ANNUAL PROGRESS REPORT

2014-15

Krishi Vigyan Kedra, Jorhat
Assam Agricultural University
Teok-785112

PROFORMA FOR ANNUAL REPORT OF KVKS, 2014-15

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail
Krishi Vigyan Kendra, Jorhat Assam Agricultural University Kaliapani, Jorhat (Assam)-785112	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	Telephone / 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, 2015)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category (SC/ST/ OBC/ Others)
1	Programme Coordinator	Dr. Rupam Borgohain	PC	Plant Breeding and Genetics	37400 – 67000 (GP-10000)	66700	24.12.2009	Permanent	OBC
2	Subject Matter Specialist	Ms. Mousumi Phukon	SMS	Entomology	15600– 39000 (GP-6000)	25050	25.11.2009	Permanent	OBC
3	Subject Matter Specialist	Ms. Ira Sarma	SMS	Horticulture	15600 – 39000 (GP-6000)	23610	05.08.2011	Permanent	Others
4	Subject Matter Specialist	Mr. Sanjib Ranjan Borah	SMS	Soil Science	15600 – 39000 (GP- 7000)	34160	05.02.2014	Permanent	OBC
5	Subject Matter Specialist	Ms. Binapani Deka	SMS	Home Science	15600 – 39000	21000	04.02.2014	Permanent	Others
6	Subject Matter Specialist	Mr. Sameeron Bhattacharjya	SMS	Agronomy	15600 – 39000	21000	01.12.2014	Permanent	Others
7	Programme Assistant	Mr. Biraj Bikash Sharma	Prog. Asst.	Fishery Science	8000 – 35000 (GP-4900)	12900	07.10.2014	Permanent	Others

8	Computer Programmer	Mr. Shantanu Saikia	Prog. Assistant (Computer)	Computer Science	8000 – 35000 (GP-4900)	17820	08.11.2008	Permanent	Others
9	Farm Manager	Mr. Ramen Kalita	Farm Manager	Agriculture	8000 – 35000 (GP-4900)	12900	14.10.2011	Permanent	OBC
10	Superintendent/ Accountant	Mr. Dibyajyoti Bharali	Accountant cum Office Superintendent	NA	8000 – 35000 (GP-4900)	13690	21.02.2012	Permanent	SC
11	Stenographer	Mr. Biman Jyoti Phukan	Stenographer cum Computer Operator	NA	8000 – 35000 (GP-3300)	9030	18-2-2012	Permanent	OBC
12	Driver	Mr. Pankaj Borah	Driver	NA	5200- 20200 (GP-2500)	8180	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)	13210	11.12.2007	Permanent	Others
15	Supporting staff	Mr. Krishna Sarma	Peon	NA	5200- 20200 (GP-2100)	1055033	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, fruit, 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

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	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 (6nos)	-	-	-	-	-	-	-
	a. PC quarter (1no)	ICAR	30.09.09	108.47	8,24,177	-	-	-
	b. SMS quarters (2nos)	ICAR	06.03.09	76.65 x 2	11,83,565	-	-	-
	c. Farm manager & Pas quarter (2nos)	ICAR	30.09.09	96.90	7,73,824	-	-	-
	d. Supporting Staff quarters (1no)	ICAR	06.05.09	37.80	3,14,300	-	-	-
4.	Demonstration Units (15)							
	1. Cattle shed	RKVY	2010	36.45	2,33,972.00	-	-	-
	2. Vermicompost unit	RKVY	2010	46.80	1,41,774.00	-	-	-
	3. Mushroom Unit	RKVY	2010	27.00	1,99,515.00	-	-	-
	4. Poultry Shed	RKVY	2011	44.40	3,41,368.00	-	-	-
	5. Goattery unit	RKVY	2011	34.20	2,49,305.00	-	-	-
	6. Implement shed	RKVY	2010	170.00	9,40,866.00	-	-	-
	7. Piggery unit	RKVY	2010	41.04	2,80,000.00	-	-	-

	8. Dem. unit (Display unit)	RKVY	2011	93.50	7,74,700.00	-	-	-
	9. Fertilizer godown	RKVY	2011	22.79	1,63,000.00	-	-	-
	10. Rice- Fish-Vegetable Unit	RKVY	2011	5332 (4 bighas)	2,00,000.00	-	-	-
	11. Fish pond	RKVY	2010	50m x 20m	68,533.00	-	-	-
	12. Deep tube well with distribution line	RKVY	2011	287.60 running m.	4,10,509.00	-	-	-
	13. 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	-	Running condition

C) Equipments & AV aids

Sl. No.	Name of the equipment	Source of Fund	Year of purchase	Cost (Rs.)	Present status
1	Desktop Computer	ICAR	2007	32,000.00	Working
2	UPS	ICAR	2007	6,930.00	NotWorking
3	Laser 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	NotWorking
10	Scanner (1)	ICAR	2010	2,724.00	Working
11	Fax (1)	ICAR	2010	15,190.00	NotWorking
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, Model –sparta-37 petrol driven 2 stroke engine	RKVY	2008	-	Working
27	Multi purpose power weeder, Model –APW-43	RKVY	2008	-	Working
28	Sealing machine(8”) (1.5 x 3) mm sealing width option.	RKVY	2012	-	NotWorking
29	Earth augar, Model –MTL-51	RKVY	2008	45,967.00	Working
30	Post hole Digger accessories.	-	-	-	-
31	i. Auger for digger(6”)	RKVY	2011	3,308.00	Working
32	ii. Auger for digger(12”)	RKVY	2011	5,513.00	Working
33	iii. Auger for digger(18”)	RKVY	2011	9,371.00	Working
34	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 plough -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	-	NotWorking
53	Autoclave: Table top	RKVY	2011	8,810.00	Working
54	Autoclave vertical, media make, Model-7440PAD, Size-40x60 cm	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	NotWorking
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 2014-15 : Nil

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

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

2. DETAILS OF DISTRICT

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

Sl. No	Farming system/enterprise
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)

Sl. 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

Sl. 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

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

Sl. 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.	Sesame	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.	Areca nut	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'14	256.9	26.0	17.1	82
May'14	138.2	31.6	20.1	80
June'14	235.7	31.0	25.4	83
July'14	421.3	33.4	27.6	82
August'14	305.8	32.6	27.8	85
September'14	238.5	30.2	25.4	86
October'14	101.4	30.7	21.1	88
November'14	7.0	27.7	16.0	78
December'14	6.8	23.0	11.1	79
January'15	0.0	24.3	9.3	74
February'15	11.3	26.7	13.1	72
March'15				

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 (Average)
Indigenous	474886		
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			
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

Category	Area	Production	Productivity
Fish			
Marine			
Inland	43553.49 ha	10468.68 t	0.24 t/ha
Prawn			
Scampi			
Shrimp			

Note: Pl. provide the appropriate Unit against each enterprise

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

Sl. No.	Taluk	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified thrust area
1	Teok	Kaliapani	Boloma Moran Gaon	Vegetables	1. Unawareness about scientific crop production 2. Nematode infestation in cucurbitaceous vegetables 3. Low participation of women in agriculture	1. ICM 2. Processing and value addition 3. Entrepreneurship development 4. Women empowerment 5. IPM
2	Kakojan	Sipahikhola	Fesual - II	Vegetable, Dairy, rice, fishery, duckery	1. Lack of scientific knowledge in crop production especially for vegetables 2. Lack of organized milk market 3. Lack of knowledge about management of group 4. Lack of knowledge and skill on scientific fish rearing	1. ICM and IPM on vegetables 2. Group marketing 3. Integrated livestock production and management 4. Group mobilization 5. Composite fish farming
3	Garmur	Kamalabari, Majuli	Mahkinagaon, 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	1. Introduction of newly released variety 2. Integrated crop management 3. IPM for vegetables 3. Marketing

4	Lahing	Selenghat	Siram Missing gaon	Rice, piggery, poultry	1. Low yield of local rice variety 2. Lack of knowledge about cultivation practices of HYV Sali rice. 3. Problem of water stagnation during planting period 3. Poor growth of pig 4 Incidence of diseases of poultry and pig 5. Lack of knowledge of farm women about livestock management	1. Introduction of HYV of sali rice 2. ICM and IPM 3 Integrated livestock management 4. Integrated poultry management 5. Women empowerment
5	Teok	Sipahikhola	Bailunggaon	Vegetables, rice, tea, poultry, fruits	1. Lack of knowledge on management practices of vegetables 2. Low production of fruits, especially banana 3. Low performance of desi poultry birds	1. ICM and IPM of fruits and vegetables 2. Integrated poultry farming 3. Mobilization of CIG
6	Lahing	Selenghat	Changmaigaon, Adarsha gaon	Tea, goatery and poultry	1. Non availability of scented Sali HYV 2. Low production of local scented varieties	1. Introduction of scented HYV of Sali rice
7	Lahing	Selenghat	Haloapathar	Rice, rabi Vegetables, potato	1. Lack of knowledge about scientific cultivation of high value vegetables 2. Non availability of quality seeds and planting material	1. ICM and IPM for high value vegetables 2. Group mobilization 3. Entrepreneurship development
8	Simaluguri	Kaliapani	Dhemajigaon	Rice, Banana, poultry	1. Lack of commercial attitude towards banana cultivation 2. Non availability of quality planting material 3. Low yield of fruit crops 4. High mortality of poultry	1. ICM of fruit crops 2. Production of quality planting material of banana 3. Group mobilization 4. Integrated disease management of poultry

9	Teok	Kaliapani	Kaowimari	Rice, fishery, vegetable, livestock	1. Monocropping 2. Low yield of available rice varieties 3. Lack of scientific knowledge about natural fish farming	1. Group mobilization 2. Wasteland utilization through boro rice cultivation and community fish farming
10	Lahing	Selenghat	Majkuri	Sali rice, vegetable, livestock	1. High incidence of pests and diseases of vegetables 2. Lack of knowledge on judicious application of pesticides 3. Lack of knowledge on scientific cultivation of high value vegetables	1. ICM and IPM of vegetables 2. Production of quality paddy seeds 3. 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	Simaluguri	Kaliapani	Kaliapani gohaingaon	Banana	1. Low productivity, Water scarcity during winter	1. Introduction of integrated crop management
13	Simaluguri	Kaliapani	Amtol	Black pepper	1. Lack of quality planting material 2. 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	1. Water management of rice 2. Rain water harvesting
15	Garumara	Dhekergarah	Ganakbari	Vegetables, rice	1. Lack of knowledge on water management practices	1. Water management
16	Meleng	Sipahikhola	Sudamoa gaon	Rice, vegetables	1. Low yield of rice 2. Under-utilization of existing fallow lands	1. Crop intensification 2. ICM and IPM of rice 3. Group mobilization

17	Mariani		Kheremiagaon, Danigaon, Bongaon, Bahonigaon, Newsonowal missingaon	Winter and kharif vegegtable, Potato, rapeseed, black peper, banana, goatery, duckery, pine apple	1. Low productivity of traditionl vaiety. 2. Unawareness of scientific production technology 3. Unscientific horticultural pocket. 4. Under utilization of natural resources.	1. Organic vegetable and fruit production. 2. Entrepreneurship development for rural youths and farm women. 3. Integrated Nutrient Management. 4. Increasing crop productivity through scientific management 5. Introduction of improved bred of pig and poultry suitable for backyard rearing. 6. IPDM in crop and vegetables.
18	Kamalabari	Majuli Development Block	Mahkina gaon**,** Bhakat chapari, Danigaon, Borbarigaon, Gormur, Kamalabari, Gormur, Aauniati	Sali rice, rapeseed & mustard, rabi vegetables, potato, garlic, apiary piggery, fish production	1. Low crop productivity 2. Unawareness of scientific production technology 3. Pest and disease incidence especially in vegetables 4. Injudicious use of pesticides 5. Traditional low productive pig, duck poultry production. 6. Lack of management of natural depression for fish production	1. Integrated farming systems 2. Entrepreneurship development for rural youths and farm women. 3. Integrated Nutrient Management. 4. Increasing crop productivity through scientific management 5. Integrated livestock production and management 6. Introduction improved bred of pig, duck and poultry suitable for backyard rearing. 7. IPDM in crop and vegetables.

19	Fesual	Central Devevelopment Block, Chipahikhola	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 Mushroom	1. Mono cropping 2. Unorganised marketing of Milk, Kharif and Winte vegetable 3. Water scarcity during winter season 4. Lack of awareness about child care and nutrition 5. Pest and disease incidence 6. Injudicious use of chemical pesticides	1. Rain water harvesting 2. Increasing crop productivity through scientific management 3. Orgnanised marketing under group approach. 4. Integrated pest and disease management 5. Entrepreneurship development for rural youths 6. Integrated farming systems 7. Women empowerment
20	Ellengmora	Dhekorgora Development Block	Namdeori, Upardeori, Bahfola, Koriamari,Neolgaon,Loliti, Kolia, Dhudang, Malowkhat	Kharif & Rabi Vegetables, Piggery, Poultry	1. Low yielding variety 2. Unawareness of scientific production technology 3. Pest and disease incidence especially in vegetables 4. Injudicious use of pesticides 5. Traditional low productive pig, duck poultry production. 6. Lack of management of natural depression for fish production	1. Integrated pest and disease management on vegetables 2. Group marketing 3. Integrated livestock production and management 4. Integrated farming systems 5. Introduction improved bred of pig, duck and poultry suitable for backyard rearing. 6. Integrated Nutrient Management 7. Production of quality piglets.

3. TECHNICAL ACHIEVEMENTS

3. A. Details of target and achievements of mandatory activities by KVK during 2014-15

Discipline	OFT (Technology Assessment and Refinement)				FLD (Oilseeds, Pulses, Maize, Other Crops/Enterprises)			
	Number of OFTs		Number of Farmers		Number of FLDs		Number of Farmers	
	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
Plant Breeding/ Agronomy	4	6	12	18	3	9	33	422
Horticulture	2	6	18	18	4	5	8	34
Soil Science	3	7	15	21	3	3	9	9
Animal Science	3	3	9	9	1	1	3	20
Home Science	3	3	14	14	3	3	25	25
Plant Protection	-	-	-	-	1	1	3	3
Total	**15**	**25**	**68**	**80**	**15**	**22**	**81**	**513**

Note: Target must be as set during last Action Plan Workshop: **Not applicable**

Training (including sponsored, vocational and other trainings carried under Rainwater Harvesting Unit)					Extension Activities			
3					4			
Number of Courses			Number of Participants		Number of activities		Number of participants	
Clientele	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
Farmers	Referred to Section 3.3				Referred to section 3.4			
Rural youth								
Extn. Functionaries								
Vocational								
Total								

Seed Production (ton.)		Planting material (Nos. in lakh)	
5		6	
Target	Achievement	Target	Achievement
Referred to section 3.5 A		Referred to section 3.5 B	

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

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

Sl. No	Thrust area	Crop/ Enterprise	Identified problems	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Varietal Performance	Sali paddy Variety *Podumoni*	Absence of long grained premium aromatic rice variety	Assessment of Semi deep water aromatic rice variety KDML 105 (Padumoni)	-	-	-	Field visit	Seed, fertilizer, plant protection chemical
2	Varietal Performance	Sali paddy	Lack of good HYV for post flood situation	-	Demonstration on post flood Sali paddy variety "*Luit"*	-	-	Field visit	Seed, fertilizer, plant protection chemical
3	Varietal Performance	Sali paddy	Narrow HY varietal range for double cropped situation	-	Demonstration of mid duration Sali paddy varieties (120- 130 day) for double cropped areas,(*Variety- TTB-404 & Mulagabharu*)			Field visit	Seed, fertilizer, plant protection chemical
4	Varietal Performance	Sali paddy	Recurrent flash floods kills most of the existing Sali paddy varietis	Testing of Submergence tolerant rice varieties IR-64 Sub- 1 & PSBR 82C Sub- 1	-	-	-	Field visit	Seeds, fertilizers
5	Varietal Performance	Sali paddy	Low yield of existing medium duration (130-135d)Sali varieties for double cropped areas	Varietal evaluation of medium duration Sali Rice variety NDR 8002 & TTB 404	-	-	-	Field visit	Seeds, fertilizers

6	Varietal Performance	Sali paddy variety *Improved Samba Mashuri*	Comparatively low yield and neck blast disease problem in Mashuri	Varietal evaluation of Sali Rice variety *Improved Samba Mashuri*	-	-	-	Field visit	Seeds, fertilizers
7	Varietal Performance	Sali paddy variety TTB-303-2-23 and TTB-303-1-42	Popularization of new HY Sali paddy varieties for waterlogged situation	-	Demonstration of paddy variety suitable for waterlogged situation(variety TTB-303-2-23 and TTB-303-1-42)	-	-	Field visit, Field Day	Seed, fertilizer, plant protection chemical
8	Varietal Performance	Sali paddy variety Gitesh and Swarna Sub 1	Popularization of new HY Sali paddy varieties for staggered planting (Gitesh) and waterlogged situation (Swarna Sub 1) and non availability of quality seed.		Demonstration cum seed production of paddy variety Gitesh and Swarna sub1(Under foundation seed production programme)	-	-	Field visit, Field Day	Seed, fertilizer, plant protection chemical
9	Varietal Performance	Sali paddy variety Black Rice	Popularization of high valued Sali paddy variety with good medicibnal property		Demonstration of Black Rice Variety of Paddy			Field visit, Field Day	Seed, fertilizer, plant protection chemical
10	Varietal Performance	Boro paddy variety Joymati	Popularization of HY boro paddy variety		Demonstration of Boro rice variety Joymati (Under Technology Showcasing)			Field visit, Field Day	Seed, fertilizer, plant protection chemical
11	Varietal Performance	Toria variety TS-67	Absence of high yielding toria variety under Sali rice-toria sequence (late sown condition)	Varietal performance of new late sown Toria variety TS-67 in Jorhat district.	-	-	-	Field visit	Seeds, fertilizers,

