/ Enterprise, 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.	Dyeing	Organic dye introduction/ utilization	Natural dyeing	5	5	Colourfastness to sunlight, washing and pressing.	Colourfastness to sunlight, washing and pressing.	Colourfastness to washing, sunlight and pressing after dyeing with annatto	-	-	-	-	-	-	-	-	-	-	Yarns dyed with annatto dye obtain bright orange colour is,datura dye produce a green colour and

								and datura a dye has higher colourfastness while turmeric dyed fabrics are not very colourfast										turmeric dyed fabrics obtained a yellow subtle shade. annatto dyed is mostly _referred by farmer.
2.	Storage	Storage techniques	Zero energy cool chamber	5	5	Increase of self life Vegetables, fruits, milk	-	-	-	-	-	-	-	-	-	-	-	-	Data collection

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

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

γ) **Farm Implements and Machinery**

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

f. Performance of FLD on Crop Hybrids

Sl. No.	Crop	Name of hybrids	Area (ha.)	No. of farmers	Avg. yield (Q/ha.)		% increase in Avg. yield	Additional data on demo. Yield (Q/ha.)		Econ. Of demo. (Rs./Ha.)				Econ. Of check (Rs./Ha.)			
					Demo.	Check		H*	L*	GC**	GR**	NR**	BCR**	GC	GR	NR	BCR
1.	Maize(2013-14)	Dekalb Hichell	1.0	Shri Bimal Basumatary Shri Rajat Brahma Shri Maharsingh Brahma	67.60	42.00	61 % increase over the local variety	70.90	64.30	20,500.00	67,600.00	47,100.00	2.3	15,375.00	42,000.00	26,625.00	1.7

H-Highest recorded yield, L- Lowest recorded yield

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

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

3.3. Achievements on Training

3.3.1. Farmers and Farm Women in On Campus including Sponsored On Campus Training Programmes (*Sp. On means On Campus training programmes sponsored by external agencies)

Thematic area	No. of Courses/ prog			Participants																			
				General						SC/ST						Total							
				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	1	-	1	14	-	-	-	14	-	13	-	-	-	13	-	27	-	-	-	27	-	27	
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 standardizati on																					
Protective cultivation (Green Houses, Shade Net etc.)																					
Production and management of cucurbits																					
b) Fruits																					
Training and Pruning																					
Layout and Management																					

of Orchards																					
Cultivation of Fruit																					
Management of young plants/orchards																					
Rejuvenation of old orchards																					
Export potential fruits																					
Micro irrigation systems of orchards																					
Plant propagation techniques																					
c) Ornamental Plants																					
Nursery Management																					
Management of potted plants																					
Export potential of ornamental plants																					
Propagation techniques of Ornamental Plants																					
d) Plantation crops																					
Production and																					

Management technology																					
Processing and value addition																					
e) Tuber crops																					
Production and Management technology																					
Processing and value addition																					
f) Spices																					
Production and Management technology																					
Processing and value addition																					
g) Medicinal and Aromatic Plants																					
Nursery management																					
Production and management technology																					
Post harvest technology and value addition																					
III Soil Health and Fertility Management																					
Soil fertility management																					
Soil and Water																					

Conservation																						
Integrated Nutrient Management																						
Production and use of organic inputs																						
Management of Problematic soils																						
Micro nutrient deficiency in crops																						
Nutrient Use Efficiency																						
Soil and Water Testing																						
IV Livestock Production and Management																						
Dairy Management																						
Poultry Management																						
Piggery Management																						
Rabbit Management																						
Disease Management																						
Feed management																						
Production of quality animal products	1	-	1	8	-	11	-	19	-	4	-	1	-	5	-	12	-	12	-	24	-	24
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	-	-	-	19	19	-	-	-	14	14	-	-	33	-	33	-	-	-	33
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	1	-	1	21	-	1	-	22		3	-	-	-	3	-	24	-	1	-	25	-	25

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	1	-	1	7	-	10	-	17	-	3	-	5	-	8	-	10	-	15	-	25	-	25
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	**5**	**0**	**5**	**50**	**0**	**22**	**19**	**91**	**0**	**23**	**0**	**20**	**14**	**29**	**0**	**106**	**0**	**61**	**0**	**101**	**0**	**134**

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

Thematic area	No. of Courses/ prg.			Participants																		Grand Total
				General						SC/ST						Total						
	Off	Sp Off*	Total	Male		Female		Total		Male		Female		Total		Male		Female		Total		
				Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	
I. Crop Production																						
Weed Management																						
Resource Conservation Technologies																						
Cropping Systems																						
Crop Diversification	1	-	1	5	-	22	-	27	-	-	-	-	-	-	-	5	-	22	-	27	-	27
Integrated Farming	1	-	1							14	-	12	-	25	-	14	-	12	-	25	-	25
Water management																						
Seed production	1	-	1	21	-	5	-	26	-	-	-	-	-	-	-	21	-	5	-	26		26
Nursery management																						
Integrated Crop Management	1	-	1							31	-	6	-	37	-	31`	-	6	-	37		37
Fodder production	1	-	1	-	-				-	19	-	6	-	25	-	19	-	6	-	25	-	25
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 standardizati on																					
Protective cultivation (Green Houses, Shade Net etc.)																					
Production & management of Cucurbitaceo us crops	1									12		24		36		12		24		36		36
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	2			8		21		30		13		2		15		21		38		45		45
Processing and value addition																					
f) Spices																					
Production and Management technology	1									20		7		27		20		7		27		27
Processing and value addition																					
g) Medicinal and Aromatic Plants																					
Nursery management																					
Production and management technology																					
Post harvest technology																					

