

ANNUAL PROGRESS REPORT

2016-17

|

|||

|



Krishi Vigyan Kendra, Jorhat
Assam Agricultural University
Teok-785112



PROFORMA FOR ANNUAL REPORT OF KVKS, 2016-17

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail
	Office	FAX	
Krishi Vigyan Kendra Assam Agricultural University Kaliapani, Jorhat (Assam)-785112			kvk_jorhat@aau.ac.in

1.2 .Name and address of host organization with phone, fax and e-mail:

Address	Telephone		E mail
	Office	FAX	
Assam Agricultural University, Jorhat, Assam-13			dee@aau.ac.in

1.3. Name of the Programme Coordinator with phone & mobile no.:

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Rupam Borgohain		9435352939	borgohainrupam@yahoo.co.in

1.4. Year of sanction: 2006

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

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)	70780	24.12.2009	Permanent	OBC
2	Subject Matter Specialist	Ms. Mousumi Phukon	SMS	Entomology	15600– 39000 (GP-6000)	26590	25.11.2009	Permanent	OBC
3	Subject Matter Specialist	Ms. Ira Sarma	SMS	Horticulture	15600 – 39000 (GP-6000)	25050	05.08.2011	Permanent	Others
4	Subject Matter Specialist	Mr. Sanjib Ranjan Borah	SMS	Soil Science	15600 – 39000 (GP-7000)	36250	25.08.2011	Permanent	OBC
5	Subject Matter Specialist	Ms. Binapani Deka	SMS	Home Science	15600 – 39000 (GP-5400)	22280	04.02.2014	Permanent	Others
6	Subject Matter Specialist	Mr. Sameeron Bhattacharjya	SMS	Agronomy	15600 – 39000 (GP-5400)	22280	28.01.2014	Permanent	Others
7	Subject Matter Specialist	Dr. Ilakshy Deka	SMS	Animal science	15600 – 39000 (GP-5400)	21630	14.10.2015	Permanent	Others
8	Computer Programmer	Mr. Rupjyoti Chutia	Prog. Assistant (Computer)	Computer Application	8000 – 35000 (GP-4900)	14980	03.09.2011	Permanent	Others
9	Farm Manager	Mr. Ramen Kalita	Farm Manager	Agriculture	8000 – 35000 (GP-4900)	13690	11.10.2014	Permanent	OBC

10	Accountant / Superintendent	Mr. Jadumoni Borah	Accountant cum Office Superintendent	NA	8000 – 35000 (GP-4900)	14540	24.02.2012	Permanent	SC
11	Stenographer	Mr. Biman Jyoti Phukan	Stenographer cum Computer Operator	NA	5200 – 20200 (GP-3300)	11220	18.02.2012	Permanent	OBC
12	Driver	Mr. Pankaj Borah	Driver	NA	5200-20200 (GP-2500)	9390	21.02.2012	Permanent	OBC
13	Driver	Mr. Diganta Gogoi	Driver	NA	5200-20200 (GP-2500)	7400	25.11.2016	Permanent	OBC
14	Supporting staff	Mr. Krishna Sarma	Peon	NA	5200-20200 (GP-2200)	11540	03.05.2000	Permanent	Others
	Total								

- 1.6. a. Total land with KVK (in ha) : 11.93 ha
b. Total cultivable land with KVK (in ha) : 8.43
c. Total cultivated land (in ha) : 5.30

S. No.	Item	Area (ha)
1	Under Buildings (Administrative building+ Farmers' Hostel+ Staff Quarters)	1.20
2.	Under Demonstration Units	1.00 (RKVY)
3.	Under Crops (Cereals, pulses, oilseeds etc.)	5.04
4.	Under vegetables	0.26
5.	Orchard/Agro-forestry	2.13
6.	Others (specify)	2.30

1.7. **Infrastructural Development:**

A) Buildings

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 & PA 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 - 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	Regd. No.	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Jeep	AS-03-H 9470	2008 (ICAR)	5,00,000.00	130889	Running condition
Tractor	AS03 AC-2223	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	Year of purchase	Cost (Rs.)	Present status
1	Desktop Computer	2007	32,000.00	Working
2	UPS	2007	6,930.00	Not Working
3	Laser Printer	2007	7,571.00	Working
4	Xerox (1)	2010	1,01,920.00	Working
5	LCD Projector (1)	2010	98,000.00	Not Working
6	Digital Camera (1)	2010	19,000.00	Not Working
7	Computer (2)	2010	55,094.00	Working
8	Laser printer (1)	2010	5,475.00	Working
9	UPS (2)	2010	16,474.00	Not Working
10	Scanner (1)	2010	2,724.00	Working
11	Fax (1)	2010	15,190.00	Not Working
12	Trailer capacity 1.5 tone	2008	-	Working

13	Dugged Wheel for 13 HP	2008	-	Working
14	Hitch braket with pine set for 13 HP VST Tiller	2008	-	Working
15	Five Tyne cultivator for 13 HP VST Sakti power Tiller	2008	-	Working
16	Tail wheel float for 13 HP VST power tiller	2008	-	Working
17	Wheel Changer for BHP VST Power tiller	2008	-	Working
18	Two share MB plough to be fitted with 13 HP VST Sakti power tiller	2008	-	Working
19	Handle weight Assembly for 13 HP power tiller	2008	-	Working
20	Short rotary for power tiller	2008	-	Working
21	Extension lagged wheel for power tiller	2008	-	Working
22	Straight blade 18 Nos	2008	-	Working
23	Water pump with accessory-suction pipe & head	2008	-	Working
24	Legged wheel carrier for power tiller	2008	-	Working
25	Motorized knapsack sprayer with 1.2 HP petrol/kerosine engine	2008	-	Working
26	Mechanized brush cutter, Model –sparta-37 petrol driven 2 stroke engine	2008	-	Working
27	Multi purpose power weeder, Model –APW-43	2008	-	Working
28	Sealing machine(8”) (1.5 x 3) mm sealing width option.	2012	-	Not Working
29	Earth augar, Model –MTL-51	2008	45,967.00	Working
30	Post hole Digger accessories.	-	-	-
31	i. Auger for digger(6”)	2011	3,308.00	Working
32	ii. Auger for digger(12”)	2011	5,513.00	Working
33	iii. Auger for digger(18”)	2011	9,371.00	Working
34	iv. Auger for digger(24”)	2011	13,892.00	Working
35	Eight Row self propel rice transplanter	2008	-	Working
36	Drag Net (Double knotted 100% nylon machine made)	2008	-	Working
37	Fingering catching net(Knotless 100% nylon)	2008	-	Working
38	Ti -9 tine spring loaded Tiller	2008	-	Working
39	Greaves pump set GSP-80B,Engine No- TKG 6748998 pump no-1798	2008	-	Working
40	Chaff Cutter (J) No. Blade – 2	2008	-	Working
41	T I plough -2 disc (J)	2008	-	Working
42	T I Disc Harrow (12 disc) (J)	2008	-	Working
43	Lagged wheel	2008	-	Working
44	Tail wheel Float	2008	-	Working
45	Wheel changer	2008	-	Working
46	Hitch bracket	2008	-	Working
47	Rotavator, 25-35 and 35-50 HP tractor drawn	2008	-	Working
48	Puddler	2008	-	Working
49	Power paddy weeder	2008	-	Working
50	Seed cleaner Model PC-2	2008	-	Working
51	Power sprayer	2008	-	Working
52	Knapsack mist blower cum duster	2008	-	Not Working
53	Autoclave: Table top	2011	8,810.00	Working
54	Autoclave vertical, media make, Model-7440PAD, Size-40x60 cm	2011	93,638.00	Working

55	Horizontal Laminar air flow, Make-Rescolar, Model-RH58-7, Size-120 x 60 x 60 cm	2011	57,930.00	Working
56	Hot air Oven (600x600x600) mm	2011	36,888.00	Working
57	Portable Ph meter with 4 digit LCD display	2011	2,270.00	Not Working
58	B.O.D Incubator(Low temp.) capacity -171 lt.	2011	1,22,131.00	Working
59	Spirit lamp(Brass)	2011	280.00	Working
60	Wheel burrow (wheels made of cast iron with solid rubber ring)	2011	5,175.00	Working

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

Sl. No .	Date	Name and Designation of Participants	Salient Recommendations	Action taken on last SAC recommendation
1.	23.3.2017	1. Dr. K. M. Bujarbaruah, Vice Chancellor, AAU, Jorhat, Chairman. 2. Dr. H. C. Bhattacharya, Director of Extension Education, AAU, Jorhat. 3. Dr. G. N. Hazarika, Director of Research (Agri), AAU, Jorhat. 4. Dr. Chandan Sarmah, Faculty, ETC, SIRD, Jorhat. 5. Mr. Pranjal Mahanta, SDAO, O/o DAO Jorhat. 6. Dr. R. K. Saud, Assoc. Director of Extension Education (P&I), AAU, Jorhat 7. Dr. Rupam Borgohain, Programme Coordinator, KVK, Jorhat 8. Dr. Utpala Goswami, Senior Extension Specialist, DoEE, AAU, Jorhat 9. Mr. Anjan Dutta, NEADS, Dhekiakhuwa, Jorhat. 10. Dr. Urmimala	1. To be self-sufficient in oilseed and pulses, the district need to cover 4000 ha and 3000 ha of land respectively. Therefore, formulation of appropriate action plan to ascertain land availability, seed and other inputs requirement is the need of the hour. The chairman requested to chalk out a blueprint for the same. 2. The chairman stressed on “doubling the farmers income” and advised to prepare action plan to achieve the goal in addition to the mandatory activities of KVK. He also advised the KVK to prepare the training modules specifically for doubling farmers income and if needed they may be redesigned to suite the doubling farmer’s income strategy.	1. As per suggestion of progressive farmer Mr. Atul Missonig, few trainings and demonstrations on various farm machineries were given in Allengmora area in collaboration with Dept. of Agril. Engineering. 2. During the discussion on peri-urban agriculture programme, the chairman suggested to conduct a survey to ascertain the actual requirement in food grains, fruits & vegetables, dairy products, poultry and fishery to make the Jorhat district self sufficient. A survey cum secondary data compilation was conducted in collaboration with different depts. and organisations regarding the actual requirement in food grains, fruits & vegetables, dairy products, poultry and fishery in Jorhat district. 3. The Director of Research (Agri) suggested KVK, Jorhat to go for artificial insemination programme in goat in collaboration with the State Veterinary Department since they have the facility of cryocan, liquid nitrogen and straw. The programme could not be conducted during 2016-17 due to non availability of frozen goat semen in the State Veterinary Department. However, during 2015-16 we have conducted 105 nos of AIs (pregnancy rate 58%) in goats using frozen semen straw collected from College of Vety Science, AAU, Khanapara and in collaboration with Veterinary Department As per the suggestion of 4. DR(Agri) several commudity village were