12	Varietal Performance	Toria variety i TS- 38 and TS 67	Popularization of HY toria variety		Demonstration of Toria Variety TS-38 and TS-67 (Under TSP)			Field visit	Seeds, fertilizers,
13	Varietal Performance	Toria variety Lakshmi (TS- 46)	Introduction of new HYV of toria	Varietal performance of new Toria variety Lakshmi (TS- 46) in Jorhat district		-	-	Field visit	Seeds, fertilizers,
14	Varietal Performance	Green gram Variety- Pratap	Popularization of HY green gram variety		Demonstration of Green Gram Variety Pratap	-	-	Field visit	Seeds, fertilizers,
15	Varietal Performance	Dwarf *Dolichos* var IIHR Sel-1	Lack of high yielding determinate(dwarf) var of *Dolichos*	Varietal evaluation of determinate *Dolichos* variety IIHR Sel-1	-	-	-	-	Seeds fertilizers, pesticides
16	Varietal Performance	Brinjal var. Longai	Narrow varietal range of premium quality brinjal variety	Varietal evaluation of brinjal variety Longai	-	-	-	-	Seeds fertilizers, pesticides
17	Varietal Performance	Banana	Low yield and disease problem in local cavandish	-	Demonstration of tissue cultured banana var. *Grand Naine*	Scientific cultivation of banana	-	-	Suckers, fertilizers, pesticides
18	Varietal performance	Sugarcane Variety : Kolong" & "Doria"	Low cane and suger yield of local varieties		Demonstration on HYV sugarcane variety "Kolong" & "Doria"			Field Day	Sugarcane sett, fertilizer, plant protection chemical
19	Nutrient management	Sali paddy	Lack of awareness regarding INM practices and non adoption of integrated nutrient management practices in Rice.		INM in Sali Rice		INM in Sali Rice	Field Day	Seed, bio-fertilizer, fertilizer, plant protection chemical

20	Nutrient management	Sali paddy	Non adoption of recommendation of Zinc in rice		Demonstration on efficacy of Zinc in rice productivity	-	-	Field Day	Seed, fertilizer, plant protection chemical
21	Nutrient management	Sali paddy	High spikelet sterility in *Sali* rice under delayed planting situation	Testing efficacy of boron foliar spray in reduction of spikelet sterility in *Sali* rice	-	-	-	Field visit	Seed, fertilizer, plant protection chemical
22	Nutrient management	Sali paddy	Non availability of precise site specific fertilizer recommendation in rice	Soil Test crop response correlation studies (STCR-IPNS) on crop rice var. Ranjit	-	-	-	Field visit	Seed, fertilizer, plant protection chemical
23	Nutrient management	Black gram	Yield reduction due to non adoption potash management practice	-	Demonstration on potash management in Black Gram	-	-	Field visit	Seed, bio-fertilizer, fertilizer, plant protection chemical
24	Nutrient management	Lathyrus	Non adoption of integrated nutrient management practices in Lathyrus and lack of awareness about low BOAA containing Lathyrus variety	INM in Lathyrus under Rice Utera condition (Lathyrus Variety: *Ratan*)	-	-	-	-	Seed, bio-fertilizer, fertilizer, plant protection chemical

25	Nutrient management	Lentil	i. Lentil is not cultivated as a double cropping sequence crop in the district ii.Non adoption of proper integrated nutrient management practices in Lentil	INM in Lentil	-	-	-	-	Seed, bio-fertilizer, fertilizer, plant protection chemical
26	Nutrient management	Black gram	Soil health deterioration due to continuous use of only inorganic fertilizer	Assessment of efficacy of Bio-fertilizer in Kharif Blackgram productivity	-	-	-	-	Seed, bio-fertilizer, fertilizer, plant protection chemical
27	Organic cultivation	Cabbage	Indiscriminate use of chemical fertilizers & pesticides leading to health and environmental hazards	Testing of Organic cultivation package for cabbage	-	-	-	-	Seeds, Vermicompost, biofertilizer
28	Organic cultivation	Okra	Indiscriminate use of chemical fertilizers & pesticides	Organic cultivation of early summer okra	-	-	-	-	Seeds, Vermicompost, biofertilizer
29	Soil Amendment	Green gram	High soil acidity leads to low phosphorus availability and thus reduce yield	Acid soil management in Kharif green gram (Var. Pratap)	-	-	-	-	Seed, fertilizer, lime, plant protection chemical

30	Resource conservation Technology	Vermicompost	Slow decomposition rate of rice stubbles	Improved method of Vermicomposting for efficient conversion of rice stubble into good quality compost	-	-	-	-	Earth worm spp, Polythene, Bambo0
31	Integrated weed management	Brinjal	High cost of production due to manual weeding	Weed management in Brinjal	-	-	-	-	Weedicides, seeds, fertilizers
32	Integrated weed management	Chilli	High cost of production due to manual weeding	Weed management in chilli	-	-	-	-	Weedicides, seeds, fertilizers
33	Mulching	Tuberose	Low yield and poor quality of flower	-	Year round quality flower production of tuberose by using black plastic mulch	-	-	-	Bulbs, Black plastic mulch, fertilizers, pesticides
34	Orchard rejuvenation	Khasi mandarin	Low production from ill managed orchard	-	Rejuvenation of Khasi Mandarin orchard	Commercial cultivation of Assam lemon	-	-	Fertilizers, pesticides, lime
35	Crop management	Brinjal-okra	Low income from single rabi vegetable crop after harvest of Sali rice	-	Demonstration of Brinjal-okra cropping sequence	Production technology of some solanaceous vegetable	-	Field day	Seeds, fertilizers, pesticides
36	Crop management	Broccoli	Lack of awareness among farmers towards broccoli cultivation	-	Cultivation of broccoli (var Pusa KTS 1)	-	-	Field visit	Seeds, fertilizers, pesticides
37	IPM	Maize	Lack of awareness of technology against the bird damage in maize	-	Wrapping of maize cobs along with installation of reflective ribbons for IPM in maize crop	-	-	-	Seed, fertilizer, reflective ribbon

38	Livestock housing management	Poultry	lack of low cost cage rearing system in hybrid layer, Poor production potential of indigenous birds	Testing low cost cage rearing system of hybrid layer bird (Variety- BV-300)	-	-	-	Field visit	Breed, Feed , vaccine, medicine
39	Breed introduction	Duckery	Lack of awareness towards the highly productive duck breeds Khaki Campbel.		Demonstration on productive performance of Khaki Cambel duck in Jorhat District	-	-	Demonstration, Field visit	Breed, Feed , vaccine, medicine
40	Breed introduction	Poultry	Lack of poultry birds having very low rearing cost. Lack of availability of low cholesterol containing meat and high vitamin containing egg.	Performance evaluation of Japanese Quail in Jorhat district				Field visit	Breed, Feed , vaccine, medicine
41	Breed improvement	Goattery	Poor body weight gain of nondescript local goat	Up gradation of local goat through AI with Beetal buck semen	-	-	-	-	AI straw
42	Energy saving tools	Drum seeder (4-row drum seeder, 2- row drum seeder)	Inappropriate farming tools for farm women	Testing the efficacy of women friendly drum seeder	-	-	-	Field visit	4-row drum seeder, 2- row drum seeder
43	Energy saving tools	Weeding tools(Weeding fork, push- pull weeder, garden shovel)	Inappropriate farming tools for farm women	Performance evaluation of some women friendly hand weeding tools	-	-	-	-	Weeding fork, push- pull weeder, garden shovel)

44	Natural Food colorant	Colour extract of Beet root, annatto, roselly, turmeric	Excessive use of synthetic color	Addition of Natural food colorant in processed food products				Demonstration	Colour extract of Beet root, annatto, roselly, turmeric
45	Nutritional Gardening	Vegetables	Poor nutrition supplementation of the rural poor	-	Nutritional Gardening for micro nutrient supplementation	-	-	Demonstration	Seedlings, organic inputs
46	Drudgery reducing tools	Farm implements	Non availability of drudgery reducing tools	-	Performance study of AAU modified MB plough, helical blade puddler, improved yoke suitable for local bullock of Assam	-	-	Demonstration	AAU modified MB plough, helical blade puddler, improved yoke
47	Drudgery reducing tools	Farm implements	Non availability of drudgery reducing tools for women		Demonstration on drudgery reducing hand gloves during harvesting of rice	-	-	demonstration	hand gloves

3.1 Achievements on technologies assessed and refined during 2014-15

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation	4	2			2					8
Seed / Plant production										
Weed Management					2					2
Integrated Crop Management										
Integrated Nutrient Management	2		4		2					8
Integrated Farming System										
Mushroom cultivation										
Drudgery reduction	2									2
Farm machineries										
Value addition						1				1
Integrated Pest Management										
Integrated Disease Management										
RCT (vermicomposting)										1
Small Scale income generating enterprises										
TOTAL										22

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

A.2. **Abstract of the number of technologies refined* in respect of crops/enterprises 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 Management										
Integrated Farming System										
Mushroom cultivation										
Drudgery reduction										
Farm machineries										
Post Harvest Technology										
Integrated Pest Management										
Integrated Disease Management										
Resource conservation technology										
Small Scale income generating enterprises										
TOTAL										

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

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

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
Evaluation of Breeds		1						2
Nutrition Management								
Disease of Management								
Value Addition								
Production and Management		1		1				
Feed and Fodder								
Small Scale income generating enterprises								
TOTAL								

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								

A.5. Results of On Farm Testing

<table>
<tr><th>Sl. No.</th><th>Title of OFT</th><th>Problem Diagnosed</th><th>Name of Technology Assessed</th><th>Crop/ Cropping system/ Enterprise</th><th>No. of Trials</th><th>Results of Assessment/ Refined (Data on the parameter should be provided)</th><th>Feedback from the farmer</th><th>Feedback to the Researcher</th><th>B.C. Ratio (if applicable)</th></tr>
<tr><td>1</td><td>Testing of submergence tolerant rice varieties IR64 Sub-1 & PSBR 82 C Sub 1</td><td>Lack of HY submergence tolerant paddy varieties</td><td>submergence tolerant rice varieties IR64 Sub-1 & PSBR 82 C Sub 1</td><td>Sali paddy</td><td>03</td><td>Referred to the table given below</td><td>All the varieties performed well in submerged condition.</td><td>The two varieties IR64 Sub-1 & PSBR 82 C Sub 1 can be recommender for flood prone area</td><td>Referred to the table given below</td></tr>
<tr><td colspan="10">Variety : IR64 Sub-1, PSBR 82 C Sub 1, Swarna Sub 1 (Check)
Location : 03 (Dangdhora, Borpachi, Hemlai Kumoldoria gaon)
Area: 0.39 ha (0.13 ha each location)
Date of transplanting: 10.08.14, 25.07.14, 01.08.14
Date of Harvesting : 15.11.14, 14.11.14, 28.11.14
Land situation : Lowland , flood prone
Flood stress: Recurring flood from late June- early Sept (4 flashes)

<table>
<tr><th>Parameters</th><th>IR64 Sub-1</th><th>PSBR 82 C Sub 1</th><th>Check (Swarna Sub 1)</th></tr>
<tr><td>Plant ht (cm)</td><td>103.7</td><td>102.45</td><td>97.26</td></tr>
<tr><td>Effective tiller no.</td><td>11.23</td><td>10.87</td><td>12.41</td></tr>
<tr><td>Days to maturity (days)</td><td>142</td><td>145</td><td>140</td></tr>
<tr><td>Pest & Disease</td><td>Negligible</td><td>Negligible</td><td>Negligible</td></tr>
<tr><td>Yield (t/ha)</td><td>4.92</td><td>4.47</td><td>5.12</td></tr>
<tr><td>Gross cost (Rs/ha)</td><td>27100</td><td>27100</td><td>27100</td></tr>
<tr><td>Gross return Rs/ha)</td><td>66420</td><td>60345</td><td>69120</td></tr>
<tr><td>Net return (Rs/ha)</td><td>39320</td><td>33308</td><td>42020</td></tr>
<tr><td>B.C Ratio</td><td>2.45</td><td>2.22</td><td>2.55</td></tr>
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<table>
<tr>
<td>2</td>
<td>Testing of Semi deep water aromatic rice variety KDML 105 (Padumoni)</td>
<td>Absence of SDW long grained aromatic rice variety</td>
<td>Semi deep water aromatic rice variety KDML 105 (Padumoni)</td>
<td>Sali paddy</td>
<td>02</td>
<td>Referred to the table given below</td>
<td>Padumoni performed well in the semi deep water condition. Local check could not compete with the situation</td>
<td>Can be recommended as aromatic long grained premium paddy variety for SDW condition.</td>
<td>Referred to the table given below</td>
</tr>
<tr>
<td colspan="5">Variety : KDML-105(Padumoni);
Kola joha (Check)
Location : 02 (Borkhelia and Kolbari)
Area: 0.26 ha (0.13 ha each location)
Date of transplanting: 01.07.14 & 3.07.14
Date of Harvesting : 17.11.2014 & 21.11.14
Land situation : Lowland , flood prone
Flood stress: Recurring flood from late June-early Sept.</td>
<td colspan="5">
<table>
<tr><th>Parameters</th><th>KDML 105 (Padumoni)</th><th>Check (Kola Joha)</th></tr>
<tr><td>Plant height</td><td>115.3 cm</td><td rowspan="8">Total damage during tillering Stage due to flood.</td></tr>
<tr><td>Effective tiller no.</td><td>12.4</td></tr>
<tr><td>Days to maturity (days)</td><td>160</td></tr>
<tr><td>Pest & Disease</td><td>Negligible</td></tr>
<tr><td>Yield (t/ha)</td><td>3.78</td></tr>
<tr><td>Gross cost (Rs/ha)</td><td>27100</td></tr>
<tr><td>Gross return (Rs/ha)</td><td>56700</td></tr>
<tr><td>Net return(Rs)</td><td>29600</td></tr>
<tr><td>B.C Ratio</td><td>2.09</td></tr>
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<table>
<tr><td>3</td><td>Varietal evaluation of medium duration Sali Rice variety NDR 8002</td><td>Low yield of existing medium duration (130-135d) Sali varieties for double cropped areas</td><td>Medium duration Sali variety NDR8002</td><td>Sali paddy</td><td>01</td><td>Referred to the table given below</td><td>Both the varieties performed well but TTB 404 is in terms of yield and duration</td><td>Both the varieties have Farmers acceptance</td><td>Referred to the table given below</td></tr>
<tr><td colspan="9">Variety : NDR 8002,
TTB 404 (Check)
Location : 01 (Khonamukh)
Area: 0.13 ha
Land situation : Medium land

<table><tr><th>Parameters</th><th>NDR 8002</th><th>TTB 404 (Check)</th></tr><tr><td>Date of sowing</td><td>15.06.14</td><td>15.06.14</td></tr><tr><td>Date of transplanting</td><td>05.07.14</td><td>05.07.14</td></tr><tr><td>Date of harvesting</td><td>27.10.14</td><td>23.10.14</td></tr><tr><td>Plant height (cm)</td><td>115.27</td><td>110.45</td></tr><tr><td>Effective tiller no.</td><td>11.72</td><td>13.27</td></tr><tr><td>Days to maturity (days)</td><td>132</td><td>129</td></tr><tr><td>Pest & Disease</td><td>Negligible</td><td>Negligible</td></tr><tr><td>Yield (t/ha)</td><td>3.64</td><td>4.14</td></tr><tr><td>Gross cost (Rs/ha)</td><td>27100</td><td>27100</td></tr><tr><td>Gross return (Rs/ha)</td><td>49140</td><td>55890</td></tr><tr><td>Net return(Rs)</td><td>22040</td><td>28790</td></tr><tr><td>B.C Ratio</td><td>1.81</td><td>2.06</td></tr></table></td></tr>
</table>

<table>
<tr><td rowspan="2">4</td><td rowspan="2">Varietal evaluation of Sali Rice variety Improved Samba Mashuri</td><td rowspan="2">Introduction of new HY variety</td><td>Sali Rice variety Improved Samba Mashuri</td><td>Sali paddy</td><td>01</td><td>Referred to the table given below</td><td>Improved samba mashuri could not compete with Ranjit in terms of yield</td><td>Improved samba mahsuri is not accepted by farmers</td><td>Referred to the table given below</td></tr>
<tr><td></td><td></td><td colspan="5">Variety : Improved Samba Mahsuri, Ranjit(Check)
Location : 01 (Tipomia)
Area: 0.13 ha
Land situation : Medium land

<table><tr><th>Parameters</th><th>Improved samba mahsuri</th><th>Ranjit (Check)</th></tr><tr><td>Date of sowing</td><td>15.06.14</td><td>15.06.14</td></tr><tr><td>Date of transplanting</td><td>05.07.14</td><td>05.07.14</td></tr><tr><td>Date of harvesting</td><td>27.11.14</td><td>29.11.14</td></tr><tr><td>Plant height (cm)</td><td>110.78</td><td>117.52</td></tr><tr><td>Effective tiller no.</td><td>11.37</td><td>15.62</td></tr><tr><td>Days to maturity (days)</td><td>143</td><td>152</td></tr><tr><td>Pest & Disease</td><td>Negligible</td><td>Negligible</td></tr><tr><td>Yield (t/ha)</td><td>3.92</td><td>5.81</td></tr><tr><td>Gross cost (Rs/ha)</td><td>27100</td><td>27100</td></tr><tr><td>Gross return (Rs/ha)</td><td>52920</td><td>78435</td></tr><tr><td>Net return(Rs)</td><td>25820</td><td>51335</td></tr><tr><td>B.C Ratio</td><td>1.95</td><td>2.89</td></tr></table></td></tr>
</table>

<table>
<tr><td rowspan="2">5</td><td rowspan="2">Varietal performance of new late sown Toria variety TS- 67 in Jorhat district.</td><td rowspan="2">Lack of late sown HY toria variety suitable for rice-toria cropping sequence</td><td>Late sown HY toria variety TS 67</td><td>Toria</td><td>02</td><td>Referred to the table given below</td><td>TS-67 performed well but TS 36 failed to produce a good yield in the late sown condition.</td><td>TS-67 may be recommended for late sowing condition and suitable for paddy-toria double cropping.</td><td>Referred to the table given below</td></tr>
<tr><td></td><td colspan="8">Variety : TS- 67, TS-36 (Check)
Location : 02 (Haldibari(Majuli) and Borkhelia
Area: 0.39 ha
Land situation : Medium land