and value addition																						
III Soil Health and Fertility Management																						
Soil fertility management																						
Soil and Water Conservation																						
Integrated Nutrient Management	1	-	1	-	-	-	-	-	-	25	-	-	-	28	-	28	-	-	-	28	-	28
Production and use of organic inputs	1	-	1	-	-	-	-	-	-	25	-	-	-	25	-	25	-	-	-	25	-	25
Management of Problematic soils	1	-	1	-	-	-	-	-	-	19	-	8	-	27	-	19	-	8	-	27	-	27
Micro nutrient deficiency in crops																						
Nutrient Use Efficiency																						
Soil and Water Testing																						
IV Livestock Production and Management																						
Dairy Management	1	-	1	-	-	25	-	25	-	-	-	-	-	-	-	-	25	-	-	25	-	25
Poultry Management	1	-	1	1	-	-	-	1	-	9	-	15	-	24	-	10	-	15	-	25	-	25
Piggery Management	1	-	1	-	-	-	-	-	-	1	-	25	-	26	-	1	-	25	-	26	-	26

Rabbit Management																						
Disease Management	1	-	1	-	-	-	-	-	-	25	-	-	-	25	-	25	-	-	-	25	-	25
Feed management																						
Production of quality animal products																						
Sheep & Goat Management	1	-	1	-	-	14	-	14	-	5	-	8	-	13	-	5	-	22	-	27	-	27
IFS (livestock)	1	-	1			25	-	25	-	-	-	-	-	-	-	-	-	25	-	25	-	25
V Home Science/Women empowerment																						
Household food security by kitchen gardening and nutrition gardening	1	-	1	-	-	-						25	-	-	25					25		25
Design and development of low/minimum cost diet																						
Designing and development for high nutrient efficiency diet	1	-	1	-	-	-	16	16	-	-	-	11	11	-	-	27	-	27	-	27	-	27
Minimization of nutrient loss in processing																						
Gender mainstreamin																						

g through SHGs																					
Storage loss minimization techniques																					
Value addition																					
Income generation activities for empowerment of rural Women																					
Location specific drudgery reduction technologies	1	-	1	-	-	-	15	15	-	-	-	10	10	-	-	-	-	25	-	25	-	25
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	2	-	2	4	-	6	-	10	-	30	-	10	-	40	-	34		16		50		50
Integrated Disease Management																					
Bio-control of pests and diseases	2	-	2	1	-	1	-	2	-	33	-	15	-	48	-	34	-	16	-	50	-	50
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	1	-	1	15	-	3	-	18	-	5	-	2	-	7	-	20	-	5	-	25	-	25

Mobilization of social capital																					
Entrepreneurial development of farmers/youths																					
PRA & Agro-eco-system analysis	1	-	1	15	-	10	-	25	-	-	-	-	-	-	-	15	-	10	-	25	-	25
WTO and IPR issues																					
XI Agro-forestry																					
Production technologies																					
Nursery management																					
Integrated Farming Systems																					
TOTAL	**27**	**0**	**23**	**70**	**0**	**132**	**31**	**234**	**0**	**286**	**0**	**186**	**21**	**428**	**25**	**355**	**25**	**314**	**0**	**708**	**0**	**708**

(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	1	-	1	6	-	6	-	12	-	13	-	-	-	13	-	19	-	6	-	25	-	25

Production																						
Bee-keeping																						
Integrated farming																						
Seed production																						
Production of organic inputs																						
Integrated Farming																						
Planting material production																						
Vermi-culture																						
Sericulture																						
Protected cultivation of vegetable crops																						
Commercial fruit production																						
Repair and maintenance of farm machinery and implements																						
Nursery Management of Horticulture crops																						
Training and pruning of orchards																						

Value addition																						
Production of quality animal products																						
Dairying																						
Sheep and goat rearing																						
Quail farming																						
Piggery																						
Rabbit farming																						
Poultry production																						
Ornamental fisheries																						
Para vets																						
Para extension workers																						
Composite fish culture																						
Freshwater prawn culture																						
Shrimp farming																						
Pearl culture																						
Cold water fisheries																						
Fish harvest and processing technology																						
Fry and fingerling rearing																						
Small scale																						

processing																						
Post Harvest Technology																						
Tailoring and Stitching																						
Rural Crafts Child Care	1	-	-	-	-	-	20	20	-	-	-	5	5					25	25			25
TOTAL	**2**	**0**	**1**	**6**	**0**	**6**	**20**	**32**	**0**	**13**	**0**	**5**	**5**	**13**	**0**	**19**	**0**	**31**	**25**	**25**	**0**	**50**

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

Thematic area	No. of Courses/ Prog.			Participants																		Grand Total
				General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
	Off	Sp Off	Total	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	
Mushroom Production																						
Bee-keeping																						
Integrated farming																						
Seed production																						
Production of organic inputs																						
Integrated Farming																						
Planting material production																						
Vermi-culture																						
Sericulture																						
Protected cultivation of vegetable																						

