ANNUAL PROGRESS REPORT 2013-14

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PROFORMA FOR ANNUAL REPORT OF KVKS, 2013-14

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail
KVK, Jorhat	Office	FAX	kvkjorhat@ymail.com; kvkjorhat2@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			kvkaau@gmail.com

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

Name		Teleph	none / Contact
Dr. Rupam Borgohain	Residence	Mobile	Email
		9435352939	borgohainrupam@yahoo.co.in

1.4. Year of sanction: 2006

1.5. Staff Position (As on 31st March, 2014)

Sl.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Present basic	Date of joining	Permanent	Category (SC/ST/
No.	post	meumbent			(145.)	(Rs.)	Johning	/Temporary	(BC/B1/
1	Programme Coordinator	Dr. Rupam Borgohain	Prog. Coordinator	Plant Breeding and Genetics	37400 – 67000 (GP- 10000)	64750	24.12.2009	Permanent	OBC
2	Subject Matter Specialist	Ms.Rumjhum Phukan	SMS	Plant Breeding and Genetics	15600 – 39000(GP- 6000)	25050	10.08.2011	Permanent	Others
3	Subject Matter Specialist	Mr. Sanjib Ranjan Borah	SMS	Soil Science	15600 – 39000 (GP- 7000)	33160	05.02.2014	Permanent	OBC
4	Subject Matter Specialist	Ms. Mousumi Phukon	SMS	Entomology	15600 – 39000(GP- 6000)	24320	25.11.2009	Permanent	OBC
5	Subject Matter Specialist	Dr. Pankaj Deka	SMS	Animal Science	15600 – 39000(GP- 6000)	22920	02.08.2011	Permanent	Others
6	Subject Matter Specialist	Ms. Ira Sarma	SMS	Horticulture	15600 – 39000(GP- 6000)	22920	05.08.2011	Permanent	Others
7	Subject Matter Specialist	Ms. Binapani Deka	SMS	Home Science	15600 – 39000	21000	04.02.2014	Permanent	Others

8	Computer Programmer	Mr. Shantanu Saikia	Prog. Assistant (Computer)	Computer Science	8000 – 35000(GP- 4900)	17300	08.11.08	Permanent	Others
9	Farm Manager	Mr. Manab Bikas Gogoi	Farm Manager	Biotechnology	8000 – 35000 (GP- 4900)	13690	14.10.2011	Permanent	OBC
10	Superintendent/ Accountant	Mr. Dibyajyoti Bharali	Accountant cum Office Superintendent	NA	8000 - 35000(GP- 4900)	13290	21.02.2012	Permanent	SC
11	Stenographer	Mr. Biman Jyoti Phukan	Stenographer cum Computer Operator	NA	8000 – 35000(GP- 3300)	8760	18-2-2012	Permanent	OBC
12	Driver	Mr. Pankaj Borah	Driver	NA	5200- 20200(GP- 2500)	7940	21.02.2012	Permanent	OBC
13	Driver	Mr. Haren Barhoi	Driver	NA	5200- 20200(GP- 2500)	7940	21.02.2012	Permanent	OBC
14	Supporting staff	Mr. Putul Borah	Peon	NA	5200- 20200(GP- 2200)	12450	11.12.2007	Permanent	Others
15	Supporting staff	Mr. Krishna Sarma	Peon	NA	5200- 20200(GP- 2100)	9720	01.12.2007	Permanent	Others

1.6. a. Total land with KVK (in ha) :11.93

b. Total cultivable land with KVK (in ha) : 8.43

c. Total cultivated land (in ha) : 5.30

Sl. No.	Item	Area (ha)
1	Under Buildings	1.20
2.	Under Demonstration Units	1.00 (RKVY)
3.	Under Crops (Cereals, pulses, oilseeds etc.)	5.04
4.	Under vegetables	0.26
5.	Orchard/Agro-forestry	2.13
6.	Others (specify)	2.30

1.7. Infrastructural Development:

A) Buildings

		Source of			Stage				
S.	Name of building	funding		Complete			Incomplete		
No.			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction	
1.	Administrative Building	ICAR	30.09.2009	547 .00	42,33,000.00	-	-	-	
2.	Farmers Hostel	ICAR	10-2-2012	311.50	17,12,249.00 (Total value 24 lakhs)	-	-	-	
3.	Staff Quarters (6)	-	-	-	-	-	-	-	
	a. PC quarter (1)	ICAR	30.09.09	108.47	8,24,177	-	-	-	
	b. SMS quarters (2)	ICAR	06.03.09	76.65 x 2	11,83,565	-	-	-	
	c. Farm manager & Pas quarter (2)	ICAR	30.09.09	96.90	7,73,824	-	-	-	
	d. Supporting Staff quarters (1)	ICAR	06.05.09	37.80	3,14,300	-	-	-	

4. Dem Units	onstration s (2)							
1. Ca	attle shed	RKVY	2010	36.45	2,33,972.00	-	-	-
2. Ve	ermicompost	RKVY	2010	46.80	1,41,774.00	-	-	-
3. M	ushroom Unit	RKVY	2010	27.00	1,99,515.00	-	-	-
4. Po	oultry Shed	RKVY	2011	44.40	3,41,368.00	-	-	-
5. Go	oattery unit	RKVY	2011	34.20	2,49,305.00	-	-	-
6. In	plement shed	RKVY	2010	170.00	9,40,866.00	-	-	-
7. Pi	ggery unit	RKVY	2010	41.04	2,80,000.00	-	-	-
	emonstration (Display unit)	RKVY	2011	93.50	7,74,700.00	-	-	-
9. Fe godo	ertilizer own	RKVY	2011	22.79	1,63,000.00	-	-	-
	Rice- Fish- etable Unit	RKVY	2011	5332 (4 bighas)	2,00,000.00	-	-	-
11. F	Fish pond	RKVY	2010	50m x 20m	68,533.00	-	-	-
	Deep tube well distribution	RKVY	2011	287.60 running m.	4,10,509.00	-	-	-
13. 0	Green House	ICAR	2011	10m x 8m	5,00,000.00	-	-	-

	14. Automatic Weather Station	RKVY	2011	3m X 3m	45,000.00	-	-	-
	15. Azolla production unit	RKVY	2012	9.9m X 5.5m	2,72,000.00	-	-	-
	16. Compost production Unit	RKVY	2012	9.6m X 5m	2,20,000.00	-	-	-
5	Fencing	ICAR	2012	800RM	15,00,000	-	-	-
		RKVY	2012	980RM	9,00,562.00	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status	
Jeep	2008(ICAR)	5,00,000.00	90380	Running condition	
Tractor	2010(RKVY)	4,59,301.00		Running condition	
Power tiller (2nos)	2008(RKVY)	1,36,511.00		Running condition	
Rice transplanter	2010(RKVY)	1,88,198.00	98.00 Running condi		

C) Equipments & AV aids

Sl. No.	Name of the equipment	Source of Fund	Year of purchase	Cost (Rs.)	Present
1	Desktop Computer	ICAR	2007	32,000.00	status Working
1	Desktop Computer	ICAK	2007	32,000.00	Working
2	UPS	ICAR	2007	6,930.00	Working
3	Ledger Printer	ICAR	2007	7,571.00	Working
4	Xerox (1)	ICAR	2010	1,01,920.00	Working
5	LCD Projector (1)	ICAR	2010	98,000.00	Working
6	Digital Camera (1)	ICAR	2010	19,000.00	Working
7	Computer (2)	ICAR	2010	55,094.00	Working
8	Laser printer (1)	ICAR	2010	5,475.00	Working
9	UPS (2)	ICAR	2010	16,474.00	Working
10	Scanner (1)	ICAR	2010	2,724.00	Working
11	Fax (1)	ICAR	2010	15,190.00	Working
12	Trailer capacity 1.5 tone	RKVY	2008	-	Working
13	Dugged Wheel for 13 HP	RKVY	2008	-	Working
14	Hitch braket with pine set for 13 HP VST Tiller	RKVY	2008	-	Working
15	Five Tyne cultivator for 13 HP VST Sakti power Tiller	RKVY	2008	-	Working

16	Tail wheel float for 13 HP VST power tiller	RKVY	2008	_	Working
17	Wheel Changer for BHP VST Power tiller	RKVY	2008	-	Working
18	Two share MB plough to be fitted with 13 HP VST Sakti power tiller	RKVY	2008	-	Working
19	Handle weight Assembly for 13 HP power tiller	RKVY	2008	-	Working
20	Short rotary for power tiller	RKVY	2008	-	Working
21	Extension lagged wheel for power tiller	RKVY	2008	-	Working
22	Straight blade 18 Nos	RKVY	2008	-	Working
23	Water pump with accessory-suction pipe & head	RKVY	2008	-	Working
24	Legged wheel carrier for power tiller	RKVY	2008	-	Working
25	Motorized knapsack sprayer with 1.2 HP petrol/kerosine engine	RKVY	2008	-	Working
26	Mechanized brush cutter	RKVY	2008	-	Working
27	Model –sparta-37 petrol	RKVY	2008	-	Working
28	driven 2 stroke engine	RKVY	2008	-	Working
29	Multi purpose power	RKVY	2008	-	Working
30	weeder, Model –APW-43	RKVY	2008	-	Working
31	2-stroke engine	RKVY	2008		Working

32	Sealing machine(8") (1.5 x 3) mm sealing width option.	RKVY	2012	-	Working
33	Earth augar, Model –MTL-51	RKVY	2008	45,967.00	Working
34	Post hole Digger accessories.				
	i. Auger for digger(6")	RKVY	2011	3,308.00	Working
	ii. Auger for digger(12")	RKVY	2011	5,513.00	Working
	iii. Auger for digger(18")	RKVY	2011	9,371.00	Working
	iv. Auger for digger(24")	RKVY	2011	13,892.00	Working
35	Eight Row self propel rice transplanter	RKVY	2008	-	Working
36	Drag Net (Double knotted 100% nylon machine made)	RKVY	2008	-	Working
37	Fingering catching net(Knotless 100% nylone	RKVY	2008	-	Working
38	Ti -9 tine spring loaded Tiller	RKVY	2008	-	Working
39	Greaves pump set GSP-80B,Engine No- TKG 6748998 pump no-1798	RKVY	2008	-	Working
40	Chaff Cutter (J) No. Blade – 2	RKVY	2008	-	Working
41	T I plogh -2 disc (J)	RKVY	2008	-	Working
42	T I Disc Harrow (12 disc) (J)	RKVY	2008	-	Working
43	Lagged wheel	RKVY	2008	-	Working

44	Tail wheel Float	RKVY	2008	-	Working
45	Wheel changer	RKVY	2008	-	Working
46	Hitch bracket	RKVY	2008		Working
47	Rotavator, 25-35 and 35-50 HP tractor drawn	RKVY	2008	-	Working
48	Puddler	RKVY	2008	-	Working
49	Power paddy weeder	RKVY	2008	-	Working
50	Seed cleaner Model PC-2	RKVY	2008	-	Working
51	Power sprayer	RKVY	2008	-	Working
52	Knapsack mist blower cum duster	RKVY	2008	-	Working
53	Autoclave: Table top	RKVY	2011	8,810.00	Working
54	Autoclave vertical, media make, Model-	RKVY	2011	93,638.00	Working
55	Horizontal Laminar air flow, Make-Rescolar, Model-RH58-7, Size-120 x 60 x 60 cm	RKVY	2011	57,930.00	Working
56	Hot air Oven (600x600x600) mm	RKVY	2011	36,888.00	Working
57	Portable Ph meter with 4 digit LCD display	RKVY	2011	2,270.00	Working
58	B.O.D Incubator(Low temp.) capacity -171 lt.	RKVY	2011	1,22,131.00	Working
59	Spirit lamp(Brass)	RKVY	2011	280.00	Working
60	Wheel burrow (wheels made of cast iron with solid rubber ring)	RKVY	2011	5,175.00	Working

1.8. A). Details SAC meeting* conducted in the year 2013-14

Sl. No.	Date	Name and Designation of Participants	Salient Recommendations	Action taken on last SAC recommendation
1.	01.03.14	 Dr Ajay Kumar Gogoi, Zonal Project Director, Zone- III, ICAR Research Complex for N E Region, Umiam, Barapani, Meghalaya Dr. K. Giridhar, Director, Central Eri-Muga Research and Training Institute, Lahdoigarh, Jorhat Dr. R. K. Saud, ADEE (P & I), DoEE, AAU, Jorhat DR. P.K. Pathak, ADR (Agri), AAU, 	The SAC meeting of Krishi Vigyan Kendra, Jorhat for the year 2013-14 was held at Honourable Vice-Chancellor's Conference Hall on 1 st March, 2014. The salient recommendation of Scientific Advisory Committee meeting, 2013-14 of KVK Jorhat is as follows: 1. As suggested by Mr. B. Baruah, Principal, ETC, SIRD, Jorhat one member from Panchayat is to be included in the SAC 2. A project on Peri-urban agriculture to be started for vegetables, piggery and poultry at Allengmora area of Jorhat. 3. As per the suggestion of the Hon'ble Vice Chancellor, AAU good quality piglets of Hampshire	Scientific Advisory Committee meeting of KVK Jorhat, held on 22-03-2013 in the conference hall of the Office of the Vice Chancellor, the following actions were undertaken: 1. As per the suggestion of the Hon'ble Vice Chancellor, AAU to initiate action to increase production and productivity of cereals in the district, KVK, Jorhat undertook several OFTs and FLDs in cereal crops particularly in paddy to assess and demonstrate through testing and demonstration of varieties for flood prone situations, introduction of new high yielding varieties, nutrient management, disease and pest management. Moreover, KVK, Jorhat is continuing its flagship

Jorhat

- Mr. Kalpa Ranjan Gogoi, DAO and i/c Joint Director, Jorhat
- Mr. Pradip Dutta,
 Divisional Officer,
 Soil conservation
 Div., Jorhat
- 7. Dr. Rajendra
 Prasad Shyam,
 Joint Director cum
 District Veterinary
 Officer, Jorhat
- 8. Mr. Bijoy Kr. Baruah, Principal, ETC, SIRD, Jorhat
- 9. Dr. Phool Chand Jat, Sr. Scientist (Agro), ZPD, Zone-III, Umiam, Barapani
- 10. Mr. Mayur Bora, AGM, NABARD, Jorhat
- 11. Mr. Suryya Kamal

and T &D breed are to be made available from the pig village of Allengmora area under TSP Project for pig rearing farmers of Allengmora and Majuli area of Jorhat District.

- 4. Project on goat to be started in Kaliapani area of Jorhat
- 5. Success stories of the farmers of Allengmora area to be published.
- 6. Training on weaving to be arranged for SHG of Hansara through College of Home Science, AAU, Jorhat
- 7. Internet connectivity to Rural Knowledge Centre, KVK, Jorhat to be made available.
- 8. As per suggestion of the Vice-Chancellor, AAU, Jorhat, eggs of Vanaraja from the TSP villages to be collected and hatched at AAU.
- 9. To file application for patenting of the low cost incubator that has been developed at KVK, Jorhat.
- 10. Construction of building for

produced 850 MT foundation seed of which 112 MT was brought back from the farmers. This year (2013), under the same programme, the KVK in participatory mood has demonstrated

- 2. Technology showcasing and FLD programme to increase the production and productivity of cereals in the district. Under Technology Showcasing programme, KVK, Jorhat sold 40 MT certified seed of Ranjit variety in the last year. This year, under the seed production programme, KVK, Jorhat has produced about 850 MT foundation seed of Ranjit variety covering an area of 170 ha. Further, realizing the importance of quality Toria seed and its requirement in Majuli, KVK, Jorhat had implemented technology showcasing programme for the production of Toria seed of variety TS-36,TS-38 and TS-46 continuously for last 3 years. Besides, Toria KVK, Jorhat has also under taken the technology showcasing programme on Pea and Garlic during Rabi 2012-13.
- 3. As per the of Hon'ble Vice Chancellor's suggestion on popularization of technologies for dry land agriculture in the dry areas, particularly during *rabi* season, KVK, Jorhat has initiatiated programmes like water management in rabi crops, conservation tillage, demonstrations on drip irrigation, use of triddle pump, introduction of less water requiring crops like *lathyrus* etc. KVK, Jorhat has also constructed several water harvesting tanks using 250µ LDPE plastic pond lining at Mariani. Under the a demonstration programme on "Multiple use of water", bunds were constructed to harvest the run of water from

- Bora, Assistant Project Officer, DRDA, Jorhat
- 12. Dr.(Mrs) Utpalla Goswami, Sr. Extension Specialist, DoEE, AAU, Jorhat
- 13. Dr. Mohan K.
 Sharma, Sr.
 Extension
 Specialist, DoEE,
 AAU, Jorhat
- 14. Dr. Jogesh Goswami, Sr. Extension Specialist, DoEE, AAU, Jorhat
- 15. Mr. Rajen Chandra Hazarika, Assistant Manager, DICC, Jorhat
- 16. Ms. Purabi Handique, Sericulture Inspector, O/o Asstt. Director of

- poultry brooding unit at KVK, Jorhat
- 11. To arrange a mega programme for creating awareness on PVP & FR during May,2014
- 12. The Hon'ble Vice-Chancellor, AAU, Jorhat will take up the matter on controlling pest & disease problem of Bhut Jolokia with Deptt. of Bio-Technology, AAU, Jorhat.
- 13. Introduction of new crop strawberry at KVK farm, Kaliapani
- 14. To arrange awareness programme on use of fertilizer and plant protection chemical.