<table><tr><th>Parameters</th><th>TS-67</th><th>TS-36(check) (Check)</th></tr><tr><td>Date of sowing</td><td>10.12.14</td><td>10.12.14</td></tr><tr><td>Date of harvesting</td><td>05.03.15</td><td>05.03.14</td></tr><tr><td>Plant height (cm)</td><td>112.85</td><td>82.45</td></tr><tr><td>Days to maturity</td><td>85</td><td>85</td></tr><tr><td>No of siliqua /plant</td><td>257.43</td><td>120.12</td></tr><tr><td>Disease-pest</td><td>Negligible</td><td>Negligible</td></tr><tr><td>Yield (q/ha)</td><td>8.75</td><td>4.97</td></tr><tr><td>Gross cost (Rs/ha)</td><td>14,800</td><td>14,800</td></tr><tr><td>Gross return (Rs/ha)</td><td>26,250</td><td>14910</td></tr><tr><td>Net return (Rs/ha)</td><td>11,450</td><td>90</td></tr><tr><td>B.C Ratio</td><td>1.77</td><td>1.01</td></tr></table></td></tr>
</table>

<table>
<tr><td rowspan="2">6</td><td rowspan="2">Varietal performance of new Toria variety Lakshmi (TS- 46) in Jorhat district</td><td rowspan="2">Introduction of new HYV of toria</td><td>New HY normal sown variety Lakshmi (TS 46)</td><td>Toria</td><td>02</td><td>Referred to the table given below</td><td>Yield of Lakshmi (TS-46) & TS-36 is at par.</td><td>TS-46 may be notified for seed multiplication for normal sowing condition</td><td>Referred to the table given below</td></tr>
<tr><td></td><td colspan="8">Variety : Lakshmi(TS- 46), TS-36 (Check)
Location : 02 (Birinabari (Majuli) and Borkhelia)
Area: 0.39 ha
Land situation : Medium land

<table><tr><th>Parameters</th><th>Lakshmi(TS-46)</th><th>TS-36(check)</th></tr><tr><td>Date of sowing</td><td>01.11.14</td><td>01.11.14</td></tr><tr><td>Date of harvesting</td><td>09.02.15</td><td>09.02.14</td></tr><tr><td>Plant height (cm)</td><td>112.85</td><td>82.45</td></tr><tr><td>Days to maturity</td><td>87</td><td>87</td></tr><tr><td>No of siliqua /plant</td><td>264.27</td><td>268.23</td></tr><tr><td>Disease-pest</td><td>Negligible</td><td>Negligible</td></tr><tr><td>Yield (q/ha)</td><td>10.14</td><td>10.45</td></tr><tr><td>Gross cost (Rs/ha)</td><td>14,800</td><td>14,800</td></tr><tr><td>Gross return (Rs/ha)</td><td>30420</td><td>31350</td></tr><tr><td>Net return (Rs/ha)</td><td>15620</td><td>16550</td></tr><tr><td>B.C Ratio</td><td>2.05</td><td>2.11</td></tr></table></td></tr>
</table>

<table>
<tr>
<td>7</td>
<td>Testing efficacy of boron foliar spray in reduction of spikelet sterility in Sali rice</td>
<td>High spikelet sterility in Sali rice under delayed planting situation</td>
<td>Foliar application of Boron in rice (one spraying of 4ppm boron at anthesis)</td>
<td>Winter Paddy</td>
<td>3</td>
<td>Referred to the table given below</td>
<td>Farmers are satisfied</td>
<td>Technology may be recommanded</td>
<td>Referred to the table given below</td>
</tr>
<tr>
<td colspan="10">
Locations: 1. Puronimotia, 2. Janji 3. Bamunpukhuri
Area: 1 bigha in each location
Variety: Ranjit
Date of transplanting: Puronimotia-02-08-14
Janji- 06-08-14
Bamunpukhuri- 04-08-14
<table>
<tr><th>Parameters</th><th>Technology</th><th>Control</th></tr>
<tr><td>Plant height</td><td>98.67 cm</td><td>102 cm</td></tr>
<tr><td>Effective tiller no.</td><td>12</td><td>11.5</td></tr>
<tr><td>Grain per panicle</td><td>240</td><td>245</td></tr>
<tr><td>% of chaffy grain</td><td>8.67</td><td>12.0</td></tr>
<tr><td>Days to maturity</td><td>152.33days</td><td>155 days</td></tr>
<tr><td>Yield</td><td>4.02 t/ha</td><td>3.80 t/ha</td></tr>
<tr><td>Gross cost (Rs)</td><td>27100</td><td>27000</td></tr>
<tr><td>Gross return(Rs)</td><td>40200</td><td>38000</td></tr>
<tr><td>Net return(Rs)</td><td>13100</td><td>11000</td></tr>
<tr><td>B.C Ratio</td><td>1.48</td><td>1.40</td></tr>
</table>
</td>
</tr>
</table>

<table>
<tr><td>8</td><td>INM in Lathyrus under Rice Utera condition (Lathyrus Variety: Ratan)</td><td>Non adoption of integrated nutrient management practices in Lathyrus and lack of awareness about low BOAA containing Lathyrus variety</td><td>INM

Top dressing of 5: 13 kg N : P2O5/ha at sowing and 5: 13:15 kg N : P2O5: K2O/ha at rice harvest along with seed inoculation with Rhizobium & PSB @ 50 g/kg of seed and two sprays of 2 % urea at branching(45 DAS) and pod initiation (80 DAS) stages</td><td>Winter Rice-Lathyrus sequence</td><td>3</td><td>Referred to the table given below</td><td>In progress</td><td>Referred to the table given below</td></tr>
<tr><td colspan="8">Variety: Ratan
Location: Allengmora, Neol Gaon, Loliti
Area : 0.13 ha in each location
Date of sowing: 22-10-14 in all locations

<table><tr><td>Parameters</td><td>Treatment</td><td>Farmers practice</td></tr><tr><td>Nutrient Status (pre)</td><td>pH-4.96,
Av. N-367 kg/ha,
Av.P_2O_5-17.6 kg/ha
Av. K_2O-99.0 kg/ha</td><td>pH-4.55,
Av. N-380 kg/ha,
Av.P_2O_5-20.6 kg/ha,
Av. K_2O-88.30 kg/ha</td></tr><tr><td>Nutrient Status (post)</td><td colspan="2">Not harvested</td></tr><tr><td>Plant height</td><td>90cm</td><td>88cm</td></tr><tr><td>Plant Stand</td><td>84 plants/ sq m</td><td>85 plants/ sq m</td></tr><tr><td>Pod/ plant</td><td>36</td><td>27</td></tr><tr><td>Seed/ pod</td><td>4.5</td><td>3.0</td></tr><tr><td>Yield</td><td colspan="2">Not harvested</td></tr><tr><td>Gross return</td><td>-</td><td>-</td></tr><tr><td>Net return</td><td>-</td><td>-</td></tr><tr><td>B.C Ratio</td><td>-</td><td>-</td></tr></table></td></tr>
</table>

<table>
<tr><td>9</td><td>Integrated Nutrient Management in Lentil</td><td>i. Lentil is not cultivated as a double cropping sequence crop in the district

ii.Non adoption of proper integrated nutrient management practices in Lentil</td><td>INM

T1= 50% RD+1t vermicompost /ha+ 2 spray of 2% urea at branching and pod initiation

T2 =75% RD+0.5t vermicompost /ha+ 2 spray of 2% urea at branching and pod initiation

T3 =Farmers practice</td><td>Lentil</td><td>3</td><td>Referred to the table given below</td><td>In progress</td><td>Referred to the table given below</td></tr>
<tr><td colspan="8">Variety :
Location: Allengmora, Neol Gaon1 Neol Gaon2
Area : 0.13 ha in each location
Date of sowing: Allengmora = 02-11-14
Neol Gaon-1 = 02-11-14
Neol Gaon2= 06-11-14

<table><tr><th>Parameters</th><th>Treatment</th><th>Farmers practice</th></tr><tr><td>Nutrient Status (pre)</td><td colspan="2">Soil test report not yet received</td></tr><tr><td>Plant height</td><td>58cm</td><td>35cm</td></tr><tr><td>No of branches/plant</td><td>16</td><td>12</td></tr><tr><td>No of Pod/ plant</td><td>33</td><td>27</td></tr><tr><td>100 seed weight</td><td colspan="2">Crop not harvested</td></tr><tr><td>Seed yield/ha</td><td>-</td><td>-</td></tr></table></td></tr>
</table>

<table>
<tr><td>10</td><td>Assessment of efficacy of Bio-fertilizer in Kharif Blackgram productivity</td><td>Soil health deterioration due to continuous use of only inorganic fertilizer</td><td>Biofertilizer

Seed inoculation with Rhizobium and PSB each @50g/ kg seed</td><td>Black gram</td><td>3</td><td>Referred to the table given below</td><td>Farmers are satisfied</td><td>Technology may be recommanded</td><td>Referred to the table given below</td></tr>
<tr><td colspan="10">Variety:
Location: Bormukoli-1, Bormukoli-II, Allengmora
Area: 0.13ha in each location
Date of sowing: Bormukoli-1= 02-09-14
Bormukoli-II =06-09-14
Allengmora = 06-09-14

<table><tr><td>Nutrient Status</td><td>pH-4.32,
Av. N-301 kg/ha,
Av.P_2O_5-16.6 kg/ha,
Av. K_2O-123 kg/ha</td><td>pH-4.85,
Av. N-366 kg/ha,
Av.P_2O_5-18 kg/ha,
Av. K_2O-131kg/ha</td></tr><tr><td>Plant height</td><td>58 cm</td><td>52cm</td></tr><tr><td>Plant Stand/sq m</td><td>29</td><td>27</td></tr><tr><td>Pod/ plant</td><td>42</td><td>30</td></tr><tr><td>Seed/ pod</td><td>7</td><td>5</td></tr><tr><td>Seed yield (q/ha)</td><td>9.4</td><td>6.1</td></tr><tr><td>Gross cost</td><td>15200</td><td>15200</td></tr><tr><td>Gross return</td><td>42300</td><td>27450</td></tr><tr><td>Net return</td><td>27100</td><td>12250</td></tr><tr><td>B.C Ratio</td><td>2.78</td><td>1.80</td></tr></table></td></tr>
</table>

<table>
<tr><td>11</td><td>Acid soil management in Kharif Green gram (Var. Pratap)</td><td>High soil acidity leads to low phosphorus availability and thus reduce yield</td><td>Management of acid soil

Application of 33% of lime requirement and 2% urea spray at pod initiation stage along with recommended dose of fertilizer</td><td>Green gram</td><td>3</td><td>Referred to the table given below</td><td>Farmers are satisfied</td><td>Technology may be recommended but soil testing should be assured</td><td>Referred to the table given below</td></tr>
<tr><td colspan="10">Variety: Pratap
Location: Bormukoli-1, Bormukoli-II, Allengmora
Area: 0.13ha in each location
Date of sowing: Bormukoli-1= 10-09-14
Bormukoli-II =08-09-14
Allengmora = 08-09-14

<table>
<tr><th>Parameters</th><th>Treatment</th><th>Farmers practice</th></tr>
<tr><td>Lime (t/ha)</td><td>3.23</td><td>No lime</td></tr>
<tr><td>Nutrient Status</td><td>pH-4.55,
Av. N-288 kg/ha,
Av.P_2O_5-20.6 kg/ha,
Av. K_2O-132. kg/ha</td><td>pH-4.65, Av.
N-310 kg/ha,
Av.P_2O_5-22 kg/ha,
Av. K_2O-128kg/ha</td></tr>
<tr><td>Plant height</td><td>58 cm</td><td>54cm</td></tr>
<tr><td>Plant Stand/sq m</td><td>22</td><td>20</td></tr>
<tr><td>Pod/ plant</td><td>42</td><td>27</td></tr>
<tr><td>Seed/ pod</td><td>7</td><td>4.5</td></tr>
<tr><td>Seed yield (q/ha)</td><td>6.8</td><td>5.2</td></tr>
<tr><td>Gross cost</td><td>24900</td><td>21670</td></tr>
<tr><td>Gross return</td><td>54400</td><td>41600</td></tr>
<tr><td>Net return</td><td>29500</td><td>19930</td></tr>
<tr><td>B.C Ratio</td><td>2.18</td><td>1.91</td></tr>
</table></td></tr>
</table>

<table>
<tr><td>12</td><td>Soil Test crop response correlation studies (STCR-IPNS) on crop rice var. Ranjit</td><td>Non availability of precise site specific fertilizer recommendation in rice</td><td>Fertilizer recommendation based on soil test report

T1=farmers practice

T2= state recommendation

T3= NPK fertilizer based on soil test value</td><td>Rice</td><td>6</td><td>Referred to the table given below</td><td>Farmers are interested towards the technology</td><td>Further 1-2 years trial is needed as this is the first year of the trial</td><td>Referred to the table given below</td></tr>
<tr><td colspan="9">Variety: Ranjit
LocationDangdhora, Borpachi, Puranimatia
Area: 0.26ha in each location
Date of transplanting: Dangdhora= 05.07-14
Borpachi- 30.06.14
Puarnaimatia = 08-07-14

<table><tr><td>Parameters</td><td>T1</td><td>T2</td><td>T3</td></tr><tr><td>Land situation</td><td>Medium land</td><td>Medium land</td><td>Medium land</td></tr><tr><td>Yield</td><td>4.2 t/ha</td><td>4.96 t/ha</td><td>4.87 t/ ha</td></tr><tr><td>Gross cost</td><td>25900</td><td>27100</td><td>26800</td></tr><tr><td>Gross return</td><td>42000</td><td>49600</td><td>48700</td></tr><tr><td>Net return</td><td>21700</td><td>22500</td><td>21900</td></tr><tr><td>B.C Ratio</td><td>1.62</td><td>1.83</td><td>1.81</td></tr><tr><td>Pest & disease</td><td colspan="3">Negligible</td></tr></table></td></tr>
</table>

<table>
<tr><td>13</td><td>Improved method of Vermicompostin g for efficient conversion of rice stubble into good quality compost</td><td>Slow decomposition rate of rice stubbles</td><td>1.Substitution of weed biomass by 20% with rice stubble in Vermicompost production.
2.Weed biomass: rice stubble in 4:1 on dry wt. basis</td><td>Vermicomposting</td><td>3</td><td>Referred to the table given below</td><td>In progress</td><td>Referred to the table given below</td></tr>
<tr><td colspan="8">In progress
<table><tr><th>Parameters</th><th>Bamunpukhuri</th><th>Dekadehingia</th><th>Bamunpukhuri Tiniali</th></tr><tr><td>Date of earthworm release</td><td>25.01.15</td><td>25.01.15</td><td>25.01.15</td></tr></table></td></tr>
<tr><td>14</td><td>Testing of Organic cultivation package for cabbage</td><td>Indiscriminate use of chemical fertilizers & pesticides leading to health and environmental hazards</td><td>Biofertilizer and organic cultivation package i.Azotobacter 7.5g + PSB 7.5g for treatment of 100g seeds, ii.Vermicompost 5t/ha , iii.Rock phosphate 375kg/ha and mustard as trap crop</td><td>Cabbage</td><td>3</td><td>Referred to the table given below</td><td>Farmers are satisfied</td><td>Technology may be recommanded</td><td>Referred to the table given below</td></tr>
<tr><td colspan="8">Variety: Golden Acre
Location: Bamunpukhuri, Khanamukh, Tulasijan
Area: 0.39 ha
Date of planting: 10.10.14
<table><tr><th>Parameters</th><th>Technology</th><th>Farmers practice</th></tr><tr><td>Number of Wrapper leaves</td><td>38</td><td>29</td></tr><tr><td>Weight of head (kg)</td><td>1.2</td><td>0.6</td></tr><tr><td>Yield (t/ha)</td><td>25.5</td><td>13.00</td></tr><tr><td>Net return (Rs)</td><td>236000</td><td>90000</td></tr><tr><td>B:C</td><td>4.37</td><td>3.25</td></tr></table></td></tr>
</table>

<table>
<tr><td>15</td><td>Varietal evaluation of brinjal variety Longai</td><td>Narrow varietal range of premium quality brinjal variety</td><td>Premium brinjal variety Longai</td><td>Brinjal</td><td>3</td><td>Referred to the table given below</td><td>Farmers are satisfied</td><td>Technology may be recommanded</td><td>Referred to the table given below</td></tr>
<tr><td colspan="10">Variety: Longai
Location: Puranimatia, Bamunpukhuri, Kaliapani
Area: 0.39 ha
Date of planting: 12.10.14
<table><tr><th>Parameters</th><th>Technology</th><th>Farmers practice (Local var)</th></tr><tr><td>Plant height (cm)</td><td>80 .5</td><td>75</td></tr><tr><td>Number of fruits/plant</td><td>12</td><td>12</td></tr><tr><td>Fruit length (cm)</td><td>32.5</td><td>25</td></tr><tr><td>Weight of fruit/plant (kg)</td><td>1.5</td><td>1.2</td></tr><tr><td>Yield(t/ha)</td><td>33</td><td>26</td></tr><tr><td>Net return (Rs)</td><td>280000</td><td>210000</td></tr><tr><td>B:C</td><td>6.6</td><td>5.2</td></tr></table></td></tr>
<tr><td>16</td><td>Organic cultivation of early summer okra</td><td>Indiscriminate use of chemical fertilizers & pesticides</td><td>Biofertilizer and organic cultivation package i.Azotobacter 7.5 g+ PSB 7.5 g for treatment of 100g seeds, ii.FYM 5t/ha, iii.vermicompost 1t/ha, Rock phosphate 320 kg /ha</td><td>Okra</td><td>3</td><td>Referred to the table given below</td><td>Farmers are satisfied</td><td>Technology may be recommanded</td><td>Referred to the table given below</td></tr>
<tr><td colspan="10">Variety: Arka Anamika
Location: : Khanamukh, Tulasijan, Bamunpukhuri,
Area: 0.39 ha
Date of sowing : 10.12.14
<table><tr><th>Parameters</th><th>Technology</th><th>Farmers practice (Local var)</th></tr><tr><td>Plant height (cm)</td><td>130</td><td>110</td></tr><tr><td>Fruit length (cm)</td><td>20</td><td>15</td></tr><tr><td>Wt. of fruit/plant (kg)</td><td>0.8</td><td>0.5</td></tr><tr><td>Yield(t/ha)</td><td>24</td><td>15</td></tr><tr><td>Net return (rs)</td><td>190000</td><td>110000</td></tr><tr><td>B:C</td><td>4.8</td><td>3.75</td></tr></table></td></tr>
</table>