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

workers																					
Composite fish culture																					
Freshwater prawn culture																					
Shrimp farming																					
Pearl culture																					
Cold water fisheries																					
Fish harvest and processing technology																					
Fry and fingerling rearing																					
Small scale processing																					
Post Harvest Technology	1	-	1	2	-	23	-	25	-	-	-	-	-		-	2	-	23	-	25	-	25
Tailoring and Stitching																					
Rural Crafts																					
TOTAL	1	-	1	2	-	23	-	25	-	-	-	-	-		-	2	-	23	-	25	-	25

C. Extension Personnel

3.3.5. Achievements on Training of <u>Extension Personnel</u> in <u>On Campus</u> including <u>Sponsored On Campus</u> Training Programmes
(*Sp. On means On Campus training programmes sponsored by external agencies)

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

in field crops																					
Integrated Pest Management																					
Integrated Nutrient management																					
Rejuvenation of old orchards																					
Protected cultivation technology																					
Formation and Management of SHGs																					
Group Dynamics and farmers organization																					
Information networking among farmers																					
Capacity building for ICT application																					
Care and maintenance of farm machinery and implements																					
WTO and IPR																					

issues																					
Management in farm animals	1	-	1	11	-	-	-	11		4	-	-	-	4	-	15	-	-	-	15	-	15
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	1	-	1	11	-	-	-	11		4	-	-	-	4	-	15	-	-	-	15	-	15

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

Thematic area	No. of Courses/ prog.			Participants																		Grand Total
				General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
	Off	Sp Off*	Total	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	
Productivity enhancement in field crops	1	-	1	1	-	32	-	33	-	-	-	-	-	-	-	1	-	32	-	33	-	33
Integrated																						

Pest Management																					
Integrated Nutrient management																					
Rejuvenation of old orchards	1	-	1	17	-	-	-	17	-	9	-	-	-	26		26	-	-	-	26	-	26
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**	**18**	**0**	**32**	**0**	**50**	**0**	**9**	**0**	**0**	**0**	**26**	**0**	**27**	**0**	**32**	**0**	**59**	**0**	**59**

(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	
Mushroom Production	16-19th December, 2014	4	Mushroom production	Production technology of oyster mushroom.	6	6	12	13	-	13	19	6	25		3	-	-	-
Livestock	23-28th February, 15	6	Value addition of meat & meat product	Value chain production of meat products	-	-	-	15	10	25	15	10	25	-	-	-	-	-
Garment	11-14th February, 2015	4	Garment construction	Construction of garments	2	10	12	-	13	13	2	23	25	-	-	-	-	-
Nursery Management	19th - 22nd March, 2015	4	Nursery Management of Horticultural Crops	Planning care and management of horticultural nursery	6	-	6	14	-	14	20	-	20	-	-	-	-	-
Plant Nursery	28th - 31st March,15	4	Plant Nursery Management (Cutting, grafting, layering & budding)	Entrepreneurship development through Plant Nursery	17	-	17	3	-	3	20	-	20	-	-	-	-	-

Vermicompost & compost	2nd – 7th March, 15	6		Vermicompost and enriched compost production technology	8	-	8	7	-	7	15	-	15	-	-	-	-	-
waste materials	6th – 11th March 2015	6		Utilization of Waste materials	-	26	26	-	-	-		26	26	--	-	-	-	-

*training title should specify the major technology /skill transferred

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 2014-15

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**		April' 14-March'15	106	43	3	46	64	15	79			0	107	18	125
2.	Diagnostic visit		April' 14-March'15	37	69	6	75	18	1	19			0	87	7	94
3.	Field day			9	60	12	72	143	64	207			0	203	76	279
4.	Group Discussion			3	12	22	34	49	6	55			0	61	28	89
5.	Kishan Gosthi						0			0			0	0	0	0
	Kishan Mela						0			0			0	0	0	0
6.	Film show						0			0			0	0	0	0
7.	SHG formation						0			0			0	0	0	0
8.	Exhibition						0			0			0	0	0	0
9.	Scientists visit to farmers fields		April' 14-March'15	131	96	23	119	114	13	127			0	210	36	246
10.	Plant/ Animal Health camp			1	40	13	53	-	-	-	10	-	10	50	13	63
11.	Farm science club						0			0			0	0	0	0
12.	Ex-trainee Sammelan						0			0			0	0	0	0
13.	Farmers seminar/ workshop	On Banana cultivation	25th March, 15 (1 day)	1	15	-	15	11	-	11			0	26	-	26
14.	Method demonstration		April' 14-March'15	16	26	74	100	34	60	94			0	60	134	194
15.	Celebration of important days		June' 14 &	2	41	13	54	22	9	31	34	5	39	97	27	124

	(World Env. Day, World Food Day)		Oct.' 14 1 Day each													
16.	Exposure visits						0			0			0	0	0	0
17.	Electronic media (CD/DVD)			1			0			0			0	0	0	0
18.	Extension literature						0			0			0	0	0	0
19.	Newspaper coverage		April' 14-March'15	4			0			0			0	0	0	0
20.	Popular articles			2			0			0			0	0	0	0
21.	Radio talk			4			0			0			0	0	0	0
22.	TV talk						0			0			0	0	0	0
23.	Training manual						0			0			0	0	0	0
24.	Soil health camp						0			0			0	0	0	0
25.	Awareness camp		Nov./14	1	14		14	16	6	22			0	30	6	36
26.	Lecture delivered as resource person		April' 14-March'15	11			0			0			0	0	0	0
27.	PRA		11th March, 15 (1 day)	1	49	10	59	1	1	1			0	50	10	60
28.	Farmer-Scientist interaction		15th March'15, (1 day)	1	27	-	27	11	-	11			0	38	-	38
29.	Soil test campaign						0			0			0	0	0	0
30.	Mahila Mandal Convener meet						0			0			0	0	0	0
31.	Any other (Please specify)						0			0			0	0	0	0
32.	Farmers Visit tokvk		April' 14-March'15	204	63	41	104	68	32	100			0	131	73	204
33.	Research Publication			1			0			0			0	0	0	0
34.	Technology Week			1	47	20	67	49	18	67			0	96	38	134
35.	International seminar on Women and Agriculture	Paper presented on Women and sericulture	4-6th February 2015	1												
Grand Total				**536**	**535**	**224**	**839**	**600**	**225**	**824**	**44**	**5**	**49**	**1246**	**466**	**1712**