- hilly streams and a model of Integrated Farming System comprising crop-fish-duck component was developed successfully.
- 4. Hon'ble Vice Chancellor, AAU, Jorhat also advised the State Department of Veterinary to develop a beetle farm for kid production. In this regard, KVK, Jorhat has introduced beetle buck and doe from GRS, Burnihut, for production of improved kids in KVK demonstration unit. Presently, farmers of adjacent villages of KVK, Jorhat have been benefited by crossing local goats with beetle buck under the breed upgradation programme. Recently, KVK, Jorhat also adopted the newly developed AI technology for goat. KVK in collaboration of the Veterinary Department has set up 3 AI centers in the district and providing AI service with Beetle buck semen. More than 200 AI has already been completed and the success rate is around 56%.
- 5. As per the Vice Chancellor's suggestion to popularize Pheromone Trap particularly against brinjal fruit and shoot borer steps has been initiated in farmers' fields of the district. Few FLDs has been conducted to popularize the pheromone trap technology among the farmers. The technology is also demonstrated in paddy field against rice stem borer.
- 6. As per the advice of Hon'ble Vice Chancellor, the riverine fisheries management can't be done through limited fund provision of KVK. However, several attempts has been made in homestead pond management so as to increase fish production.

- Sericulture, Jorhat
- 17. Mr. Dhanjit Das, Fishery Extension Officer, Deptt. Of Fishery, Jorhat
- 18. Mr. Biswajit Das, Programme Executive, AIR, Jorhat
- 19. Mr. Ranjan Kr.
 Bhattacharyya,
 Functional Manager,
 Representative of
 GM, DICC, Jorhat
- 20. Mr. Jayram Baruah, ACF, DFO office, Jorhat
- 21. Dr. R. Borgohain, Programme Coordinator, KVK, AAU, Jorhat
- 22. Mr. Atul Missong, Progressive Farmer, Allengmora
- 23. Mr. Rajib Morang, Progressive Farmer,

Hon'ble Vice Chancellor, AAU, Jorhat and then DEE, Dr. B.C. Bhowmick urged for spread of improved backyard poultry in Jorhat district. In this context, Krishi Vigyan Kendra, Jorhat has planned to introduce a new improved variety suitable for backyard poultry to replace existing low productive indigenous bird in the Kaliapani development block. KVK, Jorhat has selected Vanaraja, a dual purpose improved variety, developed by PDP, Hyderabad as a need based intervention for tackling the problem with indigenous bird and planned to conduct On Farm Trial and Front Line Demonstration in a village where backyard poultry rearing is a common practice. Further, KVK, Jorhat introduced the technology for mother unit development to supply one month old Vanaraja bird continuously in the area. Due to better result and return from Vanaraja poultry farming, beneficiaries are showing interest on self propagation of Vanaraja chicks through hatching traditionally with their own local hen and it is helping in horizontal transmission to other villages.

Again, under TSP programme on promotion of agriculture centric sustainable livelihood security for tribal farmers of Assam, a total of 2160 numbers of 1 month old Vanaraja birds will be supplied to a cluster of 10 tribal villages of the district to develop backyard poultry farming with improved variety.

8. Hon'ble Vice Chancellor, AAU, Jorhat also stressed on the concept of "Pig Village" and distribution of quality male pigs in community basis. After discussion with the

Dangdhora

- 24. Mrs. Anita Gogoi, Progressive Farm Women, Bamunpukhuri
- 25. Mrs. Nirala Kalita Hazarika, Progressive Farm Women, Kaliapani

Principal Scientist, Mega Seed Project on Pigs, AAU, Khanapara, KVK, Jorhat, have taken OFT on productive and reproductive performance of T&D pigs in Jorhat district. Initially, four first line beneficiaries from four different SHG of different villages of the district were selected and supplied both male and female piglets of T&D breeds for the purpose. It is insisted that the beneficiaries rearing the piglets are exclusively for breeding purpose. They are also advised to upgrade the local pigs of their own village by crossing with T&D boar. A memorandum of understanding was also made for introduction of Pass on Gift Scheme of the programme benefits from first line beneficiaries to another.

Further, under TSP programme on promotion of agriculture centric sustainable livelihood security for tribal farmers of Assam, 10 breeding unit in 10 different villages of tribal community will be developed to produce quality piglet for the development of pig farming in the district. Also, 90 pig fattening unit will be developed in the same tribal villages to meet the demand of pork and empower tribal farming community in the district. In this programme, KVK, Jorhat will again introduce the concept of ceremonial handling of project benefits from first line beneficiaries to other down line beneficiaries. Besides, need based training, breed and feed improvement, KVK, Jorhat have initiated the concept of disease management through community- based veterinary first aid services. To design this approach, help of the line deptt. will be taken.

9. As per the advice of then DEE, KVK, Jorhat has been

		actively communicating with line departments in the	ne
		mandatory activities of KVK, Jorhat.	

^{*} 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)

S. No	Farming system/enterprise	
1.	1. Agri – Horti – Animal husbandry – Fishery	
2.	Agri – Horti – Animal husbandry	
3. Agri – Horti – Fishery		
4. Agri – Horti		

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

S. No	Agro-climatic Zone	Characteristics
1.	Upper Brahmaputra Valley Zone	The Upper Brahmaputra Valley Agro-climatic Zone is characterized by the existence of hills, high land, plain land and char areas. Soils of this zone consist of mostly recent immature alluvium in char areas to mature ultisol in the piedmont, high land and hilly areas in the southern part. These soils fall under Entisol order. Annual rainfall varies from 1,200 mm to 2,400 mm. The temperature of the zone varies from a maximum of 37°C to a minimum of 7°C on an average. The zone, however, shows considerable variation in physiography, climate, soil, flood proneness, socioeconomic condition and cropping patters. Based on these parameters, the zone is further classified into eight Agro-Ecological Situations. Out of them six exist in the district and out of them two are related with forest and tea growing areas.

2.3 Soil type/s

S. No	Soil type	Characteristics	Area in ha
1.	Sandy	Contains sand separates 70% or more of the material by weight	15169
2.	Sandy loam	Exhibits property in between sandy and loam and contains more sand separates than loam	89070
3.	Loam	Contains a mixture of sand, silt and clay particles which exhibit light and heavy properties in about equal proportion	12491
4.	Silty clay loam	Contains more silt and clay than loam	23545
5.	Clay	Contains atleast 35% of clay separates and in most cases not less than 40%	12626

Source: Department of Agriculture, Jorhat

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

S. No.	Crop	Area (ha)	Production (Qtl)	Productivity (Qtl/ha)
1.	Autumn paddy	6450.00	161300.00	25.00
2.	Winter paddy	83100.00	2492900.00	30.00
3.	Summer paddy	2710.00	56600.00	20.94
4.	Wheat	520.00	600.00	12.00
5.	Black gram	2980.00	17900.00	6.00
6.	Green gram	2070.00	12400.00	6.00
7.	Pea	1050.00	6200.00	5.94
8.	Lentil	520.00	2700.00	5.20

9.	Mustard	9390.00	80000.00	8.50
10.	Sesamum	220.00	1100.00	5.20
11.	Potato	3110.00	298000.00	96.00
12.	Sugarcane	500.00	16700.00	33.75
13.	Ridge gourd	270.00	5000.00	18.20
14.	Pumpkin	610.00	30200.00	50.00
15.	Kharif vegetables	3600.00	310300.00	86.20
16.	Rabi vegetables	6500.00	429900.00	66.16
17.	Garlic	890.00	53400.00	60.00
18.	Ginger	150.00	7800.00	52.00
19.	Arecanut	3090.00	593200.00	192.00
20.	Banana	3400.00	519400.00	153.00
21.	Assam Lemon	920.00	106200.00	115.40

2.5. Weather data

Month	Rainfall (mm)	Temperature ⁰ C		Relative Humidity (%)
		Maximum	Minimum	
April'12	381.8	27.3	19.1	83
May'12	137.2	32.4	22.1	78
June'12	215.9	30.0	25.4	84
July'12			25.6	
	401.3	31.4		83
August'12	307.8	32.6	25.7	
				83
September'12	234.8	30.5	24.4	
				88

October'12	80.6	29.7	20.9	
				90
November'12	0.0	27.7	15.0	
				77
December'12	6.8	23.0	11.1	
				79
January'13	0.5	23.3	8.3	
				72
February'13	9.3	27.7	12.1	
				70
March'13	64.8	29.2	16.8	
				68

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

Category	Population	Production	Productivity
Cattle			
Crossbred	13126	57.70 million lit (Milk)	236 lit/ animal/lactation
Indigenous	474886		(Average)
Buffalo	29845	0.80 Million lit (Milk)	180 lt/lactation/period of average 120 days
Sheep			
Crossbred	-	-	-
Indigenous	330	-	-
Goats	170793	0.425 million kg (Meat)	8 kg/goat

Pigs			
Crossbred	85625	0.25 million kg (Pork)	55 kg./pig (Average)
Indigenous	202797		
Rabbits	-	-	-
Poultry		I	I
Hens			
Desi	444062	51.0 million nos	45 nos/ bird/yr (average)
Improved	12275		150 nos/ bird/ yr (average)
Ducks	190000		45 nos/ bird/yr (average)
Turkey and others			

Source: C-DAP Report 2009-10

		Source: C-DAT Report 2007-10				
Category	Area	Production	Productivity			
Fish						
Marine						
Inland	43553.49 ha	10468.68 t	0.24 t/ha			
Prawn						
Scampi						
Shrimp						

2.6 Details of Operational area / Villages (2013-14)

Sl. No.	Taluk	Name of the block	Name of the village	Major crops & enterprise s	Major problem identified	Identified thrust area
1	Teok	Kaliapani	Boloma Moran Gaon	Vegetable s	 Unawareness about scientific crop production Nematode infestation in cucurbitaceous vegetables Low participation of women in agriculture 	 ICM Processing and value addition Entrepreneurship development Women empowerment IPM
2	Kakojan	Sipahikho la	Fesual - II	Vegetable, Dairy, rice, fishery, duckery	Lack of scientific knowledge in crop production especially for vegetables Lack of organized milk market Lack of knowledge about management of group Lack of knowledge and skill on scientific fish rearing	 ICM and IPM on vegetables Group marketing Integrated livestock production and management Group mobilization Composite fish farming

3	Garmur	Kamalaba ri, Majuli	Mahkinagao n, Borbari gaon, Bhakat Chapori	Toria, vegetables , sugarcane, rice	1. Lack of HYV of rapeseed 2. Lack of awareness about water management 3. Unorganized market 4. Infestation of white grub in vegetable crops 5. Lack of knowledge about scientific cultivation of kharif pulse and oilseed	Introduction of newly released variety Integrated crop management IPM for vegetables Marketing
4	Lahing	Selenghat	Siram Missing gaon	Rice, piggery, poultry	 Low yield of local rice variety Lack of knowledge about cultivation practices of HYV Sali rice. Problem of water stagnation during planting period Poor growth of pig Incidence of diseases of poultry and pig Lack of knowledge of farm women about livestock management 	Introduction of HYV of sali rice ICM and IPM Integrated livestock management Harmonia in the sali rice Women empowerment
5	Teok	Sipahikho la	Bailunggao n	Vegetable s, rice, tea, poultry, fruits	 Lack of knowledge on management practices of vegetables Low production of fruits, especially banana Low performance of desi poultry birds 	 ICM and IPM of fruits and vegetables Integrated poultry farming Mobilization of CIG

6	Lahing	Selenghat	Changmaiga on, Adarsha gaon	Tea, goatery and poultry	 Non availability of scented Sali HYV Low production of local scented varieties 	1. Introduction of scented HYV of Sali rice
7	Lahing	Selenghat	Haloapathar	Rice, rabi Vegetable s, potato	 Lack of knowledge about scientific cultivation of high value vegetables Non availability of quality seeds and planting material 	ICM and IPM for high value vegetables Group mobilization Entrepreneurship development
8	Simalugur i	Kaliapani	Dhemajigao n	Rice, Banana, poultry	 Lack of commercial attitude towards banana cultivation Non availability of quality planting material Low yield of fruit crops High mortality of poultry 	 ICM of fruit crops Production of quality planting material of banana Group mobilization Integrated disease management of poultry
9	Teok	Kaliapani	Kaowimari	Rice, fishery, vegetable, livestock	 Monocropping Low yield of available rice varieties Lack of scientific knowledge about natural fish farming 	Group mobilization Wasteland utilization through boro rice cultivation and community fish farming
10	Lahing	Selenghat	Majkuri	Sali rice, vegetable, livestock	 High incidence of pests and diseases of vegetables Lack of knowledge on judicious application of pesticides Lack of knowledge on scientific cultivation of high value vegetables 	 ICM and IPM of vegetables Production of quality paddy seeds Popularization of high value vegetables

11	Teok	Kaliapani	Narrang pachanigaon	Banana	1. Low productivity, Water scarcity during winter	1. Introduction of integrated crop management
12	Simalugur i	Kaliapani	Kaliapani gohaingaon	Banana	1. Low productivity, Water scarcity during winter	1. Introduction of integrated crop management
13	Simalugur i	Kaliapani	Amtol	Black pepper	Lack of quality planting material Low yield	1. Production of quality planting material
14	Bebejia	Titabar	Bor era gaon, Mejenga Grant 1 & 2, Dakhin pat gaon, Silikha Sanatan gaon, Madhapur, Tipumia, Rajabari	Rice	1. Occurrence of severe draught	Water management of rice Rain water harvesting
15	Garumara	Dhekergar ah	Ganakbari	Vegetable s, rice	Lack of knowledge on water management practices	1. Water management
16	Meleng	Sipahikho la	Sudamoa gaon	Rice, vegetables	Low yield of rice Under-utilization of existing fallow lands	 Crop intensification ICM and IPM of rice Group mobilization

17	Mariani		Kheremiaga on, Danigaon, Bongaon, Bahonigaon, Newsonowa I missingaon	Winter and kharif vegegtable , Potato, rapeseed, black peper, banana, goatery, duckery, pine apple	 Low productivity of traditionl vaiety. Unawareness of scientific production technology Unscientific horticultural pocket. Under utilization of natural resources. 	 Organic vegetable and fruit production. Entrepreneurship development for rural youths and farm women. Integrated Nutrient Management. Increasing crop productivity through scientific management Introduction of improved bred of pig and poultry suitable for backyard rearing. Integrated Pest and Disease management in crop and vegetables.
18	Kamalaba	Majuli Developm ent Block	Mahkina gaon, Bhakat chapari, Danigaon, Borbarigaon , Gormur, Kamalabari, Gormur, Aauniati	Sali rice, rapeseed & mustard, rabi vegetables , potato, garlic, apiary piggery, fish production	 Low crop productivity Unawareness of scientific production technology Pest and disease incidence especially in vegetables Injudicious use of pesticides Traditional low productive pig, duck poultry production. Lack of management of natural depression for fish production 	 Integrated farming systems Entrepreneurship development for rural youths and farm women. Integrated Nutrient Management. Increasing crop productivity through scientific management Integrated livestock production and management Introduction improved bred of pig, duck and poultry suitable for backyard rearing. Integrated Pest and Disease management in crop and vegetables.