<table>
<tr><td rowspan="2">17</td><td rowspan="2">Varietal evaluation of determinate Dolichos variety IIHR Sel-1</td><td rowspan="2">Lack of high yielding determinate(dwarf) var of Dolichos</td><td rowspan="2">Determinate (Dwarf) Dolichos variety IIHR Sel-1</td><td>Dolichos bean</td><td>3</td><td>Referred to the table given below</td><td>Farmers are satisfied</td><td>Technology may be tested further</td><td>Referred to the table given below</td></tr>
<tr><td colspan="6">Locations: Puranimotia, Bamunpukhuri, charingiagaon
Area:0.39ha
Date of sowing: 12.10.2014
<table><tr><th>Parameters</th><th>Technology</th><th>Farmers practice (Vine type)</th></tr><tr><td>Plant height(cm)</td><td>65.5cm</td><td>>850 cm</td></tr><tr><td>Number of beans/plant</td><td>70</td><td>>200</td></tr><tr><td>No. of pickings</td><td>3</td><td>numerous</td></tr><tr><td>Days to first harvest</td><td>65 days</td><td>90 days</td></tr><tr><td>plant population/ ha</td><td>27777</td><td>4444</td></tr><tr><td>Crop duration</td><td>102 days</td><td>>200days</td></tr><tr><td>Bean yield/plant</td><td>1kg</td><td>3kg</td></tr><tr><td>Yield(t/ha)</td><td>16t/ha</td><td>13.3 t/ha</td></tr><tr><td>Net return</td><td>130000</td><td>103000</td></tr><tr><td>B:C</td><td>5.33</td><td>4.43</td></tr></table></td></tr>
<tr><td>18</td><td>Weed management in brinjal</td><td>High cost of production due to manual weeding</td><td>Oxadiargyl 90 g/ha followed by garden hoeing at 30 and 60 DAP</td><td>Brinjal</td><td>3</td><td colspan="4">Variety: Bor Bengena
Location: : Charingia gaon Bhagamukh, Khanamukh, Area: 0.39 ha
Date of planting : 10.01.15

Vegetative stage</td></tr>
<tr><td>19</td><td>Weed management in chilli</td><td>High cost of production due to manual weeding and dearth of agricultural labourers</td><td>Pre emergence application of Metrobuzin 500g/ha followed by garden hoeing at 30and 60 DAP</td><td>Chilli</td><td>3</td><td colspan="4">Variety : Tejaswini
Location: : Bhagamukh, Khanamukh, Charingia gaon
Area: 0.39 ha
Date of sowing : 11.01.15

Vegetative stage</td></tr>
</table>

<table>
<tr><td>20</td><td>Testing low cost cage rearing system of hybrid layer bird (Variety-BV-300)</td><td>Lack of low cost cage rearing system in hybrid layer, Poor production potential of indigenous birds</td><td>low cost cage rearing system of hybrid layer bird (Variety- BV-300)</td><td>Poultry</td><td>3</td><td>Referred to the table given below</td><td>Farmers are satisfied</td><td>Technology may be tested further</td><td>Referred to the table given below</td></tr>
<tr><td colspan="10">
Location: Goal Gaon(2), Hanhsara

Starting date : May 2014
<table>
<tr><th>Parameters</th><th>Low cost cage rearing</th><th>Normal layer rearing</th></tr>
<tr><td>Body weight at first egg</td><td>1.15kg</td><td>1.06kg</td></tr>
<tr><td>Age at first egg</td><td>112days</td><td>110</td></tr>
<tr><td>Egg weight</td><td>35 g (First Egg)
50 g (3rd month of lay)</td><td>35 g (First Egg)
50 g (3rd month of lay)</td></tr>
<tr><td>Egg production</td><td>Contd.</td><td></td></tr>
</table>
</td></tr>
<tr><td>21</td><td>Performance evaluation of Japanese Quail in Jorhat district</td><td>Lack of poultry birds having very low rearing cost. Lack of availability of low cholesterol containing meat and high vitamin containing egg.</td><td>Japanese Quail (Breed-CARI Uttam)</td><td>Poultry</td><td>2</td><td>Referred to the table given below</td><td>Farmers are interested</td><td>Technology may be further popularized among farmers as a low cost source of nutritional security</td><td>Referred to the table given below</td></tr>
<tr><td colspan="10">
Location: Khanamukh, Goal Gaon

No. of birds : 85 nos

Date of distribution- 6-7-2014
<table>
<tr><th>Parameters</th><th>Result</th></tr>
<tr><td>Body weight at 6th week</td><td>210g</td></tr>
<tr><td>Age at first egg</td><td>42days</td></tr>
<tr><td>Egg weight</td><td>9 g (First Egg)</td></tr>
<tr><td>Average egg weight</td><td>14 g</td></tr>
<tr><td>Egg production in three months (average each bird)</td><td>70</td></tr>
</table>
</td></tr>
</table>

<table>
<tr><td>22</td><td>Up gradation of local goat through AI with Beetal buck semen</td><td>Poor body weight gain of nondescript local goat</td><td>AI with Beetal Buck semen straw</td><td>Goat</td><td>70</td><td>Referred to the table given below</td><td>Farmers are satisfied</td><td>Technology may be popularized</td><td>Referred to the table given below</td></tr>
<tr><td colspan="10">
Location: Near by villages of KVK, Jorhat

No. of AI: 70 nos
<table>
<tr><th>Parameters</th><th>Result</th></tr>
<tr><td>Conception rate</td><td>58%</td></tr>
<tr><td>No of kids per litter</td><td>1(80%), 2(20%)</td></tr>
<tr><td>Average body weight at birth</td><td>1.07kg</td></tr>
<tr><td>Average body weight at 3 months</td><td>1.79kg</td></tr>
</table>
</td></tr>
<tr><td>23</td><td>Testing the efficacy of women friendly drum seeder</td><td>Inappropriate farming tools for farm women</td><td>Drum seeder (4-row drum seeder, 2- row drum seeder)</td><td>Rice</td><td>6</td><td>Referred to the table given below</td><td>Both drum seeders are same but in case of small one it is easier to take the turn in corners of the field</td><td>Two row drum seeder is more women friendly</td><td>-</td></tr>
<tr><td colspan="10">
Location : Allengmora
Date of testing: 15-06-2014
No. of women tested : 6
<table>
<tr><th>Parameters</th><th>Result</th></tr>
<tr><td>Average HB After 15 min use</td><td>94 (Normal average HB of the respondents=77/minute)</td></tr>
<tr><td>Average HB After 45 minutes use</td><td>109</td></tr>
<tr><td>Area Covered</td><td>Area Covered
i.4-row paddy seeder:)- 0.06 ha/hr
ii. 2- row paddy seeder =0.04 ha/hr (The seed rate used between 60 and 80 kg/hr in seeder)</td></tr>
</table>
</td></tr>
</table>

<table>
<tr>
<td>24</td>
<td>Performance evaluation of some women friendly hand weeding tools</td>
<td>Inappropriate farming tools for farm women</td>
<td>Weeding fork, push- pull weeder, garden shovel</td>
<td>Maize, Vegetables</td>
<td>9</td>
<td>Referred to the table given below</td>
<td>Farmers liked the push pull weeder as it is convenient for them</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td colspan="9">
Location : Allengmora

Date of testing: May 2014

No. of women tested : 9
<table>
<tr><th>Implement</th><th>Suitability</th><th>Area covered/ hour</th><th>Weeding Index</th><th>Heart rate</th></tr>
<tr><td>Weeding Fork</td><td>Convenient for weeding in comparison to Khurpi</td><td>150 m^2</td><td>92 (Demo)
70 (Local)</td><td>129.66 (fork weeder)
134 (using khurpil)</td></tr>
<tr><td>Push –pull weeder</td><td>Convenient for weeding in comparison to spade</td><td>160 m^2</td><td>96 (Demo)
75 (Local)</td><td>138 (Push pull weeder)

153 (Spade)</td></tr>
<tr><td>Garden shovel</td><td>Convenient for weeding in comparison to spade</td><td>160 m^2</td><td>95 (Demo)
75 (Local)</td><td>134 (Garden shovel))
153 (Spadel)</td></tr>
</table>
</td>
</tr>
</table>

<table>
<tr><td rowspan="2">25</td><td rowspan="2">Addition of Natural food colorant in processed food products</td><td rowspan="2">Excessive use of synthetic color</td><td rowspan="2">Colour extract of Beet root, annatto, roselly, turmeric</td><td>Natural food colourant</td><td>3 groups
(50 members)</td><td>Referred to the table given below</td><td>Farmers become aware about the natural food colour</td><td>More research in food colorant required</td><td>-</td></tr>
<tr><td colspan="8">Location : Dangdhara, Bamunpukhuri, Kaliapani
<table>
<tr><th>Parameters</th><th>Result</th></tr>
<tr><td>Colour</td><td>Attractive & pleasant colour
Lighter than synthetic colur
In case of baked products natural colour exists only after the addition of salt</td></tr>
<tr><td>Flavour</td><td>Pleasant flavour</td></tr>
<tr><td>Taste</td><td>Addition of natural colour did not effect the taste of the products</td></tr>
<tr><td>Nutrient content</td><td>Additional nutrients also added from color extracts to the original food products</td></tr>
<tr><td>Cost</td><td>Low cost</td></tr>
<tr><td>Self life</td><td>Upto 2 months in squash</td></tr>
</table></td></tr>
</table>

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

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

3.2 Achievements of Frontline Demonstrations during 2014-15

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

List of technologies demonstrated during previous year and popularized during 2014-15 and recommended for large scale adoption in the district

Sl. No	Crop/ Enterprise	Technology demonstrated	Horizontal spread of technology		
			No. of villages	No. of farmers	Area in ha
1	Paddy	Demonstration of paddy variety suitable for waterlogged situation (Variety-TTB303-2-23 , TTB 303-1-42 & Swarna Sub-1 as Check)	1	3	0.75
2	Paddy	Demonstration of mid duration *Sali* paddy varieties (120-130 days) for double cropped areas. (Variety TTB-404 & Mulagabharu)	3	6	3.00
3	Paddy	Demonstration on post flood *Sali* paddy variety-Luit	1	21	2.87
4	Sugarcane	Demonstration of high yielding sugarcane variety -Kolong and Daria	1	1	0.34
5	Blackgram	Potash management in Black gram (Variety Shekhar-1)	2	6	1.5
6	Paddy	Demonstration of efficiency of Zinc in rice productivity (Variety Ranjit)	1	3	0.40
7	Paddy	Integrated nutrient management in *Sali* rice(Variety Ranjit)	1	3	0.40
8	Tuberose	Year round quality flower production of tuberose by using black plastic mulch	1	1	0.13
9	Khasi Mandarin	Rejuvenation of Khasi Mandarin orchard	1	1	0.2
10	Brinjal	Brinjal okra cropping sequence	3	3	0.13
11	Banana	Tissue culture banana var. Grand Naine	2	2	0.13

12	Maize	Wrapping of maize cobs along with installation of reflective ribbons for IPM in maize crop	3	3	0.39
13	Poultry	Demonstration on productive performance of Khaki Cambel duck in Jorhat District	1	20	20 units
14	Vegetables	Nutritional Gardening for micro nutrient supplementation	3	3	0.18
15	Rice	Performance study of AAU modified MB plough, helical blade puddler, improved yoke suitable for local bullock of Assam	1	15	0.13
16	Rice	Demonstration on drudgery reducing hand gloves during harvesting of rice	1	7	0.13
17	Toria	Demonstration of Toria Variety TS-38 and TS-67 (Under TSP)	7	205	193
18	Rice	Demonstration cum seed production of paddy variety Gitesh and Swarna sub1(Under foundation seed production programme	6	134	68.25
19	Rice	Demonstration of Black Rice Variety of Paddy	2	4	1.0
20	Rice	Demonstration of Boro rice variety Joymati (Under Technology Showcasing)	1	44	13.33
21	Pulse	Demonstration of Green Gram Variety Pratap	3	4	3.33
22	Vegetables	Demonstration of hybrid broccoli variety Pusa KTS-1	3	28	3.73

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

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

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achieve ment	Farming situation (Rainfed/ Irrigated, Soil type, altitude, etc)	Status of soil (Kg/ha)		
												N	P	K
					Proposed	Actual	**SC/ST**	**Others**	**Total**					
A.Cereals														
1	Paddy	Nutrient management	Efficiency of Zinc in rice productivity(Variety Ranjit)	Kharif, 2014-15	0.40	0.40	2	1	3	-	Rainfed, Sandy loam			
2	Paddy	INM	Integrated nutrient management in *Sali* rice(Variety Ranjit)	Kharif, 2014-15	0.40	0.40	2	1	3	-	Rainfed, Sandy loam			
3	Paddy	Varietal performance	Paddy variety suitable for waterlogged situation (Variety-TTB303-2-23 , TTB 303-1-42 & Swarna Sub as Check)	Kharif, 2014-15	0.75	0.75	2	1	3	-	Rainfed, Sandy loam			
4	Paddy	Varietal performance	Mid duration *Sali* paddy varieties (120-130 days) for double cropped areas. (Variety TTB-404 & Mulagabharu)	Kharif, 2014-15	3.00	3.00	6	-	6	-	Rainfed, Sandy loam			
5	Paddy	Varietal performance	Post flood *Sali* paddy cultivation. (Variety-Luit)	Kharif, 2014-15	2.87	2.87	1	20	21	-	Rainfed, Clay loam			

6	Paddy	Varietal performance	Demonstration cum seed production of paddy variety Gitesh and Swarna sub1(Under FS production programme)	Kharif, 2014	-	68.25	60	74	134		Rainfed, Clay loam			
7	Paddy	Varietal performance	Demonstration of Black Rice Variety of Paddy	Kharif, 2014	-	1.00	2	2	4		Rainfed, Clay loam			
8	Paddy	Varietal performance	Demonstration of Boro rice variety Joymati (Under Technology Showcasing)	Rabi, 2014-15	-	13.33	20	24	44		Rainfed, Clay loam			
B. Sugar crop														
1	Sugarcane	Varietal performance	High yielding sugarcane (Variety. Kolong and Daria)	2014-15	0.34	0.34	-	1	1	-	Rainfed, Sandy			
C. Pulses														
1	Blackgram	Nutrient Management	Potash management in Black gram (N: P_2O_5:K_2O@ 15: 35:10 kg/ha)	Kharif 2014-15	1.5	1.5	1	1	2	-	Rainfed, Sandy loam/ clay loam			
2.	Green Gram	Varietal performance	Demonstration of Green Gram Variety Pratap	Kharif 2014-15	-	3.33	2	2	4	-	Rainfed, Sandy loam			
D. Oil seed														
1.	Toria	Varietal performance	Demonstration of Toria Variety TS-38 and TS-67	Rabi 2014-15	-	193	205	-	205	-	Rainfed, Sandy loam			

E. Horticulture

1.	Khasi Mandarin	Orchard rejuvenation	Rejuvenation of Khasi Mandarin orchard	Year round	0.2ha	0.2ha	1	-	1	-	Rainfed sandy loam			
2.	Tissue culture banana	Varietal evaluation	Tissue culture banana var. Grand Naine	Year round	0.13 ha	0.13 ha	1	1	2	-	Rainfed sandy loam			
3.	Brinjal ,Okra	Crop management	Brinjal okra cropping sequence	Rabi & summer season	0.15 ha	0.15 ha	1	2	3	-	Rainfed sandy loam			
4.	Tuberose	Integrated weed management	Year round quality flower production of tuberose by using black plastic mulch	Year round	0.13 ha	0.13 ha	-	1	1	-	Rainfed sandy loam			
5.	Brocoli	Crop management	Demonstration of hybrid broccoli variety Pusa KTS-1	Rabi 2014-15	-	3.73	28	-	28	-	irrigated sandy loam			

F. Plant Protection

1	Maize	IPM	Wrapping of maize cobs along with installation of reflective ribbons for IPM of maize crops	Rabi 2014-15	0.39	0.39	2	1	3	-	Rainfed sandy loam			

c. Performance of FLD on Crops

Sl. No.	Crop	Thematic area	Area (ha.)	Avg. yield (Q/ha.)		% increase in Avg. yield	Additional data on demo. yield (Q/ha.)		Data on parameters other than yield, e.g., disease incidence, pest incidence etc.		Econ. of demo. (Rs./ha.)				Econ. of check (Rs./Ha.)			
				Demo.	Check		H*	L*	Demo	Local	GC**	GR**	NR**	BCR**	GC	GR	NR	BCR
Cereals:																		
1	Paddy(Variety Ranjit)	Nutrient management	0.40	58.0	42.0	38.09	62.4	53.15	No major pest & disease	No major pest & disease	27100	58000.	30900	2.14	23450	42200	18750	1.80
2	Paddy(Variety Ranjit)	INM	0.40	54.0	41.2	31.06	56.45	52.25	-do-	-do-	25850	54000	28150	2.09	23250	41200	17950	1.77
3	Paddy (Variety-TTB303-2-23 , TTB 303-1-42 & Swarna Sub as Check)	Varietal performance	0.75	35.0 (TTB303-2-23)	22.0 (local))	59.09	51.57	48.67	-do-	-do-	24100	35000	10900	1.29	20100	22000	1900	1.09
				48.2 (TTB 303-1-42)	45.2 (Swarna sub)	7.07	50.87	47.78	-do-	-do-	27100	48200	21100	1.78	27100	45200	18100	1.67
4	Paddy(Variety TTB-404 & Mulagabharu)	Varietal performance	3.00	46.25 (TTB-404)	37.17 (Bihari)	24.42	50.20	44.42	-do-	-do-	27100	46250	19150	1.24	26100	37170	11070	1.42
				42.45 (Mulagabharu)	35.00	21.28	47.52	41.87	-do-	-do-	27100	42450	15350	1.56	25000	35000	10000	1.40
5	Paddy(Variety-Luit)	Varietal performance	2.87	31.45	26.75 (local check)	17.57	33.75	29.27	-do-	-do-	19200	31450	12250	1.64	19000	26750	7750	1.40