3.5 Production and supply of Technological products during 2014-15

A. SEED MATERIALS

Major group/class	Crop	Variety	Quantity (qt)	Value (Rs.)	Number of recipient/ beneficiaries		
					General	SC/ST	Total
CEREALS	Rice	Ranjit	19.0	-	-	-	-
		Mahsuri	10.8	-	-	-	-
		Gitesh	15.6	-	-	-	-
	Maize	Daklab	2.5	-	-	-	-
OILSEEDS	Sesame	Local	2.2	-	-	-	-
	Niger	NG-1	3.5	-	-	-	-
PULSES							
VEGETABLES							
FLOWER CROPS							
OTHERS (Specify)	Buckwheat	Local	4.0	-	-	-	-
	Mesta	HC583	1.2	-	-	-	-

A1. SUMMARY of Production and supply of Seed Materials during 2014-15

Sl. No.	Major group/class	Quantity (ton.)	Value (Rs.)	Number of recipient/ beneficiaries		
				General	SC/ST	Total
1	CEREALS	47.90	-	-	-	-
2	OILSEEDS	5.7	-	-	-	-
3	PULSES					
4	VEGETABLES					
5	FLOWER CROPS					
6	OTHERS	5.2	-	-	-	-
TOTAL		**58.8**	**-**	**-**	**-**	**-**

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	Pineapple	Kew	0.0065	6500.00	-	-	-
	Banana	Malbhog	0.002	-	-	-	-
	Lemon	Assam lemon	0.002				
	Litchi	Local	0.0004	-	-	-	-
Spices	Turmaric	Megha turmeric- 1	5 q	-	-	-	-
Ornamental Plants	Gladiolus	many	0.002	-	-	-	-
	Gerbera	Red gem	0.005	-	-	-	-
	Mussaenda	-	0.001	-	-	-	-
VEGETABLES							
Forest Spp.							
Plantation crops	Areca nut	Local	0.001				
Medicinal plants							
OTHERS (Pl. Specify)							

B1. SUMMARY of Production and supply of Planting Materials (In Lakh) during 2014-15

Sl. No.	Major group/class	Numbers (In Lakh)	Value (Rs.)	Number of recipient beneficiaries		
				General	SC/ST	Total
1	Fruits	0.0109	6500.00	-	-	-
2	Spices	5 q	-	-	-	-
3	Ornamental Plants	0.008	-	-	-	-
4	VEGETABLES					
5	Forest Spp.					
6	Medicinal plants					
7	Plantation crops	0.001	-	-	-	-
8	OTHERS (Specify)					
TOTAL		0.0199 5 q	-	-	-	-

C. Production of Bio-Products during 2014-15

Major group/class	Product Name	Species	Quantity		Value (Rs.)	Number of Recipient /beneficiaries		
			No	(qt)		General	SC/ST	Total
BIOAGENTS								
BIOFERTILIZERS								
1								
2								
3								
4								
BIO PESTICIDES								
1								
2								
3								
4								

C1. SUMMARY of production of bio-products during 2014-15

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

D. Production of livestock during 2014-15

Sl. No.	Type of livestock	Breed	Quantity		Value (Rs.)	Number of Recipient beneficiaries		
			(Nos)	Kgs		General	SC/ST	Total
	Cattle/ Dairy							
	Goat	**Beetle X/ Sirohi X**	**11**	**-**	**32000.00**	**-**	**8**	**8**
	Piggery	**Hampshire/ T&D**	**8**	**-**	**20400.00**	**-**	**8**	**8**
	Poultry	**Vanaraja**	**543 eggs**		**2715.00**	**-**	**-**	**-**
		Vanaraja culled bird		**12.05 kg**	**1687.00**	**-**	**-**	**-**
	Fisheries							
	Others (Specify)							

D1. SUMMARY of production of livestock during 2014-15

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	**Beetle X/ Sirohi X**	**11**	**-**	**32000.00**	**-**	**8**	**8**
3	POULTRY	**Vanaraja**	**543 egg**	**12.05 kg**	**4402.00**	**-**	**-**	**-**
4.	PIGGERY	**Hampshire/ T&D**	**8**	**-**	**20400.00**	**-**	**8**	**8**
5	FISHERIES							
6	OTHERS (Pl. specify)							
	TOTAL	**-**	**-**	**-**	**56802.00**	**-**	**16**	**16**