19	Fesual	Central Devevelo pment Block, Chipahikh ola	Fesual No-II goan, Fesual No-I gaon, Holongpara Gohaingaon , Karigaon, Jotokia, Hingipulia	Potato, kharif and rabi vegetables , ginger, banana, Assam lemon, fishery, Goatery, dairy Mushroo m	 Mono cropping Unorganised marketing of Milk, Kharif and Winte vegetable Water scarcity during winter season Lack of awareness about child care and nutrition Pest and disease incidence Injudicious use of chemical pesticides 	 Rain water harvesting Increasing crop productivity through scientific management Orgnanised marketing under group approach. Integrated pest and disease management Entrepreneurship development for rural youths Integrated farming systems Women empowerment
20	Ellengmor	Dhekorgo ra Developm ent Block	Namdeori, Upardeori, Bahfola, Koriamari,N eolgaon,Loli ti, Kolia, Dhudang, Malowkhat	Kharif & Rabi Vegetable s, Piggery, Poultry	 Low yielding variety Unawareness of scientific production technology Pest and disease incidence especially in vegetables Injudicious use of pesticides Traditional low productive pig, duck poultry production. Lack of management of natural depression for fish production 	 Integrated pest and disease management on vegetables Group marketing Integrated livestock production and management Integrated farming systems Introduction improved bred of pig, duck and poultry suitable for backyard rearing. Integrated Nutrient Management Production of quality piglets.

3. TECHNICAL ACHIEVEMENTS

3. A. Details of target and achievements of mandatory activities by KVK during 2013-14

Discipline	Ol	FT (Technology Ass	sessment and	Refinement)	FLD (Oilseeds, Pulses, Maize, Other Crops/Enterprises)					
	Nur	nber of OFTs	Num	Number of Farmers		Number of FLDs		ber of Farmers		
	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement		
Plant Breeding	4	4	12	12	2	2	2	2		
Horticulture	2	2	6	6	4	12	8	8		
Soil Science	2	2	6	6	1	1	2	2		
Plant Protection	4	4	12	12	2	2	6	6		
Fishery	2	2	6	6	3	3	9	9		
Animal Science	5	5	81	81	1	1	5	5		
Home Science	1	1	30	30	3	3	34	34		
Total	20	20	153	153	16	24	66	66		

Training (inc		ored, vocational a ainwater Harvest		ngs carried un	der Extension Activities				
		3			4				
Number of Courses Number of Parti					nnts Num	nber of activities	s Numb	er of participants	
Clientele	Targets	Achievement	Targets	Achieveme	nt Targets	Achievemen	t Targets	Achievement	
Farmers	47	47	1605	1733	10	7	400	401	
Rural youth	13	13	325	300	-	-	-	-	
Extn.	2	2	50	50	-	-	-	-	
Functionaries									
Total	62	62	1980	2083	10	7	400	401	
	Seed	d Production (ton	.)			Planting mate	erial (Nos. in lakh)	
		5					6		
Target Achievement					Target Achievement				
2.5 t		2.412	t		10000 nos		7000 nos		

3. B. Abstract of interventions undertaken during 2013-14

			Identified problems	Interventions							
Sl. No	Thrust area	Crop/ Enterprise		Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.		
1	Varietal performance	Sali paddy Variety Podumoni	Absence of long grained aromatic rice variety	Assessment of long grain paddy variety Podumoni	-		-	Field visit	Seeds, fertilizers		
2		Sali paddy Var. Swarna Sub-1	Recurrent flash floods	Assessment of paddy variety Swarna Sub-1	-	-	-	Field visit	Seeds, fertilizers		

3		Sali paddy Var.Mula Gabharu	Low yield of existing medium duration Sali varieties for double cropped areas	Assessment of paddy variety Mula Gabharu for double cropped areas	-	-	-	Field visit	Seeds, fertilizers
4		Indian Mustard var. PM-26	Non adoption of high yielding Indian Mustard variety in Jorhat district	Varietal evaluation of Indian Mustard var. PM-26	-	-	-	Field visit	Seeds, fertilizers, Pestcides
5		Toria variety TS-67/ JT-90- 1	Absence of high yielding toria variety under Sali rice-toria sequence (late sown condition)	-	Performance of Late sown toria variety TS-67/ JT- 90-1 under late sown condition	-	-	Field visit	Seeds, fertilizers, Pestcides
6	Integrated crop management	Yellow Sarson Var. Binoy	Non capitalization of higher yield of Yellow Sarson in Jorhat district	-	Large scale production performance and water management in Yellow Sarson	-	-	Field visit,Field day	Seeds, fertilizers, Pesticides

									33
7		Banana	Low yield and disease problem in local jahaji	-	Tissue culture banana var. Grand Naine	-	-	Field visit	Sucker, Fertilizer, Pesticides
8		Cabbage Var. Golden Acre	Indiscriminate use of chemical fertilizers & pesticides	Organic cultivation of cabbage	-	-	-	Field visit,	Seeds, biofertilize rs, rock phosphate, pestoneem
9	Intercropping	Tomato(Main) Knolkhol, Radish, Spinach(Interc rops)	Low economic return from sole crops per unit time and per unit area	Intercropping in tomato during normal season	-	-	-	Field visit	Seeds, fertilizers, pesticides
10	Commercial floriculture	Gerbera and Marigold	Lack of commercial floriculture venture	-	Commercial Gerbera and Marigold production with market link-up	Commercia l cultivation of Marigold and Gerbera	-	Field visit, training	Seeds, suckers, fertilizers, pesticides
11		Gladiolus	Lack of commercial floriculture venture	-	Commercial Gladiolus production with market link-up				

10	Onaleand	Mandarin	Torri		Daimes4'			Dia14:-2	Dantilinana
12	Orchard		Low	-	Rejuvenatio	-	-	Field visit,	Fertilizers,
	Rejuvenation	Khasi	production		n of Khasi			Popular	pesticides,
		Mandarin	from ill		Mandarin			article	lime
			managed		orchard				
			orchard						
13	Soil management	Chilli	Deterioration	Integrated	-	-	-	Field visit	Seeds,
			of soil health	Nutrient					biofertilize
			due to	Management in					rs,enriched
			injudicious	Chilli					compost
			application of						
			chemical						
			fertilizers						
14		Toria-Ahu rice	Higher	Biofertilizer	-	-	-	Field visit	Seeds,
		cropping	application of	seed treatment in					biofertilize
		sequence	chemical	Toria – Ahu rice					rs,
			fertilizers	Cropping					
			instead of	sequence					
			INM practices						
15	Soil amendment	Toria Var.	Lack of	-	Soil	Problem	-	Field visit,	Seeds,
			knowledge		amendment	soil of		training	lime
		TS-38			with lime	Assam and			
			About the		application	their			
			usefulness of		in Toria	reclamation			
			lime			with special			
			application			reference to			
			based on soil			lime			
			test report			application			

16	Integrated pest management	Brinjal	Heavy incidence of brinjal fruit and shoot borer, beetle and plant hopper	Integrated Pest Management in Brinjal	-	-	-	Field visit, article, radio talk	Seeds, Pheromone trap,lure
17		Tomato	Heavy incidence of fruit borer in tomato	Integrated Pest Management of Tomato fruit borer	-	-	-	Field visit,	Seed, fertilizer, pesticides
18		Bhoot Jalakia	Heavy incidence of leaf curl disease	Organic management of Leaf curl disease in Bhut jolokia	-	-	-	Field visit	Seeds, Plastic mulch
19	Stored grain pest	Black gram	High bruchid infestation in blackgram/ Greengram under storage	Management of stored grain pest in Blackgram/gree ngram	-	-	-	Field visit, popular article, radio talk	Black pepper, polythene bags, Gunny bags

	T	T	T		T	T		T	1 -
20	Beneficial	Mushroom	Lack of skill	-	Cultivation	Mushroom	-	Field	Spwan,
	organisms	Var,Oyster	in Mushroom		of Oyster	cultivation		daisity,	Polypropyl
			cultivation		Mushroom	for self		field v	ene bag,
						employmen			Plastic
						t			thread,
									Straw
21	Beneficial insect	Indian bee in	Lack of	-	Bee rearing	-	-	Field	Bee
		Toria	awareness of		in Toria			visit,Meth	colonies
		Cultivation	Scientific		cultivation			od	with hive
			rearing of bee		for self			demonstra	and stand
					Employment			tion	
22	Pond	Fishery	Low survival,	Carp seed	-	-	-	Field visit,	Fish seed,
	management		low yield of	rearing for					Feed,
			fingerlings in	production of					Fertilizer
			farmers	quality fish seed					
			nursery ponds						
23		Fishery	Use of pond	Poly culture of	-	-	-	Radio talk	Fish seed,
			benthic	Prawn (M.					Prawn,Ma
			ecosystem	rosenbergii) with					nure, feed
				IMC					
24	IFS Module	Rice/Fish	Non adoption	-	Integrated	Integrated	-	Field visit,	Fish seed,
			of the existing		Rice- Fish	rice-fish		training	rice seed,
			rice ecosystem		Farming	farming			Feed
			for fish culture						Fertilizer

25		Duck/Fish	Low adoption	-	Integrated	-	-	Field visit,	Ducklings,
			of existing		Duck- Fish			training	Fingerlings
			integrated fish		Farming				
			duck farming						
26	Feeding	Fishery	Low yield due	-	Sushma	-	-	Field day	Fish seed,,
	management		to poor quality		supplementa				Feed
			feed		ry feed in				Fertilizer
					composite				
					fish farming				
27	Breed	Poultry	Poor	Introduction of	-	-	_	Popular	DoFeed for
	introduction		production	egg type Kalinga				article	one month
			potential of	Brown for					, vaccine,
			indegeneous	backyard poultry					medicine
			birds	farming in rural					
				areas of Jorhat					
				district					
28		Pigs	Poor	Reproductive &	_	-	-	Popular	Piglets,
			production	productive				article,	Vaccine/
			potential of	performance of				diagnostic	Medicine
			local pigs	T&D pigs in				visits	
				Jorhat district					

					1			1	
29		Poultry	Poor production potential of indigenous non descript bird	Productive performance of 2 way (L X PB) and 3 way (L X PB X DR) developed by AAU under backyard system		-	-	Popular article, radio talk	Poultry
30	Breed Improvement	Goat	Problem of poor body weight gain of nondescript local goat	Up gradation of local goat through AI with Beetal buck semen	-	-	-	Popular article	AI facilities, Natural services facilities with Beetal Buck of KVK, Jorhat
31	Feeding management	Pig	Poor body weight gain of pre-weaned piglets	-	Creep feed consumption on performance of group housed weaning piglets	-	-	Popular article, diagnostic visits	Creep ration

32	Housing	Poultry	Low	Demonstration	-	-	-	M popular	Day old
	management		production in	on effect of				articleetho	chicks,
			scavenging	rearing system				d	feed,
			system	on productive				demonstra	vaccine,me
				performance of				tion,	dicine
				fast & slow					
				growing poultry					
33	Energy saving	Drudgery	Inappropriate	Introduction &	-	-	-	Method	Circular
	tools	reducing tools	farming tools	uses of Women				demonstra	blade
			for farm	friendly circular				tion	weeder,
			women	blade weeder,					hand fork
				handfork &					&
				improved garden					improved
				rake in farmers					garden
				community					rake
34	Nutritional	Vegetables	Improper	-	Nutritional	-	-	-	Labour
	Gardening		structure of		Gardening				cost,
			Kitchen		for Micro				vegetable
			garden		Nutrient				seeds,
					Supplementa				fertilizer
					tion				

35	Value addition	Local Ginger	Inadequate storage facility for longer duration	-	Production of Instant Ginger Candy	Preparation of instant ginger candy	-	Training	Ginger, Sugar, Preservativ es
36	Natural dyes	Marigold, Phutuki, Henna, Turmeric, Teak leaf, Annato	Harmful effect of synthetic dye and lack of awareness on utilization of valuable resources of natural dyes	-	Dyeing of cotton cloth with natural dyes extracted from locally available plant species	Dyeing of cotton fabric with Annato extracts	-	Training	Cotton, silk, wool, Fibre and fabric, mordant

3.1 Achievements on technologies assessed and refined during 2013-14

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	3	1	-	-	-	-	-	-	-	4
Seed / Plant production	-	-	-	-	-	-	-	-	-	-

Weed	-	-	-	-	-	-	-	-	-	-
Management										
Integrated Crop	-	-	-	-	2	-	-	-	-	2
Management										
Integrated	-	1	-	-	1	-	-	-	-	2
Nutrient										
Management										
Integrated	-	-	-	-	-	-	-	-	-	-
Farming										
System										
Mushroom	-	-	-	-	-	-	-	-	-	-
cultivation										
Drudgery					1					1
reduction										
Farm	-	-	-	-	-	-	-	-	-	-
machineries										
Value addition	-	-	-	-	-	-	-	-	-	-
Integrated Pest			1		2					3
Management										
Integrated	-	-	-	-	1	-	-	-	-	1
Disease										
Management										
Resource	-	-	-	-	-	-	-	-	-	-
			l .	l .		l	l		l	

conservation technology										
Small Scale income generating enterprises	-	-	-	-	-	-	-	-	-	1
TOTAL	3	2	1	-	7	-	-	-	-	13

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

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

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										

	1	1	I	I	1	I	13
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
Breed introduction	-	2	-	-	1	-	-	3
Breed improvement	-	-	-	1	-	-	-	1
Housing management	-	1	-	-	-	-	-	1
Nutrition Management	-	-	-	-	-	-	-	-
Disease of Management	-	-	-	-	-	-	-	-
Value Addition	-	-	-	-	-	-	-	-
Production and Management	-	-	-	-	-	-	2	2
Feed and Fodder	-	-	-	-	-	-	-	-
Small Scale income generating enterprises	-	-	-	-	-	-	-	-
TOTAL	-	3	-	1	1	-	2	7

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

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								

11). Results of On Farm Testing

Title of OFT	Problem Diagnosed	Technology Assessed	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 plicable)
Assess ment of long grain paddy variet y Podu moni	Absence of long grained aromatic rice variety	Long grain paddy variety Podumoni	2	S1. No. 1 2 3 4 5 6 7 8. 9.	Parameters Date of sow/ transplanting Land situation Flood stress Plant height Effective tiller no. Days to maturity Yield Check yield (Kola John Net return(Rs) B.C Ratio	01.0 line) Low Recuto ea 123 10.5 210 3.27 na) Dam	o4.201 v land curring arly S cm days 7 t/ha	l due to flood		Location-II (Bamunpukhuri) 05.07.2013 (Transplanted) Low land, flood free Nil 107 cm 12 150 days 3.56 t/ha 2.12 t/ha 41960.00 2.7

Assess	Recurrent flash floods	Sali paddy	3	Sl. No.	Parameters	Mudoijan	Kaliapani	Dangdhara
ment of paddy	Hash Hoods	Var. Swarna Sub-1		1	Date of transplanting	05.08.2013	20.06.2013	20.07.1013
variet y		Suo-1		2	Area	2 bigha	6 bigha	3 bigha
Swarn a Sub-				3	Land situation	Low land	Medium land	Medium land
1				4	Flood stress	Recurring flood (4 nos)	Flash flood (2 no)	Flash flood (nil)
				5	Plant height	87.5 cm	95.25 cm	97.26 cm
				6	Effective tiller no.	12	10	14
				7	Days to maturity	140 days	141 days	145 days
				8	Yield	2.7 t/ha	3.15 t/ha	3.52 t/ ha
				9	Net return(Rs)	12000.00	16500.00	20200.00
				10	B.C Ratio	0.8	1.1	1.3
				11	Pest & disease	Heavy Hispa po	l pulation build up a	at later state (Maturity

Assess	Low yield of	Sali paddy	3	Sl.No	Parameters	Mulagabharu	Bihari (Local Check)
of paddy	existing medium duration Sali	Var.Mula Gabharu		1	Date of transplanting	2 nd July'2013	5 th July 2013
variet	varieties for			2	Land situation	Medium land	-do-
y Mula	double cropped areas			4	Plant height	103.5 cm	120cm
Gabha ru for				5	Effective tiller no.	8.3	6.5
double				6	Days to flowering	100- 105 days	110days
d croppe				6	Days to maturity	135 days	136 days
areas				7	Yield	3.7 t/ha	2.65t/ha
				8.	Net return	22000.00	11500.00
				9	B.C Ratio	1.4	0.76

Variet al evalua tion of Indian Musta rd var.	Non adoption of high yielding Indian Mustard variety in Jorhat district	Indian Mustard var. PM-26	3	S1 N o.	Parame ters	PM -25	helia, S PM -28	Sipahik TM - 106	TS- 36	Kako PM -25	PM -28	Majul TM - 106	i TS- 36	Remarks
PM- 26				1	Date of sowing	20.11	.13		ı	15.11	.13	ı		There was no rain during entire grain
				2	Plant height (cm)	136	132	142	50	142	141	152	61. 00	stage
				3	Days to maturit y	110	112	117	101	114	110	121	107	
				4	Yield q/ha	6.8 7	7.5 0	7.1	6.2	7.2	7.8 5	7.0	6.5	
				5	Net return(Rs	136 10	155 00	143 60	116 00	-	165 50	-	-	
				6	B.C Ratio	1.9 4	2.2	2.0	1.6 5	-	2.3	-	-	
							1	•	•	•		•		<u>, </u>