6	Paddy (Variety-Gitesh & Swarna sub 1)	Varietal performance	68.25	49.5 (Gitesh)	37.5	32	51.7	45.5	-do-	-do-	27100	49500	22400	1.83	26050	37500	11450	1.44
				46.5 (swarna sub1)	36.00	29.17	49.9	44.3	-do-	-do-	27100	46500	19400	1.72	24990	36000	11010	1.44
7	Paddy (Variety-Joymati)	Varietal performance	13.33	In progress														
8	Paddy (Var-Black rice)	Varietal performance	1	27.0	-	-	29.5	26.5	-do-	-do-	25800	89100	63300	3.45	No local check variety available			
9	Maize	IPM	0.39	52.5	22	138.63	55.8	48.6	-do-	-do-	30000	78750	48750	2.62	26.150	33000	6850	1.26
Sugar crop																		
9	Sugarcane(Variety-Kalang & Doria)	Varietal performance	0.34	629.45 (Kalang	480.30	17.17	649.74	620.24	-do-	-do-	61200	125890	64690	2.06	56200	96060	39860	1.71
				622.97 (Doria)	480.30	15.97	637.95	597.45	-do-	-do-	61200	124590	63390	2.03	56200	96060	39860	1.71
Oilseeds																		
10	Toria (Variety-TS 38 & TS 67	Varietal performance	193	10.74 (TS 38)	6.9	55.65	11.40	9.5	Do	Do	14800	32220	17420	2.17	14200	20700	6500	1.45
				10.38 (TS 67)	6.9	50.43	11.27	9.34	do	do	14800	31140	16340	2.10	14200	20700	6500	1.45
Pulse																		
11	Black gram (variety-Shekhar 1)	Nutrient Management	1.5	9.78	5.80	24.11	10.10	8..90	-do-	-do-	18210	48900	30690	2.68	15010	29000	13990	1.93
12	Green gram (Pratap)	Varietal performance	3.33	6.9	5.10	35.29	7.0	6.8	Do	Do	24100	55200	31100	2.29	24100	40800	16700	1.69

Horticultural crops

8	Brinjal okra	Crop management Vegetative stage	0.15 ha	Borbegena =222.5	Brinjal= 190	17.12	224	221	-	-	40000	333750	2935750	8.34	40000	285000	245000	7.12
9	Khasi mandarin	Orchard rejuvenation	0.2 ha	25	8.28	201	25.75	24.25	-	Pest incidence 30 percent	35000	100000	65000	2.85	20000	33120	13120	1.65
10	Tissue culture banana	Varietal evaluation	0.13 ha	-	-	-	-	-	Vegetative stage Plant height= 150 cm No of leaves= 6		-	-	-	-	-	-	-	-
11	Tuberose	Integrated weed management	0.13 ha													Started in the month of February,2015		
12	Broccoli	Crop management	3.73 ha	185.5	140	32.5	186.5	184.5	-	-	75000	371000	296000	4.54	50000	-	-	-

***H-Highest recorded yield, L- Lowest recorded yield**

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

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

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

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

d. Extension and Training activities under FLD on Crops

Sl.No.	Activity	No. of activities organized	Date	Number of participants			Remarks
				Gen	SC/ST	Total	
1	Field days	4	06.11.14,25.11.14,02.12.14,20.12.14,04.03.15	110	108	218	
2	Farmers Training	5	03.09.14& 04.09.14, 15.10.14 3-4th Sept,2014 10-11th Nov,2014 5-6th Jan,2015	2 34 28 26	24 - 24	26 34 24 28 26	
3	Media coverage	-					
4	Training for extension functionaries	-					
5	Any other (Pl. specify)	-					
	Total	**9**		**200**	**156**	**356**	

e. Details of FLD on Enterprises

(i) Farm Implements

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

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

(ii) Livestock Enterprises

Sl. No.	Enterprise/ Category (e.g., Dairy, Poultry etc.)	Thematic area	Name of Technology	No. of farmers	No. of units	No. of animals, poultry birds etc.	Major Performance parameters / indicators		% change in the parameter	Other parameters (if any)		Econ. of demo. (Rs./Ha.)				Econ. of check (Rs./Ha.)				Remarks
							Demo	Check		Demo	Check	GC**	GR**	NR**	BCR**	GC	GR	NR	BCR	
1	Poultry	Breed introduction	Duck breedKhaki Campbell	20	20	315	-	-	-	-	-	-	-	-	-	-	-	-	-	In progress

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

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

(iii) Fisheries

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

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

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

(iv) Other enterprises

Sl. No.	Category/ Enterprise, e.g., mushroom, vermicompost, apiculture etc.	Thematic area	Name of Technology	No. of farmers	No. of units	Major Performance parameters / indicators		% change in the parameter	Other parameters (if any)		Econ. of demo. (Rs./Ha.)				Econ. of check (Rs./Ha.)				Remarks
						Demo	Check		Demo	Check	GC**	GR**	NR**	BCR**	GC	GR	NR	BCR	
1	Nutritional Garden	Nutritional security	Nutritional Garden	3	-	173	140	23.57	-	-	35000	207600	172600	5.93	35000	168000	133000	4.8	
2	Performance study of AAU modified MB plough, helical blade puddler, improved yoke suitable for local bullock of Assam	Drudgery reducing tools	Performance study of AAU modified MB plough, helical blade puddler, improved yoke suitable for local bullock of Assam	15		Time: 15 hrs/ ha Area covered: MB plough : Area - 0.022 ha/h Helical blade puddler : Area - 0.07 ha/h Farmers reaction : Labour & time saving Farmers are interested to use the farm implements													
3	Drudgery reducing hand gloves	Drudgery reduction	Demonstration on drudgery reducing hand gloves during harvesting of rice	7	-	Time: 30 hrs/ person Area : 1 bigha Farmers are interested to use the gloves for drudgery reduction													

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

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

(v) Farm Implements and Machinery

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

f. Performance of FLD on Crop Hybrids:

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

**H-Highest recorded yield, L- Lowest recorded yield*

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

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

3.3. Achievements on Training

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

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

Thematic area	No. of Courses/ prog			Participants																		
				General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
	On-Campus (1)	Spon On* (2)	Total (1+2)	On (4)	Sp. On (5)	On (6)	Sp. On (7)	On (a=4+6)	Sp. On (b=5+7)	On (8)	Sp. On (9)	On (10)	Sp. On (11)	On (c=8+10)	Sp. On (d=9+11)	On (4+8)	Sp. On (5+9)	On (6+10)	Sp. On (7+11)	On (x=a+c)	Sp. On (y=b+d)	Grand Total (x + y)
I. Crop Production : Nil																						
II. Horticulture																						
a) Vegetable Crops																						
Production of low volume and high value crops	-	1	1	-	-	-	-	-	-	-	22	-	-	-	22	-	22	-	-	-	22	22
b) Fruits : Nil																						
c) Ornamental Plants																						
Propagation techniques of Ornamental Plants	-	1	1	-	-	-	-	-	-	-	17	-	-	-	17	-	17	-	-	-	17	17
d) Plantation crops : Nil																						
e) Tuber crops : Nil																						
f) Spices : Nil																						
g) Medicinal and Aromatic Plants : Nil																						
III Soil Health and Fertility Management																						
Soil fertility management	1	-	1	18	-	4	-	22	-	1	-	2	-	3	-	19	-	6	-	25	-	25
Production and use of organic inputs	-	1	1	-	22	-	-	-	22	-	-	-	-	-	-	-	22	-	-	-	22	22
IV Livestock Production and Management																						

Disease Management	-	1	1	-	18	-	-	-	18	-	-	-	-	-	-	-	18	-	-	-	18	18
V Home Science/Women empowerment																						
Household food security by kitchen gardening and nutrition gardening	-	1	1	-	-	-	-	-	-	-	22	-	-	-	22	-	22	-	-	-	22	22
Value addition	1	-	1	-	-	24	-	24	-	-	-	-	-	-	-	-	-	24	-	24	-	24
Income generation activities for empowerment of rural Women	1	-	1	-	-	10	-	10	-	-	-	-	-	-	-	-	-	10	-	10	-	10
Women and child care	1	-	1	-	-	23	-	23	-	-	-	-	-	-	-	-	-	23	-	23	-	23
VI Agril. Engineering : Nil																						
VII Plant Protection : Nil																						
VIII Fisheries																						
Integrated fish farming	1	-	1	20	-	-	-	20	-	5	-	-	-	5	-	25	-	-	-	25	-	25
IX Production of Inputs at site : Nil																						
X Capacity Building and Group Dynamics : Nil																						
XI Agro-forestry																						
TOTAL	**5**	**5**	**10**	**38**	**40**	**61**	**-**	**99**	**40**	**6**	**61**	**-**	**-**	**8**	**61**	**44**	**39**	**63**	**-**	**107**	**101**	**208**

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

Thematic area	No. of Courses/ prg.			Participants																		Grand Total
				General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
	Off	Sp Off*	Total	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	
I. Crop Production																						
Resource Conservation Technologies (IPR)	1	-	1	28	-	-	-	28	-	-	-	-	-	-	-	28	-	-	-	28	-	28
Integrated Farming	-	1	1	40	-	10	-	50	-	-	-	-	-	-	-	40	-	10	-	50	-	50
Seed production	1	-	1	34	-	-	-	34	-	-	-	-	-	-	-	34	-	-	-	34	-	34
Integrated Crop Management	1	-	1	34	-	-	-	34	-	-	-	-	-	-	-	34	-	-	-	34	-	34
II. Horticulture																						
a) Vegetable Crops																						
Production of low volume and high value crops	1	-	1	-	-	-	-	-	-	48	-	1	-	49	-	48	-	1	-	49	-	49
Nursery raising	1	-	1	27	-	-	-	27	-	-	-	-	-	-	-	27	-	-	-	27	-	27

b) Fruits																						
Cultivation of Fruit	1	-	1	-	-	-	-	-	-	46	-	4	-	50	-	46	-	4	-	50	-	50
	1	-	1	-	-	-	-	-	-	22	-	2	-	24	-	22	-	2	-	24	-	24
c) Ornamental Plants																						
Propagation techniques of Ornamental Plants	-	1	1	-	20	-	24	-	44	-	40	-	33	-	73	-	60	-	57	-	117	117
d) Plantation crops																						
Production and Management technology	1	-	1	22	-	3	-	25	-	-	-	-	-	-	-	22	-	3	-	25	-	25
e) Tuber crops																						
f) Spices																						
Production and Management technology	1	-	1	20	-	2	-	22	-	2	-	2	-	4	-	22	-	4	-	26	-	26
g) Medicinal and Aromatic Plants : Nil																						
III Soil Health and Fertility Management																						
Soil fertility management	1	-	1	57	-	-	-	57	-	2	-	-	-	2	-	59	-	-	-	59	-	59
Integrated Nutrient Management	1	-	1	2	-	-	-	2	-	18	-	6	-	24	-	20	-	6	-	26	-	26

Production and use of organic inputs	1	-	1	2	-	-	-	2	-	33	-	17	-	50	-	35	-	17	-	52	-	52
IV Livestock Production and Management																						
Piggery Management	1	-	1	-	-	-	-	-	-	50	-	-	-	50	-	50	-	-	-	50	-	50
Production of quality animal products	1	-	1	2	-	-	-	2	-	33	-	15	-	48	-	35	-	15	-	50	-	50
V Home Science/Women empowerment																						
Household food security by kitchen gardening and nutrition gardening	1	-	1	2	-	20	-	22	-	2	-	2	-	4	-	4	-	22	-	26	-	26
Value addition	1	-	1	-	-	3	-	3	-	-	-	22	-	25	-	-	-	25	-	25	-	25
	-	1	1	-	-	-	21	-	21	-	-	-	7	-	7	-	-	-	28	-	28	28
Income generation activities for empowerment of rural Women	1	-	1	-	-	20	-	20	-	-	-	-	-	-	-	-	-	20	-	20	-	20
	1	-	1	-	-	25	-	25	-	-	-	-	-	-	-	-	-	25	-	25	-	25
VI Agril. Engineering : Nil																						
VII Plant Protection : Nil																						

VIII Fisheries																					
Integrated fish farming	1	-	1	20	-	-	-	20	-	21	-	5	-	26	-	41	-	5	-	46	-	46
Carp fry and fingerling rearing	1	-	1	25	-	-	-	25	-	-	-	-	-	-	-	25	-	-	-	25	-	25
Composite fish culture	1	-	1	19	-	-	-	19	-	-	-	-	-	-	-	19	-	-	-	19	-	19
IX Production of Inputs at site : Nil																					
X Capacity Building and Group Dynamics : Nil																					
XI Agro-forestry : Nil																					
TOTAL	**21**	**3**	**24**	**334**	**20**	**83**	**45**	**417**	**65**	**277**	**40**	**76**	**40**	**353**	**80**	**751**	**85**	**360**	**85**	**770**	**145**	**915**
(B) RURAL YOUTH																					
3.3.3. Achievements on Training Rural Youth in On Campus including Sponsored On Campus Training Programmes (*Sp. On means On Campus training programmes sponsored by external agencies)																					

Thematic area	No. of Courses/ Prog			Participants																	Grand Total (x + y)
				General						SC/ST						Total					
				Male		Female		Total		Male		Female		Total		Male		Female		Total	
	On (1)	Sp On* (2)	Total (1+2)	On (4)	Sp. On (5)	On (6)	Sp. On (7)	On (a= 4+6)	Sp. On (b= 5+7)	On (8)	Sp. On (9)	On (10)	Sp. On (11)	On (c= 8+10)	Sp. On (d= 9+11)	On (4+8)	Sp. On (5+9)	On (6+10)	Sp. On (7+11)	On (x= a +c)	Sp. On (y= b +d)	
Protected cultivation of vegetable crops	1	-	1	18	-	4	-	22	-	-	-	2	-	2	-	18	-	6	-	24	-	24
Rural Crafts Income Generation	1	-	1	-	-	20	-	20	-	-	-	-	-	-	-	-	-	20	-	20	-	20
TOTAL	**2**	**-**	**2**	**18**	**-**	**24**	**-**	**42**	**-**	**-**	**-**	**2**	**-**	**2**	**-**	**18**	**-**	**26**	**-**	**44**	**-**	**44**

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

Thematic area	No. of Courses/ Prog.			Participants																		Grand Total
				General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
	Off	Sp Off	Total	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	
Production of organic inputs	1	-	1	37	-	3	-	40	-	-	-	-	-	-	-	37	-	3	-	40	-	40
Planting material production	1	-	1	24	-	3	-	27	-	-	-	-	-	-	-	24	-	3	-	27	-	27
Commercial fruit production	1	-	1	24	-	4	-	28	-	-	-	-	-	-	-	24	-	4	-	28	-	28
Small scale processing	1	-	1	3	-	22	-	25	-	-	-	7	-	7	-	3	-	29	-	32	-	32
TOTAL	**4**	**-**	**4**	**88**	**-**	**32**	**-**	**120**	**-**	**-**	**-**	**7**	**-**	**7**		**88**		**39**	**-**	**127**	**-**	**127**

C. Extension Personnel

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

Thematic area	No. of Courses/ prog			Participants																		Grand Total (x + y)
				General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
	On (1)	Sp On* (2)	Total (1+2)	On (4)	Sp. On (5)	On (6)	Sp. On (7)	On (a= 4+6)	Sp. On (b= 5+7)	On (8)	Sp. On (9)	On (10)	Sp. On (11)	On (c= 8+10)	Sp. On (d= 9+11)	On (4+8)	Sp. On (5+9)	On (6+10)	Sp. On (7+11)	On (x= a +c)	Sp. On (y= b +d)	
Integrated Pest & disease Management	1	-	1	22	-	-	-	22	-	3	-	-	-	3	-	25	-	-	-	25	-	25
Integrated Nutrient management	1	-	1	24	-	-	-	24	-	2	-	-	-	2	-	26	-	-	-	26	-	26
Total	**2**	**-**	**2**	**46**	**-**	**-**	**-**	**46**	**-**	**5**	**-**	**-**	**-**	**5**	**-**	**51**	**-**	**-**	**-**	**51**	**-**	**51**

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

Thematic area	No. of Courses/ prog.			Participants																				Grand Total
				General						SC/ST						Total								
				Male		Female		Total		Male		Female		Total		Male		Female		Total			
	Off	Sp Off*	Total	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*		
Productivity enhancement in field crops	**Nil**																							
Integrated Pest Management																								
TOTAL	**Nil**																							

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

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

Discipline	Area of training	Title of the training programme	Date (From – to)	Duration in days	Venue	Please specify Beneficiary group (Farmer & Farm women/ RY/ EP and NGO Personnel)	General participants			SC/ST			Grand Total		
							M	F	T	M	F	T	M	F	T
Crop Production	Integrated Pest & disease Management	Integrated pest & disease management in Toria	21st Nov, 14	1 day	KVK, Jorhat	RY	22	-	22	3	-	3	25	-	25
	Integrated Nutrient management	Integrated nutrient management in Pulses	25th Jan'15	1 day	KVK, Jorhat	RY	24	-	24	2	-	2	26	-	26
Horticulture	Commercial fruit production	Scientific cultivation of fruit crops	20th - 21th June'14	2 days	KVK, Jorhat	F	17	-	17	-	-	-	17	-	17
	Production of low volume and high value crops	Scientific cultivation of solanaceous vegetables	25th -26th Sept.2014	2 days	KVK, Jorhat	F	22	-	22	-	-	-	22	-	22
	Protected cultivation	Advanced production technology for off season vegetables	29th – 30th Jan'2015	2 days	KVK, Jorhat	RY	18	4	22	-	2	2	18	6	24
Soil Science	Production and use of organic inputs	Production and use of organic inputs	20th -21st June'14	2 days	KVK, Jorhat	F	-	22	-	-	-	22	-	22	
	Soil fertility management	Soil fertility management	27th- 28th Jan'15	2 days	KVK, Jorhat	F	18	4	22	1	2	3	19	6	25
Animal Science	Disease Management	Scientific management of pigs & poultry	05th – 6th May'14	2 days	KVK, Jorhat	F	18	-	-	-	-	-	18	-	18
Home Science	Household food security by kitchen gardening and nutrition gardening	Household food security by kitchen gardening and nutrition gardening	20th -21st June'14	2 days	KVK, Jorhat	F	22	-	22	-	-	-	22	-	22
	Value addition	Production of value added products of Jack fruit	5th Aug'14	1 day	KVK, Jorhat	F	-	24	24	-	-	-	-	24	24
	Women and child care	Preparation of herbal shampoo & liquid detergent	6th Aug'14	1 day	KVK, Jorhat	F	-	23	23	-	-	-	-	23	23