3.6. Literature Developed/Published (with full title, author & reference) during 2014-15

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

(B) Articles/ Literature developed/published

Item	Title /and Name of Journal	Authors name	Number of copies
Research papers			
1	Effect of holding of semen and washing of seminal plasma onquality and fertility of Hampshire boar semen preserved atliquid state. Animal Reproduction Science	T. Chutia, R.K. Biswas, M.K. Tamuli, B.C. Deka, S. Sinha, J. Goswami, S. Banik, R.B. Kayastha	
2	Improvement of rural livelihood through rearing of charra-chemballi ducks in Assam World Poultry Science Journal	Deka, R.J., Zakir, A.M.M. and Kayastha, R.B. Vol 70 June, 2014 page 337-404	
3	Efficacy of different extenders in preservation of liquid Hampshire boar semen at 150C. Indian Journal of Animal Research	Chutia, T.; Biswas, R.K.; Sinha, S.; Goswami, J.; Deka, B.C.; Banik, S.; Kayastha, R.B. and Tamuli, M.K. Vol 48(5) 2014 page no 496-500	
Training manuals			
Technical Report			
1.			
Book/ Book Chapter			
Popular articles			
Technical bulletins			
Extension bulletins			
Newsletter			
Conference/ workshop proceedings			
Leaflets/folders			
e-publications			
Any other (Pl. specify)			
TOTAL	**3**	**3**	**-**

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

(C) Details of Electronic Media Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number produced
1	CD	Video on Natural Dyeing Video on nursery management Video on presentation tool Video on how to make database using MS-Access	1

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

Model farmer – Mr. Debnath Mushahary

Mr. Debnath Mushahary 44 Years of age, S/o Late Timu Mushahary of village Maktaigaon under Kashugaon Dev. Block in Kokrajhar district is a progressive farmer who does farming by heart. His father was also a cultivator farmer. From his childhood he always helped his father in farming activities at their land. When he was studying at class IX, serious illness of his father compelled Debnath to leave his study and engaged himself fully in agriculture for running the family. At that time, he inherited 36.5 Bigha (4.86 ha) of cultivable land as paternal property. He observed that his father's income from farming was meager. So he faced the challenge of meeting daily needs of the family. Instead of his father's traditional cultivation, he thought of modern cultivation. He was encouraged to take up such venturesome tusk by some progressive farmers when he visited some of his relatives. For the first time, he tried to plan how to utilize his land under different enterprises. Accordingly he started Orchard of Areca nut & betel vine of about 4.5 Bigha where he planted 150 nos. of Areca nut & Betel vine. He gained profit from his Orchard but Faced difficulty in properly utilizing the remaining part of land scientifically. He searching advised from others and one day (In 2010) when he went to sale his Areca nut & Betel vine in Haraputa Market Near Srirampur he met his childhood friend Mr. Abdul Aziz. A enjoyable conversation between the friends culminated in advise him to visit KVK, Kokrajhar, Gossaigaon for advice of modern agricultural operation. Accordingly, Mr. Devnath Mushahary came to visit the KVK on September, 2010 and discussed with the scientists about improved cultivation practices. He invited the KVK scientists to visit his land and requested to help him for planning his land and giving tips of scientific cultivation

practices. Seeing his enthusiasm, a team of KVK scientists visited his land and decided to intervene. Subsequently many OFT & FLD under different discipline like FLD on rice (Var: Ranjit, Swarna Mashuri), OFT on rice (Var: TTB), blackgram, OFT on Poultry (Var: Banaraja & Kamrupa), OFT on Biofertilizers in Rice and Biological control in Brinjal, FLD on hybrid Vegetable crops, FLD on application of natural dye on Yarn etc in the field of Mr. Muchahary.

The results were encouraging and Mr Mushahary also participated in various training programmes conducted by KVK, Kokrajhar. Getting himself well trained, he started integrated farming in his land and shifted completely to scientific farming instead of his father's traditional farming. As per advised getting from the scientists of KVK, he planned to utilize his land under different enterprises as follows.

Present farm layout, enterprises, cost and profit of Mr. Debnath Mushahary in 2014-15:

Particulars	**Area (Bigha)**	**Cost (Rs.)**	**Production (Qt)**	**Income (Rs.)**	**Profit (Rs.)**
1. Crop Land					
a) Rice (Var:TTB)	12	36000/-	90	1,12,500/-	76,500/-
b) Blackgram	11	28000/-	12	72,000/-	44,000/-
Orchard					
a) Areca nut	4 (150 nos. of pant)	4000/-	24000	36000/-	32,000.00
b) Betel vine	50 nos. of plants	3000/-	500000	75000/-	72,000.00
2. Vegetables					
a) Brinjal	1	7,000/-	15q	15,000.00	8000.00
b) Cabbage	1	10,000/-	25q	50,000.00	40,000.00
c) Tomato	0.5	12,000/-	27 q	81,000.00	69,000.00
d) Sponge Guard	1.5	5000/-	18 q	48,000.00	43,000.00
3. Livestock					
a) Cow	6 nos.	-	1000 lit milk	35000.00	35000.00
b) Poultry (Kamrupa & Banaraja) Egg purposes	10 nos.	-	880 eggs	4400.00	4400.00
c) Goat	3 nos.	-	4 kids	4000.00	4000.00

d) Pig	6 nos	2000/-	15 piglets	15000.00	13000.00
4. Agro-Forestry (Wood land)	3.5	2000/-		55000.00	52000.00
a) Segun	30 nos. of tree				
b) Teak	40 nos. of tree				
c) Gomari	23 nos. of tree				
4. Bamboo Garden	5	4000/-	-	50000.00	46000.00
Total					**5,38,900.00**

Mr. Mushahary is now a very popular progressive farmers in Gossaigaon Subdivision of Kokrajhar District. For appreciating him, the Dept. of Agriculture, Kokrajhar District provided him a Rickshow van in 2014 for selling his produce in local & far away market.