Organ	Indiscriminat	Azotobacter	3					
ic	e use of	7.5g + PSB		Sl. No.	Parameters	Organic	Farmers practice	
cultiva	chemical	7.5g for				cultivation		
tion of	fertilizers &	treatment of		1	Number of Wrapper leaves	35.50	28.50	
cabba ge	pesticides	100g seeds, FYM 10t/ha		2	Head compactness (Z=c/w³ x 100)	29.20(%)	22.00(%)	
Var.		, Rock			Z= compactness index C=Net weight of head			
Golde		phosphate			W= Average of polar and			
n Acre		375kg/ha			lateral diameter			
		and mustard		3	Viold (t/ha)	22.50 (+)	14.00 (+)	
		as trap crop		3	Yield (t/ha)	23.50 (t)	14.00 (t)	
				4	Net return	Rs. 1,48000.00	Rs. 43000.00	
				5	B:C	3.54:1	1.56:1	

		3					
economic	in crop)		SI No	Cron	Parameters	Result	
	*		51. 110	Сюр	1 drameters		Farmers
	*		1	Tomato	Wt of fruit/plant		1.3 kg
	•				-	1.4 cm	1.4 cm
per unit area	ercrops)				Yield t/ha	35 t/ha	36t/ha
			2	D 1: 1	T 41 C 4 ()	27.5	
			2	Radish			-
					•	300 gm	-
					Yield t/ha	19.8 t/ha	-
			3	Knolkhol	Wt of knob/plant	200 gm	-
					Yield t/ha	13.2 t/ha	-
			4	Spinach beet	Wt of leaves (t/ha)	22 t/ha	-
			5		Net return	Rs. 660000.00	Rs. 292000.00
			6		B:C	5.6	4.2
s	eturn from ole crops per init time and per unit area	eturn from Knolkhol, ole crops per Radish, init time and Spinach(Int	eturn from Knolkhol, ole crops per Radish, unit time and Spinach(Int	eturn from ole crops per init time and per unit area Knolkhol, Radish, Spinach(Int ercrops) Sl. No 2 3 4 5	eturn from ole crops per init time and per unit area Knolkhol, Radish, Spinach(Int ercrops) Sl. No Crop Tomato Radish Radish Spinach(Int ercrops) Radish Spinach(Int ercrops) Radish Spinach(Int ercrops) Radish Spinach(Int ercrops)	eturn from ole crops per init time and per unit area Knolkhol, Radish, Spinach(Int ercrops) SI. No Crop Parameters Wt of fruit/plant Plant height (cm) Yield t/ha Radish Length of root (cm) Wt of root/plant Yield t/ha Knolkhol, Radish, Spinach(Int ercrops) Radish Length of root (cm) Wt of root/plant Yield t/ha Spinach beet Wt of leaves (t/ha) Net return	eturn from ole crops per unit area Knolkhol, Radish, Spinach(Int ercrops) SI. No Crop Parameters Result Technology Wt of fruit/plant Plant height (cm) Yield t/ha 1.2 kg Plant height (cm) Yield t/ha 2 Radish Length of root (cm) Yield t/ha 19.8 t/ha 3 Knolkhol Wt of knob/plant Yield t/ha 13.2 t/ha 4 Spinach beet Wt of leaves (t/ha) Result Technology Wt of fruit/plant 1.2 kg Plant height (cm) Yield t/ha 19.8 t/ha Net return Rs. 660000.00

Integr	Deterioration	T1: Bio-	3											
ated	of soil health	fertilizer		S1.	Parameters	Technology	Farmers practice							
Nutrie	due to	incubated		No.			Same Paragraph							
nt	injudicious	(15 days)		1	Fruit length and girth	Crop is in flowering	Crop is in flowering							
Mana	application of	Azospirillu		2	Days to 50% flowering	stage	stage							
gemen	chemical	m, Azotobacter		3	Insect pest & disease]								
t in	fertilizers	& PSB @ 1			infestation									
Chilli	Tertifizers	% on dry wt. basis +	% on dry wt. basis +	% on dry wt. basis +		4	Gren chilli production/							
Cililii					wt. basis +			unit area						
													Vermicomp	
		ost 1 t/ha is												
		to be mixed												
		with 50 %												
		RD of												
		fertilizer &												
		to be												
		applied in												
		two equal												
		split at												
		planting and 30 DAP.												
		T2:												
		Application												
		of bio-												
		fertilizer												
		incubated												
		vermicomp												
		ost + 50%												
		RD of												
		fertilizer												

Biofer	Higher	Treatment	3	Sl	Parameters	Technology	Farmers practice
tilizer	application of	of Toria					
seed	chemical	Seed with		N			
treatm	fertilizers	bio-		0.	C. '1	(II 4 0 C A	1.
ent in	instead of	fertilizer		1	Soil properties	(pH-4.96, Av.	do
Toria	INM	Azotobacter			before	N-367 kg/ha,	59
– Ahu	practices	& PSB			incorporation of	Av.P ₂ O ₅ -17.6	
rice		@40g/kg			fertilizer & bio-	kg/ha, Av.	98
Cropp		seed before			fertilizer	K ₂ O-99.32	6
ing		sowing +		2	Days to 50 %	56	
seque		Application			flowering		6.9 q/ha
nce		of		3	Average plant	112	
		FYM/comp		3	height	112	-
		ost @ 2-3					
		t/ha + full		4	Primary Branches/plant	9	
		dose of RD			branches/prant		
		of fertilizer.					
		After		5	Yield of Toria/ha	8.8q/ha	
		harvest of					
		Toria, Ahu					
		rice will be					
		cultivated in					
		the same					
		plot with					
		RD of					
		fertilizer but					
		without bio-					
		fertilizer					

6	Soil properties after harvest of crop	To be analysed		
	Next in the sequence Ahu rice	Tillering stage	-	

Integr ated Pest Mana gemen t in Brinja 1	Heavy incidence of brinjal fruit and shoot borer, beetle and plant hopper	IPM (5 pheromon traps/ha+ Application of Neem based pesticide at 7 days interval after 30 days of planting) + Application of Trichogram ma chilonis @ 1,50000/ ha	3	S1. No. 1 2 3 4 5 6 7	Parameters No of trapped insects/day Percent infestation of shoot/5 m² Percent infestation of fruit/5 m² area Yield Net Return Farmers reaction B:C	Technology 6.6 20 % 1% 20 t/ha Rs.160000.00 Very much satisfied 4	Farmers practice Nil 95 % 53% 12 t/ha Rs. 80000.00 - 2.5
Integr ated Pest Mana gemen t of Tomat o fruit borer	Heavy incidence of fruit borer in tomato	IPM: 1. Planting of African marigold as trap crop 2. Seed treatment with Imidaclopri d @ 3 gm/kg of seed 3. Release of	3	S1. No. 1 2	Parameters Date of planting Percent incidence of insects/5 m ² area At 15 days interval Percent infestation of fruit/5 m ² area at 15 days interval	02.01.2014 0 Upto 3 rd month : U Nil N	Farmers practice 12.01.2014 Upto 3 rd month: Nil 14%

		Trichogram a chilonis @ 50000 eggs/ ha at 7 days		4	Percent incidence of insects and disease	•	Nil, Coccoobserved	enelids	Leaf eating caterpillar : 0.5% Leaf miner :1%
		interval 4. Spraying of neem		5	Yield		21t/ha	0.00	15t/ha
I		based		6	Net Return		Rs.26000	0.00	Rs. 160000.00
		pesticides at 7 days interval from 30 days after planting		7	Farmers reaction		-		-
Organ ic	Heavy incidence of	1.Applicatio n of	3						
manag	leaf curl disease	Trichoderm a in soil		Sl. No.	Parameters	Technology		Farmers p	ractice
ement of	disease	thrice,		1	1. No. of curled	0.8		13.8	
Leaf curl		-At the time of land		2	2. Percent incidence of	1.2%		9 %	
diseas		preparation -At Two days before		3	3. Percent incidence of any	Aphid incidence Coccenelids obs		Aphid inc	idence : 43%
e in Bhut joloki		planting -At 30 days		4	4. No. of trapped insect per card	0.4		- No ne odot	O45
a		after planting 2.Applicatio n of Neem		5	4. Yield	4 t/ha		4.5 t/ha	

l	based	6	Net return	Rs.7,30,000.00)	Rs.4,90,000.00)
l I	pesticides at				
7	7 days			Mulch reduced labour	Price of inorganic jolokia @Rs
i	interval at			cost and prie of organic	120/kg
3	30 days			jolokia @Rs200/kg	
a	after			J	
	planting				
	3.Use of	7	B : C	10.42	9.8
J 3	yellow				
s	sticky				
	card/trap @	8	Farmers reaction	Satisfied	-
	5 nos/bigha				
	30 days				
a	after				
l I	planting				

Mana	High bruchid	Application	3					
gemen	infestation in	of Black			Т			
t of	blackgram/	pepper		Sl. No.	Paramet	ers	Technology	Farmers practice
stored grain	Greengram under storage	powder @3gm/kg		1		infestation at interval during	Nil	5%
pest in Black gram/	under storage	of seed followed by bagging in		2 2nd mor			Nil	20%
greeng ram		poly bag		3 3rd mon		th	Nil	32%
		with gunny		4 4th mont		th	Nil	48%
		bags		5	5th mon	th	Nil	57%
				6	6th mon	th	Nil (No secondary	y 85% (Secondary
							infestation	infestation observed)
				7	Germina	tion %	80-85%	2%
Carp seed	Low survival, low yield of	1.Quality fish seed	3					
rearin	fingerlings in	(Carry-over		Sl. No	Э.	Parameters		Result
g for	farmers	seed 2.Spawn		1		Avg. Survival		35%
produ	nursery	no-		2		Length= 10.15		10.15 cm(Avg)
ction of	ponds	1lakh/katha		3		Weight		25gm(avg)
qualit				4		Net return /bigha		Rs 1,25,000
y fish seed				5		B:C		2.5

				6	Farmers reaction		Satisfied	
Poly cultur e of Prawn (M. rosenb ergii) with	Use of pond benthic ecosystem	1.Freshwate r prawn (M. rosenbergii) 2.Spawn size PL-20, 3.Spawn no- 1lakh/katha	3	S1. No. 1 2 3	Parameters Avg Survival Length Weight Net return	Result 50% 10.15cm 30 gm(av	(avg)	
IMC								

Introd	Poor	Kalinga	1					
uction	production	Brown	(Replic	C1 N	D .	T	D 1	
of egg	potential of		ation=	Sl. No.	Parameters		Result	
type	indegeneous		5)	1	Body weight	Age (Month)	Intensive	Backyard
Kaling	birds					2 4	1.00 (1.1)	0.00 (1/1)
a						2 month	1.09 (M) 1.10 (F)	0.90 (M) 0.65 (F)
Brown							1.10 (1)	0.03 (1)
for						5 month	2.125 (M)	1.55(M)
backy							1.43 (F)	1. 05 (F)
ard				2	Age at first	149 days (Intensive)	` ,	` ,
poultr					egg	167 days (Backyard)		
у				3	Egg weight	33 g (First Egg		
farmin						47 g (3 rd month of lay)		
g in				4	Egg	Contd.		
rural				4	production	Contu.		
areas					production			
of								
Jorhat								
distric								
t								
Repro	Poor	T&D pigs	1					
ductiv	production		(Replic					
e &	potential of		ation=					
produ	local pigs		4)					
ctive								
perfor								
mance								

of T&D pigs in Jorhat distric t				Sl. No. 1	Body w 5 th mont 8 month 12mont Age at s Litter si Body w At birth Body w At birth	Pig reight (T&D): th- 48 Kg n – 72 Kg h- 118 Kg sexual maturity ze- 6.8 (First 1 reight of piglet 1 – 1.05 Kg reight of piglet 1 – 1.05 Kg reight of piglet	y- 7month actation) -	Local Pig Local : 25 Kg 45 Kg 74 Kg 9 month	
Productive performance of 2 way (L X PB) and 3	Poor production potential of indigenous non descript bird	1.Indigenou s X Punjab Broiler 2.Indigenou s X PB X Dahlem Red	1 (Replic ation= 2)	Sl. No.	Parameters Body weight	Age (Month) 2 month 3 month	Re 2 Way 1.30 (M) 0.950 (F) 1.65 (M) 0.980 (F)	3 Way 0.950 (M) 0.680 (F) 1.25 (M) 0.85 (F)	
way (L X PB X DR) develo				3	Age at first egg Egg weight	165 days (3 v No egg produ 27 g (First Eg 38 g (2nd mo	uction till 180 day	/S	
ped by AAU under				4	Egg production	Contd.			

backy ard syste						
Up gradat ion of local goat throug h AI with Beetal buck semen	Problem of poor body weight gain of nondescript local goat	AI with Beetal buck semen	120	SI. No. 1 2 3 4	Parameters Conception rate Nos. of kid Body weight at birth and 3 month Farmers reaction	Result Conception rate- 58 % Nos. of Kid – 1 (75%) – 2 (25%) Body weight at birth- 1.05 -1.18 Kg Satisfied
Demo nstrati on on effect of rearin g syste m on produ ctive perfor mance	Low production in scavenging system	Intensive rearing system + Balanced feed ration	1 (Replic ation= 5)			

of fast & slow												
growi ng poultr			Sl. No.	Param eters	Result							
у			1	Body weigh t gain		plication: veight at						
				FCR	Vari ety	Body Weigh t (Kg)	Avg. Feed intak e (Kg)	FCR	Cost of producti on/Kg	Mark et rate (Rs.)	Profit per Kg live Wt	Profit per bird
					Broil er	2.15	3.9	1.85	77.25	100.0	22.75	49.00
					Van araja	1.40	3.0	2.2	97.60	150.0	52.40	73.00
					Indi geno us	0.65	1.6	2.53	137.5	250.0	112.5	56.00
Introd uction & uses	Inappropriate farming tools for farm	Circular blade weeder	i.Circu	lar weed	er = Con	venient fo	or weed	ing in (comparison	to Khur	pi	
of Wome n friendl	women	Handfork & improved garden rake	Weeding Index = 85 Heart rate = 129.6 (Avg)									

circula r blade weede r, handf ork & impro ved garden rake in farmer s comm unity	 ii. Hand fork = Convenient for final bed preparation, earthling up and harvesting (tuber, roots, bulb and corm) in comparison to Khurpi & spade iii. Garden rake= Convenient to collect weeds Postural stress and severity of pain in various body parts was reduced by adopting new technology.
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^{*}Field crops – kg/ha, * for horticultural crops -= kg/t/ha, * milk and meat – litres or kg/animal, * for mushroom and vermi compost kg/unit area.