		<p>Hazarika, Scientist D CMER&TI, Lahdoighar. 11.Dr. Nripen Khoun DVO,Office, Jorhat. 12.Dr. R. M. Karmakar,Department of Soil Science, Jorhat. 13.Mr. Rupak Bhuyan, Fr-I, Jorhat Forest Division, Jorhat. 14.Mrs. Purabi Handique, Extention Officer, Assistant Director of soil Science. 15.Mr. J.N. Borah, DICC, Jorhat, 16.Dr. Rajib Kr. Borah, Rain Forest Research Institute 17.Sri Thanesar Chutia, Advisor KASS, Balijonia, Jorhat 18.Sri. Proshen Baruah , President KAAS, Jorhat District 19.Mr. Bhaskar Jyoti Gogoi, All India Radio, Jorhat. 20.Mrs. B.Dutta Tamuly, Dist Development Commissioner, Jorhat. 21.Mr. Madhav Chandra Doley, EE(Agri), Jorhat Division, Jorhat, Borbheti. 22.Mr. Chandan Kr. Gogoi, District Fishery Development Officer, Jorhat. 23.Mrs. Sanyita Borthakur, DSWO, Jorhat. 24.Dr. R.C. Borah, DoEE, AAU, Jorhat.</p>	<p>3. The Chairman highlighted the emphasis of Govt. of India regarding organic farming in North Eastern India and fund mobilization for the same. He suggested appropriate testing and demonstrations of organic farming technologies in farmer's field. 4. Mr Chandan Kr. Gogoi , District Fishery Development Officer, Jorhat suggested to take up action plan in the direction of Integrated fish farming , ornamental fish breeding(both for local as well as exotic fish), Soil/water testing facility, <i>Kuchiya</i> culture, <i>Magur</i> culture and Prawn culture. 5. Honorable Vice-Chancellor wanted to know if KVK can intervene with the non performing Kaliapani veterinary farm. DVO informed that AAU authority can take up the matter with the higher authority of Veterinary Department for taking up of new Livestock Seed Production Programme to make nonperforming Kaliapani Farm a vibrant one</p>	<p>established (Goat, duck, poultry, mushroom , pulse) 5. Mr. Sameer Ranjan Bordoloi, Programme Manager, Farm 2 Food Foundation, Jorhat pointed out the problems of contamination of ground water of Jorhat district with arsenic and cadmium. Block wise delineation of water contamination level by arsenic in the district is in progress under AICRP on water management, AAU. Delineation for arsenic contamination level in Titabor Block is completed and 65% of the water sample tested had arsenic content above 50PPB (above BIS standard). Arsenic contamination level for all blocks of Jorhat district will be completed within 1-2 years. Moreover, water table of whole Jorhat district is delineated using GIS and Remote Sensing and in those areas where water table is within 5 meter during winter, treadle pump has been popularized. AICRP on water management, AAU has developed cost effective bamboo drip irrigation system and has recommended low cost plastic pipe water delivery as the efficient method of surface irrigation. 6.The Hon'ble Vice Chancellor, AAU, Jorhat suggested Programme Coordinator, KVK, Jorhat to look for provisioning for at least 60 farmers for high value crops. Several High Value crops like Thailand Ber, Banana, Bhut Jolokia, Turmeric, Ginger and Black rice demonstrations were conducted in several farmers field of the district. 7.Mr. Sameer Ranjan Bordoloi emphasized on the development of retail outlet for marketing the organic products. Few areas of the district were surveyed having potential for organic farming by KVK, Jorhat along with the selection of appropriate crops. Sameer Bordoloi drew the attention of the house on the scope and importance of local herbs and suggested the scientific community to</p>
--	--	--	--	--

		<p>25.Dr. M. K. Sarma, DoEE, AAU, Jorhat. 26.Dr. P.K. Pathak, ADR, AAU, Jorhat. 27.Dr. Tamizuddin Ahmed, Chief Scientist, RARS, Titabor</p> <p>28.Dr.L.K.Hazarika, Department of Entomology, Faculty of agriculture. 29.Mr. Biman Gogoi, Farmer Representative, Khanamukh. 30.Mr. Pranjit Rajkowa, Farmer Representative, Bhagamukh 31.Mrs. Asha Borah Morang, Farm women Representative, Dangdhara, Titabor. 32.Mrs. Runu Gogoi, Farm women Representative, Mybelia.</p>	<p>6. In connection with the suggestion of Dr. Urmimala Hazarika, Scientist, CEMR&TI, to study the possibility of KVK starting farmer's participatory silk rearing programme, the chairman suggested Head, KVK, Jorhat and Dr.L.K Hazarika to visit the Tipomia Sericulture Farm to ascertain the feasibility. Dr. Urmimala Hazarika also promised to provide some silkworm food plant seedlings to KVK,Jorhat.</p>	<p>develop an organic package of practice for their cultivation.</p> <p>8.Dr. I.C. Baruah, Principal Scientist, Agronomy is working in the field of medicinal plants and local herbs. AAU has already begged few projects from the Ministry of Aiyush, Govt of India on medicinal plants and herbs and work in being conducted in AAU, Jorhat campus and BNCA campus.</p> <p>9.The Chairman informed that pulse is another important crop that needs immediate intervention and suggested KVK, Jorhat to give more emphasis on identification of new pulse growing areas and cover more areas under this crop. During 2016-17 under Cluster FLD, KVK, Jorhat has covered 40 ha under kharif pulse and 40 ha under <i>rabi</i> Pulse. Similarly, under Pulse Seed Hub Programme <i>kharif</i> pulse was cultivated in 60 ha and Rabi pulse in 5 ha. Altogether 591 farmers were involved in the two programme. New pulse growing area was also identified in Janji Mukh and Dhudang Chapori.</p> <p>10.As per suggestion of Mr. Sameer Ranjan Bordoloi to creat a hub of planting material to cater the needs of the farmers, mother plants for Litchi, Guava, Apple ber, Assam lemon at KVK, Jorhat are ready for planting material production. During 2016, 250 litchi and 1000 guava and 500 Assam lemon planting materials were produce. Moreover, 6 quintal of high quality Megha turmeric and 2000 slips of pineapple were produced.</p> <p>11.Mrs. Nirala Kalita, progressive farmwoman, Kaliapani requested KVK, Jorhat to arrange training for the woman SHGs on weaving, cutting and tailoring. Responding to Mrs. Kalita, Director of Extension Education directed KVK, Jorhat to arrange a vocational training on cutting and tailoring.Vocational training on commercial weaving conducted with 11 weavers at Dept of Textile and Apparel Designing, Collage of Home Science, AAU with</p>
--	--	---	---	--

				the participation of 11 trainees. Vocational training on Cutting and Tailoring was also conducted by KVK, Jorhat with participation of 22 farm women.
--	--	--	--	---

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

Proceeding of 5th Scientific Advisory Committee (SAC) Meeting of Krishi Vigyan Kendra, Jorhat, 2016-17

Date : 23.03.2017

Chairman: Dr. K.M. Bujarbaruah, Hon'ble Vice- Chancellor, AAU, Jorhat

Venue : Conference Hall, Directorate of Research (Agri), AAU, Jorhat

Rapporteurs : M.Phukan, S.R.Borah, S. Bhattacharyya, S. Gohain.

The SAC meeting of Krishi Vigyan Kendra, Jorhat for the year, 2016-17 was held at the Conference Hall, Directorate of Research (Agri), AAU, Jorhat on 23rd March, 2016. At the very outset, Dr. H.C. Bhattacharyya, Director of Extension Education, AAU, Jorhat welcomed all the dignitaries present followed by self-introduction of the members and felicitation of the Chairman and the progressive farmers, KAAS adviser Sjt. T. Chutia and Proshen Baruah, District President KAAS, Jorhat. In his welcome address, Dr. H.C. Bhattacharyya, Director of Extension Education, AAU, Jorhat gave an overview on the importance of SAC meeting and highlighted the mandated activities of KVKs. He also requested CEMER & TI to supply some food plants for eri and muga silk worm.

Dr. R. Borgohain, Senior Scientist cum Head, KVK, Jorhat highlighted the action taken report of the previous year.