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

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

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

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

- Identification of courses for farmers/farm women

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:1

ii. No. of farm families selected: 50

iii. No. of survey/PRA conducted: Nil

3.12. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab :

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	-	-	-	-
Water Samples	-	-	-	-
Plant Samples	-	-	-	-
Petiole Samples	-	-	-	-
Total	-	-	-	-

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	60	35221	32	18434	-	-	-	-	-	-	19	10821	111	64476
Voice only	2	200	-	-	-	-	-	-	-	-	-	-	2	200
Voice and Text both	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	62	35421	32	18434	-	-	-	-	-	-	19	10821	113	64676

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
Drought mitigation	**Growing of alternative crops like black gram (PU-31) & sessame, when the**	**2.0**	**5**	**15**	**20**

	Sali paddy is failed due to late onset of monsoon.				
	Distribution of Sesame seeds	**2.0**	**5**	**20**	**25**
	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	350	87	30000/ha	57000/ha
Cole crops production technology	400	90	36000/ha	60000/ha
Nursery techniques	200	64	54000/ha	62000/ha
Mushroom production technology	420	50	-	30000/Season
Fertilizer application in Boro rice	270	72	9000/ha	15000/ha
Improved variety of Rapeseed	360	70	12000/ha	25000/ha
Improved cultivation of Potato	250	85	22000/ha	25000/ha
Improved method of Banana	365	90	15000/ha	25000/ha

plantation				
Broiler farming	105	75	2500/month	6000/month
Composite Fish farming	56	30	35000/ha	75000/ha
HYV in Sali rice (Ranjit)	900	92	20000/ha	32000/ha
Control of shoot and fruit borer in Brinjal	175	55	8000/ha	12000/ha
Control of fruit scaring beetle in Banana	280	73	15000/ha	25000/ha
Techniques for preparation of Vermicompost	240	45	-	40000/year
Rearing of Pig	255	72	Rs. 1100/piglet	Rs.2000/piglet
Rearing of Duck	80	16	110 egg/duck	180 egg/duck
Poultry management	25	90	80 eggs/bird	110eggs/bird
Dairy management	65	61	5lits milk/Crossbred cow	8lits milk/crossbred cow

4.2. Cases of large scale adoption

1	Adoption of HYV of Boro Rice – Joymati, Kanaklata & swarnav	Area increased – 65 %
2	Adoption of HYV of Rapeseed – TS – 36 , TS – 38 & TS-46	Increase in area – 62 %
3	Commercial cultivation of Banana variety – Malbhog	Increase in area – 70 %
4	Adoption of control measures for late blight of Potato	Adoption – 85 %
5	Adoption of Broiler farming	Adoption – 40%
6	Adoption of Piggery farming	Adoption – 55 %
7	Adoption of cultivation of Oyster mushroom	Adoption – 52 %
8	Adoption of Fish farming	Adoption – 34 %
9	Adoption of Giriraja bird farming	Adoption – 20 %
10	Adoption of Scientific housing in dairy cattle	Adoption – 15 %
10	Adoption of vermicompost production technology	Adoption- 30 %

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)	86	35	Rs. 24500/ha	Rs. 40000/ha
2	Production technology of Oyster mushroom	80	50	-	Rs. 30000/Sesaon
3	Improved variety of Rapeseed (TS 36, TS-38 & TS 46)	80	75	Rs. 9500/ha	Rs. 23000/ha
4	Improved method of Banana production	70	45	15000/ha	25000/ha
5	Vermi-compost production techniques	60	10	-	Rs. 40000/Year
6	Rearing of Pig	40	72	Rs. 1100/piglet	Rs.2000/piglet
7	Nursery management of Horticultural crops	30	20	54000/ha	62000/ha
8	Goatery management	25	50	Rs.800/kid	Rs. 1500/kids
9	Poultry management	25	90	80 eggs/bird	110eggs/bird
10	Dairy management	65	61	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
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	Guidance, resource person, preparation of work plan
13. Socio Economic Development	Guidance, resource person, preparation of work plan

14. UCORSETTI	Action plan formulation resource person

NB The nature of linkage should be indicated in terms of joint diagnostic survey, joint implementation, participation in meeting, contribution received for infrastructural development, conducting training programmes and demonstration or any other

5.2 List special programmes undertaken by the KVK, which have been financed by State Govt./Other Agencies during 2014-15

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

5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district Yes

Sl. No.	Programme	Nature of linkage	Remarks
1	Identification of problems and constraints faced by different socio-economic groups and farmers	Collaboration in Field survey, PRA, Group meeting & training	-
2	Strategy for research and extension programme	Cooperation in preparation of integrated SREP	-
3	Demonstration	Scientific Advisory Service, Diagnostic visit	-
4	Training	As resource person	-
5	Farmers Scientist Interaction	As resource Person	-

5.4 Give details of programmes implemented under National Horticultural Mission

S. No.	Programme	Nature of linkage	Constraints if any
-	-	-	-

5.5 Nature of linkage with National Fisheries Development Board

S. No.	Programme	Nature of linkage	Remarks

-	-	-	-

6. PERFORMANCE OF INFRASTRUCTURE IN KVK DURING 2014-15

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	

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.									
ii.									