	Income generation activities	Preparation of value added products of Guava	26th Sep-1st Oct' 14	6 days	KVK, Jorhat	F	-	10	10	-	-	-	-	10	10
	Value addition	Production of value added assets from water hyacinth	2nd- 10th Jan'15	8 days	KVK, Jorhat	RY	-	20	20	-	-	-	-	20	20
Fishery	Integrated fish farming	Integrated fish farming	25th -26th Feb	2 days	KVK, Jorhat	F	15	-	15	10	-	10	25	-	25
Total	**14 No.s**						**194**	**107**	**261**	**16**	**4**	**42**	**210**	**111**	**299**

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

Discipline	Area of training	Title of the training programme	Date (From – to)	Duration in days	Venue	Please specify Beneficiary group (Farmer & Farm women/ RY/ EP and NGO Personnel)	General participants			SC/ST			Grand Total		
							M	F	T	M	F	T	M	F	T
Crop Production	Seed production	Quality seed production of Sali rice & safe storage of seeds	13th -14th Oct,2014	2 days	Madhapur, Titabor	F	34	-	34	-	-	-	34	-	34
	Integrated Crop Management	Management practices of sugarcane	15th oct,2014	1 day	Phulani	F	34	-	34	-	-	-	34	-	34
	Resource Conservation Technologies (IPR	Protection of plant varieties and farmers right	17th Oct, 2014	1day	Rajabari	F	28	-	28	-	-	-	28	-	28
	Integrated Farming	The role of Agriculture in developing the socio - economic cal condition of Assam	20th Oct,2014	1 day	Bishuram Barua Hall, Jorhat	F	40	10	50	-	-	-	40	10	50
Horticulture	Production of low volume and high value crops	Scientific cultivation of cucurbitaceous vegetable	3th May,204	1day	Majuli	F	-	-	-	48	1	49	48	1	49
	Cultivation of Fruit	Scientific cultivation of Assam lemon	18th June,2014	1day	Neoulgaon	F	-	-	-	50	-	50	50	-	50

		Scientific cultivation of banana	3rd -4th Sept,2014	2days	Chungi	F	-	-	-	22	2	24	22	2	24
		Commercial cultivation of important fruit crops	10-11th Nov,2014	2days	Nakachari	F	20	5	25	-	-	-	20	5	25
	Nursery raising	Advanced production technology of some solanaceous vegetables	5th -6th Jan,2015	2 days	Khanamukh	F	27	-	27	-	-	-	27	-	27
	Production and Management technology Spice	Commercial production and post harvest management of turmeric	2th -3rd March	2 days	Malowkhat	F	20	2	22	2	2	4	22	4	26
	Propagation techniques of Ornamental Plants	Training on commercial floriculture	24th June,2014	1day	AAU ,Jorhat	F	20	24	44	40	33	73	60	57	117
Soil Science	Production and use of organic inputs	Production technology of Azolla, enriched compost and vermicompost	26th June 2014	1day	Phuloni ,Majuli	F	2	-	2	33	17	50	35	17	52
	Integrated Nutrient Management	Integrated nutrient management in Sali Rice	3rd- 4th ' Sept,2014	2 days	Tamulbari	F	2	-	2	18	6	24	20	6	26
		INM in Sali Rice	18-19th Nov,2014	2days	Medeluajan	F	37	3	40	-	--	-	37	3	40
	Soil fertility management	Production technology of vermicompost, compost and azolla	20th Dec, 2014	1 day	Dhudangchapori	RY	57	-	57	2	-	2	59	-	59
	Production and Mgt tech.	Management of young tea	2nd -3rd Jan,2015	2 days	Boloma Morangaon	RY	24	3	27	-	-	-	27	-	27
Home Science	Value addition	Food Processing & preservation	27th May'14	1 day	Majuli	RY	3	22	25	-	7	7	3	29	32
	Value addition	Food Processing & preservation	16th Dec,2014	1 day	Lichubari, Jorhat	F									

	Income generation activities for empowerment of rural Women	Construction of ladies garment & school uniform	3rd – 10th Nov'14	7 days	Bamunpukhuri	FW	-	20	20	-	-	-	-	20	20
	Income generation activities for empowerment of rural Women	Ventures of Entrepreneurship development for rural women	4th March'15	1 day	Rabigaon	FW	-	25	25	-	-	-	-	25	25
	Value addition	Production of value added products from fruits & vegetables	28th Jan,15	1 day	Dangdhora, Titabar	FW	-	3	3	-	22	22	-	25	25
Fishery	Integrated fish farming	Integrated three tier fish culture and disease management in Aquaculture	15th Dec, 2014	1day	Kolbari	F	20	-	20	21	5	26	41	5	46
	Carp fry and fingerling rearing	Commonn fish diseases and their treatment measures	27th Feb, 2015	1day	Nakachari	F	25	-	25	-	-	-	25	-	25
	Composite fish culture	Recent advances in fish disease diagnosis and prevention approaches	3rd March	2days	Teok	F	27	-	27	-	-	-	27	-	27
Animal Science	Piggery Management	Scientific management of pigs and poultry	26th -27th May,2014	1day	Phulani, Ujani Majuli	F	-	-	-	50	-	50	50	-	50
	Production of quality animal products	Refreshment training programme on scientific pig farming	16th July,2014	1day	Allengmora	F	2	-	2	33	15	48	35	15	50
Total	**26 no.s**						**422**	**117**	**539**	**319**	**110**	**429**	**744**	**224**	**968**

(D) Vocational training programmes for Rural Youth

Crop / Enterprise	Date (From – To)	Duration (days	Area of training	Training title*	No. of Participants									Impact of training in terms of Self employment after training				Whether Sponsored by external funding agencies (Please Specify with amount of fund in Rs.)
					General			SC/ST			Total							
					M	F	T	M	F	T	M	F	T	Type of enterprise ventured into	Number of units	Number of persons employed	Avg. Annual income in Rs. generated through the enterprise	
Construction of ladies garment & school uniform	3rd- 10th Nov'14	7 days	Income generation	Construction of ladies garment & school uniform	-	20	20	-	-	-	-	20	20	Tailoring unit	1	3	96,000.00	-
Water hyacinth	2nd-10th Jan'15	8 days	Value addition	Production of value added assets from water hyacinth	-	20	20	-	-	-	-	20	20	Water hyacinth product development unit	1	2	24,000.00	-

*training title should specify the major technology /skill transferred

Annexure 3: Only Sponsored Training Programmes (On, Off and Vocational)

On/ Off/ Vocational	Beneficiary group (F/ FW/ RY/ EP)	Date (From-To)	Duration (days)	Discipline	Area of training	Title	No. of Participants									Sponsoring Agency	Amount of fund received (Rs.)
							General			SC/ST			Total				
							M	F	T	M	F	T	M	F	T		
On	F	20th - 21th June'1	2days	Horticulture	Commercial fruit production	Scientific cultivation of fruit crops	17	-	17	-	-	-	17	-	17	SEWA Kendra, Dibrugarh	8000
On	F	25th -26th Sept.2014	2 days	Horticulture	Production of low volume and high value crops	Scientific cultivation of solanaceous vegetables	22	-	22	-	-	-	22	-	22	SEWA Kendra, Dibrugarh	12000
On	F	20th - 21th June'1	2 days	Soil Science	Production and use of organic inputs	Production and use of organic inputs	17	-	17	-	-	-	17	-	17	SEWA Kendra, Dibrugarh	8000
On	F	20th -21st June'14	2 days	Home Science	Household food security by kitchen gardening and nutrition gardening	Household food security by kitchen gardening and nutrition gardening	22	-	22	-	-	-	22	-	22	SEWA Kendra, Dibrugarh	12000
On	F	5th -6th May,2014	**2 days**	Animal Science	Disease Management	Scientific management of pigs and poultry	18	-	18	-	-	-	18	-	18	SEWA Kendra, Dibrugarh	8000
Off	F	20th Oct,2014	**1day**	Crop production	Integrated Farming	The role of Agriculture in developing the socio - economic cal condition of Assam	40	10	50	-	-	-	40	10	50	-	2000

Off	F	24th June,2014	**1 day**	Horticulture	Propagation techniques of Ornamental Plants	Training on commercial floriculture	20	24	44	40	33	73	60	57	117	SATH GURU	50000
Off	F	16th Dec'14	**1 day**	Home Science	Value Addition	Food processing and preservation	-	21	21	-	7	7	-	28	28	SIRD, Jorhat	2500
Total							**156**	**55**	**211**	**40**	**40**	**80**	**196**	**95**	**291**		**102500**

3.4. Extension Activities (including activities of FLD programmes) (Please mention specific Extension Activity conducted by the KVK such as Field Day, Kisan Mela, Exhibition, Diagnostic Visit, etc) during 2014-15

Sl. No.	**Extension Activity**	**Topic**	**Date and duration**	**No. of activities**	**Participants**											
					General (1)			**SC/ST (2)**			**Extension Officials (3)**			**Grand Total (1+2)**		
					M	**F**	**T**	**M**	**F**	**T**	**M**	**F**	**T**	**M**	**F**	**T**
1	Advisory services	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	Diagnostic visit	-	2014-15, 1day each	60	22	10	32	20	5	25	3	-	3	45	15	60
3	Field day	Field day on demonstration of mid duration Sali paddy varieties	06.11.2014	5	-	-	-	37	3	40	1	-	1	38	3	41
		Demonstration on efficacy of Zn	25.11.2014		14	-	14	32	-	32	-	-	-	46	-	46
		Paddy varieties suitable for water logged situation	02.12.2014		-	-	-	33	-	33	-	-	-	33	-	33
		Demonstration on High yielding Sugarcane variety Doria & Kolong	20.12.2014		56	-	56	2	-	2	-	-	-	58	-	58
		Field day on Brinjal-okra cropping sequence	04.03.2014		35	5	40	-	-	-	-	-	-	35	5	40

4	Group Discussion	TSP, Technology Showcasing kharif, Technology Showcasing rabi, Three tier pig- fish-poultry, FLDs, OFTs	2014-15, 1day each	15	110	-	110	60	10	70	170	10	180	170	10	180
5	Kishan Gosthi	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	Kishan Mela	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	Film show	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	SHG formation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	Exhibition	2nd International Agri-Horti Fare'2015	10th-13th Feb'2015	2												
10		Assam International Trade & Industrial Fair'2015	19th- 25th Feb'2015													
11	Scientists visit to farmers fields		2014- 15	180												
12	Plant/ Animal Health camp	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	Farm science club	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	Ex-trainee Sammelan		-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	Farmers seminar/ workshop	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Method demonstration	Method of fertilizer application in arecanut and coconut	21th June'14	15	17	-	17	-	-	-	-	-	-	17	-	17
		Nursery raising technique	25th Sept,2014		22	-	22	-	-	-	-	-	-	22	-	22
		Production of value added products of Jack fruit	5th Aug'14		-	24	24	-	-	-	-	-	-	-	24	24
		Preparation of herbal shampoo & liquid detergent	6th Aug'14		-	23	23	-	-	-	-	-	-	-	23	23
		Production of value added assets from water hyacinth	2nd- 10th Jan'15		-	20	20	-	-	-	-	-	-	-	20	20

		Preparation of value added products of Guava	26th Sep- 1st Oct' 14		-	10	10	-	-	-	-	-	-	-	10	10
17	Celebration of important days	World environment Day	05.06.2014	2	45	35	80	9	11	20	-	-	-	54	46	100
		Radio Farmer's Day	15.02.2015	-	65	12	77	3	-	3	3	-	3	71	12	83
18	Exposure visits	Farmer's day at Titabar	04.11.2014	1												
19	Electronic media (CD/DVD)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	Extension literature	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	Newspaper coverage	Quail pill for farmers' diet- AAU says bird meat has less cholesterol and rich in Vit. A, Telegraph	3rd March													
22	Popular articles	French beanor unnata krishi paddhati. The Doinik Janambhumi, I. Sarma	24th April, 2014.													
		Bhendi khetir unnata krishi pranali. The Doinik Janambhumi, I. Sarma	24th April, 2014													
		Joibik paddhatire anarasar kheti Ghare Pathare Pashekia krishi patrika, Assam Krishi Vishyabidyalay pp.2.2014, I. Sarma	16 May, 2014													
		Jalakiyar unnata Krishi Koishal ,Ghare-Pathare Pashekia krishi patrika Assam Krishi Vishyabidyalay pp.2., I. Sarma	2014, 1 October,2014,													

		Bilahi kheti. Krishi Koushalar Hatputhi, I. Sarma	Published by ATMA, Jorhat														
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		Aquaculture Prospects of *Litopenaeus Vannamei* in India, **Sharma, B. B**., Mandal, T. And Dash G.	*AQUASTAR*, Regd. No. 67662/97, May, 2014, Vol. 20, Issue No. 7, www.aquastarmagazine.com, pp 30-33.														
		Food Borne Pathogens With Special Reference to Fishery Products, **Sharma, B. B**., Borah, D. and Dash G. 2014.	Aqua International, NRS Publication, Vol. 22, August Issue, pp 37-39.														
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		Significance of Pond Bottom Soil in Aquaculture Production System,**Sharma, B. B.** and Dash G. 2014	AQUASTAR, Regd. No. 67662/97, June, 2014, Vol. 20, Issue No. 8, www. aquastarmagazine.com, pp 77-82														

		Role of Microbes in Soil Fertility and Biodegradation, **Sharma, B. B.** and Dash G. 2014	AQUASTAR, Regd. No. 67662/97, August, 2014, Vol. 20, Issue No. 10, www.aquastarmagazine.com, pp 36-50														
		A Remark on Socio-Economic Status of Fish Traders in Tripura, India, **Sharma, B. B.** and Roy A. K. 2014	AQUATECH, Bilingual Monthly Magazine on Aquaculture, August, 2014, Vol. 13, Issue 8, pp 79-80														
		New Dimensional Approaches of Nanotechnology in The Diversified Field of Fisheries and Aquaculture, **Sharma, B. B.** and Dash G. 2015	AQUATECH, Bilingual Monthly Magazine on Aquaculture, January, 2015, Vol. 14, Issue 1, pp 78-80														
		Impact of Stress on Immunology of Fish, **Sharma, B. B.** 2014	AQUASTAR, Regd. No. 67662/97, August, 2014, Vol. 21, Issue No. 3, www.aquastarmagazine.com, pp 24-28.														
		General Approach to Common Water Quality Parameters and Disease Managements, **Sharma, B. B.** 2015	AQUASTAR, Regd. No. 67662/97, Accepted														
		Common Fungal Diseases of Fish and Their Treatment Measures, **Sharma, B. B.** 2015	AQUATECH, February 2015, Accepted.														
		Pacu (*Piaractus brachypomus*) - a Potential Species for Aquaculture Mandal, T., **Sharma, B. B**. and Dash G., 2014	*AQUASTAR*, Regd. No. 67662/97, April, 2014, Vol. 20, Issue No. 6, www.aquastarmagazine.com, pp 29-31														

		Significance of Anaesthesia with special reference to Fish Health ManagementMandal, T., **Sharma, B. B**., Paul, P. and Dash G., 2014	*AQUASTAR*, Regd. No. 67662/97, April, 2014, Vol. 20, Issue No. 6, www.aquastarmagazine.com, pp 20-25														
		Application of *Jaggery* for triumphant culture of *Pacu* (*Piaractus brachypomus*) – a report, Das, A and **Sharma, B. B**., 2014	*AQUA TECH*, Bilingual Monthly Magazine on Aquaculture, April, 2014, Vol. 13, Issue No. 4, pp 78-79														
		Approaches of Stress Alleviation in Aquaculture Practices, Das, S. K., Das, A. and **Sharma, B. B**., 2014	*AQUA TECH*, Bilingual Monthly Magazine on Aquaculture, July, 2014, Vol. 13, Issue 7, pp 74-77														
23	Radio talk	Discussion on improved production technology of field crops	28.8.2014														
		Discussion on Capsicum cultivation.	03.12.2014														
		Food & nutrition of child & role of mother	19.12.2014														
		Farmers participatory programme	20.08.2014														
		Phone in Programme	18.09.2014														
		Role of KVK in development of Agriculture & farming	16.03.2015														
24	TV talk																
25	Training manual																
26	Soil health camp																
27	Awareness camp																
28	Lecture delivered as resource	Production technology of enriched compost	11th Sep'14														

	person	& vermicompost															
		Pruning & skiffing in tea	12th Nov'14														
		Management of young tea	2nd Dec'14														
		Drainage in tea	15th Dec'14														
		Plant protection & spraying technique in tea	7th Jan'15														
		Role of Agriculture in developing socio-economic condition of Assam	20.10.2014														
		Protection of Plant variety & Farmers Right	04.03.2015														
		Production of diversified products from handloom fabric	03.02.2015														
29	PRA																
30	Farmer-Scientist interaction	Commercialization of Rice	21.11.2014	2	24	-	24	-	-	-	-	-	-	24	-	24
		Radio farmer's day	15.02.2015		65	12	77	3	-	3	3	-	3	71	12	83
31	Soil test campaign																
32	Mahila Mandal Convener meet																
33	Any other (Please specify)																
Grand Total																	

3.5 Production and supply of Technological products during 2014-15

A. SEED MATERIALS

Major group/class	Crop	Variety	Quantity (qt)	Value (Rs.)	Number of recipient/ beneficiaries		
					General	SC/ST	Total
CEREALS	Sali Paddy	Ranjit	24.50 q	80,850.00	Ready for sale		
		Mashuri	06.30 q	20,790.00			
		KDML	01.79 q	5,907.00			
		TTB 404	01.74 q	5,742.00			
		Gitesh	05.72 q	3,630.00			
		Swarna Sub-1	01.51 q	4,983.00			
		Keteki Jaha	01.46 q	4,818.00			
		Black Rice	01.52 q	5,016.00			
OILSEEDS	Sesamum	Kaliabor local	13.700 kg	1096.00			
PULSES	Black gram	Shekhar-1	31.4 kg	2826.00			
	Green gram	Pratap	24.0 kg	2160.00			
	French Bean	Dwarf white	1.04 kg	156.00			
	Dolicos bean	IIHR selection -I	1.46 kg	219.00			
VEGETABLES	Brinjal,	Brinjal var. Longai	300g	600.00	1	2	3
	Tomato	Tomato var, Megha, Cherry	300g	600.00	1	1	2
FLOWER CROPS	Marigold	Pusa Narangi	400g	400.00	1	2	3
	Gerbera	Red Gem	1500 nos suckers	7500.00	1	2	3
	Tuberose	Suhashini	2000nos bulbs	4000.00	1	-	1
	Chrysanthemum	Spray type	200nos cuttings	600.00	-	-	Used in KVK Farm
	Gladiolus	Novalaux, Sunny Boy	300 corms	1500.00	-	-	Used in KVK Farm
OTHERS (Specify)	Turmeric	Megha turmeric-1	01.49 q	8940.00	Ready for sale		