The Hon'ble Vice-Chancellor expressed his happiness to the house as almost all the points of action taken report for the year 2015-16 were taken up by KVK. Honorable Vice Chancellor informed the house that Jorhat district should be self sufficient in oilseed and pulses. For that, 4000 ha and 3000ha respectively for oilseed and pulses are to be covered for cultivation with farmer's participation and action plan to ascertain seed requirement etc. are to be prepared accordingly. He also stressed on "doubling the farmers income" and thus advised to prepare the action plan in addition to the mandatory activities. He highlighted about the emphasis of Govt. of India regarding organic farming in North Eastern India and fund mobilization for the same. He suggested concerned departments to give utmost priority to storage and marketing aspects of organic farming.

The Hon'ble Vice-Chancellor wanted to know the income of the farmer present in the meeting. Mrs. Runu Gogoi, farmwomen representative, informed that the monthly income of her family is around Rs. 16000 to Rs. 22000. He informed the house about the average income of farmers in Assam as Rs.6000/- and should be increased to Rs. 12000/-. He also emphasized that instead of increasing the production, our interest should be to plan production according to market demand i.e. demand driven agriculture. To double the farmer's income the obvious partners shall be government, farmer's associations, private companies (like Dabar, Patanjali etc). He advised the KVK to prepare the training modules and if needed they may be redesigned to suite the doubling farmer's income policy.

Senior Scientist cum Head, KVK Jorhat requested the Department of Fishery to appraise their plan and how KVK can collaborate with them. Mr. Chandan Kr. Gogoi, District Fishery Development Officer informed the house about Neel Biplav (Blue revolution) under which 1000 new pond digging is targeted in the district. The district demand of fish is 14,000MT/yr and district can produce 12,000MT. He appraised the house about some new projects of Fishery Department like, establishment of Fish Feed Unit, Eco Hatchery etc. with 80+20% subsidy module. He also apprised about Fisherman Insurance policy and suggested that action plan should be in the direction of Integrated fish farming, ornamental fish breeding (both for local as well as exotic fish), Soil/water testing facility, *Kuchiya* culture, *Magur* culture and Prawn culture.

In this regard Honorable Vice-Chancellor informed that, Assam is deficient of 3 Lakh MT of fish and by increasing the productivity of the existing pond, production can be increase by 50-60%.

Senior Scientist cum Head, KVK Jorhat requested the Veterinary Department to appraise the possibility of collaboration of work with KVK. Dr. Nripen Khound, SDVO, Jorhat informed that no such new scheme are under Veterinary Department which can be collaborated with KVK.

Honorable Vice-Chancellor wanted to know if KVK can intervene with the non performing Kaliapani veterinary farm. DVO informed that AAU authority can take up the matter with the higher authority of Veterinary Department for taking up of new Livestock Seed Production Programme to make nonperforming Kaliapani Farm a vibrant one.

Mr. T. Chutia, Advisor KASS highlighted the problem of marketing of different agricultural products. He requested the Honorable Vice-Chancellor to take up the matter higher up for improving marketing scenario. Honorable Vice-Chancellor informed him that under doubling farmer's income marketing aspect shall be covered.

Dr. Urmimala Hazarika, CEMR&TI, appraised the house that, they can supply the seedlings of silk worm food plant for making sericulture as a component in IFS. She also apprised that KVK can start a program in Kaliapani Sericulture Farm, Tipomia. Henceforth, Honorable Vice-Chancellor directed Dr.L.K Hazarika to visit the Tipomia Sericulture Farm to ascertain the feasibility of the programme.

The meeting ended with the vote of thanks.

Members Present:

1. Dr. K. M. Bujarbaruah, Vice Chancellor, AAU, Jorhat, Chairman.
2. Dr. H. C. Bhattacharya, Director of Extension Education, AAU, Jorhat.
3. Dr. G. N. Hazarika, Director of Research (Agri), AAU, Jorhat.
4. Dr. Chandan Sarmah, Faculty, ETC, SIPRD, Jorhat.
5. Mr. Pranjal Mahanta, SDAO, CDO Jorhat.
6. Dr. R. K.Saud, Assoc. Director of Extension Education (P&I), AAU, Jorhat
7. Dr. Rupam Borgohain, Programme Coordinator, KVK, Jorhat
8. Dr. Utpala Goswami, Senior Extension Specialist, DoEE, AAU, Jorhat
9. Mr. Anjan Dutta, NEADS, Dhekiakhuwa, Jorhat.
10. Dr. Urmimala Hazarika, Scientist D, CMER&TI, Lahdoighar.
11. Dr. Nripen Khound, SDO, DVO, Office, Jorhat.
12. Dr. R. M. Karmakar, Department of Soil Science, Jorhat.
13. Mr. Rupak Bhuyan, Fr-I, Jorhat Forest Division, Jorhat.
14. Mrs. Purabi Handique, Extension Officer, Assistant Director of Soil Science.
15. Mr. J.N. Borah, DICC, Jorhat,
16. Dr. Rajib Kr. Borah, Rain Forest Research Institute
17. Sri Thaneswar Chutia, Advisor KASS, Balijonia, Jorhat
18. Sri. Proshen Baruah, President KAAS, Jorhat District
19. Mr. Bhaskar Jyoti Gogoi, All India Radio, Jorhat.
20. Mrs. B.Dutta Tamuly, Dist Development Commissioner, Jorhat.
21. Mr. Madhav Chandra Doley, EE(Agri), Jorhat Division, Jorhat, Borbheti.
22. Mr. Chandan Kr. Gogoi, District Fishery Development Officer, Jorhat.
23. Mrs. Sanyita Borthakur, DSWO, Jorhat.
24. Dr. R.C. Borah, DoEE, AAU, Jorhat.
25. Dr. M. K. Sarma, DoEE, AAU, Jorhat.
26. Dr. P.K. Pathak, ADR, AAU, Jorhat.
27. Dr. Tamizuddin Ahmed, Chief Scientist, RARS, Titabor
28. Dr.L.K.Hazarika, Department of Entomology, Faculty of agriculture.
29. Mr. Biman Gogoi, Farmer Representative, Khanamukh.
30. Mr. Pranjit Rajkova, Farmer Representative, Bhagamukh
31. Mrs. Asha Borah Morang, Farm women Representative, Dangdhara, Titabor.
32. Mrs. Runu Gogoi, Farm women Representative, Mybelia.

2. DETAILS OF DISTRICT

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

Sl. No	Farming system/enterprises
1.	Agri – Horti – 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 ° C		Relative Humidity (%)
		Maximum	Minimum	
April'16	365.7	28.2	18.5	84.0
May'16	346.5	31.0	22.4	86.5
June'16	380.2	31.6	24.4	87.0
July'16	401.9	34.0	25.3	88.0
August'16	117.9	32.0	24.9	86.5
September'16	215.8	32.3	24.6	84.5
October'16	97.5	31.1	21.0	80.5
November'16	17.3	27.5	15.1	75.0
December'16	20.2	22.9	10.9	72.5
January'17	0.0	22.3	9.9	71.0
February'17	36.9	24.2	13.3	72.2
March'17	142.9	27.3	16.3	79.4

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

Category	Population	Production	Productivity
Cattle			
<i>Crossbred</i>	13126	57.70 million lit (Milk)	236 lit/ animal/ lactation (Average)
<i>Indigenous</i>	474886		
Buffalo	29845	0.80 Million lit (Milk)	180 lt/lactation/period of average 120 days
Sheep			
<i>Crossbred</i>	-	-	-
<i>Indigenous</i>	330	-	-
Goats	170793	0.425 million kg (Meat)	8 kg/goat
Pigs			
<i>Crossbred</i>	85625	0.25 million kg (Pork)	55 kg./pig (Average)
<i>Indigenous</i>	202797		
Rabbits	-	-	-
Poultry			
Hens			
<i>Desi</i>	444062	51.0 million nos	45 nos/ bird/yr (average)
<i>Improved</i>	12275		150 nos/ bird/ yr(average)
Ducks	190000		45 nos/ bird/yr (average)
Turkey and others			

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

Note: Pl. provide the appropriate Unit against each enterprise

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

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	Dhekergharah	Ganakbari	Vegetables, rice	1. Lack of knowledge on water management practices	1. Water management

16	Meleng	Sipahikhola	Sudamoa gaon	Rice, vegetables	<ol style="list-style-type: none"> 1. Low yield of rice 2. Under-utilization of existing fallow lands 	<ol style="list-style-type: none"> 1. Crop intensification 2. ICM and IPM of rice 3. Group mobilization
17	Mariani		Kheremiagaon, Danigaon, Bongaon, Bahonigaon, Newsonowal missingaon	<p>Winter and kharif vegetable, Potato, rapeseed, black peper, banana, goatery, duckery, pine apple</p>	<ol style="list-style-type: none"> 1. Low productivity of traditionl vaiety. 2. Unawareness of scientific production technology 3. Unscientific horticultural pocket. 4. Under utilization of natural resources. 	<ol style="list-style-type: none"> 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	<p>Sali rice, rapeseed & mustard, rabi vegetables, potato, garlic, apiary piggery, fish production</p>	<ol style="list-style-type: none"> 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 	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 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 	<ol style="list-style-type: none"> 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	Allengmora	Dhekorgora Development Block	Namdeori, Upardeori, Bahfola, Koriamari, Neolgaon, L oliti, Kolia, Dhudang, Malowkhat	Kharif & Rabi Vegetables, Piggery, Poultry	<ol style="list-style-type: none"> 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 	<ol style="list-style-type: none"> 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.