3.2 Achievements of Frontline Demonstrations during 2013-14

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

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

List of technologies demonstrated during previous year and popularized during 2013-14 and recommended for large scale adoption in the district

Sl. No	Crop/ Enterprise	Technology demonstrated	Horizontal spread of technology						
			No. of villages	No. of farmers	Area in ha				
1	Toria	Performance of Late sown toria variety TS-67/ JT-90-1 under late sown condition	2	2	2 ha				
2	Yellow Sarson	Large scale production performance and water management in Yellow Sarson Var. Binoy	2	2	2 ha				
3	Marigold ,Gerbera	Pusa Narangi and Red Gem	2	2	0.1ha				
4	Gladiolus	Novalux	1	1	0.05ha				
5	Mandarin	Khasi Mandarin	1	1	0.2ha				
6	Tissue culture banana	Var. Grade Naine	2						
7	Toria	TS-38	2	2	1ha				

7	Mushroom	Oyster	3	30	3 units of 15 nos. of Mushroo bed capacity
8	Indian bee in Toria Cultivation	Indian bee- Apis cerena	2	10	2 ha
9	IFS (Rice-Fish)	Rice –Ranjit Fish- Indian carp	3	3	0.39 ha
10	Fishery	Sushama feed	3	3	0.39 ha
11	IFS (Duck- Fish)	Khaki campbel, Indian carp	3	3	0.39 ha
12	Piggery	Creep feeding in Cross bred piglets	5	5	5 Unit (50 piglets)
13	Nutritional Gardening	Year round	1	1	0.06 ha
14	Value addition	Local Ginger	3	3	3 units

15	Natural dye	Natural dyes	3	3	3 SHGs
		(Marigold, Phutuki, Henna, Turmeric, Teak leaf, Annato)			

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

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

1. Oilseeds:

					Area (ha)		No. of farmers/ demonstration			Reasons for	Farming situation (Rf/		tus soil g/h	
SI. No	Crop	Thematic area	Technology Demonstrat ed	Season and year						shortfall in achieveme nt	Irrigated, Soil type, altitude, etc)	N	P	K
					Propose	Actua	SC/S	Other	Tota					-
					d	1	Т	S	1					
1	Toria	Varietal	Late sown	Rabi	2 ha	2	1	1	2	-	Rainfe			
		performan	toria variety	,		ha					d,			
			TS-67/ JT-	2013							Sandy			

		се	90-1 under late sown condition	-14							loam	
2	Yello w Sarso n	Water manageme nt	Var. Binoy	Rabi , 2013 -14	2 ha	2 ha	1	1	2	-	Rainfe d, Sandy loam	
3	Toria	INM	TS-38	Rabi, 2013- 14	1ha	1 ha	2	-	2	-	Rainfe d, Sandy loam	

Performance of FLD

			Yield	Data on	Economi	c Impact	Technical	Farmers' Reaction on
S1.			of	parameter in			Feedback on	specific Technologies
	Crop	Demo. Yield Qtl/ha	local	relation to	Average Net	B.C. Ratio	the	
No.				technology	Return (Profit)		Demonstrated	
			Check	demonstrated	(Rs./ha)		Technology	

					Qtl./ha	Dise inciden	(Yield, Disease incidence, etc. as specified in		Local Check	Demo	Local Check		
						FL	FLD Programme)						
		Н	L	A		Demo	Local						
1	2	7	8	9	10	12	13						
1	Toria	8.10	7.50	7.8	7.0	7.8	7.0	13900	12000	1.7	1.25	Accepted	Satisfied
	JT-90- 1					q/ha	q/ha						
2	Yellow sarson	9.25	8.10	8.33	6.80	8.33	6.80	14000	12000	2.4	1.15	Accepted	Satisfied
3	Var. TS-38	10.8	9.0	9.9	7.2 (M-27)	9.9	7.2	20400	13000	1.43	1.1	Accepted	Satisfied

NB: Attach few good action photographs with title at the back with pencil

2. Horticultural crops :

										Reasons for shortfall in achievement	Farming situation	:	itus soil	
S1.	Crop	Thematic area	Technology Demonstrated	Season and year	Area	ı (ha)	No. of f	armers/ nonstratio	on		(Rf/ Irrigated, Soil type, altitude, etc)	N P k		a) K
					Proposed	Actual	SC/ST	Others	Total					
1	Marigold ,Gerbera	Commercial floriculture	Pusa Narangi and Red Gem	Winter	0.1ha	0.1ha	1	1-	2	-	Rainfed, Sandy loam			
2	Gladiolus	Commercial floriculture	Novalux	Winter	0.05ha	0.05ha	-	1	1	-	Rainfed, Sandy Ioam			
3	Mandarin	Orchard	Khasi	Year	0.2ha	0.2ha	1	-	1	-	Rainfed, Sandy			

Rejuvenation	Mandarin	round			loam	

S1.	Crop	Demo. Yield Qtl/ha	Yield	Data on	Economic Impact	Technical	Farmer

4	Banana	Tissue	var. Grand	Year	0.13	0.13	1	1	2	-		
		culture	Naine	round	ha	ha						
		banana var.										
		Grand Naine										

No.					of local Check Qtl./ha	parame relation technologies demons (Yield, I incidend as speci	on to blogy strated Disease ce, etc.	Average N (Profit) ((Rs./ha)	B.C. H		Feedback on the Demonstrated Technology	s' Reactio n on specifi c Techno logies
						FL Progra	mme)	Demo	Local Check	Demo	Local Chec k		
		H	L	A		Demo	Local						
1	2	7	8	9	10	12	13						
1	Marigold var,Pusa Narangi	55.6	50.5	53.05	45	53.05	45	121000.00	92000.00	3.0	2.42	Accepted	Satisfie d
	Gerbera var. Red Gem	15lak h flowe rs	14.99 5 lakh flowe rs	14.999 lakh flower s				3616652.00	-	4.09	-		
2	Gladiolus var. Novalux	6300 0 spike s	5800 0 spike s	60500 spikes	-	60500 spikes	-	1149500.00	-	3.28	-	Accepted	Satisfie Satisfie d

3													In
	Mandarin												Progres
	Orange												S
	var. Khasi												
	Mandarin	-	_	-	-	-	-						
								-	-	-	-	-	
	Tissue							-	-	_	_	-	In
1	culture												Progres
4	banana	-	-	-	_	-	-						s
	var. Grand												
	Naine												

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1	Field days	3	13.12.2013	50	1.Field day on Mushroom cultivation,
			21.02.2014	50	·
			31.03.2014	100	2. Water management in Toria var, Binoy,
					3.demonstration on effect of creep feed consumption on

				performance of piglets.
2	Farmers Training	03.09.2013	25	1.Commercial cultivation of Marigold and <i>Gerbera</i>
		03-05 Oct,2013	25	2. Mushroom cultivation for self employment
		06.09.2013	23	3. Preparation of instant ginger candy
		27.11.2013	25	4. Dyeing of cotton fabric with Annato extracts
3	Media coverage 3	-	-	-
4	Training for extension -	10.01.2014	25	1.Scientific cultivation and
	functionaries	21.03.2014	25	post harvest management of ginger
				2.Management in farm animals (Poultry Disease Mgt)

c. Details of FLD on Enterprises

(i) Farm Implements : NIL

Name of the implement	crop	No. of farmers	Area (ha)	Performance parameters /	* Data on par relation to te demonst	chnology	% change in the parameter	Remarks
implement				indicators	Demon.	Local check		

^{*} Field efficiency, labour saving etc.

(ii) Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Performance parameters / indicators	relation to	check	% change in the parameter	Remarks
Piggery	Creep feeding in Cross bred piglets	5	50 piglets	Birth weight Feed intake Body weight at weaning (at 42 days) Mortality	980 g 2.4 Kg 8.2 Kg Not recorded	980 g - 4.5 Kg 10%	54.87	-

Integrated Rice- Fish Farming	Rice –Ranjit Fish- Indian	3	-	Yield	29 q/ha (Rice) 8.6 q/ha	23 q/ha (Rice)	26 %	Average net return/ha = Rs. 93300.00
	carp				(Fish)	5.0q/ha (Fish)	72%	B:C = 2.6
Sushma supplementary feed in composite fish farming	Sushma feed	3	-	Yield	30.5 q/ha	18.0 q/ha	69%	Average net return = Rs. 310000.00 B:C = 2.8
Integrated Duck- Fish Farming	Khaki campbel, Indian carp	3		Yield	28.5 q/ha	18 q/ha	58%	Average net return = Rs. 212000.00 B:C = 1.6

^{*} Milk production, meat production, egg production, reduction in disease incidence etc.

(iii) Other Enterprises

Enterprise	Variety/ breed/Species/others	No. of farmers	No. of Units	Performance parameters / indicators	Data on parar relation to technology demonstration.	hnology	% change in the param eter	Remarks
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			3	1.Avg. Yield per Mushroom bed (kg) 2. No. of picking/ bed 3. Net return	Sajorcaju - 2.3 kg Ostrietus- 2.8 kg 4 times Rs. 180.00 (Sajorcaju) Rs. 230.00 (Ostrietus)		
Mushroom	Oyster (Sajorcaju & Ostrietus)	30		4. B:C ratio	4.6 (Ostrietus) 3.6 (Sajorcaju)	-	-
				5.Farmers Reaction	Income generating enterprise with low cost and labour		

			10 coloni	1Yield of toria (Qt/Ha)-	8 q/ha			Average net return from	
			es in 2 ha					Toria/ha = Rs. 22000.00	
					2. Days to 1st extraction of Honey-	45 days after placing colonies	6.5 q/ha	23.07	Average net return from Honey/ha = Rs. 1825.00
				3. Average yield per colony (kg) in	1.2 (Total yield/ha = 1.2 x 5 = 6 kg)			Cumulative Net return/ha = Rs. 23825.0	
Apiary	Indian bee- <i>Apis</i>	10		1st extraction-				B:C = 2.1	
	cerena			4. Average yield per colony (kg) in 2nd extraction	0.75 kg 10 days after 1st extraction (Total yield/ha 0.75 x 5= 3.75kg) Total honey prodn./ Ha = 9.75 kg			(Rs 1100/ box (consdering 5 years life span of a bee box @100x5 = Rs 500/ ha and colony @Rs. 600/ha in a single year)	
								600/ha in a single year	

Sericulture				
Vermi compost				

FLDs on Home Science

Enterprise No	o of farmers	No. of Units	Performance parameters / indicators	Data on parameter in relation to technology demonstrated	Remarks
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			1.Awareness 2.	Members of 3 SHGs became aware about the Consuming seasonal and	Vegetable nutrition Particula	nal gard		onths wit	
Nutritional Garden	1	1	Consumption	green leafy vegetables continuously from 6 months					
			3.Farmers reaction	Farmers accepted the technology	Before intervent ion	125	75	5	195
					After intervent ion	400	0	15 10 (sale	375
					Change	275	-75	20	180

Production of Instant Ginger Candy	30	3	1.Brix 2. ph 3. Taste 4. Farmers reaction	40°-75° brix - 4 Characteristic taste of commercial candy ginger Farmers accepted the technology. There is a possibility of good marketable product.	Stora ge perio d (day) 0 30 60	Colou r Good Good Good	Flav our Plea sant Plea sant Plea sant	 Rem arks Stick y, Acce ptabl e
							sant	

Natural dyes Merigold, Phutuki, Henna, Turmeric, Teak leaf, jasmine	30	3	Color intensity Color fastness Resistance to moth Farmer's reaction	Samples showed good intensity with mordant (Alum (Potassium Aluminium Sulfate), Copper Sulfate, Vinegar, Ammonia) than plain dye The treated samples showed excellent colour fastness properties. After preserving upto 10 months, the samples did not showed any colour fading maintaining the original texture (after 2 washes). The samples were found to be resistant to common moths and microorganisms. Farmers well accepted the technology Farmers are interested for commercial production of dye powder from natural sources
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3.4. Achievements on Training both On and Off Campus (Including the sponsored, vocational, FLD and trainings under Rainwater Harvesting Unit):

	No.	of co	ourses									Pa	artici	pant	s							
Thematic						Otl	ners					SC	/ST					To	otal			Gran d
area	O n	Of f	Tot al	M	ale	Fen	nale	To	tal	M	ale	Fen	nale	To	tal	M	ale	Fe	male	To	otal	Total
	11	1	aı	O n	Of f	O n	Of f	O n	Of f	O n	Of f	O n	Of f	O n	Of f	O n	Of f	O n	Off	O n	Of f	
(A) FARMER	S &]	FAR	M WO	MEN	<u> </u>								<u> </u>		<u> </u>	<u> </u>						
I. Crop Produ	ction	ļ																				
Weed Management																						
Resource Conservation Technologies	1	-	1	90	-	-	-	90		-	-	10	_	10		90	-	10	-	10 0	-	100
Cropping Systems																						
Crop	1	-	1	51	-	19	-	70	-	29	-	-	-	29	-	80	-	19	-	99	-	99

Diversificatio n																						
Integrated Farming	-	1	1	-	50	-	-	-	50	-	50	-	-		50	-	10 0	-	-	-	10 0	100
Water management																						
Seed production	-	2	2	-	5	-	-	-	5	-	45	-	-	-	45	-	50	-	-	-	50	50
Nursery management																						
Integrated Crop Management	-	2	2	-	-	-	-	-	-	-	48	-	-2	-	50	-	48	-	2	-	50	50
Fodder production																						
Production of organic inputs																						
II. Horticultur	e	I		l			<u>I</u>		<u>I</u>	I		I								I		
a) Vegetable C	rops	5																				
Production of low volume and high	-	3	3	-	74	-	1	-	75	-	-	-	-	-	_	-	74	-	1	-	75	75

value crops											
Off-season vegetables											
Nursery raising											
Exotic vegetables like Broccoli											
Export potential vegetables											
Grading and standardizatio n											
Protective cultivation (Green Houses, Shade Net etc.)											
b) Fruits	l .										
Training and Pruning											

Layout and Management of Orchards																						
Cultivation of Fruit	-	2	2	-	25	-	-	-	25	-	17	-	8	-	25	-	42	-	8	_	50	50
Management of young plants/orchard s																						
Rejuvenation of old orchard																						
Export potential fruits																						
Micro irrigation systems of orchard																						
Plant propagation techniques																						
c) Ornamental	l Pl ai	nts																				
Nursery																						

Management																						
Management of potted plants																						
Export potential of ornamental plants	1	-	1	25	-	-	-	25	-	-	1	1	1	1	1	25	-	1	1	25	-	25
Propagation techniques of Ornamental Plants																						
a) Plan	ntatio	on cro	ops	I		l																
Production and Management technology																						
Processing and value addition																						
e) Tuber crops	S					•																

Production and Management technology Processing and value addition																						
f) Spices																						
Production and Management technology	-	1	1	-	15	-	-	-	15	-	10	-	-	-	10	-	25	-	-	-	25	25
Processing and value addition																						
g) Medicinal a	nd A	roma	itic Pla	nts																		
Nursery management																						
Production and management technology																						
Post harvest technology																						

		1	1	1	1	1	1	1	1		1		1		1		1	1	ı	ı	1	
and value																						
addition																						
III Soil Health	and	Fert	l ility M	anag	emen	t																
Soil fertility management																						
Soil and Water Conservation																						
Integrated Nutrient Management																						
Production and use of organic inputs	-	1	1	-	22	-	4	-	26	-	2	-	2	-	4	-	-	24	-	4	28	28
Management of Problemacid soils	-	1	1	-	9	-	-	-	9	-	11	-	5	-	16	-	-	20	-	5	25	25
Micro nutrient deficiency in crops																						
Nutrient Use																						

																		Efficiency
																		Soil and Water Testing
			I							<u> </u>		nt	geme	/Iana	and N	ction	rodu	IV Livestock P
_	24		-	-		-	-	-	-	25	-	1	-	24	1	-	1	Dairy Management
2	35	10	40	10	0	- 1	10	10	26	32	1	2	25	30	2	1	1	Poultry Management
-	56		-	-		-	-	-	-	65	-	9	-	56	2	-	2	Piggery Management
																		Rabbit Management
19	-	5	5	11		5	11	-	9	-	1	-	8	-	1	1	-	Disease Management
																		Feed management
																		Production of quality animal products
													nent	owern	n empo	omer	ce/W	quality animal

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	2	4	6	-	-	36	85	36	85	-	-	-	-	-	-	-	-	36	85	36	85	121
Gender mainstreamin g through SHGs																						

Storage																						
Value addition	3	2	5	-	-	58	40	58	40	-	-	-	-	-	-	-	-	58	40	58	40	98
Income generation activities for empowerment of rural Women (Handloom & Fruit preservation)	1	1	2	-	-	21	-	21	-	-	-	-	54	-	54	-	-	21	54	21	54	75
Location specific drudgery reduction technologies																						
Rural Crafts																						
Women and child care																						
VI Agril. Engi	neeri	ing																				
Installation and maintenance																						

														1			ı					
of micro																						
irrigation																						
systems																						
Use of																						
Plastics in																						
farming																						
practices																						
Production of																						
small tools																						
and																						
implements																						
Repair and				25	-	-	-	25	-	-	-	-	-	-	-	25	-	-	-	25	-	25
maintenance																						
of farm	1	_	1																			
machinery																						
and																						
implements																						
Small scale																						
processing																						
and value																						
addition																						
Post Harvest																						
Technology																						
VII Plant Prot	ectio	n		I	1	I	1	1	I	Î	1			Î	l	1		l	1	l	I	

Integrated Pest	4	_	4	10 0	-	6	-	10 6	-	-	-	-	-	-	-	10 0	-	6	10 0	-	10 6	106
Management																						
Integrated				50	-	-	-	50	-	25	-	-	-	25	-	75	-	-	-	75	_	75
Disease	3	-	3																			
Management																						
Bio-control of				-	-	18	-	18	-	-	-	-	-	-	-	-	-	18	-	18	-	18
pests and	1	-	1																			
diseases																						
Production of																						
bio control																						
agents and																						
bio pesticides																						
VIII Fisheries				I				I	I	I	l					I		I	I	I	l	
Integrated	1	4	5	50	11	-	-	50	11	50	69	-	8	50	77	10	18	-	8	29	-	293
fish farming	1	7	3		6				6							0	5			3		
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 I	nputs	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 Buildin	g and	d Grou	p Dy	nami	ics							I		
Leadership														
development														
Group														
dynamics														
Formation														
and														
Management														
of SHGs														
Mobilization														
of social														