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

Sl. No.	Major group/class	Quantity (ton.)	Value (Rs.)	Number of recipient/ beneficiaries		
				General	SC/ST	Total
1	CEREALS	2.85 t	94017.00	**Not sold yet**	-	-
2	OILSEEDS	13.700 kg	1096.00	**Not sold yet**	-	-
3	PULSES	57.9 kg	5361.00	**Not sold yet**	-	-
4	VEGETABLES	3.6 kg	1500.00	3	5	8
5	FLOWER CROPS	400g seeds	400.00	1	2	3
6	OTHERS			-	-	-
TOTAL		**2.925 t**	**102374.00**	**-**	**-**	**-**

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

Major group/class	Crop	Variety	Numbers (In Lakh)	Value (Rs.)	Number of recipient beneficiaries		
					General	SC/ST	Total
Fruits	Pineapple	Kew	500 suckers	1500.00	1	1	2
	Banana	Amrit Sagar, Jahaji	300 suckers	1500.00	-	2	2
Spices	Turmeric	Megha Turmeric	1q	4000	-	-	Used in KVK Farm
Ornamental Plants	Gerbera	Red Gem	1500 nos suckers	7500.00	1	2	3
	Tuberose	Suhashini	2000nos bulbs	4000.00	1	-	1
	Chrysanthemum	Spray type	200nos cuttings	600.00	-	-	Used in KVK Farm
	Gladiolus	Novalaux, Sunny Boy	300 corms	1500.00	-	-	Used in KVK Farm
Forest Spp.							
Plantation crops							
Medicinal plants							
OTHERS (Pl. Specify)							

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

Sl. No.	Major group/class	Numbers (In Lakh)	Value (Rs.)	Number of recipient beneficiaries		
				General	SC/ST	Total
1	Fruits	800 nos suckers	3000.00	1	3	4
2	Spices	1q	4000.00	-	-	Used in KVK Farm
3	Ornamental Plants	4000 nos	13600.00	2	2	4
4	VEGETABLES	-	-	-	-	-
5	Forest Spp.	-	-	-	-	-
6	Medicinal plants	-	-	-	-	-
7	Plantation crops	-	-	-	-	-
8	OTHERS (Specify)	-	-	-	-	-
TOTAL		-	20600.00	-	-	-

C. Production of Bio-Products during 2014-15

Major group/class	Product Name	Species	Quantity		Value (Rs.)	Number of Recipient /beneficiaries		
			No	(qt)		General	SC/ST	Total
BIOAGENTS (Nil)								
BIOFERTILIZERS								
1 Vermicompost	Vermicompost	Eichinia foetida	-	29.5	29500.00	Used in KVK, farm		
2 Azolla	Azolla compost	Azolla caroleniana	-	2.0	3000.00	Used in KVK, farm		
3 Compost	Compost	-	-	12.0	12000.00	Used in KVK, farm		
BIO PESTICIDES (Nil)								

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

Sl. No.	Product Name	Species	Quantity		Value (Rs.)	Number of Recipient beneficiaries		Total number of Recipient beneficiaries
			Nos	(kg)		General	SC/ST	
1	BIOAGENTS	-	-	-	-	-	-	-
2	BIO FERTILIZERS	-	-	**4350**	-	-	-	-
3	BIO PESTICIDE	-	-	-	-	-	-	-
	TOTAL	-	-	**4350**	**44500.00**	-	-	-

D. Production of livestock during 2014-15

Sl. No.	Type of livestock	Breed	Quantity		Value (Rs.)	Number of Recipient beneficiaries		
			(Nos)	Kgs		General	SC/ST	Total
1	Cattle/ Dairy	HF (1 cow + 1 heifer)	2	-	80000.00	Kept in KVK	-	-
2	Goat	Beetle	16	-	40000.00	1	1	2
3	Piggery	Hampshire + T & D	38	-	144000.00	-	28	28
4	Poultry	BV 300	35	-	10500.00	Kept in KVK	-	-
		Vanaraja	94	-	37600.00	50	24	74
5	Fisheries	Indian major carp	-	95.93	14894.90	Sold	-	-
6	OTHERS (Pig & Goat servicing)	Pig servicing	2		1000.00	-	2	2
		Goat servicing	22	-	1100.00	7	15	22

D1. SUMMARY of production of livestock during 2014-15

Sl. No.	Livestock category	Breed	Quantity		Value (Rs.)	Number of Recipient beneficiaries		Total number of Recipient beneficiaries
			Nos	(kg)		General	SC/ST	
1	CATTLE	HF (1 cow + 1 heifer)	2	-	80000.00	Kept in KVK	-	-
2	SHEEP & GOAT	Beetle	16	-	40000.00	1	1	2
3	POULTRY	i. BV 300	35	-	10500.00	Kept in KVK	-	-
		ii. Vanaraja	94	-	37600.00	50	24	74
4.	PIGGERY	Hampshire + T & D	38	-	144000.00	-	28	28
5	FISHERIES	Indian major carp	-	95.93	14894.90	Sold	-	-
6	OTHERS (Pig & Goat servicing)	Pig servicing	2		1000.00	-	2	2
		Goat servicing	22	-	1100.00	7	15	22
	TOTAL		**209**	**95.93**	**329094.9**	**58**	**70**	**128**

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

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

(B) **Articles/ Literature developed/published**

Item	Title /and Name of Journal	Authors name	Number of copies
Research papers			
1.	Phukon, M., Sarma, I., Borgogain, R., Sarma , B. and Goswami, J. (2014) . Efficacy of *Metarhizium anisopliae*, *Beauveria bassiana* and neem oil against tomato fruit borer, *Helicoverpa armigera* under field condition. *Asian J. Bio. Sci.*,9(2): 151-155.	Phukon, M., Sarma, I., Borgogain, R., Sarma , B. and Goswami, J.	
2.	Sarma, I., Borgogain, R. and Phukon, M. (2014). Effect of post shooting application f urea and sulphate of potash at the denavelled, distal stalk end of banana cv. Borjahaji. *Asian J. Bio. Sci.*,9(2): 296-298	Sarma, I., Borgogain, R. and Phukon, M.	
3.	Sarma, I., Phukon, M., Borgogain, R., Goswami, J. and Neog, M.(2014) . Response of French bean (*Phaseolus vulgaris* L.) to organic manure, vermicompost and bio-fertilizers on growth parameters and yield. *Asian J. Hort.,*9(2): 386-389.	Sarma, I., Phukon, M., Borgogain, R., Goswami, J. and Neog, M.	

4.	Sarma, I., Phookan, D.B. and Boruah, S. (2015). Influence of manures and biofertilizers on carrot (*Daucus carota* L.) cv. Early Nantes growth, yield and quality. *Journal of Eco-friendly Agriculture*, *10* (1): 25-27.	Sarma, I., Phookan, D.B. and Boruah, S.	
5.	Improved Farm tools for women worker to increase productivity and reduce drudgery- an assessment. ASIAN JOURNAL OF HOME SICNECE, Accepted.	B. Sharma, M. Gogoi, A. M. Begam, B. Deka, R. Bhattacharjee, and U. Goswami	
6.	Effects of feeding detoxified rubber seed meal on growth performance and haematological indices of *Labeo rohita* (Hamilton) Fingerlings. *Animal Feed Science and Technology*, ELSEVIER, 193, 84–92. ISSN 0377-8401, NAAS 7.61.	**Sharma, B. B**., Saha, R. K. and Saha, H., 2014	
7.	Effects of Water-borne Iron on Toxicity and Pathophysiology of Indian Major Carp – a Review. *Global Journal for Research Analysis,* 3(6):213-216. Impact Factor: 1.5408. Article DOI : 10.15373/22778160/June2014/74	**Sharma, B. B**., Dash G., Alam S. K. and Chakrabarty, D., 2014	
8.	Aquaculture Disease Management Strategies Adopted by Fish Farmers of Nagaon District in Assam, India. *International Journal of Chemical, Biological and Physical Sciences*, Vol. 4, No. 3: 2227-2233, Impact Factor: 5.69. E- ISSN: 2249 –1929.	**Sharma,B. B**., Borah, D. and Dash G., 2014.	
9.	Effects of Monogenean Fish Parasites on Indian Major Carp, *Labeo rohita* (Ham.) with reference to Abundance and Pathophysiology. *Global Journal for Research Analysis*. Impact Factor: 1.5408. Volume-3, Issue-7, July-2014, ISSN No 2277 – 8160. Pp 134-136.	**Sharma, B. B**., Dash G., Alam S. K. and Chakrabarty, D., 2014	
10.	Parasitic Disease Management Strategies in the Carp Hatcheries of West Bengal, India. *International Journal of Advanced Scientific and Technical Research*, Vol. 4, Issue 4, July- Aug, ISSN 2249-9954, pp 156-164.	T. Mandal, **B. B. Sharma**, G. Dash. 2014	
11.	Parasitic study o*f Labeo bata* (hamilton, 1822) in selected districts of West Bengal, India*, International Journal of Advanced Biotechnology and Research*, (Accepted). Ref. No. IJABR 001028, Impact Factor: 5.01.	G. Dash**, B. B. Sharma,** S. C. Rajesh and T. J. Abraham, 2014	
12.	Parasitic study o*f* Indian Major Carp *Catla catla* (Ham, 1822) in selected districts of West Bengal, India. *International Journal of Advanced Scientific and Technical Research*, Vol. 1, Issue 5, Jan-Feb, ISSN 2249-9954, pp 75-83.	G. Dash**, B. B. Sharma, D.** Chakrabarty and D. Mukharjee, 2015	

Training manuals			
	Boigyanik Bhittit Meen Paalan	Mr. Biraj Bikash Sharma, Mrs. Binapani Deka, Mr. Samiran Bhattacharya, Dr. Rupam Borgohain	
Technical Report			
Book			
	Byobosayik Bhittit Gahori Paalan	Dr. Pankaj Deka ,Dr. Rupam Bargohain,Dr. Dhireswar Kalita	
	Bigyaan Sonmot Meen Paalonor Haathputhi, Krishi Vigyan Kendra, Jorhat, On Press	**Sharma, B. B**., Borgohain, R., Deka, B. and Bhattacharya S	
Popular articles			
1	*French beanor unnata Krishi Paddhati*, The Doinik Janambhumi, 24th April, 2014.	Sarma. I	
2	*Bhendi khetir Unnata Krishi Pranali* , The Doinik Janambhumi, 24th April, 2014.	Sarma, I	
3	*Joibik padhatire anarasar kheti*. Ghare Pathare Pashekia krishi patrika, Assam Krishi Vishyabidyalay pp.2.2014, 16 May, 2014	Sarma, I	
4	*Jalakiyar unnata Krishi Koishal* ,Ghare-Pathare Pashekia krishi patrika, Assam Krishi Vishyabidyalay pp.2.2014, 1 October,2014, 2014	Sarma, I	
5	*Sabolambi hau ahok NAAS Megazine, Feb'15*	Deka, B	
6	*Food & Nutrition for growing child, SNEHPAD Megazine'Feb'15*	Deka, B	
7	Aquaculture Prospects of *Litopenaeus Vannamei* in India, *AQUASTAR*, Regd. No. 67662/97, May, 2014, Vol. 20, Issue No. 7, www.aquastarmagazine.com, pp 30-33.	**Sharma, B. B**., Mandal, T. And Dash G.	
8	Food Borne Pathogens With Special Reference to Fishery Products, Aqua International, NRS Publication, Vol. 22, August Issue, pp 37-39.	**Sharma, B. B**., Borah, D. and Dash G. 2014.	
9	Relevance of water colour in Aquaculture with reference to Algae, *AQUA TECH*, Bilingual Monthly Magazine on Aquaculture, June, 2014, Vol. 13, Issue 6, pp 77-78.	**Sharma, B. B**. and Dash, G., 2014	
10	Significance of Pond Bottom Soil in Aquaculture Production System, AQUASTAR, Regd. No. 67662/97, June, 2014, Vol. 20, Issue No. 8, www.aquastarmagazine.com, pp 77-82.	**Sharma, B. B.** and Dash G. 2014	
11	Role of Microbes in Soil Fertility and Biodegradation, AQUASTAR, Regd. No. 67662/97, August, 2014, Vol. 20, Issue No. 10, www.aquastarmagazine.com, pp 36-50	**Sharma, B. B.** and Dash G. 2014	

12	A Remark on Socio-Economic Status of Fish Traders in Tripura, India, AQUATECH, Bilingual Monthly Magazine on Aquaculture, August, 2014, Vol. 13, Issue 8, pp 79-80	**Sharma, B. B.** and Roy A. K. 2014	
13	New Dimensional Approaches of Nanotechnology in The Diversified Field of Fisheries and Aquaculture, AQUATECH, Bilingual Monthly Magazine on Aquaculture, January, 2015, Vol. 14, Issue 1, pp 78-80	**Sharma, B. B.** and Dash G. 2015	
14	Impact of Stress on Immunology of Fish, AQUASTAR, Regd. No. 67662/97, August, 2014, Vol. 21, Issue No. 3, www.aquastarmagazine.com, pp 24-28.	**Sharma, B. B.** 2014	
15	General Approach to Common Water Quality Parameters and Disease Managements, AQUASTAR, Regd. No. 67662/97, Accepted	**Sharma, B. B.** 2015	
16	Common Fungal Diseases of Fish and Their Treatment Measures, AQUATECH, February 2015, Accepted.	**Sharma, B. B.** 2015	
17	Pacu (*Piaractus brachypomus*) - a Potential Species for Aquaculture Mandal, T., *AQUASTAR*, Regd. No. 67662/97, April, 2014, Vol. 20, Issue No. 6, www.aquastarmagazine.com, pp 29-31	**Sharma, B. B**. and Dash G., 2014	
18	Significance of Anaesthesia with special reference to Fish Health ManagementMandal, T., *AQUASTAR*, Regd. No. 67662/97, April, 2014, Vol. 20, Issue No. 6, www.aquastarmagazine.com, pp 20-25	**Sharma, B. B**., Paul, P. and Dash G., 2014	
19	Application of *Jaggery* for triumphant culture of *Pacu* (*Piaractus brachypomus*) – a report, *AQUA TECH*, Bilingual Monthly Magazine on Aquaculture, April, 2014, Vol. 13, Issue No. 4, pp 78-79	Das, A and **Sharma, B. B**., 2014	
20	Approaches of Stress Alleviation in Aquaculture Practices, *AQUA TECH*, Bilingual Monthly Magazine on Aquaculture, July, 2014, Vol. 13, Issue 7, pp 74-77	Das, S. K., Das, A. and **Sharma, B. B**., 2014	
Articles in Books/ Hand Books:			
1	"Bilahi kheti "Krishi Koushalar Hatputhi published by ATMA, Jorhat	Sarma, I	
2	"Alu kheti "Krishi Koushalar Hatputhi published by ATMA, Jorhat	Sarma, I and S.R.Borah	
3	"Akhomor Paharia Anchalor Krishi Byobostha" in Book "Krishikhondot Atmaniyojon" Edited By Dr M Neog, Dr M K Sarma Dr H C Bhattacharyya	Borah, S. R.	
Technical bulletins			
	Khadya Sangsadhan aru Eyar Banijyik Sobhaboniyota	Mrs. Binapani Deka Dr. Rupam Borgohain Ms. Ira Sarma Mr. Biraj Bikash Sharma	

Extension bulletins			
1	Metekar Mulya Songjojan - Swabalambanar Dishot Ek Notun Khoj	Mrs. Binapani Deka Mrs. Ira Sarma Mr. Sanjib Ranjan Borah Mr. Samiran Bhattacharya Mr. Biraj Bikash Sharma Dr. Rupam Borgohain	
2	Maasor Rog Nirupanar Sachitra Haatputhi	Mr. Biraj Bikash Sharma Mrs. Binapani Deka Mr. Samiran Bhattacharya Dr. Rupam Borgohain	
Newsletter	-	-	-
Conference/ workshop proceedings	Exploration of Lepidiota beetles as human food/animal feed in Assam International workshop on Society for Advancement of Natural resins & gums, 2015 ICAR- Indian Institute of Natural resins & gums, Ranch, Jharkhand, **Presented**	Mishra H., Bhattacharyya B., Bhagawati S., Gogoi D., Deka B	
Leaflets/folders-		-	-
e-publications	-	-	-
Any other (Pl. specify)	-	-	-
TOTAL	-	--	-

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

(C) Details of Electronic Media Produced : Nil

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

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

Pig farming opens a new window for economic empowerment of rural tribal youths (2014- 15)

Background and Problem:

Mising community had been rearing pig in almost all the household from time immemorial as a part of their traditional culture. Pork is a part of social functions like marriage, death ceremony, and other religious & social functions of the Mising community. Rearing pigs by the Mising community is practised not only to meet the requirement of meat but also to generate additional income from the sale of surplus pig as meat and piglets. However, the Mising community had been rearing pigs of indigenous low productive breed and in an unscientific traditional system. This is the main problem observed by KVK, Jorhat in rearing pig by Mising community of the Allengmora area of Jorhat District.

KVKs intervention:

Krishi Vigyan Kendra, Jorhat has planned to introduce a new improved breed of pig suitable for Jorhat situation to replace existing low productive indigenous breed in the Allengmora area under Dhekargora development block of Jorhat district. KVK, Jorhat has selected Hampshire, an improved breed as a need based intervention for solving the problem with indigenous low productive pig breed. To meet the requirement of piglets of the new improved breed, one breeding unit was established in each of the selected village with 10 female pigs and two male bore. Further, KVK, Jorhat introduced the technology of improved housing and feed management in five villages of the Allengmora area. During the process, KVK scientists regularly monitored the performance of the breed supplied at the door steps besides providing health care and technical support. Vaccination against infectious disease was also done on a regular basis.