21	Nakachari	Chipahikhola Development Block	Maibelia, Aag Chamua, Lahon Gaon	Sali rice, rabi vegetables, duckery, poultry, fish production, mushroom, food preservation, weaving	<ol style="list-style-type: none"> 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 duck, poultry production. 6. Lack of management of natural depression for fish production 7. Lack of technical knowledge regarding commercial production 	<ol style="list-style-type: none"> 1. Integrated farming systems 2. Entrepreneurship development for rural youths and farm women. 3. Establishment of commodity village. 4. Increasing crop productivity through scientific management 5. Integrated livestock production and management 6. Introduction improved bred of duck and poultry suitable for backyard rearing. 7. IPDM in crop and vegetables.
----	-----------	--------------------------------	----------------------------------	---	--	--

3. TECHNICAL ACHIEVEMENTS

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

Discipline	OFT (Technology Assessment and Refinement)				FLD (Oilseeds, Pulses, Maize, Other Crops/Enterprises)			
	1				2			
	Number of OFTs		Number of Farmers		Number of FLDs		Number of Farmers	
	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
Agronomy	4	4	14	14	7	7	35	35
Soil Science	5	5	21	21	2	2	6	6
Plant Protection	4	4	14	14	2	2	77	77
Horticulture	2	2	5	5				
Animal Science	5	5	45	45	3	3	15	15
Home Science	4	4	50	50	5	5	68	68
Fishery Science	-	-	-	-	3	3	9	9
Total	24	24	149	149	22	22	210	210

Note: Target set during last Annual Zonal Workshop

Training (including sponsored, vocational and other trainings carried under Rainwater Harvesting Unit)					Extension Activities			
3					4			
Number of Courses			Number of Participants		Number of activities		Number of participants	
Clientele	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement

Farmers								
Rural youth								
Extn. Functionaries								
Total								
Seed Production (ton.)				Planting material (Nos. in lakh)				
5				6				
Target		Achievement		Target		Achievement		

Note: Target set during last Annual Zonal Workshop

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

Sl. No	Thrust area	Crop/ Enterprise	Identified problems	Interventions					
				Title of OFT	Title of FLD	Title of Training	Title of training for extension personnel	Extension activities	Supply of seeds, planting materials etc.
1	Varietal Evaluation	Lentil Rice variety (utera) : Bas Dhan	i.Low cropping intensity ii) Poor performance of non descriptive /local variety	Performance assessment of lentil vars. <i>HUL 57, Moitree, KLS 218</i> under rice utera condition with farmers participatory mode	-	-	-	Method demonstration	Seeds, Fertilizers, Pesticides

2		Niger, buckwheat	Less diversification of crops	Performance assessment of few new crops in the district suitable for crop diversification and environmental stress mitigation (crop: niger, buckwheat)	-	-	-	Method demonstration	Seeds, Fertilizers, Pesticides
3		Toria	Lack of HYV for late sown condition	Assessment of production performance of toria variety TRC Toria	-	-	-	Method demonstration	Seeds, Fertilizers, Pesticides
4		Rice variety KDML 105 (Padumoni)	-	-	Demonstration of <i>aromatic premium quality rice</i> variety KDML 105 (Padumoni) suitable for semi deep water situation	-	-	Method demonstration	Seeds, Fertilizers, Pesticides
5		<i>Sali</i> rice variety TTB 404 (Shrawoni)	-	-	Demonstration on rice-toria double cropping with medium duration HY <i>Sali</i> rice variety TTB 404 (Shrawoni) and HY toria variety TS 38 with farmers participatory mode	-	-	Method demonstration	Seeds, Fertilizers, Pesticides

6		<i>Direct seeded Sali paddy var. Luit</i>	-	-	Demonstration on direct seeded paddy var. Luit in flood affected areas of Jorhat with farmers participatory mode	-	-	Method demonstration	Seeds, Fertilizers, Pesticides
7		<i>HY Variety: Kanaklata</i>	-	-	Demonstration on cultivation of HY boro paddy variety 'Kanaklata' with farmer's participatory mode	-	-	Method demonstration	Seeds, Fertilizers, Pesticides
8		<i>Hybrid napier (Var : NB 21, IGFRI-6, CO-2) Seteria (Var: Kazungula and Nandi)</i>	-	-	Demonstration of Year round Fodder Production	-	-	Method demonstration	Seeds, Fertilizers, Pesticides
9		<i>HY Variety: Doria, Kapilpar, Kalang, Borak, Dhansiri Check : Farmers variety (Aki puria)</i>	-	-	Demonstration on sugarcane HY varieties and farmers participatory variety selection	-	-	Method demonstration	Seeds, Fertilizers, Pesticides
10		<i>Mushroom var. Oyster (P. ostrietus)</i>	-	-	Cultivation of Mushroom var. <i>Oyster</i>	-	-	Method demonstration	Spawn, packets

11		Yellow Sarson Variety (Variety-YSH-401)	Non availability of short duration yellow Sarson variety	Varietal Evaluation of Yellow Sarson Variety (Variety-YSH-401)	-	-	-	Method demonstration	Seeds, Fertilizers, Pesticides
12		Mushroom variety Ostrietus – 444	Lack of year round mushroom varieties	Year round paddy straw Mushroom variety Ostrietus – 444	-	-	-	Method demonstration	Seeds, Fertilizers, Pesticides
13		Congo Signal and hybrid napier	Fodder production through out the year (specially in lean period) is always a constrain to the dairy farmer	Productive performance of fodder (Congo Signal and hybrid napier) for dairy cattle	-	-	-	Method demonstration	Seeds, Fertilizers, Pesticides
14	Integrated Crop Management	Lentil	Plant density management	Effect of seed rate on the productivity of lentil	-	-	-	Method demonstration	Seeds, Fertilizers, Pesticides
15		Maize			Integrated crop management of maize	-	-	Method demonstration	Seeds, Fertilizers, Pesticides
16	Integrated Nutrient Management	Lathyrus Variety: <i>Nirmal</i>	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: <i>Nirmal</i>)	-	-	-	Method demonstration	Seeds, Fertilizers, Pesticides
17		Lentil	To reduce loss of N from applied fertilizer and supply of N at critical stage of crop growth	Foliar Nutrition Supplementation in Lentil	-	-	-	Farmers scientist interaction	Paddy seeds, fertilizers, pesticides

18		Toria (Variety-TS-38)	-	-	Integrated Nutrient Management(INM)in Toria (Variety-TS-38)	-	-	Method demonstration	Seeds, Fertilizers, Pesticides
19		Lentil (Variety— Moitree/KLS 218)	-	-	Integrated Nutrient Management (INM) in Lentil (Variety— Moitree/KLS 218)	-	-	Method demonstration	Seeds, Fertilizers, Pesticides
20		Toria (Variety-TS-38)	1. High present recommended seed rate at AAU package 2. Zn is not recommended as micronutrient fertilizer in Assam 3. RD of fertilizer is less as compared to national recommendation.	Integrated Nutrient Management in Toria (Variety-TS-38)	-	-	-	Method demonstration	Seeds, Fertilizers, Pesticides
21	IPM	Rice	-	-	T- perch as roosting site for insectivorous birds in rice field as a component of IPM	-	-	Method demonstration	Seeds, Fertilizers, Pesticides
22		Rice	Injudicious use of chemical pesticides against major insect pest of Rice	Biological suppression of Rice pest (BIPM package)	-	-	-	Method demonstration	Seeds, Fertilizers, Pesticides
23		Brinjal, Tomato, cucurbit	Injudicious use of chemical pesticides against major insect pest of horticultural crops	Efficacy of different pheromones in controlling insect pest in horticultural crops	-	-	-	Method demonstration	Seeds, Fertilizers, Pesticides

24		Potato	High Infestation of red ants in potato	Management of red ant, <i>Dorylus orientalis</i> in potato	-	-	-	Method demonstration	Seeds, Fertilizers, Pesticides
25	Organic management	Bhut Jolokia	1. Indiscriminate use of chemical fertilizer and plant protection chemicals 2. Absence of organic package for <i>Bhut Jolokia</i>	OFT on Assessment of organic Bhut Jolokia cultivation package	-	-	-	Method demonstration	Seeds, Fertilizers, Pesticides
26		Turmeric var <i>Mrgha 1</i>	Indiscriminate use of fertilizers , pesticides, and weedicide at field level	Organic Cultivation of Turmeric var <i>Mrgha 1</i>	-	-	-	Method demonstration	Seeds, Fertilizers, Pesticides
27		Ginger var. Nadia	Indiscriminate use of fertilizers , pesticides, and weedicide at field level	Organic Cultivation of Ginger var. Nadia	-	-	-	Method demonstration	Seeds, Fertilizers, Pesticides

28		Turkey	<ol style="list-style-type: none"> 1. High fat content of poultry meat. 2. Awareness of people for good food and health coniousness. 3. Buying capacity of the general people has increase. 4. Requirement of lean meat. 5. Animal protein source for hypertensive and diabetic person. 	Productive performance of Turkey for lean meat production in Jorhat district	-	-	-	Method demonstration	Seeds, Fertilizers, Pesticides
29	Feed Management	Piggery	-	-	Demonstration of mineral mixture (AAUVETMIN) supplementation in growth of weanling piglets	-	-	Method demonstration	AAUVETMIN
30	Breed introduction	Vigova Super broiler duck	-	-	Demonstration on productive performance of Vigova Super broiler duck	-	-	Method demonstration	Vigova Super broiler duck
31	Breed Evaluation	Kalinga Brown Backyard Poultry	-	-	Demonstration on productive performance of Kalinga Brown Backyard Poultry	-	-	Method demonstration	Kalinga Brown