			1	1			1	1		ı		ı	1			ı	1		1		1
capital																					
Entrepreneuri al development of farmers/youth s	-	1	47	-	-	-	47	-	22	-	2	-	24	-	69	-	2	-	71	-	71
WTO and IPR issues																					
XI Agro-forestry																					
Production technologies																					
Nursery management																					
Integrated Farming Systems																					
TOTAL																					
(B) RURAL YOUT	Ή																				

Mushroom Production	1	-	1	12	-	10	-	22	-	3	-	-	-	3	-	15	-	10	-	25	-	25
Bee-keeping																						
Integrated farming																						
Seed production																						
Production of organic inputs	1	-	1	25	-	-	-	25	-	_	-	-	-	-	-	25	-	-	-	25	-	25
Integrated Farming																						
Planting material production	-	1	1	_	8	-	14	-	22	-	1	-	2	-	3	-	9	-	16	-	25	25
Vermi-culture																						
Sericulture																						
Protected cultivation of vegetable crops	1	-	1	25	-	-	-	25	-	-	-	-	-	-	-	25	-	-	-	25	-	25
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 product																						
Dairying(Ani mal Disease Mgt)	1	-	1	60	-	6	-	66	12	-	-	-	12	-	72	-	6	-	78	-	78	78

Sheep and																						
goat rearing																						
Quail farming																						
Piggery	=	1	1	-	25	-	-	-	25	-	-	-	-	-	-	-	25	-	=	-	25	25
Rabbit farming																						
Poultry production	1	-	1	28	-	-	-	-	-	-	-	-	-	-	-	28	-	-	-	28	-	28
Ornamental fisheries																						
Para vets	1	-	1	-	-	-	-	-	-	25	-	-	-	25	-	25	-	-	-	25	-	25
Para extension workers																						
Composite fish culture																						
Freshwater prawn culture																						
Shrimp farming																						
Pearl culture																						

	1	1	1	1	1	1	1		ı		ı		1	1			1	1	ı	1		
Cold water																						
fisheries																						
Fish harvest																						
and																						
processing																						
technology																						
Fry and																						
fingerling																						
rearing																						
Small scale																						
processing																						
Post Harvest																						
Technology																						
Tailoring and																						
Stitching																						
D 10 6																						
Rural Crafts																						
TOTAL																						
TOTAL																						
(C) EXTENSI	ON I	PERS	ONNI	EL																		
Productivity				25	-	_	-	25	-	-	-	_	-	-	-	25	-	-	-	25	-	25
enhancement	1	-	1																			
in field crops																						
in ficia crops																						

(Production												
and post												
harvest												
management												
of Ginger)												
of diliger)												
Integrated												
Pest												
Management												
Integrated												
Nutrient												
management												
Rejuvenation												
of old												
orchards												
Protected												
cultivation												
technology												
Formation												
and												
Management												
of SHGs												
of SHGs												
Group												
Dynamics												
and farmers												
						l						l

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 (Poultry Disease Mgt)	-	1	1	-	12	-	4	-	16	-	8	1	1	-	9	-	20	-	5	-	25	25
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 mainstreamin g through SHGs											
TOTAL											

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

Date	Clie ntele	Title of the training programme	Disciplin e	Themati c area	Durat ion in days	Venue (Off / On Camp	othe	nber of r icipants	S	Nun SC/S	nber of ST			Fotal number of participants		
						us)	M	Fem	Tot	M	Fem	Tot	M	Fem	Tot	
							ale	ale	al	ale	ale	al	ale	ale	al	
30.01.1	F &	Protection of	PBG	Resource	1	On	90	=								
4	FW	Plant Varieties		Conserva												
		& FR		tion Technolo												
				gies					90	_	10	10	90	10	100	
17.06.1	F &	Commercializat	PBG	Crop	1	On	51	19	7 0							
3	FW	ion of Rice		Diversifi												
2.00.12	Т. 0	G : 1	TT .* 1.	cation	1 1		25		70	29	_	29	80	19	99	
3.09.13	F & FW	Commercial cultivation of	Horticult ure	Export potential	1 d	On	25	-								
	1.44	Marigold and	ure	of												
		Gerbera		ornament												
		Gersera		al plants												
									25	_	_	_	25	-	25	
19-03-	F &	Scientific Dairy	Animal	Dairy	3 d	On	24	1								
14 to	FW	Farming	Science	Manage												
21-03-				ment												
14									25	_	_	_	24	1	25	
15-05-	F &	1.Scientific Pig	Animal	Piggery	1 d &	Off &	56	9						1		
13 &	FW	Farming	Science	Manage		On										
04-09-		2 11 1		ment	3 d											
13 to		2.Hands on														
06-09-		training							65	_	_	-	56	9	65	

13		programme on Scientific pig farming													
24-02- 14 & 11-09- 14	F & FW	1.Production of Carambola squash 2.Preparation of squash & pickle from locally available fruits & vegetables	Home Science	Processin g & preservati on	1d X 2	On		36	36		-	_	_	36	36
12.06.1	F & FW	Promotion and strengthening of Agricultureal mechanization through training, Testing and Demonstration	Agril Engineer ing	Farm machiner y & its maintena nce	1 d	On	25		25	-	-	_	25	_	25
19.09.1 3 21.09.1 3	F & FW	1.Integrated pest Management in Sali rice 2. Integrated	Plant Protectio n	Integrate d Pest Manage ment	1 d X 4	On	10 0	6	106	-	I	-	10 0	6	106

Sali rici 3	agament in	1 -									
Sali rici 3	igement in	Management in									
pest Manag banana 4. Stor manag pulse commanag pulse commanag pulse commanag cucurb vegeta and disease manag cucurb pest and disease manag cucurb		Sali rice									
3 FW pest an disease manage cucurb vegetal 3 2. Integration of the disease manage cucurb and disease manage manage manage manage manage manage manage manage manage managemana	agement in na prage pest agement in	3. Integrated pest Management in banana 4. Storage pest management in pulse crops									
chilli 3Inte pests a disease	and Protection se n agement in bitaceous cables egrated and se agement in tegrated	pest and disease management in cucurbitaceous vegetables 2. Integrated pest and disease management in chilli 3. Integrated	Integrate d Disease Manage ment	1 d X 3	On	50	-				

		management in solanaceous vegetables													
24.10.1	F & FW	1. Organic management of Insect pests and diseases in rabi vegetables	Plant Protectio n	Biocontr ol of pests and diseases	1 d	On	-	18	18	-	-	_	_	18	18
13.09.1	RY	Advanced production technology for off season vegetables	Horticult ure	Protected cultivatio n of vegetable crops	1 d	On	25	-	25	-	-	_	25	-	25
07.10.1 3 to 09.10.1 3	RY	Production technology of Trichoderma based biopesticides	Plant Protectio n	Productio n of organic inputs	3 d	On	25	-	25	1	-	_	25	-	25
06.03.1 4 to 07.03.1 4	RY	Propagation techniques of Assam lemon and Guava	Horticult ure	Planting material productio n	2 d	On	22	-	22	2	-	2	24	-	24
03.10.1 3 to 05.10.1	RY	Mushroom cultivation for self	Plant Protectio n	Mushroo m Productio n	3 d	On	12	10	22	3	-	3	15	10	25

3		employment													
26.12.1 3 27-12-	RY	1.Preparationof herbal soap2. Preparation	Home Science	Value addition	1 d X3	On	-	58							
13, 24.02.1		of backery products													
3		3. Production of Carambola squash							58					58	58
16-09- 13	RY	Micromanagem ental strategy to tap the full genetic potential of hybrid broiler	Animal Science	Poultry Productio n	1 d	On	28	-					-	38	
23-09- 13 to 29-09- 13	F & FW	Employment Opportunities through Agriculture and Allied Sectors	PBG	Increasin g productio n and productiv ity of crops	7 d	Off	47	-	28	22	2	24	28	2	71
11.09.1 3 to 12.09.1	F & FW	Preparation of squash and pickle from	Home Science	Processin g & Value addition	2 d	On	-	-	-	-	54	54	-	54	54

3		locally available fruits and vegetables													
27-04- 13	F & FW	Prevention and control of animal diseases	AnimalS cience	Animal Disease Manage ment	1d	On	60	6	66	12	-	12	72	6	78
20.07.1	F & FW	Integrated Rice-Fish Farming	Fishery Science	IFS	1 d	Off	50	-	50	50	-	50	10 0	-	100
28-03- 14	RY	Scientific management of Pigs	Animal Science	Piggery Sector	1 d	Off	25	1	25	-	-	_	25	-	25
10.07.1 3 26.07.1 3	F & FW	Quality seed production in rice	PBG	Seed productio n	1 d X 2	Off	5	-	5	45	-	45	50	-	50
08.07.1 3 27.07.1 3	F & FW	Scientific management of paddy Scientific management of sugarcane	PBG	Integrate d Crop Manage ment	1 dX 2	Off	-	-		48	2	50	48	2	50
25.11.1	F &	Improved production	Horticult ure	Productio n of low	1 d	Off	25		25	-	-	-	25		25

3	FW	techniques of high value winter vegetables		volume and high value crops											
25.10.1 3	F & FW	Nursery raising techniques of winter vegetables	Horticult ure	Nursery raising	1 d	Off	25		25			_	25	_	25
24.03.1 4	F & FW	Scientific cultivation of pumpkin and cucumber	Horticult ure	Export potential vegetable s	1 d	Off	24	1	25	_	-	_	24	1	25
02.09.1 3 07.11.1 3	F & FW	1.Commercial cultivation of pineapple 2.Scientific cultivation of Assam lemon	Horticult ure	Cultivati on of Fruits	1 d X 2	Off	25	-	25	17	8	25	42	8	50
10.01.1	EP	Commercial production and post harvest management of ginger	Horticult ure	Productio n & managem ent technolog y (Spices)	1 d	On	15	-	15	10	_	10	25	-	25
27-03- 14	F & FW	Vermicompost production technology	Soil Science	Productio n and use of organic inputs	1 d	Off	22	4	26	2	-	2	24	4	28

29-03- 14	F & FW	Problem soil of Assam and their reclamation with special reference to	Soil Science	Manage ment of Problema tic soils	1 d	Off	9	-							
		lime application							9	11	5	16	20	5	25
22-07- 13 & 26-10- 13	F & FW	1.Women empowerment through backyard poultry farming 2.Hybrid layer as a means of livelihood security for unemployed rural youth	Animal Science	Poultry Manage ment	1 d X2	Off	55	3	58	20	_	20	75	3	78
29-03-	F &	Emergency	Animal	Disease	1 d	Off	8	1	38	20	_	20	13	3	/8
29-03-	1. &	management of	Science	Manage	ı u	OII	0	1	9	11	5	16	19	6	25

	7.0	livestock													
	T 0														
3 25.10.1 3 07.12.1 3 07.02.1 4	F & FW	1. Preparation of instant ginger candy 2. Preparation of instant ginger candy 3. Production of ginger and garlic paste 4. Preparation of carambola	Home Science	Processin g & Preservat ion	1 d X 4	Off	-	85							
		squash and ber pickle							85	_	-	_	_	85	85
	F & FW	1. Dying of cotton cloth using natural dye 2. Dying of cotton cloth using natural dye	Home Science	Value addition	1d X 2	Off	-	40	40					40	40

20.05.1						0.00									
20.07.1	F& FW	Diversification of Handloom Products & Fruit Preservation	Home Science	Handloo m products & Fruit preservati on	1 d	Off	-	-							
03.10.1	F &	Integrated	Fishery	IFS	1 d X	Off	11		-	-	54	54	-	54	54
3	FW	Livestock	science		4	011	6	_							
23.10.1 3 to 24.10.1 3 31.10.1 3 18.11.1		based Fish Farming (4 Nos)							116	69	8	77	_	77	193
23-09-	F &	Employment	Agricult	Entrepren	1 d	Off	47	-							
13 to 29-09- 13	FW	Opportunities through Agriculture and Allied Sectors	ure and allied	eurial developm ent of farmers/y ouths					47	22	2	24	69	2	71

25.01.1	RY	Dyeing of wool and silk fabric using different mordants	Home Science	Value addition	1 d	Off	1	15	15	-	-	-	1	15	15
26-10- 13	RY	Hybrid layer farming as a means of livelihood security for unemployed rural youth	Animal science	Poultry Productio n	1 d	Off	24	3	27	-	_	-	24	3	27
21-02- 14	EP	Emerging & reemerging diseases of poultry	Animal Science	Poultry disease Manage ment	1 d	Off	12	4	16	8	1	9	20	5	25

(D) Vocational training programmes for Rural Youth

							Number of
Crop /	Date	Training		Duration	No. of Participants	Self employed after training	persons
Enterprise	Date	title*	Identified	(days)	140. Of 1 articipants	Sen employed after training	employed
			Thrust				else where

		Area					Type	Number	Number of	
				Male	Female	Total	of	of units	persons	
							units		employed	
Piggery	Scientific management of pigs		6 days	25	-	25	-	-	-	
Handloom products	Vocational training on Production of diversified & market oriented Handloom products	Value addition	7 days		21	21	-	-	-	

^{*}training title should specify the major technology /skill transferred

(E) Sponsored Training Programmes

S	Sl.	Date	Title	The	Duration	Clien No.	No. of Participants	Sponsoring	Amount

No			Dis cipl	mat ic area	(days)	t (PF/ RY/	of cou rses	Ot	thers			SC/	ST		Tot	al	Agency	of fund received (Rs.)
			ine			EF)		Mal e	Fe m ale	T o t a 1	M a 1 e	Femal e	Total	Mal e	Fe mal e	Total		
1	05-08- 13	Aware ness progra mme on Sericu lture	Seri cult ure	Seri cult ure	1 day	PF	1	1	2	3	3 5	-	35	36	2	38	Central Muga- Eri Research and Training Institute, Lahdoigarh	

	23-09-	Emplo	Agr														KVK,	
	13 to	yment	icul														Jorhat &	
	29-09-	Oppor	ture														DoEE,	
	13	tunitie															AAU,	
2		s throug h Agric ulture and Allied Sector s		Agr icul ture and alli ed	7 days	PF	1	47	-	4 7	2 2	2	24	69	2	71	Jorhat	

	30-01-	Traini	Cro														PPVFRI,	
3	14	ng cum aware ness progra mme on Protec tion of Plant Variet ies and Farme rs Right Act, 2001	p pro duc tion	Res our ce con serv atio n	1 day	PF	1	83	10	9 3	7		7	90	10	100	Regional Office Guwahati	
4	27-04- 13	World Veteri nary Day	Ani mal Sci enc e	Wo rld Vet erie nar y day	1 day	PF	1	76	-	7 6	-	-	-	76	-	76	District Animal Husbandry & Veterinary Department, Jorhat	

5	09-05-	Distri ct level Immu nizati on/ Aware ness Camp under "ASC AD	Ani mal Sci enc e	Vac cin atio n	1 day	PF	1	60	6	6 6	1 2	-	12	72	6	78	District Animal Husbandry & Veterinary Department, Jorhat	
6	17-06- 13	Aware ness camp on Com merci alizati on of Rice	Cro p Pro duc tion	Cro p div ersi fica tion	1 day	PF	1	51	19	7 0	2 9	-	29	80	19	99	SATHGUR U Managemen t Consultancy , Hyderabad	

7	20-07-	Divers ificati on of Handl oom Produ cts & Fruit Preser vation	Ho me Sci enc e	Ha ndl oo m pro duc ts	1 day	FW	1	-	54	5 4	-	64	64	-	100	100	SIRD, Jorhat	
8	26-07- 13	Integr ated farmin g syste m	Fis her y Sci enc e	IFS	1 day	PF	1	50	1	5 0	5 0	-	50	100	1	100	SIRD, Jorhat	

	12.06.13	Promo	Agr	Far	1 day													
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To		mecha		nan		F &				2							of Agril.	
tal		nizati		ce		FW	1	25	-	5	-	-	-	25	-	25	Engineering	
-		on				1 ,,											, AAU,	
		throug															Jorhat	
		h																
		trainin																
		g,																
		Testin																
		g and																
		Demo																
		nstrati																
		on																

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 2013-14

Sl. No.		Purpose/							Partic	ipants					
	Extension	topic and Date	No. of	Far	mers (Oth	ers)	SC/	ST (Farm	iers)	Exte	nsion Off	icials	(Grand Tota	al
	Activity		activities		(I)			(II)			(III)			(I+II+III)	
				Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
1.	Field Day	Mushroom cultivation Var Oyster	1	20	18	38	-	-	-	-	-	-	20	18	38
2.	Field Day	Water management I Toria var. Binoy	1	37	4	41	-	-	-	-	-	-	37	4	41
3.	Field Day	Demonstration on creep feed consumption on performance of piglets	1	2	-	2	30	10	40	-	-	-	32	10	42
4.	Exhibition	Farmers Meet, 2013-14,	1	-	-	-	-	-	-	-	-	-	-	-	-