Spices & Plantation crops									
i.									
ii.									
Floriculture									
i.									
ii.									
Fruits									
i.									
ii.									
Vegetables									
i.									
ii.									
a. Others (specify)									
i.									
ii.									

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

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

6.4 Performance of instructional farm (livestock and fisheries production)

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

6.5 Rainwater Harvesting

Training programmes conducted by using Rainwater Harvesting Demonstration Unit

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

6.6. Utilization of hostel facilities (Month-Wise) during 2014-15

Accommodation available (No. of beds) :

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

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

7. FINANCIAL PERFORMANCE

7.1 Details of KVK Bank accounts

Bank account	Name of the bank	Location/ Branch	Account Number
With Host Institute			
With KVK	SBI	Gossaigaon	11378641024
Revolving Fund	SBI	Gossaigaon	1137866028

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 2014 -15

S. No.	Particulars	Sanctioned (in Lakh)	Released (in Lakh)	Expenditure (in Lakh)
A. Recurring Contingencies				
1	**Pay & Allowances**	93.00	81.47	81.47
2	**Traveling allowances**	1.85	1.13	1.13
3	**Contingencies**			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)		4.42	4.42
B	POL, repair of vehicles, tractor and equipments		0.14	0.14
C	Meals/refreshment for trainees		-	-
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)		1.38	1.38
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)		1.54	1.54
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)		1.17	1.17
G	Training of extension functionaries		0.85	0.85
H	Maintenance of buildings		-	-
I	Establishment of Soil, Plant & Water Testing Laboratory		-	-
J	Library	9.5	-	-
TOTAL (A)		**104.35**	**92.10**	**92.10**
B. Non-Recurring Contingencies				
1	**Works**	-		
2	**Equipments including SWTL & Furniture**	-		

3	**Vehicle** (Four wheeler/Two wheeler, please specify)	-		
4	**Library** (Purchase of assets like books & journals)	-		
TOTAL (B)		**-**		
C. REVOLVING FUND		-		
GRAND TOTAL (A+B+C)		**104.35**	**92.10**	**92.10**

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 2012 to March 2013	1.67	0.85	1.17	1.35
April 2013 to March 2014	1.35	3.40	1.93	2.82
April 2014 to March 2015	2.82	1.98	2.32	2.48

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. Long distance from the head quarter (600 km) with poor transport and communication facility
2. On-campus vocational training could not conducted due to lack of proper hostel facilities
b. Financial
1. Provision of funds for Traveling Allowance for trainees
2. Separate fund for publication of literature
4. Non-availability of funds in time for FLD hampers technology dissemination process and reduces KVK's impact
5. Procedures for release of fund should be more simplified
6. Budget should be provided timely so that fund can be utilized properly
7. More fund for infrastructure development
8. More fund for TA/DA for the Scientists and Staffs
c. Technical
1. Lowest speed of the existing internet facility.
2. Lack of STW and Godown hinders the farm activities of KVK
3. Deplorable office furnitures and inadequate space for sitting arrangement leads to poor working environment and low zeal of scientists
4. Existing computers are 7-10 years old , of low configuration. So 7 computers and 1 laptop may be provided for speady and quality performance.
5. Frequent power cut hampers the official work.
6. Engagement of PC, SMS, Computer programmer and other staff in election process for long term hampers the official work and reporting in time.

(Signature)

Programme Coordinator

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

Discipline	Area of training	Title of the training programme	Date (From – to)	Duration in days	Venue	Please specify Beneficiary group (Farmer & Farm women/ RY/ EP and NGO Personnel)	General participants			SC/ST			Grand Total		
							M	F	T	M	F	T	M	F	T
Home Science	Value addition	Value addition of fabric through embroidery	20/10/2014 – 21/10/2014	2 days	KVK Kokrajhar	Farmer & Farm women	-	19	19	-	14	14	-	33	33
	Child care	Women and child care	26/11/2014	1 day	Kvk kokrajhar	Rural youth	-	20	20	-	05	05	-	25	25
Animal Science	Meat processing and its value addition	Processing of pork and its value addition	20.11.2014	1	Training Hall KVK, Kokrajhar	Farmer & Farm women	8	11	19	4	1	5	12	12	24
Plant Protection	Biological Control	Ecofriendly methods of pests and disease management.	29-8-14	1	KVK Kokrajhar, Training hall.	Farmers and Farm Women	21	1	22	3	-	3	24	1	25
Agril. Extension	Group Dynamics	Group approach for economic development of Farming community	12.2.15	1	KVK Kokrajhar	Farmer & Farm women	7	10	17	3	5	8	10	15	25
Horticulture	Nursery Management	Planning Care and management of horticultural nursery	19-03-15 to 22-03-15	4	KVK, Kokrajhar	Rural Youth	7	-	7	16	-	16	23	-	23
	Orchard management	Canopy management and rejuvenation of citrus orchards especially mandarin	17-03-15	1	KVK, Kokrajhar	Extension Personnel	17	-	17	9	-	9	26	-	26