32		Rainbow as backyard farming	Low productivity of local hen both terms of egg and meat production	Assessment of Productive performance of Rainbow as backyard farming in Jorhat district	-	-	-	Method demonstration	Seeds, Fertilizers, Pesticides
33	Healthcare	Jatropa oil based herbal ointment	1. Herbal based ointment. 2. Instead of petroleum jelly honey wax is used. 3. All ingredients are available at farmers place so they can produced at home. 4. Low cost compare to market available ointment.	Performance for assessing jatropa oil based herbal ointment	-	-	-	Method demonstration	Seeds, Fertilizers, Pesticides
34	Healthcare	Jatropa oil based herbal soap	1. Herbal based soap. 2. Low cost compare to market available soaps.	Performance for assessing jatropa oil based herbal soap	-	-	-	Method demonstration	Seeds, Fertilizers, Pesticides
35	Composite Fish Culture	Composite fish culture with Indian Major Carp and Exotic Carps	-	-	Demonstration on Species Combination and ratio in Composite Fish Culture	-	-	Method demonstration	Fish Fingerlings, Fish Feed
36	Integrated farming	Rice- Fish	-	-	Integrated Rice- Fish Farming	-	-	Method demonstration	Fish Fingerlings, Fish Feed

37	Pond management	Feeding with balanced diet	-	-	Use of balanced pelleted fish feed for higher carp productivity	-	-	Method demonstration	Fish Fingerlings, Fish Feed
38	Utilization of waste materials (Bio-degraded/ Bio-nondegraded)	Solar dryer	i.Sun drying is weather dependent which lower efficiency ii. Wastage of perishable food items	Performance assessment of solar dryer for processing perishable food items	-	-	-	Method demonstration	Solar dryer
39	Drudgery reduction	1.Apron 2.Loose Pant 3.Head dress	Unavailability of proper dress material during performing Agricultural work	Uses of Protective clothing for Agricultural activities performed by farm women	-	-	-	Method demonstration	Dress material
40	Organic dye introduction/ utilization	Colorants from natural sources viz., turmeric, beat root	Excessive use of synthetic color	Addition of Natural Food Colorants in Processed Food items	-	Addition of natural food colorants into traditional food items	-	Method demonstration	-
41		Solar cooker for household cooking purposes	High cost of fuel	Performance assessment of solar cooker for household purposes	-	-	-	Method demonstration	Solar cooker
42	Value addition	Amla Candy	-	-	Demonstration on production of Amla candy	Production of Amla candy	-	Method demonstration	Materials for training

43	Value addition	Eri X Cotton Muga X Eri Cotton X Art silk	-	-	Construction of Union Fabric	Training on Diversification of woven fabric for better marketability	-	Method demonstration	Warp and weft fiber
44	Organic dye introduction/ utilization	Natural dyes (Marigold, Teak leaf)	-	-	Dyeing of cotton cloth with natural dyes extracted from locally available plant species	-	-	Method demonstration	Fabric pieces and Dyes are extracted from local sources
45	Nutritional diet for children/ Pregnant women	Bhurbhuria Pitha Pat pitha	-	-	Nutrification of Traditional recipes	Training on Nutrification of Traditional recipes	-	Method demonstration	Materials for method demonstration
46	Nutritional Gardening	Nutritional Gardening	-	-	Nutritional Gardening	-	-	Method demonstration	Seeds, seedlings

3.1 Achievements on technologies assessed and refined during 2016-17

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Fodder	Tuber Crops	Mushroom cultivation	TOTAL
Varietal Evaluation	2	3						1		1	7
Seed / Plant production											0
Weed Management											0
Integrated Crop Management			1								1
Integrated Nutrient Management		1	2								3
Integrated											0

Farming System											
Drudgery reduction	1										1
Farm machineries											0
Value addition	1										1
Integrated Pest Management	1				1	1					3
Integrated Disease Management											0
Resource conservation technology	2										2
Small Scale income generating enterprises											0
Organic management					3						3
TOTAL	8	4	3	0	4	1	0	1	0	1	21

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

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

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

Integrated Farming System										
Mushroom cultivation										
Drudgery reduction										
Farm machineries										
Post Harvest Technology										
Integrated Pest Management										
Integrated Disease Management										
Resource conservation technology										
Small Scale income generating enterprises										
TOTAL										

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

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

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitery	Fisheries	TOTAL
Evaluation of Breeds		2						2
Nutrition Management								
Disease of Management				2				2
Value Addition								
Production and Management								
Feed and Fodder								
Small Scale income generating enterprises								
TOTAL		2		2				4

A.5. Results of On Farm Testing

Sl. No.	Title of OFT	Problem Diagnosed	Name of Technology Assessed	Crop/Cropping system/ Enterprise	No. of Trials	Results of Assessment/ Refined (Data on the parameter should be provided)	Feedback from the farmer	Feedback to the Researcher	B.C . Ratio (if applicable)	
1	Performance assessment of lentil vars. <i>HUL 57, Moitree, KLS 218</i> under rice utera condition with farmers participatory mode	Low cropping intensity ii) Poor performance of non descriptive /local variety	Source of Technology : <i>RARS, Shillongoni.</i> T ₁ = Sowing of HUL 57, Moitree, KLS-218 using a seed rate of 40 kg/ha 20 days before harvesting of the Sali rice T ₂ = =Farmers practice (NIL)	Lentil Rice variety (utera) : Bas Dhan	5	No. of trials: 05 Location : Neulgaon, Selek, Kothalkhowa Area: 0.68 ha				
						Parameters	HUL 57	Moitree	KLS-218	Farmers practice
						Date of Sowing	04 Nov, 16			No farmers practice
						Plant ht (cm)	61.2	58.7	59.5	
						No of branches/plant	18.7	18.2	17.9	
						No of Pod/ plant	34.2	33	32.7	
						Yield (t/ha)	0.772	0.731	0.701	
						Gross return (Rs/ha)	61768	58480	56087	
						Gross cost (Rs/ha)	25650	25650	25650	
						Net return (Rs/ha)	36118	32830	30437	
						B:C ratio	2.41	2.27	2.18	
2	Performance assessment of few new crops in the district suitable for crop diversification and environmental stress mitigation (crop: niger, buckwheat)	Less diversification of crops	Technology: Niger Variety: Local(NG-1) Buckwheat Variety : BWC-1 Check : Local varieties	Niger Variety: Local(NG-1)		No. of trials: 03 Location : Kothalkhoa, Grazing sapor Area: 0.13 ha Month of start: Nov, 2016				

3	Effect of seed rate on the productivity of lentil	Plant density management	Variety: HUL 57 T1 : Seed rate – 15 kg/ha T2 : 22.5 kg/ha T3 : 30 kg/ha	Lentil Variety: HUL 57	3	<p>No. of trials: 03 Location : Kothalkhoa, Grazing sapor, Adi Elengi Area: 4500 m² (500 m²/treatment) Month of start: Nov, 2016</p> <table border="1" data-bbox="1144 300 2047 715"> <thead> <tr> <th>Parameters</th> <th>T1 (15kg)</th> <th>T2 (22.5kg)</th> <th>T3 (30kg)</th> <th>Farmers practice</th> </tr> </thead> <tbody> <tr> <td>Date of Sowing</td> <td colspan="3">04 Nov, 16</td> <td rowspan="9">No farmers practice</td> </tr> <tr> <td>Plant ht (cm)</td> <td>58.7</td> <td>56.7</td> <td>58.7</td> </tr> <tr> <td>No of branches/plant</td> <td>18.2</td> <td>19.7</td> <td>18.2</td> </tr> <tr> <td>No of Pod/ plant</td> <td>31.2</td> <td>33.6</td> <td>33.1</td> </tr> <tr> <td>Yield (t/ha)</td> <td>0.697</td> <td>0.791</td> <td>0.737</td> </tr> <tr> <td>Gross return (Rs/ha)</td> <td>55767</td> <td>63288</td> <td>58968</td> </tr> <tr> <td>Gross cost (Rs/ha)</td> <td>24850</td> <td>25150</td> <td>25650</td> </tr> <tr> <td>Net return (Rs/ha)</td> <td>30917</td> <td>38138</td> <td>33318</td> </tr> <tr> <td>B:C ratio</td> <td>2.24</td> <td>2.51</td> <td>2.29</td> </tr> </tbody> </table>	Parameters	T1 (15kg)	T2 (22.5kg)	T3 (30kg)	Farmers practice	Date of Sowing	04 Nov, 16			No farmers practice	Plant ht (cm)	58.7	56.7	58.7	No of branches/plant	18.2	19.7	18.2	No of Pod/ plant	31.2	33.6	33.1	Yield (t/ha)	0.697	0.791	0.737	Gross return (Rs/ha)	55767	63288	58968	Gross cost (Rs/ha)	24850	25150	25650	Net return (Rs/ha)	30917	38138	33318	B:C ratio	2.24	2.51	2.29
Parameters	T1 (15kg)	T2 (22.5kg)	T3 (30kg)	Farmers practice																																												
Date of Sowing	04 Nov, 16			No farmers practice																																												
Plant ht (cm)	58.7	56.7	58.7																																													
No of branches/plant	18.2	19.7	18.2																																													
No of Pod/ plant	31.2	33.6	33.1																																													
Yield (t/ha)	0.697	0.791	0.737																																													
Gross return (Rs/ha)	55767	63288	58968																																													
Gross cost (Rs/ha)	24850	25150	25650																																													
Net return (Rs/ha)	30917	38138	33318																																													
B:C ratio	2.24	2.51	2.29																																													
4	Assessment of production performance of toria variety TRC Toria	Lack of HYV for late sown condition	Variety : TRC Toria (Source : ICAR Research Complex for NEH region & KVK, West Tripura) Check : TS 38	Variety : TRC Toria	03	<p>Variety : TRC Toria Vs TS 38 No. of trials: 03 (Kakorikota (Majuli)) Area: 0.065 ha Land situation : Medium land Farming situation : Rainfed</p> <table border="1" data-bbox="1144 831 2047 1417"> <thead> <tr> <th>Parameters</th> <th>TRC Toria</th> <th>TS- 38</th> </tr> </thead> <tbody> <tr> <td>Date of sowing</td> <td>26.12.16</td> <td>26.12.16</td> </tr> <tr> <td>Date of harvesting</td> <td>28.02.17</td> <td>28.02.17</td> </tr> <tr> <td>Plant height (cm)</td> <td>109.42</td> <td>112.85</td> </tr> <tr> <td>Days to maturity</td> <td>87</td> <td>87</td> </tr> <tr> <td>No of siliqua /plant</td> <td>260.27</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>7.14</td> <td>7.45</td> </tr> <tr> <td>Gross cost (Rs/ha)</td> <td>12,800</td> <td>12,800</td> </tr> <tr> <td>Gross return (Rs/ha)</td> <td>21420</td> <td>22350</td> </tr> </tbody> </table>	Parameters	TRC Toria	TS- 38	Date of sowing	26.12.16	26.12.16	Date of harvesting	28.02.17	28.02.17	Plant height (cm)	109.42	112.85	Days to maturity	87	87	No of siliqua /plant	260.27	268.23	Disease-pest	Negligible	Negligible	Yield (q/ha)	7.14	7.45	Gross cost (Rs/ha)	12,800	12,800	Gross return (Rs/ha)	21420	22350												
Parameters	TRC Toria	TS- 38																																														
Date of sowing	26.12.16	26.12.16																																														
Date of harvesting	28.02.17	28.02.17																																														
Plant height (cm)	109.42	112.85																																														
Days to maturity	87	87																																														
No of siliqua /plant	260.27	268.23																																														
Disease-pest	Negligible	Negligible																																														
Yield (q/ha)	7.14	7.45																																														
Gross cost (Rs/ha)	12,800	12,800																																														
Gross return (Rs/ha)	21420	22350																																														