		Golaghat													
5.	Diagnostic visit	Animal disease monitoring and Agricultural problems	30	5	3	8	18	4	22	-	-	-	23	7	30
6	Awareness programme	Animal Health Camp	2	40	10	50	30	15	45	-	-	-	70	25	95
Grand	l Total		46		-	-	-	-	-	-	-	=	-	-	-

3.5 Production and supply of Technological products during 2013-14

a. SEED MATERIALS

Major group/class	Сгор	Variety	Quantity (qt)	Value (Rs.)	Provided to No. of Farmers/Other Agencies
CEREALS					
	Paddy	Ranit	11.1q	28860.00	In stock
		KDML,	6.3q	16380.00	
		Black rice,	0.97q	2522.00	
		Mashuri	3.42q	8892.00	

		TTB404	1.2q	3120.00	
		Ketekijoha	1.02	2652.00	
VEGETABLES	Brinjal	Longai	200g	500.00	Used at KVK Farm
	Tomato	Megha, Cherry tomato	300g seeds	500.00	
			3000 Seedlings	1800.00	
	Cabbage	Green Express	500 seedlings	300.00	
	Cauliflower	NP2801	500 seedlings	300.00	
	Knolkhol	Soilder	500 seedlings	300.00	
FLOWER CROPS	Gerbera	Red Gem	500nos	2500.00	Used at KVK Farm
	Marigold	Pusa Narangi	1000 g	3000.00	
	Gladiolus	Novalux	500nos	2500.00	
OTHERS (Specify)	Turmeric	Megha Turmeric	80kg	1600.00	Used at KVK Farm

SUMMARY

Sl. No.	Major group/class	Quantity (ton.)	Value (Rs.)	Provided to No. of Farmers/Other Agencies
1	CEREALS (Paddy)			
	Ranit	11.1q	28860.00	
				In stock
	KDML,	6.3q	16380.00	
	Black rice,	0.97q	2522.00	
	Mashuri	3.42q	8892.00	
	TTB404	1.2q	3120.00	
	Ketekijoha	1.02	2652.00	
4	VEGETABLES			
	Brinjal	200g	500.00	
	Tomato	300g seeds	500.00	

		3000 Seedlings	1800.00	
	Cabbage	500 seedlings	300.00	
	Cauliflower	500 seedlings	300.00	
	Knolkhol	500 seedlings	300.00	
5	FLOWER CROPS			
	Gerbera	500nos	2500.00	
	Marigold	1000 g	3000.00	
	Gladiolus	500nos	2500.00	
	OTHERS			
6	Megha Turmeric	80 kg	1600.00	
	TOTAL		75726.00	

b. PLANTING MATERIALS (Nos. in lakh)

Major group/class	Crop	Variety	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
FRUITS	Guava	L-49, Allahabad Safeda	70 kg	600.00	
	Pineapple		50kg	400.00	
SPICES	Turmeric	Megha Turmeric	80kg		50kg used at farm
VEGETABLES	Brinjal	(Longai)	30kg	250.00	
	Cabbage	Green Express	50kg	500.00	
	Cauliflower	NP2801	30kg	300.00	
	Knolkhol	Soilder	30kg	300.00	
	Tomato	Megha, Cherry	70g	400.00	
FIELD	Paddy	Ranit	11.1q	28860.00	
CROPS					
		KDML,	6.3q	16380.00	
		Black rice,	0.97q	2522.00	
		Mashuri	3.42q	8892.00	
		TTB404	1.2q	3120.00	
		Ketekijoha	1.02	2652.00	

Others (specif	Green gram	Pratap	0.12q		
	Mushroom	Oyster	15kg	1200.00	
	Mushroom Spwan	Oyster	36.4kg	3640.00	
Total				70016.00	

SUMMARY

Sl. No.	Major group/class	Quantity (Nos. in lakh)	Value (Rs.)	Provided to
				No. of Farmers
1	FRUITS			
	Guava(L-49, Allahabad Safeda)	70 kg	600.00	
	Pineapple	50kg	400.00	
2	VEGETABLES			
	Brinjal	30kg	250.00	
	Cabbage	50kg	500.00	
	Cauliflower	30kg	300.00	

	Knolkhol	30kg	300.00	
	Tomato	70g	400.00	
3	SPICES			
	Megha Turmeric	80 kg		
6	FIELD CROPS			
	Ranit	11.1 q	28860.00	
	KDML,	6.3 q	16380.00	
	Black rice,	0.97 q	2522.00	
	Mashuri	3.42 q	8892.00	
	TTB404	1.2 q	3120.00	
	Ketekijoha	1.02 q	2652.00	
7	OTHERS			
	Green gram	0.12q		
	Mushroom	15kg	1200.00	
	Spwan	36.4kg	3640.00	
	TOTAL		70016.00	

c. BIO PRODUCTS

Major group/class	Product Name	Species	Q	Quantity		Provided to No. of Farmers
			No	(qt)		140. Of Farmers
BIOAGENTS						
BIOFERTILIZERS						
1. Vermicompost production	Vermicompost			1534 kg		Used in KVK Farm
BIO PESTICIDES						
1. Biopesticide	Trichodarma based Biopesticides			400 kg		Distribution to farmars and used in KVK farm

SUMMARY

Sl. No.	Product Name	Species	Quantity		- Value (Rs.)	Provided to No. of	
51. 140.	r roduct Name	Species	Nos	(kg)	value (Ks.)	Farmers	
1	BIOAGENTS						
2	BIO FERTILIZERS						
	Vermicompost production	Vermicompost		1534 kg		Used in KVK Farm	
3	BIO PESTICIDE						
		Trichodarma based Biopesticides		400 kg		Distribution to farmars and used in KVK farm	
	TOTAL			1934 kg			

d. LIVESTOCK

Sl. No.	Туре	Breed	Quantity		Value (Rs.)	Provided to No. of Farmers
			(Nos)	Kgs		Turmers
1	Cattle	HF Cross		826 lit	28745.00	
2	SHEEP AND GOAT	Local goat	4 Nos		4000.00	
3	PIG	Hampshire and T & D	3 Fatteners & 24 Piglets		54015.00	
4	POULTRY	Quail Japanese Quail	4151nos Egg 80 nos bird		6226.00	
5		Vanaraja	250 bird (Grown up chicks)		18000.00	
6		Khaki Campbell & Chara Chemballi	300 Nos		1500.00	
FISHERIES						
7	Rice cum fish	Mrigal, Common carp, Golden carp		58 kg	7540.00	
8	Composte Fish	Common carp,		104.90 kg	17235.00	

Farming	Golden Carp, Grass Carp, Rohu		

Sl.	Туре	Breed	Qua	Quantity		Provided to No. of
No.	J F -		Nos	Kgs	(Rs.)	Farmers
1	CATTLE	HF Cross		826 lit	28745.00	
2	SHEEP & GOAT	Local goat	4 Nos		4000.00	
2	Pig	Hampshire and T & D	3 Fatteners & 24 Piglets		54015.00	
3	POULTRY	Japanese Quail	4151nos Egg 80 nos bird		6226.00	
		Vanaraja	250 bird (Grown		18000.00	

		Khaki Campbell & Chara Chemballi	up chicks) 300 Nos		1500.00	SUMMARY
4	FISHERIES	Rice cum fish		58 kg	7540.00	
		Composte Fish Farming		104.90 kg	17235.00	
	TOTAL				139661.00	

3.6. Literature Developed/Published (with full title, author & reference) during 2013-14

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

(B) Literature developed/published

Item	Title	Authors name	Number of copies
Research papers			
1.	Status and constraints of backyard poultry farming amongst tribal community in Jorhat district of Assam	Deka P, Borgohain R, Deka B	-

2.	Effect of feeding probiotic on production parameters of	Sapcota D, Deka P, Sarma	-
	broiler chicken	M, Borgohain R	
3.	Production performance of Vanaraja bird under	Deka P, Sarma M, Nath	-
	traditional system of rearing in Assam	PJ, Borgohain R, Deka B,	
		Phukan M	
4.	Exploration of Banana Fibre as low cost eco-friendly	Deka B, Deka P,	-
	waste management	Borgohain R	
5.	Exploration of Plant derived Natural dyes in Assam	Deka B, Deka P,	-
		Borgohain R, Neog M	
6.	Boigyanik Podhotit Gai Goru Palon	Pankaj Deka	-
	(Chapter in Books)		
Training	Unnat Prayuktire Udyan Sashar kheti	Ms. Ira Sarma, R.	25
manuals		Borgohain	
	Handbook for Mushroom cultivation	M.Phukon, R. Borgohain	25
Technical			
reports			
1.	Annual Action plan	All KVK Scientists	6
2.	Annual Report	All KVK Scientists	6
3.	Monthly Progress Report	All KVK Scientists	12
4.	Best KVK Award	All KVK Scientists	8

Book/ Book Chapter	Boigyanik Podhotit Gai Goru Palon	Pankaj Deka	-
	Samanitta padhotit dhan mach palon	Pabitra Saharia	-
Popular articles	Bhutjalakia khetit kit patangar akramon aru yaar jaibik niyantron bebostha	Phukon M.	-
	Grismokalin hak-pacholir anistokari kit-patanga aru pratikar	Phukon M.	-
	Lao jatio hachyar pradhan rug aru yaar pratikar	Phukon M	-
	Jalukor khetit hachya rakhya bebostha	Phukon M.	-
	Sukhma Bybosthapona: broiler kukura palonor sopholotar sabikathi	Deka P	-
	Boigyanik Podhotit Gai Goru Palon: Swaniyojonor Ek Madghyom	Deka P	-
	Borxunor pani hangrakhon aru bahumukhi bebohar	Deka P. Phukon M., Phukon R. Borgohain R.	-
	Somoyosit Swa-niyojonor Madhyom Hisabe Somonwito Gahori- Mash Palon	Deka P	-
	Mohila Sobolikoronor Poriprekhitot	Deka B	-
	Purani kamalabarir punar sthapan paddhati.	Sarma I.	-
	Seujgrihat agatia capsicumar kheti.	Sarma I.	-

	Matikathalar joibik krishi paddhati	Sarma I.	-
	Matormahar unnata krishi paddhati	Sarma I.	-
	Narji phular krishi koushal	Sarma I.	-
	Seujgrihat abotoria Sak pachalir kheti	Sarma I.	-
	Unnata padhatire halodhir kheti	Sarma I.	-
	Unnata padhatire Kath aloor kheti	Sarma I.	-
Technical bulletins			
Extension bulletins	Organic management of pest and diseases in Bhut Jalakia		50
	Insect pests and diseases of summer vegetables and their management		50
	Preparation of jam, squash and pickles		50
	Sources of natural dye		50
	Capsicumor unnata krishi pranali		50
	Unnata pronalire Broccolir kheti		50
	Trichoderma-Abidh jaibik bhekurnakhok		50
	Kathfula khetir hatputhi		50

Conference/	Exploration of Plant Derived Natural Dyes in Assam	Binapani Deka, Pankaj	International Workshop on
workshop		Deka, R. Borgohain	Natural Dyes, March'2014,
proceedings			Hyderabad
Leaflets/folders			
1.11			
e-publications			
Any other (Pl.			
specify)			
1 37			
TOTAL			
N. D. Di		1 11 11	

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

(C) Details of Electronic Media Produced : Nil

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

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

Empowerment of Rural Women through backyard Poultry rearing (2013-14):

Background and Problem:

Socially we are having male dominating family system; obviously all income from agricultural produce is in hands of male farmer. It is observed that there is always shortage of money in the hands of rural farm women. There are some enterprises existing in the present situation which gives some assured income viz. Backyard poultry, small unit of goat keeping etc. in the hands of rural women. However, poor farm women have maintained indigenous low productive stock with traditional management. We are aware that the taste of indigenous poultry is better accepted, it has more demand too. But when we think about commercial point of view, problem of poor weight gain and egg production is the major problem observed by KVK.

KVKs intervention:

Krishi Vigyan Kendra, Jorhat has planned to introduce a new improved variety suitable for backyard poultry to replace existing low productive indigenous bird in the Kaliapani development block of Jorhat district. KVK, Jorhat has selected Vanaraja, a dual purpose improved variety, developed by PDP, Hyderabad as a need based intervention for tackling the problem with indigenous bird and has conducted On Farm Trial and subsequently Front Line Demonstration in few villages where backyard poultry rearing is a common practice. Further, KVK, Jorhat introduced the technology of improved feeding and brooding practices of backyard poultry to reduce early chick mortality to few women in the villages for development of mother



unit of improved variety for backyard poultry. During FLD programme, KVK scientists regularly monitored the performance of the chicks supplied at the door steps besides providing health care and technical support. Vaccination against Ranikhet and Infectious bursal disease were done regularly.

Productivity:

The backyard rearing of improved Vanaraja bird brought significant increase in both live weight and egg production of birds over the indigenous birds. The first egg laying is about 15



days earlier in Vanaraja, The average eg production was a whooping 146 nos/annum as compared to only 54 in local birds. Egg weight of Vanaraja was also significantly higher (51g) as against 36g of local fowl. Body weight was 2.5 kg in 6th month as compared to only 50 grams in local birds.

Adoption by the beneficiaries:

Rather than meet production, the farmers were interested to produce chicks from eggs of Vanaraja by hatching traditionally with their own local hen. Also, two numbers of mother unit for Vanaraja bird was developed by KVK, Jorhat as regular source of the Vanaraja grower bird for the area.

Adoption by non beneficiaries:

Due to good result and return from Vanaraja, the farm women supplied chicks and eggs of Vanaraja to their relatives. Some farm families purchased eggs from beneficiaries at the rate of Rs. 6/- and hatched with their own local hen.

Suitability:

Low input: In backyard, birds were let loose during the day time by the farmers and offered on an average 35 g of feed per bird in terms of crushed maize, boiled rice, broken rice and kitchen waste etc. and the rest of their re quirement was met by scavenging themselves in the form of insects, worms, seeds of grasses, tender leaves of grasses etc. The unproductive family members, old persons, children can easily manage and supervise the managerial practices of backyard poultry in a very short time.

Social impact:



With the help of Vanaraja farming returns increased in comparison to local bird rearing and the income is in the hands of farm women. So, she became a money holder member of a family and ultimately she is one of the major members of the family having the role in decision making of a family.

Marketing:

Commercial poultry are available in urban area and cost of commercial poultry produce are more in rural areas due to transportation and unavailability, while backyard poultry produce are available in village condition. Therefore, backyard poultry produce are the easily available animal protein source for rural areas. Further, the meat and eggs of Vanaraja were preferred by the local consumers and found very demandable in the market owing to its similarity of the typical appearance of the indigenous bird. There was record of selling @ Rs.5 to 6/-per egg and Rs.150/--175/- per Kg live weight of Vanaraja bird by the farmer locally with equal market demand and good realization. So, village itself and daily and weekly bazzar (Hut) in nearby area are the market for chicken and eggs of backyard poultry farming.

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

1. On demonstration, the broodiness of hybrid poultry "Vanaraja" was not observed. Further, it is not possible to incubate hatching eggs under local broody hen round the year. Therefore, to incubate eggs of hybrid poultry in rural areas, an electric cum kerosene based wooden device has been designed and developed by KVK Jorhat in collaboration with a farmer where temperature can be maintained manually. The farmers can easily build the device at home with locally available material. This device can be used in the household level to incubate non broody brids like Vanaraja. In the men time the device is gaining popularity among the farmers.

2. Non availability of quality fish seed is a major bottle neck in fish farming particularly in upper assam. Due to non availability of right seed at right time the farmer can not take the full period growth advantage of fish farming (March to October). To do so, a programme on production of carried over seed was undertaken so that farmers rear the previous years fish seed (Carried over) when temperature become congenial for fish farming. Some of the farmers can also take this method of fish seed production as a business venture in the locality.