Productivity:

Among the beneficiary farmers, Sri Atul Misong, a progressive farmer from Neolgaon of Allengmora area has emerged as most successful in rearing and production of piglets of the new breed for horizontal spread of the new breed. During the year 2014-15 Sri Atul Misong has sold 140 piglets of Hampshire breed to the nearby villages and earned Rs. 4, 05,000.00 from the sale of piglets. In addition to the spread of new breed, local female pigs were also crossed with Hampshire boar for improvement of the local breed for which the beneficiary farmer charges Rs 300.00 per service. More than 120 female pigs were crossed at Sri Misong's farm from which he has earned Rs 36,000.00 during 2014-15. Sri Atul Misong has extended his farm with 3 new shed with new piglets for which he has invested from his own.

Adoption by the beneficiaries:

The beneficiaries were very happy with the new breed Hampshire with the suitability of the breed to the local condition and overall productivity. Almost all the beneficiaries of the selected villages under the programme are maintaining their farm very scientifically and earning a substantial amount from the sale of pig for meat as well as piglets. Sri Atul Misong is an example among the beneficiary farmers only.

Adoption by non beneficiaries:

Due to instant good result and return from new breed Hampshire, the farmers of the nearby villages are either purchasing the piglets or crossing the local female with the Hampshire boar at the farms of the beneficiary farmers and thereby overall improving the breed of the locality.

Marketing:

Due to high demand of good quality piglets and meat, the beneficiary farmers are not finding any problem in selling the piglets as well as pigs for meat. In fact there is advance booking for the Hampshire piglets in most of the farms. The piglets are also sold to nearby district like Sivasagar & Golaghat. The present rate of piglets is Rs 3000.00 per piglet and Rs 200.00 per kg of meat.

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 *Bhatghila* [*Oroxylum indicum* (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' (*Polygonum hydropiper*) or 'Bihdhekia' (*Sphaerostiphnos unitus*) 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 *Boro* 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 ratoon of *boro* 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

1. Identification of courses for farmers/farm women : PRA, Group discussion, 2. Rural Youth : Rural empowerment, PRA, group discussion

3. Inservice personnel : On recommendation by DAO

3.11 Field activities

i. Number of villages adopted : 2

ii. No. of farm families selected : 700

iii. No. of survey/PRA conducted : 02

3.12. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab : **Not established**

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

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

3. Details of samples analyzed so far : Nil

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

3.13. Details of SMS/ Voice Calls sent on various priority areas

Message type	Crop		Livestock		Weather		Marketing		Awareness		Other Ent.		Total	
	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary
Text only	80	80	60	60	-	-	20	20	80	80	60	60	300	300
Voice only														
Voice and Text both														
Total	80	80	60	60	-	-	20	20	80	80	60	60	300	300

3.14 Contingency planning for 2015-16

a. Crop based Contingency planning

Contingency (Drought/ Flood/ Cyclone/ Any other please specify)	Proposed Measure	Proposed Area (In ha.) to be covered	No. of beneficiaries proposed to be covered		
			General	SC/ST	Total
Drought due to delay in monsoon	**Introduction of new variety or crop**				
1. Monsoon delay by 4 weeks, i.e. 1st week of July	Staggered planting var. viz. Prafulla, Gitesh (Quality seeds from RARS, Titabor, AAU, Jorhat), Irrigate the seedbed and nursery raising in community basis, Trainings	50.00	60	40	100
2. Monsoon delay by 6 weeks, i.e. 3rd week of July	Manohar Sali, Andrew Sali etc. and close spacing, increase no. of seedlings per hill, irrigation, Short duration variety: Luit, dishang, kapili etc	50.00	60	40	100
3. Monsoon delay by 8 weeks, i.e. 1st week of August	short duration var. Luit, Broad casting of sprouted seeds, irrigation	40	40	40	80
	Introduction of Resource Conservation Technologies				
	RCT like Mulching, Drip irrigation in horticultural crops like banana, Assam lemon, Awareness training	5	20	10	30
	Distribution of seeds and planting materials				
	Distribution of seeds of short duration varieties like Luit for direct sowing of sprouted seeds	5	15	5	20
	Any other (Please specify)				
	Establishment of Community nursery near assured water source for varieties like Gitesh , Prafulla, Luit, Dishang, Kanaklata etc for free distribution of seedling	1	45	45	90

a. Livestock based Contingency planning

Contingency (Drought/ Flood/ Cyclone/ Any other please specify)	Number of birds/ animals to be distributed	No. of programmes to be undertaken	No. of camps to be organized	Proposed number of animals/ birds to be covered through camps	Number of beneficiaries proposed to be covered		
					General	SC/ST	Total
Drought	-	10 (Awareness cum animal health camp)	15	2000	300	200	500
Flood	-	15 (Awareness cum animal health camp)	15	2000	300	200	500

4.0. IMPACT

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

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Paddy(Variety Ranjit)	3	100	18750	31700
Paddy(Variety Ranjit)	3	100	17950	28150
Paddy(Variety- TTB303-2-23 , TTB 303-1-42 & Swarna Sub as Check)	3	100	18100	21900
Paddy(Variety TTB-404 & Mulagabharu)	6	100	18100	29150
Paddy(Variety-Luit)	21	100	10000	12250
Sugarcane(Variety -Kalang & Doria)	1	100	107440	125890
Black gram (variety-Shekhar1)	2	100	11090	25800
Khasi mandarin	1	100	28980	100000
Brinjal- Okra	2	100	190000	222500
Broccoli	28	100	210000	278250
Sali Paddy Var. Gitesh & Swarna sub-1	136	100	18750	31700
Toria (variety : TS-46.TS-67)	140	100		

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 Gitesh & 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-46., TS-67	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-46., TS-67
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 ESTABLISHED

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. Paddy 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 2014-15

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	944400.00
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	70,00000.00

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 2014-15

6.1 Performance of demonstration units (other than instructional farm)

Sl. No.	Demo Unit	Year of estd.	Area	Details of production			Amount (Rs.)		Remarks
				Variety	Produce	Qty.	Cost of inputs	Gross income	
1.	Cattle shed	2010	36.45	HF-	Milk	679.5 l	15000.00	27180.00	
2.	Vermicompost unit	2010	46.80	-	Vermi compost	29.5 q	10000.00	29500.00	
3.	Poultry Unit	2011	44.40	BV 300	Eggs	673 no.s	4038.00	10500.00	
				Vanaraja	Bird	280 no.s	1680.00	37600.00	
4.	Goattery unit	2011	34.20	Beetle	Kids	5 (2 sold)	400.00	5000.00	

5.	Piggery unit	2010	41.04	Hampshire + T & D	Piglet	27 (26 sold)	15000.00	32900.00	
8.	Demonstration unit (Display unit)	2011	93.50	-	-	-	-	-	
10.	Rice- Fish- Vegetable Unit	2011	0.13	Indian minor Carp	Table fish	21.5	500.00	2580.00	
11.	Fish pond	2010	50m x 20m	Indian Major Carp		95.93	6000.00	14894.90	
12.	Green House	2011	10m x 8m	Bhut Jolokia and tomato	Bhut Jolokiaand tomato	20.33kg 17.75kg	700.00 100.00	4066.00 355.00	
13.	Azolla production unit	2012	9.9m X 5.5m	Azolla caroleniana	Azolla Compost	2.0	0	3000.00	
14.	Compost production Unit	2012	9.6m X 5m	-	Compost	12.0	0	12000.00	

6.2 Performance of instructional farm (Crops) including seed production

Name of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.	Cost of inputs	Gross income	
Cereals									
Rice	Jun-July 2014	Nov-Dec 2014	1.3	Ranjit, Mashuri, KDML TTB 404, Gitesh, Swarna Sub-1,Keteki Jaha,Black Rice	Seed	2.85 t	8200.00	94017.00	
Pulses									
Green gram	Aug 14	Nov14	0.07			24.0 kg	350.00	2160.00	
Black gram	Aug 14	Nov14	0.08			31.4 kg	302.00	2826.00	
Ay other French bean						1.04 kg		156.00	
Dolicos bean						1.46 kg		219.00	
Oilseeds									
Sesemum	April'14	July'14	0.06	Kaliabor local	Seed	13.700 kg	172.00	1096.00	

Fibers									
Spices & Plantation crops									
i. Turmeric	20.03.2014	30.12.2014	0.04	MeghaTurmeric	Rhizomes	1q	1200.00	4000.00	
Floriculture									
i.Gerbera	5.08.2014	Started from Feb,2015	0.02	Red Gem	Suckers	1500 nos	3000.00	7500.00	
ii.Tuberose	10.04.2014	6.03.2015	0.01	Suhashini	Bulbs	2000nos	1500.00	4000.00	
iii. Gladiolus	7.09.2014	25.02.2015	0.01	Novalaux, Sunny Boy	Corms& cormels	300 nos	1000.00	2000.00	
Fruits									
i.Pineapple	05.06.2011	July& August,2014	0.03	Kew	Fruits & suckers	200 nos& 500 nos	1500.00	3500.00	
ii.Banana	15.11.2013	Started from Nov,2014	0.05	Amrit Sagar, Jahaji	Fruits & suckers	140kg & 300 nos	1000.00	4300.00	
Vegetables									
.Cole crops	08.10.2014	Started from Dec,2014	0.03	Green Express, Madhuri	Head, curd	125kg	700.00	1875.00	
French bean	04.10.2014	Started from Dec,2014	0.008	Arka Anoop	Beans	45 kg	100.00	675.00	
Brinjal	15.10.2014	Started from Jan,15	0.015	Longai	Fruit	30kg	100.00	600.00	
BhutJalakia	10.01.2014	Started from june,14	0.03	King Chilli	Fruit	20kg	500.00	4000.00	
Colocasia	25.02.2014	27.11.2014	0.03	Ahina kachu	Corm and cormel	320kg	1000.00	3200.00	
a. Others (specify)									
i.									
ii.									

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

Sl. No.	Name of the Product	Qty	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
1	Vermicompost	29.5 q	0.00	29500.00	
	Azolla Compost	2.0	0.00	3000.00	
	Compost	12.0	0.00	12000.00	

6.4 Performance of instructional farm (livestock and fisheries production)

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed/ species	Type of Produce	Qty.	Cost of inputs	Gross income	
1	Cattle	HF	Milk	679.5 l	15000.00	27180.00	
2	Poultry Unit	BV 300	Eggs	673 no.s	4038.00	10500.00	
3		Vanaraja	Bird	280 no.s	1680.00	37600.00	
4	Goattery unit	Beetle	Kids	5 (2 sold)	400.00	5000.00	
5	Piggery unit	Hampshire + T & D	Piglet	27 (26 sold)	15000.00	32900.00	
6	Rice- Fish-Vegetable Unit	Indian minor Carp	Table fish	21.5	500.00	2580.00	
7	Fish pond	Indian Major Carp		95.93	6000.00	14894.90	
8	Green House	Bhut Jolokia and tomato	Bhut Jolokiaand tomato	20.33kg 17.75kg	700.00 100.00	4066.00 355.00	

6.5 Rainwater Harvesting

Training programmes conducted by using Rainwater Harvesting Demonstration Unit : Nil

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

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

Accommodation available (No. of beds) :

Months	Title of the training course/Purpose of stay	Duration of Training	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
20th- 21st	Agriculture & allied sector	2 days	22	2 day	-
25th- 26th Sep'2014	Agriculture & allied sector	2 days	17	2 day	
Total		4 days	39		
Grand total		**4 days**	**39**	**4 day**	

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

7. FINANCIAL PERFORMANCE

7.1 Details of KVK Bank accounts

Bank account	Name of the bank	Location/ Branch	Account Number
With Host Institute	SBI, AAU, Branch	Assam Agricultural University, Jorhat	10253825316
With KVK	SBI, Teok	Teok	30240073924
Revolving Fund	SBI, Teok	Teok	30705097714

7.2 Utilization of funds under FLD on Maize *(Rs. In Lakhs) if applicable : Not applicable*

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

7.3 Utilization of KVK funds during the year 2014 -15

S.No.	Particulars	Sanctioned (in Lakh)	Released (in Lakh) As on 7-3-15	Expenditure (in Lakh)
A. Recurring Contingencies				
1	**Pay & Allowances**	110.00	76.31894	76.31894
2	**Traveling allowances**	1.85	0.54350	0.54350
3	**Contingencies**			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	9.5	8.52099	8.29089
B	POL, repair of vehicles, tractor and equipments			
C	Meals/refreshment for trainees			
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)			
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)			
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)			
G	Training of extension functionaries			
H	Maintenance of buildings			
I	Establishment of Soil, Plant & Water Testing Laboratory			
J	Library			
TOTAL (A)		**121.35**	**85.38343**	**85.15333**
B. Non-Recurring Contingencies				
1	**Works**	Nil		
2	**Equipments including SWTL & Furniture**	Nil		
3	**Vehicle** (Four wheeler/Two wheeler, please specify)	Nil		
4	**Library** (Purchase of assets like books & journals)	Nil		
TOTAL (B)				
C. REVOLVING FUND				**0.82002**
GRAND TOTAL (A+B+C)		**121.35**	**85.38343**	**85.97335**

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

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year
April 2012 to March 2013	2.27290	1.64099	0.28248	3.63141
April 2013 to March 2014	3.63141	2.56608	2.65967	3.53782
April 2014 to March 2015	3.53782	2.23723	0.82002	4.95503

8.0 Please include information which has not been reflected above.

A. Technology Showcasing :

Crop	Location	Area Covered (Ha)	No. of Beneficiaries	Avg. Production
Sali Paddy : Var. Gitesh & Swarna sub-1	Puronimotia	13.87	25	
	Maz Gaon	9.20	25	
	Bamunpukhuri	14.80	35	
	Borpachi	10.66	20	
	Kaliapani	4.00	15	
	Dangdhora	15.73	16	
Total		**68.33** **Swarna Sub-1: 44.53 ha** **Gitesh: 23.73 ha**	**136**	**Swarn Sub-1: 1870 q** **Gitesh : 1186 q**
Toria **TS-46.** **TS-67**		**103** **90**	**80** **60**	**TS-46 : 828 q** **TS-67 : 675 q**

B. Promotion of Agriculture Centric Sustainable Livelihood Security for Tribal Farmers of Assam (TSP)

Location of Project work:

Villages under Dhekorgorah Development Block	Villages under Ujani Majuli Development Block
Namdeori	Karki Chuk
Bahphola, Koriamari	Boikonthopuri
Neul Gaon	Simoluguri
Kolia Gaon	Lahon
Loliti Gaon	Uluoni

i. Agriculture Centric Livelihood Option (Kharif, 2014)

Crop	Variety	Village	Area (ha)	No. of farmers
Maize	Hishell 717	Kolbari, Dhonkhuloi	2.14	4
		Bahfola	0.78	2
		Neul Gaon	1.75	4
		Total	**4.67**	**10**
Paddy	TTB-404	Kolbari	15.60	39
		Nam Deuri	5.87	11
		Neul Gaon	21.47	29
		Koriamari	6.93	20
		Total	**49.87**	**99**

ii. Animal husbandry centric livelihood option: Piggery and Poultry sector Intervention

Particulars	Piggery Sector	Poultry Sector
Family involvement	100	100
Breeding Unit/ Egg production	10 (12 Nos piglet to each family)	10 (40 Nos one month old Vanaraja bird to each family)
Meat Purpose	90 (5 Nos piglet to each family)	90 (20 Nos one month old Vanaraja bird to each family)

Source of Quality Piglets :

More than 100 Hampshire piglets produced. Neul gaon area is going to be a regular source of quality piglet for the rural farmers of the Jorhat as well as the adjacent districts.

Up gradation of local Pigs :

Other pig rearing families have been taking benefits by crossing their local existing sows by crossing with Hampshire boar distributed under TSP programme to the village

C. Technology Showcasing ie., three tier pig- poultry- fish under RKVY :

Under the Technology Showcasing programme the Integrated Three Tier Pig cum Poultry cum Fish Farming practice is running successfully in five different areas of Jorhat district. The beneficiaries of the programme are namely Mr. Hiranya Baruah from Bamunpukhuri, Mr. Diganta Chutiya from Boloma, Mr. Prasanta Borah from Lahing, Mr. Atul Saikia from Malowkhat and Mr. Amar Doley from Kalbaari. The programme is focussed with emphasis in greater utilization of resources; reduce risk by diversifying crop and providing additional income as well as food for small scale farming household. The pig and poultry varieties used in this programme are Hempshire and Kalingabrown respectively.

Productivity

Among the five beneficiary farmers, Sri Hiranya Baruah, a progressive fish farmer from Bamunpukhuri has emerged as most successful in rearing of fish. During the year 2014-15 he has sold around 3 q of fish and 6 numbers of piglets. In addition the local pigs are also crossed with the Hempshire boar for improvement of the local breed. He has also gain additional income with it. Apart from this the production of egg and poultry meat is also achieved during the programme. He has mentioned that the cost of production of fish is lowered up to 50 – 60% in this integrated culture practice.

Adoption by the Beneficiaries

The beneficiaries are happy with this Integrated Three Tier Pig cum Poultry cum Fish Farming practice due to low cost of production of fishes. They are also happy with the improve pig variety i.e. Hempshire for both meat and piglet purposes. The poultry birds are also able to satisfy the farmers with their meat as well as egg production with higher disease resistance capacity. Sri Hiranya Baruah has extended his fishery activity by constructing a new pond in this year.

Marketing

There are not any marketing problems for fish, poultry and pigs due to their growing demand at present. Besides, the advanced booking of the piglets is the positive point for the farmers. Fish and poultry are sold @ Rs. 200.00 per kg and Rs. 180.00 per kg respectively. The egg price is Rs. 6.00 per egg. The present rate of piglets is Rs. 3000.00 per piglet and Rs. 200.00 per kg of meat.

8.1 Constraints

(a) **Administrative**: None

(b) **Financial**: Delay in release of fund from ZPD for the financial year. Generally the first release is during June –July but our seasons activities starts from April. Hence face a lot of problem. Revised budget is always announced almost at the end of the year which makes utilization difficult. The fund under contingency is too meager to take up activities among farmers to make the presence of KVK felt in the district.

(c) **Technical :** Perennial vacancies in the technical posts causes difficulty in smooth running of the KVK.

(Signature)
Programme Coordinator
Krishi Vigyan Kendra, Jorhat