						Net return (Rs/ha)	8620	9550
						B.C Ratio	1.67	1.74
5	INM in Lathyrus under Rice Utera condition (Lathyrus Variety: <i>Nirmal</i>)	Non adoption of integrated nutrient management practices in Lathyrus and lack of awareness about low BOAA containing Lathyrus variety	INM Top dressing of 5: 13 kg N : P ₂ O ₅ /ha at sowing and 5: 13:15 kg N : P ₂ O ₅ : K ₂ O/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	Lathyrus Variety: <i>Nirmal</i>	05	Variety: Ratan Location: Allengmora, Neol Gaon, Loliti, Borchapori Area : 0.13 ha in each location Date of sowing: 02.11.2016 and 04.11.16		
						Parameters	Treatment	Farmers practice
						Nutrient Status (pre)	pH-5.95, % OC-1.02 Av. N-375 kg/ha, Av. P ₂ O ₅ -23.88 kg/ha Av. K ₂ O-107.0 kg/ha	pH-5.80, % OC-1.12 Av. N-388 kg/ha, Av. P ₂ O ₅ -23.50 kg/ha, Av. K ₂ O-101.30 kg/ha
						Nutrient Status (post)	Not harvested	
						Plant height	92cm	84cm
						Plant Stand	82 plants/ sq m	87 plants/ sq m
						Pod/ plant	40	32
						Seed/ pod	4.2	3.1
6	Foliar Nutrition Supplementa tion in Lentil	To reduce loss of N from applied fertilizer and supply of N at critical stage of crop growth	Nutrients N:P:K @ 15:35:15 kg/ha and 2 sprays of 2% urea at branching (35 DAS) and pod initiation (75DAS) stages	Lentil	05	Variety : PL 406 Location: Allengmora, Neol Gaon, Bhalukmora, Adi Elengi, Lahon Gaon Area : 0.13 ha in each location Date of sowing: 10-11-16- to 16-11-16		
						Parameters	Treatment	Farmers practice
						Average Plant height(cm)	59	54
						No of pod/plant	55	48
						Avg No of Seed/pod	2.0	1.8
						Seed yield q/ha	6.2	5.10
						B:C Ratio	1.90	1.71
7	OFT on Assessment	1. Indiscrimi nate use of	Enriched compost @ 10 t/ha 2. Compost @	Bhut Jolokia	05	Variety : Bhut Jolokia Local Location : Bamun pukhuri, Hazarikagaon, Pohumora, Tulshijan, Khonamukh Month of start: October, 2016		

	of organic Bhut Jolokia cultivation package	chemical fertilizer and plant protection chemicals 2. Absence of organic package for <i>Bhut Jolokia</i>	10 t/ha + biofertilizer (Azospirillum and PSB) Plant protection measures : 1. Planting of maize plants as border crop, 2. Use of yellow sticky card for aphids @ 20 traps/bigha, 3. Application of neem based pesticides at 10 days interval 4. Use of Bordeaux mixture for control of disease			Area : 0.13 ha in each location				
						Problem diagnosed	Technology/ Social Concept	Results		
								Parameters	Treatment	Farmers practice
								Date of transplanting	13.10.16	13.10.16
1. Indiscriminate use of chemical fertilizer and plant protection chemicals 2. Absence of organic package for <i>Bhut Jolokia</i>	1. Enriched compost @ 10 t/ha 2. Compost @ 10 t/ha + biofertilizer (Azospirillum and PSB) Plant protection measures : 1. Planting of maize plants as border crop, 2. Use of yellow sticky card for aphids @ 20 traps/bigha, 3. Application of neem based pesticides at 10 days interval 4. Use of Bordeaux mixture for control of disease	Nutrient Status (Pre)	pH-5.35, % OC-0.95 Av. N-365 kg/ha, Av. P ₂ O ₅ -29.75 kg/ha Av. K ₂ O-112.50 kg/ha	pH-5.41, % OC-0.91 Av. N-372kg/ha, Av. P ₂ O ₅ -28.83 kg/ha, Av. K ₂ O-110.97 kg/ha						
		Nutrient Status (Post) Av. Yield (t/ha)	pH-5.82, % OC-1.04 Av. N-382 kg/ha, Av. P ₂ O ₅ -24.01 kg/ha Av. K ₂ O-108.1 kg/ha	pH-5.74% OC-1.16, Av. N-391 kg/ha, Av. P ₂ O ₅ -23.80 kg/ha, Av. K ₂ O-101.97 kg/ha						

								First picking started in two locations	First picking started in two locations																																			
8	Integrated Nutrient Management in Toria (Variety-TS-38)	1.High present recommended seed rate at AAU package 2.Zn is not recommended as micronutrient fertilizer in Assam 3. RD of fertilizer is less as compared to national recommendation.	<p>i. <u>Seed rate:</u> 5kg /ha as against 10kg/ha as recommended in Rabi Package.</p> <p>ii. <u>Fertilizer rate:</u> N: P₂O₅: K₂O: S @ 80: 40: 30: 20 kg/ha against recommended dose of fertilizer for Rapeseed & Mustard for Assam N: P₂O₅: K₂O: @ 40: 35: 15 kg/ha, there is no sulphur recommendation for Assam.</p> <p>iii. <u>Micronutrient:</u> Zinc Sulphate (ZnSO₄) @ 25kg/ha + Borax @10 kg/ha (There is no recommendation of Zinc for Assam for Rapeseed & Mustard) Check: N: P₂O₅: K₂O @ 40: 35: 15kg/ha + Borax @ 10kg/ha , seed rate @ 10 kg/ha</p>	Toria (Variety-TS-38)	2	<p>Location: Kakarikata (2), Grazing Chapori Area: 0.39ha</p> <table border="1"> <thead> <tr> <th>Problem diagnosed</th> <th>Technology/ Social Concept</th> <th colspan="3">Results</th> </tr> <tr> <td></td> <td></td> <th>Parameters</th> <th>Technology</th> <th>Control</th> </tr> </thead> <tbody> <tr> <td>1. High present recommended seed rate at AAU package</td> <td rowspan="7"> <p>i. <u>Seed rate:</u> 5kg /ha as against 10kg/ha as recommended in Rabi Package.</p> <p>ii. <u>Fertilizer rate:</u> N: P₂O₅: K₂O: S @ 80: 40: 30: 20 kg/ha against recommended dose of fertilizer for Rapeseed & Mustard for Assam N: P₂O₅: K₂O: @ 40: 35: 15 kg/ha, there is no sulphur recommendation for Assam.</p> <p>iii. <u>Micronutrient:</u> Zinc Sulphate (ZnSO₄) @ 25kg/ha + Borax @10 kg/ha (There is no recommendation of Zinc for Assam for Rapeseed & Mustard) Check: N: P₂O₅: K₂O @ 40: 35: 15kg/ha + Borax @ 10kg/ha , seed rate @ 10 kg/ha</p> </td> <td>Plant height (cm)</td> <td>118.67</td> <td>103.33</td> </tr> <tr> <td>2. Zn is not recommended as micronutrient fertilizer in Assam</td> <td>Days to maturity</td> <td>91</td> <td>87</td> </tr> <tr> <td>3. RD of fertilizer is less as compared to national recommendation.</td> <td>No of siliqua /plant</td> <td>278.55</td> <td>245.22</td> </tr> <tr> <td></td> <td>Disease-pest</td> <td>Negligible</td> <td>Negligible</td> </tr> <tr> <td></td> <td>Yield (q/ha)</td> <td>11.39</td> <td>9.11</td> </tr> <tr> <td></td> <td>Gross cost (Rs/ha)</td> <td>13,600</td> <td>12,700</td> </tr> </tbody> </table>				Problem diagnosed	Technology/ Social Concept	Results					Parameters	Technology	Control	1. High present recommended seed rate at AAU package	<p>i. <u>Seed rate:</u> 5kg /ha as against 10kg/ha as recommended in Rabi Package.</p> <p>ii. <u>Fertilizer rate:</u> N: P₂O₅: K₂O: S @ 80: 40: 30: 20 kg/ha against recommended dose of fertilizer for Rapeseed & Mustard for Assam N: P₂O₅: K₂O: @ 40: 35: 15 kg/ha, there is no sulphur recommendation for Assam.</p> <p>iii. <u>Micronutrient:</u> Zinc Sulphate (ZnSO₄) @ 25kg/ha + Borax @10 kg/ha (There is no recommendation of Zinc for Assam for Rapeseed & Mustard) Check: N: P₂O₅: K₂O @ 40: 35: 15kg/ha + Borax @ 10kg/ha , seed rate @ 10 kg/ha</p>	Plant height (cm)	118.67	103.33	2. Zn is not recommended as micronutrient fertilizer in Assam	Days to maturity	91	87	3. RD of fertilizer is less as compared to national recommendation.	No of siliqua /plant	278.55	245.22		Disease-pest	Negligible	Negligible		Yield (q/ha)	11.39	9.11		Gross cost (Rs/ha)	13,600	12,700
Problem diagnosed	Technology/ Social Concept	Results																																										
		Parameters	Technology	Control																																								
1. High present recommended seed rate at AAU package	<p>i. <u>Seed rate:</u> 5kg /ha as against 10kg/ha as recommended in Rabi Package.</p> <p>ii. <u>Fertilizer rate:</u> N: P₂O₅: K₂O: S @ 80: 40: 30: 20 kg/ha against recommended dose of fertilizer for Rapeseed & Mustard for Assam N: P₂O₅: K₂O: @ 40: 35: 15 kg/ha, there is no sulphur recommendation for Assam.</p> <p>iii. <u>Micronutrient:</u> Zinc Sulphate (ZnSO₄) @ 25kg/ha + Borax @10 kg/ha (There is no recommendation of Zinc for Assam for Rapeseed & Mustard) Check: N: P₂O₅: K₂O @ 40: 35: 15kg/ha + Borax @ 10kg/ha , seed rate @ 10 kg/ha</p>	Plant height (cm)	118.67	103.33																																								
2. Zn is not recommended as micronutrient fertilizer in Assam		Days to maturity	91	87																																								
3. RD of fertilizer is less as compared to national recommendation.		No of siliqua /plant	278.55	245.22																																								
		Disease-pest	Negligible	Negligible																																								
		Yield (q/ha)	11.39	9.11																																								
		Gross cost (Rs/ha)	13,600	12,700																																								