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

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK
1.	Duckery	Use of <i>Bhatghila</i> [<i>Oroxylum indicum</i> (L) Vent.] bark extract. The rural people use the bark, make paste and provided to the local ducks when observe symptom of lameness. The symptom of lameness resembles parosis condition of duck. They believe that bhatghila bark can control this problem of duck. This believe if standardized can be converted to technology for controlling duck's deficient in magnesium and iron. This is the first reporting ITK on duck by bhatghila bark.	Treatment for lameness problem (suspected parosis) in duck
2.	Rice	Leaves of 'Bihlongini' (<i>Polygonum hydropiper</i>) or 'Bihdhekia' (<i>Sphaerostiphnos unitus</i>) are incorporated into the soil of the growing crop	Management of rice stem borer
3.	Rice	'Posotia' leaves are dried, grinded and dusted in the rice field	Management of rice hispa

4.	Rice	Chopped Kola kachu (Colocasia esculanta Black) and fresh cowdung are distributed in water in the field	Management of case worm problem of rice	
5.	Rice	Keeping the stubbles of <i>Boro</i> rice undisturbed avoiding ploughing and grazing by the cattle for 1 - 1½ months. The practices is usually practised in traditional varieties grown in low lying (beel) areas	This practice allows the development of ration of <i>boro</i> rice which provides an additional income to the farmers with zero investment	
6.	Rice	Grains for seed purpose are stored in 'koloh or earthen pitcher with a lid made of earth	The stored grain pests cannot enter the structure, thereby savings the seeds. The earthen pot also saves the grains from outside moisture	
7.	Banana	Spraying solution of "Samsolokha"/germani bon (Chromolena odorata) leaves along with detergent soap in banana plant	To control banana weevil	
8.	Banana	The juice of gundhowa bon, (Ageratum conizoides) is sprayed on banana plant	To get rid of leaf and fruit scarring beetle of banana	

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

- Identification of courses for farmers/farm women: PRA, Group discussion
- Rural Youth: Rural empowerment, PRA, group discussion
- Inservice personnel : On recommendation by DAO

3.11 Field activities

i. Number of villages adopted: 3

ii. No. of farm families selected: 500

iii. No. of survey/PRA conducted: 03

3.12. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab : Lab not yet established

1. Year of establishment

2. List of equipments purchased with amount :

Sl. No	Name of the Equipment	Qty.	Cost
1			
2			
3			
Total			

3. Details of samples analyzed so far

Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized
Soil Samples				
Water Samples				
Plant Samples				
Petiole Samples				
Total				

4.0. IMPACT

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

Sl. No.	Name of specific technology/skill	No. of	% of	Change in income	Change in income (Rs.)	
	transferred	participants	adoption	Before (Rs./Unit)	After (Rs./Unit)	
1	Sali paddy var. "Ranjit" and "Swarna Sub-1"	110	100	12750.00 (As grain)	83410.00 (As seed)	
2	Toria					
	TS- 38	75	100	20750.00	25235.00	
3	Summer and rabi vegetables	100	100	80000.00	120000.00	
4	Performance of Vanaraja poultry	100	100	2900.00 per unit of 10 birds	5150.00 per unit of 10 birds	
5	Performance of Hampshire & T& D pig	100	100			
6	Marigold	1	100	180000.00	200000.00	
7	Management of Brinjal Fruit and Shoot Borer	10	100	15 tonne (Yield)	20 tonne	

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

4.2. Cases of large scale adoption

(Please furnish detailed information for each case)

Activity	Methodology used for analysis	Impact
Demonstration on Sali paddy (var"Ranjit" and "Swarna Sub-1")	Observation and Group Discussion	 After observing the excellent performance of Sali paddy, the farmers become interested to go for large scale cultivation of that varieties in the forthcoming season
		 Farmers accepted the technology and nearby farmers adopted
Demonstration on toria var. TS- 38	Group discussion	 Farmers of Majuli showed interest towards the technology after getting benefited economically through cultivation of toria Farmers exhibited keen interest towards the toria var. TS 38
OFT Dual purpose chicken Vanaraja	Observation and personal contact	 Concept of rearing of Dual purpose chicken Vanaraja has been adopted by many farmers
		 One farmer Mr. Himantabiswa Gogoi, Bonai have started with 200 Vanaraja chicks. One batch of 100 chicks is in laying stage.
		 Consumers of local market well accepted brown shelled eggs and meat of Vanaraja poultry.
		 Vanaraja poultry farming may be the source of livelihood and food security for rural youth and farm women in Jorhat District.
Advisory services on disease management of Bhut Jalakia	Observation and personal contact	 Many farmers of local area were benefited from the advisory services and have adopted the recommended management practices

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

Impact analysis was not done because it has to be carried out by a 3rd party.

5.0. LINKAGES

5.1 Functional linkage with different organizations

Name of organizations	Nature of linkage
1. Department of Agriculture, Govt. of Assam	In planning and organizing training programme, demonstrations, field days, farmers-Scientist interaction, CDAP preparation, resource person in training programmes, Joint monitoring of central govt programme like BGREI.
	The linkage with the department of Agriculture is made effective by frequent meeting with District Agriculture Officer, Joint meeting with the Deputy Commissioner and other agencies
2. Department of Animal Husbandry and veterinary, Govt. of Assam	In planning and implementing training programme and also organizing rural camp for vaccination of farm animals.
3. District Rural Development Agency, Jorhat	Conducting collaborative training programmes and resource persons for DRDA training. Joint visits to the DRDA operated programmes
4. Dairy Development, Jorhat, Assam	In planning and organizing training programme
5. NABARD, Jorhat	Conducting exposure visit, financial assistance for creating Rural Knowledge Centre, Formation of farmers club
6. North East Affected Area Development Society (NGO)	In planning and organizing training programme
7. All India Radio, Jorhat	For coverage of rural programme and broadcasting of Radio-talk on Agriculture
8. RRTC, Umran, Meghalaya	Conducting exposure visit

9. Central Potato Research Station, Upper Shillong	Conducting exposure visit		
10. ICAR Research Complex for NE Hill Region, Umiam, Barapani	Source of technology and conducting exposure visit		
11. NRC on Pig, Rani, Kamrup	Source of technology		
12. R & D, TATA Tea, Teok, Jorhat	Exchange of resource person, information sharing, exposure visit		
13. Central Silk Board, Lahdoigarh	Knowledge sharing, source of information		
14. ATMA, Jorhat	Technology backstopping, conducting demonstration, field day programmes, Joint programme evaluation.		
15. Assam Seed Certification Agency	For seed certification of seed growers of the district		
16. Regional Agricultural Research Station, Titabor	Source of foundation and breeder seeds for all varieties of paddy. Padd related technology transfer and advisories, joint on farm testing of pipeline varieties		
17. Goat Research Station, Bornihat	Regular consultation on goat related issues, AI of beetle goat, Joint health camp, supply of improve breed of goats to farmers		

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 2013-14

Name of the scheme	Activity	Date/ Month of initiation	Funding agency	Amount (Rs.)
Technology Showcasing	To increase the production and productivity of cereal and oilseed crops as well as to produce quality seed in participatory mode	2010-11	RKVY	29,25,740.00
High Tech Fruit Orchard cum nursery	Planting material generation	Feb,2012	NHB	75,00,000.00
Technology Showcasing ie., three tier pig- poultry- fish under RKVY	To increase the production and productivity of pig-poultry-fish	09/08/2012	RKVY	400000.00

Agriculture centric sustainable livelihood improvement programme for the tribal farmers of Assam	1. A cluster of 10 tribal villages of the district to develop backyard poultry farming with improved variety like "Vanaraja" 2. To develop pig breeding unit in 10 different villages of tribal community to produce quality piglet for the development of pig farming in the district. Also, to develop pig fattening unit in the same tribal villages to meet the demand of pork and empower tribal farming community in the district 3. To promote cultivation of horticultural crop like vegetables, Assam lemon etc. in the tribal dominated area.	March,2013	ICAR	77,00000.00
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5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district Yes

Sl. No.	Programme	Nature of linkage	Remarks
1	Governing Body, ATMA, Jorhat	Member	
2	Training	As Resource persons	
3	Demonstration on Toria at Majuli	Site and farmers selection	
4	Farmers – Scientists Interaction	As Resource persons	
5	Field Day	Collaborative programme	
6	Diagnostic field visit	As specialists	

5.4 Give details of programmes implemented under National Horticultural Mission: Nil

S. No.	Programme	Nature of linkage	Constraints if any

5.5 Nature of linkage with National Fisheries Development Board : Nil

S. No.	Programme	Nature of linkage	Remarks

6. PERFORMANCE OF INFRASTRUCTURE IN KVK DURING 2013-14

6.1 Performance of demonstration units (other than instructional farm)

Sl.		Year		Details of production		tion	Amo	unt (Rs.)	
No.	Demo Unit	of estd.	Area	Variety	Produce	Qty.	Cost of inputs	Gross income	Remarks
1	Demo unit			Spwan Oyster		36.4kg		3640.00	
2	Guava		0.5ha	L-49, Allahabad Safeda		70 kg		600.00	
3	Pineapple		0.02ha			50kg	6000.00	400.00	

6.2 Performance of instructional farm (Crops) including seed production

Name	Date of	Date of	(ha)	Deta	Details of production			nt (Rs.)	Damada
of the crop	garring hoursest 5		Variety	Type of Produce	Qty.	Cost of inputs	Gross income	Remarks	
Cereals	<u> </u>			_				<u> </u>	<u>l</u>
Rice									
	10.06.13	20.11.13	0.4ha	Ranit	Foundation seed	11.1q	13000	28860.00	In stock
	20.05.13	29.11.13	0.24ha	KDML,	Foundation seed	6.3q	10000	16380.00	
	14.06.13	25.11.13	0.04ha	Black rice,	Foundation seed	0.97q	1000. 00	2522.00	
	17.06.13	24.11.13	0.15ha	Mashuri	Foundation seed	3.42q		8892.00	

	11.06.13	22.11.13	0.08ha	TTB404	Foundation seed	1.2q	5000. 00	3120.00	
	21.06.13	24.11.13	0.04ha	Ketekijoh	Foundation	1.02	1500.	2652.00	
				a	seed		00		
Pulses									
Green	13.09.13	28.11.13	0.13ha	var.		0.12q	500.0		
gram				Pratap			U		
Spices & Pla	antation crops								
Turmeric	15.03.13	29.11.13	0.02ha	Megha Turmer	Rhizome s	80kg			50kg used at farm
				ic					
Floriculture									
Gerbera	Sep'2012	Continu ing	0.03ha	Red Gem	Suckers	500nos	2500.00		Used at KVK Farm
Marigold	Sep'2011	-	0.01ha	Pusa Naran	gi Seeds	1000 g	5000.00		Used at KVK Farm
Gladiolus	Oct'2013	Jan'14	0.01ha	Novalux	Corms	500nos	2500.00		In Stock
Fruits					1	1	<u> </u>		
Guava			0.5ha	L-49, Allahabad Safeda		70 kg		600.00	

Pineapple			0.02ha			50kg	6000.00	400.00	
Vegetables									
Brinjal	10.10.13	Jan- March'	0.01ha	Longai	veget ables	30kg	500.00	250.00	5 kg for seed
					seed	200g		Supplied to the farmers	Used at KVK Farm
Cabbage	12.10.13	Jan'14	0.01ha	Green Express	veget ables	50kg	1000.00	500.00	
					seedl ings	500			Used at KVK Farm
Cauliflower	15.10.13	Jan'14	0.01ha	NP2801		30kg	500.00	300.00	
					seedl ings	500 g			Used at KVK Farm
Knolkhol	16.10.13	Jan'14	0.01ha	Soilder		30kg	500.00	300.00	
					seedl ings	500 g			Used at KVK Farm

Tomato	30.10.13	Jan-	0.02ha	Megha,	veget	70g	1000.00	400.00
		March'		Cherry	ables			
		14						
					seeds	300g		
					Seedl	3000		
					ings			
a. Others	s (specify)	1			L			
Mushroom			Demo	Oyster		15kg		1200.00
			unit					

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

Sl.			Amount	(Rs.)		
No.	Name of the Product	Qty	Cost of inputs	Gross income	Remarks	
1	Vermicompost production unit	1534 kg	5000.00		Used in KVK, Farm	
2	Trichodarma based Biopesticides	400 kg	-		Distribution to farmars and used in KVK farm	

6.4 Performance of instructional farm (livestock and fisheries production)

Sl.	Name	Deta	ils of production		Amour	nt (Rs.)	
No	of the animal / bird / aquatics	Breed/ species	Type of Produce	Qty.	Cost of inputs	Gross income	Remarks
1	Rice cum fish	Mrigal, Common carp, Golden carp	Fish	58 kg	6000.00	7540.00	
2	Composte Fish Farming	Common carp, Golden Carp, Grass Carp, Rohu	Fish	104.90kg	8000.00	17235.00	
3	Quail	Japanese Quail	Egg	4151 nos Egg	2000.00	6226.00	
4	Quail	Japanese Quail	Bird	80 nos bird		2400.00	
5	Duck	Khaki Campbell & Chara Chemballi	Egg	300 Nos	Nil	1500.00	
6	Chicken egg	Vanaraja	250 bird	235 nos	10640.00	18000.00	
7	Dairy Unit	HF Cross	Milk	826 lit	6800.00	28745.00	
8	Pig	Hampshire and T & D	Fatteners & Piglets	3 Fatteners & 24 Piglets	35,450.00	54015.00	3 Fattener s & 8 Piglets

9	Goatery Unit	Local	4 Nos	Nil	4000.00	

6.5 Rainwater Harvesting

Training programmes conducted by using Rainwater Harvesting Demonstration Unit: Nil

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

6.5 Utilization of hostel facilities (Month-Wise) during 2013-14 : Nil

Accommodation available (No. of beds): 20

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)
September	Scientific management of	6 days	20	6 days	-

	pig				
Total		6 days	20	6 days	
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	Account Number
With Host Institute	SBI, AAU, Branch	Assam Agricultural University, Jorhat	10253825316
With KVK	SBI, Teok	Teok	30240073924

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

Item	Released by ICAR/ZPD		Expenditure		Unspent balance as on 31 st March, 2014
	2010–11	2011-12	2012-13	2013-14	,
Inputs					
Extension activities					

TA/DA/POL etc.			
TOTAL			

7.3 Utilization of KVK funds during the year 2013 -14

Darticulars	Sanctioned	Released	Expenditure
1 at ticulars	(in Lakh)	(in Lakh)	(in Lakh)
ecurring Contingencies			
Pay & Allowances	81,61,000.0		
	0		81,34,350.00
Traveling allowances	2,00,000.00		1,51,236.00
Contingencies			<u>I</u>
Stationery, telephone, postage and other			
expenditure on office running, publication of			
Newsletter and library maintenance (Purchase of			
News Paper & Magazines)			
POL, repair of vehicles, tractor and equipments			
Meals/refreshment for trainees			
Training material (posters, charts, demonstration			
material including chemicals etc. required for conducting the training)			
	Pay & Allowances Traveling allowances Contingencies Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines) POL, repair of vehicles, tractor and equipments Meals/refreshment for trainees Training material (posters, charts, demonstration material including chemicals etc. required for	Particulars (in Lakh) ecurring Contingencies Pay & Allowances 81,61,000.0 0 Traveling allowances 2,00,000.00 Contingencies Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines) POL, repair of vehicles, tractor and equipments Meals/refreshment for trainees Training material (posters, charts, demonstration material including chemicals etc. required for	Particulars Contingencies Sanctioned (in Lakh)

E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)			
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)			
G	Training of extension functionaries			
Н	Maintenance of buildings			
I	Establishment of Soil, Plant & Water Testing Laboratory			
J	Library			
	TOTAL (A)	13,00,000.0		
		0	13,00,000.00	13,00,000.00
B. No	on-Recurring Contingencies		13,00,000.00	13,00,000.00
B. No	on-Recurring Contingencies Works		13,00,000.00	13,00,000.00
			13,00,000.00	13,00,000.00
1	Works		13,00,000.00	13,00,000.00
1 2	Works Equipments including SWTL & Furniture Vehicle (Four wheeler/Two wheeler, please		13,00,000.00	13,00,000.00
2 3	Works Equipments including SWTL & Furniture Vehicle (Four wheeler/Two wheeler, please specify)		13,00,000.00	13,00,000.00

GRAND TOTAL (A+B+C)	

7.4 Status of revolving fund (Rs. in lakhs) for last three years

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year
April 2011 to March 2012	1,01,407.00	2,37,341.00	1,24,463.00	2,31,285.00
April 2012 to March 2013	2,31,285.00	1,60,499.00	27,653.00	3,64,131.00
April 2013 to March 2014	3,64,131.00	2,58,608.00	47,617.00	5,75,122.00

Note: No KVK must leave this table blank

8.0 Please include information which has not been reflected above. : Nil

(Write in detail)

8.1 Constraints

Administrative

- Inadequate periodic HRD programmes for KVK staff
- b) Technical

- Lack of diagnostic laboratory
- Poor internet connectivity
- Lack of AES wise technology

c) Financial

- Late and under allocation of funds.
- Fund allotment (Recurring contingency) among the KVKs should justifiable be based on the work load and history of fund utilization

(Signature)

Programme Coordinator