		orange													

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

Discipline	Area of training	Title of the -raining programme	Date (From – to)	Duration in days	Venue	Please specify Beneficiary group (Farmer & Farm women/ RY/ EP and NGO Personnel)	General participants			SC/ST			Grand Total		
							M	F	T	M	F	T	M	F	T
Soil Science	Management of problematic soil	Management of soil acidity for higher crop production	28-8-2014	1	Amlaiguri L P School	Farmer and farm women	-	-	-	19	8	27	19	8	27
	Production and use of biofertilizer	Production technology of Azolla and its use in crop production	39-9-2014	1	Thuribari LP school	Farmer and farm women	-	-	-	25	-	25	25	-	25
	Integrated nutrient management	Integrated nutrient management for oilseeds and pulses	29-10-2014	1	Hogmabil LP school	Farmer and farm women	-	-	-	28	-	28	28	-	28
	Productivity enhancement	Soil health management and soil health card	07-2-2015	1	Club building, Diajijuri	Extension functionaries	1	32	33	-	-	-	1	32	33
Home Science	Low Cost Diet	Preparation of Supplementary Food (Assam Mix)	26/8/2014	1 day	oxiguri	Farmer and farm women	-	16	16	-	11	11	-	27	27
	Drudgery reduction	-Drudgery reduction technology for rural women	22/12/2014	1 day	Padmabhil	Farmer and Farm women	-	15	15	-	10	10	-	25	25
	Value addition	Textile dyeing and printing	28/7/2014	1 day	Amlaiguri	Rural Youth	-	12	12	-	13	13	-	25	25
Animal Science	Poultry management	Management of backyard poultry	28.8.14	1	Maktaigaon, Kokrajhar	Farmer & farmwomen	1	-	1	9	15	24	10	15	25
	Dairy	Care and	16.09.2	1	Diajijori,	Farmer &	-	29	29	-	-	-	-	29	29

	management	management of pregnant cows	014		Kokrajhar	farmwomen									
	Piggery management	Scientific management of pig breeding, management and health care management	10.11.14	1	Janagaon	Farmer & farmwomen				1	25	26	1	25	26
	Goatery management	Scientific management of sheep and goat	23.01.15	1	Bhomrabil, Kokrajah	Farmer & farmwomen	-	14	14	5	6	11	5	20	25
	Disease management	Diseases of pig and its management	16.02.2015	1	Amlaiguri	Farmer & farmwomen	-	-	-	25	-	25	25	-	25
	IFS (Livestock)	Livestock based integrated farming system	21.03.2015	1	Diajijori	Farmer & farmwomen	-	25	25	-	-	-	-	25	25
Agronomy	seed production	Seed production technology for sali rice including SRI	29.8.14-30.8.14	2 days	Halowadal	Farmer & Farm women	21	5	26	-	-	-	21	5	26
	Fodder production	Improved production technology of fodder crops	11.10.14	1 days	Kujrabguri	Farmer & Farm women	-	-	-	19	6	25	19	6	25
	Integrated farming	Rice cu m fish integrated farming system	19.10.14	1 days	Halowadal	Farmer & Farm women	-	-	-	13	12	25	13	12	25
	Integrated crop management	Scientific production technology for *kharif* pulses and oil seed crops	1.12.14	1 days	Diajijori	Farmer & Farm women	-	-	-	31	6	37	31	6	37
	Crop diversification	Production technology for Rabi pulses and oil seed crops	14.3.15	1 days	Diajijori	Farmer & Farm women	5	22	27	-	-	-	5	22	27
Plant Protection	Biological control	Role of predatory and depredatory bird in agricultural production	29-8-14	1	Amlaiguri	Farmers and Farm Women	-	-	-	15	10	25	15	10	25
	Biological control	Biological control of crop pests.	27-2-15	1	Athiabari	Farmers and Farm Women	-	-	-	18	7	25	18	7	25
	Pest Management	Management of stored grain insect	7-3-15	1	Maktaigaion	Farmers and Farm Women	24	2	26	-	-	-	-	-	26

		pests and diseases.													
	Pest Management	Root Knot nematode management in horticultural crops.	9-3-15	1	Diajajhree	Farmers and Farm Women	15	10	25	-	--	-	-	-	25
Agril. Extension	PRA & Agro-eco- system analysis	Participatory rural appraisal methods & Agro-eco-system analysis	25-2-15	1	Pokalagi village	Rural youth	15	10	25	-	-	-	15	10	25
	Formation of SHG	Formation & management of SHG	20.2-15	1	Bhawraguri	Farmers and Farm Women	15	3	18	5	2	7	20	5	25
Horticulture	Post harvest handling	Post harvest handling and processing of tomato & orange for sauce and squash making	18-03-15	1	Kokrajhar	Rural youth	2	23	25	-	-	-	2	23	25
	Production and management of tuber crops	Scientific cultivation of ginger and turmeric	03-03-2015	1	Sonapur, Kokrajhar	Farmer & farm Women	-	-	-	20	7	27	20	7	27
	Production and management of cucurbits	Scientific production technology of cucurbitaceous crops viz., pointed gourd and spine gourd	13-03-2015	1	Shantinagar, Dotma	Farmers & farm Women	-	-	-	13	25	38	13	25	38
	Production and management of tuber crops	Improved cultivation technology of potato with reference to TPS	22-03-2015	1	Diajhijri, Kokrajhar	Farmers & farm Women	-	-	-	8	12	25	8	12	25
		Scientific cultivation of tapioca and colocasia	30-03-2015	1	Haltugaon, Kokrajhar	Farmers & farm Women	5	5	10	12	3	15	17	8	25