						Check: N: P ₂ O ₅ : K ₂ O @ 40: 35: 15kg/ha + Borax @ 10kg/ha , seed rate @ 10 kg/ha	Gross return (Rs/ha)	34170	30330																																					
							Net return (Rs/ha)	20570	17630																																					
							B.C Ratio	1.51	1.38																																					
9	Varietal Evaluation of Yellow Sarson Variety (Variety-YSH-401)	Non availability of short duration yellow Sarson variety	Crop: Short duration Yellow Sarson Variety: YSH-401 Duration: 95-100 days Reported yield: 17 q/ha (As per Directorate of Rape and Mustard, Bharatpur) Seed source: Directorate of Rape and Mustard Research, Bharatpur, Rajasthan Check variety: Vinay (B-9)	Yellow Sarson Variety (Variety-YSH-401)	03	Location :Kakarikata (2), Grazing Chapori Area: 0.39 ha Month of start: November, 2016	<table border="1"> <thead> <tr> <th>Problem diagnosed</th> <th>Technology/ Social Concept</th> <th colspan="3">Results</th> </tr> <tr> <td rowspan="10">Non availability of short duration yellow Sarson variety</td> <td rowspan="10">Crop: Short duration Yellow Sarson Variety: YSH-401 Duration: 95-100 days Reported yield: 17 q/ha (As per Directorate of Rape and Mustard, Bharatpur) Seed source: Directorate of Rape and Mustard Research, Bharatpur, Rajasthan Check variety: Vinay (B-9)</td> <th>Parameters</th> <th>Technology</th> <th>Farmers practice</th> </tr> </thead> <tbody> <tr> <td>Plant height (cm)</td> <td>121</td> <td>115</td> </tr> <tr> <td>Days to maturity</td> <td>96</td> <td>87</td> </tr> <tr> <td>No of siliqua /plant</td> <td>63</td> <td>58</td> </tr> <tr> <td>Disease-pest</td> <td>Negligible</td> <td>Negligible</td> </tr> <tr> <td>Yield (q/ha)</td> <td>12.35</td> <td>0.950</td> </tr> <tr> <td>Gross cost (Rs/ha)</td> <td>12700</td> <td>12,700</td> </tr> <tr> <td>Gross return (Rs/ha)</td> <td>34050</td> <td>28500</td> </tr> <tr> <td>Net return (Rs/ha)</td> <td>21350</td> <td>15800</td> </tr> <tr> <td>B:C ratio</td> <td>1.68</td> <td>1.25</td> </tr> </tbody> </table>			Problem diagnosed	Technology/ Social Concept	Results			Non availability of short duration yellow Sarson variety	Crop: Short duration Yellow Sarson Variety: YSH-401 Duration: 95-100 days Reported yield: 17 q/ha (As per Directorate of Rape and Mustard, Bharatpur) Seed source: Directorate of Rape and Mustard Research, Bharatpur, Rajasthan Check variety: Vinay (B-9)	Parameters	Technology	Farmers practice	Plant height (cm)	121	115	Days to maturity	96	87	No of siliqua /plant	63	58	Disease-pest	Negligible	Negligible	Yield (q/ha)	12.35	0.950	Gross cost (Rs/ha)	12700	12,700	Gross return (Rs/ha)	34050	28500	Net return (Rs/ha)	21350	15800	B:C ratio	1.68	1.25
Problem diagnosed	Technology/ Social Concept	Results																																												
Non availability of short duration yellow Sarson variety	Crop: Short duration Yellow Sarson Variety: YSH-401 Duration: 95-100 days Reported yield: 17 q/ha (As per Directorate of Rape and Mustard, Bharatpur) Seed source: Directorate of Rape and Mustard Research, Bharatpur, Rajasthan Check variety: Vinay (B-9)	Parameters	Technology	Farmers practice																																										
		Plant height (cm)	121	115																																										
		Days to maturity	96	87																																										
		No of siliqua /plant	63	58																																										
		Disease-pest	Negligible	Negligible																																										
		Yield (q/ha)	12.35	0.950																																										
		Gross cost (Rs/ha)	12700	12,700																																										
		Gross return (Rs/ha)	34050	28500																																										
		Net return (Rs/ha)	21350	15800																																										
		B:C ratio	1.68	1.25																																										
10	Year round paddy straw Mushroom variety	Lack of year round mushroom varieties	Variety: <i>Ostrietus</i> – 444 Opening of the mushroom bag :	Mushroom variety <i>Ostrietus</i> – 444	07	Location: Neolgaon, Alengmora;Aagsamua gaon, Maibelia, Duliagaon, Bolimora, Titabar , Area/Unit: 5 unit, 5 SHGs																																								

	Ostrietus – 444		30.07.2016			Source of Technology	Problem diagnosed	Technology/ Social Concept	Technology (July- March)			Farmer's practice (October-March)
									Parameters	Mushroom bed within the polybag	Mushroom bed without polybag in open condition	
						Mushroom Biotech and spawn centre, Shiliguri, WB	Lack of year round mushroom varieties	Variety: <i>Ostrietus</i> – 444 Opening of the mushroom bag : 30.07.2016	1.days to 1 st picking : 2.Weight of mushroom in 1st picking : 3.Weight of mushroom in last picking : 4.Time interval between picking(days) 5.Total yield per mushroom bed : 6. No. of picking : 7.Shelf life of fresh	7- 10 days Avg. 250 gm Avg100 gm 7-10 days 2.5kg (avg) 6 times 3 days 2 days	7- 10 days Avg. 400 gm 100 gm (Avg.) 7-10 days 1.5 kg (avg) 4 times 3 days 2 days	10 -12 days 850 gm n- 100 gm (Avg.) 7-10 days 2.3kg (avg) 4 times 3 days 2 days

									mushroom (days) : a. In paper wrapping b. In polythene wrapping			
11	Biological suppression of Rice pest (BIPM package)	Injudicious use of chemical pesticides against major insect pest of Rice	Seed treatment with <i>P. fluorescence</i> @ 8 gm/kg of seed 2. Spray of <i>B. bassiana</i> @ 10 ³ spores/ha against sucking pest for 2 times at 15 days interval 3. Release of <i>T. japonicum</i> @ 100K/ha twice at 30 days after planting 4. Pheromone trap @ 8 traps/ha for YSB 5. Need based application of botanicals twice at 10 days interval	Rice	1	Location: Majkuri, Burhakuri		Area: 2 ha				
						Source of Technology	Problem diagnosed	Technology/ Social Concept	Result			
									Treatment	Farmers practice		
						AICRP on Biological control, AAU, Jorhat, 2013	Injudicious use of chemical pesticides against major insect pest of Rice	Seed treatment with <i>P. fluorescence</i> @ 8 gm/kg of seed 2. Spray of <i>B. bassiana</i> @ 10 ³ spores/ha against sucking pest for 2 times at 15 days interval 3. Release of <i>T. japonicum</i> @ 100K/ha twice at 30 days after planting 4. Pheromone trap @ 8 traps/ha for YSB 5. Need based	Date of transplanting : 08.07.2016 1. No. of dead heart before and 7 days after each spray/m ² : Nil 2. No. of folded leaf before and 7 days after each spray/hill : 0.6 and Nil 3. Incidence of disease : Nil 4. Yield : 5 t/ha 5. B:C ratio : 2.06	Date of transplanting : 08.07.2016 1. No. of dead heart before and 7 days after each spray/ m ² : 6.6 % and Nil 2. No. of folded leaf before and 7 days after each spray/hill : 1.2 and Nil 3. Incidence of disease : Nil 4. Yield : 4.6 t/ha 5. B:C ratio: 1.84		

								application of botanicals twice at 10 days interval		
12	Efficacy of different pheromones in controlling insect pest in horticultural crops	Injudicious use of chemical pesticides against major insect pest of horticultural crops	1. Lucilure against Brinjal shoot and fruit borer 2. Helilure against Tomato fruit borer 3. Methyl euginol against citrus fruit fly 4. Cuelure against cucurbit fruit fly	Brinjal Tomato Citrus fruit Cucurbit		Location: Mariani, Tengabari, Allengmora, Titabar, Lahing Area: 1 ha				
						Source of Technology	Problem diagnosed	Technology/Social Concept	Result	
									Treatment	Farmers practice
						AAU (product supplied by -Green Agri-Biotech, Assam)	Injudicious use of chemical pesticides against major insect pest of horticultural crops	1. Lucilure against Brinjal shoot and fruit borer 2. Helilure against Tomato fruit borer 3. Methyl euginol against citrus fruit fly 4. Cuelure against cucurbit fruit fly	Methyl Euginol against citrus fruit fly : 1. Number of trapped insect per day (Avg) : 6.3 2. Per cent fruit drop per plant : 10 % (Avg)	Per cent fruit drop per plant : 42 %
									Cue lure against cucurbit fruit fly : 1. Number of trapped insect per day (Avg.) : 9.5 (Bitter gourd), 10.3 (Bottle gourd) 2. Per cent fruit infestation : 1.5 - 2 %	Per cent fruit infestation : 30 % per plant
									Helilure against Tomato fruit borer : 1. Number of trapped insect per day (Avg.) : 4.2 2. Per cent fruit infestation : 6.6 %	Per cent fruit infestation : 45 % per plant

									Helilure against Brinjal and shoot borer : 1. Number of trapped insect per day (Avg.) : 11.2 2. Per cent fruit infestation : Nil -1.3 %	Per cent fruit infestation : 45 % per plant
13	Management of red ant, <i>Dorylus orientalis</i> in potato	High Infestation of red ants in potato	Soil drenching of furrows with chlorpyrifos 20 EC @ 0.06 per cent (3 ml per litre of water) before sowing of potato tubers to reduce infestation	Potato	02	Location: Tengabari, Selenghat Area: 1 ha				
						Source of Technology	Problem diagnosed	Technology/ Social Concept	Progress	
								Treatment	Farmers practice	
						AINP, AAU, Jorhat, 2013	High Infestation of red ants in potato	1. Soil drenching of furrows with chlorpyrifos 20 EC @ 0.06 per cent (3 ml per litre of water) before sowing of potato tubers to reduce infestation	1. Per cent infestation by red ant per plant : Nil	25 %
									2. Number of infested potato tubers per plant : Nil	5 (Avg.)
									3. Infestation of red ant at different stages of plant : 1.3 % (Late maturity stage)	45 %
									4. Occurrence of any other insect pest and diseases : Negligible	Fungal infection
									5. Total yield : 10 t/ha	7.2 t/ha
									6. B: C Ratio : 1.9	1.4

14	Organic Cultivation of Turmeric var <i>Mrgha 1</i>	Indiscriminate use of fertilizers , pesticides, and weedicide at field level	i) FYM @ 5 ton/ha fresh wt basis along with mulching with green leaves . ii) Application of Neem cake @ 2 t/ha at planting iii) Supplementation of microbial culture of Azospirillum and PSB @ 20 kg/ha iv) Seed rhizomes mixed with <i>Tricoderma harzianum</i> @ 100 kg/hac for protection against soft rot disease. v) Bordeaux mixture 1% application against leaf spot and leaf blotch	Turmeric var <i>Mrgha 1</i>	03	Location: Mising Gaon, Kheremia and Bon Gaon Area: 1 bigha				
						Problem diagnosed	Technology/ Social Concept	Results		
						Indiscriminate use of fertilizers , pesticides, and weedicide at field level	i. FYM @ 5 ton/ha fresh wt basis along with mulching with green leaves . ii) Application of Neem cake @ 2 t/ha at planting iii) Supplementation of microbial culture of Azospirillum and PSB @ 20 kg/ha iv) Seed rhizomes mixed with <i>Tricoderma harzianum</i> @ 100 kg/hac for protection against soft rot disease. v) Bordeaux mixture 1% application against leaf spot and leaf blotch	Parameters	Technology	Farmers practice
								i) No of Rhizomes per plant	11 nos	10 nos
								ii) Length of Rhizomes (cm)	30.33 c. m	30 cm
								iii) Wt of Rhizomes per plant	887.5 gm	885 gm
								iv) Yield per hc	34 ton/hac	30 ton /ha
								v) B: C	6.93	6.12
								vi) Farmers reaction	The farmers found the technology satisfactory	

15	Organic Cultivation of Ginger var. Nadia	Indiscriminate use of fertilizers , pesticides, and weedicide at field level	i) FYM @ 5 ton/ha (fresh wt basis) along with vermicompost @ 2 ton/ha and mulching with green leaves ii) Application of microbial culture of Azospirillum and PSB @ 20 kg per hac iii) Seed rhizomes mixed with <i>Tricoderma harzianum</i> @ 100 kg per ha for protection against soft rot disease. iv) Spraying of Neem Gold @ 0.05% during Sep-Oct or Dipel @ 0.3% during July to Oct against shoot borer v) Bordeaux mixture 1% application against soft rot	Ginger var. Nadia	03	Location: Mising Gaon, Kheremia and Bon Gaon Area: 600 mt square		
						Parameters	Technology	Farmers practice
						i) No of Rhizomes per plant	9 nos	8 nos
						ii) Length of Rhizomes (cm)	21.7 cm	19 c.m
						iii) Wt of Rhizomes per plant	438.33 gm	389 gm
						iv) Yield per hc	35.05 ton/hac	30 ton/hac
						v) B: C	5.49	4.71
						vi) Farmers reaction	The farmers found the technology satisfactory	

16	Productive performance of Turkey for lean meat production in Jorhat district	<ol style="list-style-type: none"> High fat content of poultry meat. Awareness of people for good food and health consciousness. Buying capacity of the general people has increased. Requirement of lean meat. Animal protein source for hypertensive and diabetic person. 	Turkey Breed- <i>i.Broad breasted white</i> and <i>ii.Broad breasted bronze</i>	Turkey		No. of trials: 06 Location : Maibalia Month of start: July, 2016			
						Parameters	Broad breasted white	Broad breasted bronze	
						Body Wt.at1 month (at distribution)	267g (M) 205g (F)	223g (M) 196g (F)	
						5 month of age (Adult age)	4.56 (M) 3.10 (F)	2.93kg (M) 2.78kg (F)	
						Mortality	2.37%	4.16%	
						Marketable weight of Tom (at 7 month age)	7.8kg	6.6kg	
						Dressing %	81%	80%	
						Weight at onset of laying	4.74	4.35	
						Age at onset of laying	6 Months 10days	6 Months 16 days	
						No. of egg laid	38(in 3 months, contd)	27(in 3 months, contd)	
						Hatchability of the egg	94%	72%	
						FCR	2:1.4	2:10	
17	Productive performance of fodder (Congo Signal and hybrid napier) for dairy cattle	Fodder production throughout the year (specially in lean period) is always a constrain to the dairy farmer	Congo signal and Hybrid Napier	Fodder Congo signal and Hybrid Napier	03	No. of trials: 03 Location : Mogroi, Tengabari, Maibelia Month of start: July, 2016			
						Source of Technology	Problem diagnosed	Technology/Social Concept	Progress

						AAU, Jorhat	Fodder production through out the year (specially in lean period) is always a constrain to the dairy farmer.	Congo signal and Hybrid Napier	Hybrid Napier Milk yield existing feeding-5.0 lit/day and after feeding-7.2lit/day Congo signal- Milk yield before feeding-5.0 lit/day and after feeding-6.7lit/day. B.C- 1.94 (Hybrid Napier) 1.81 (Congo signal)
18	Performance for assessing jatropa oil based herbal ointment	1. Herbal based ointment. 2. Instead of petroleum jelly honey wax is used. 3.All ingredients are available at farmers place so they can produced at home. 4.Low cost compare to market available ointment.	Jatropa oil based herbal ointment	Jatropa oil based herbal ointment	03	No. of trials: 03 Location : Janjimukh Month of start: October, 2016 The wound has healed at day 14 after application and similar with commercially available ointment.			

19	Performance for assessing jatropa oil based herbal soap	1. Herbal based soap. 2. Low cost compare to market available soaps.	Jatropa oil based herbal soap	Jatropa oil based herbal soap	03	<p>No. of trials: 03 Location : Chaporigaon, KVK Jorhat</p> <p>Month of start: October, 2016</p> <table border="1" data-bbox="1144 260 2042 730"> <thead> <tr> <th data-bbox="1144 260 1296 368">Source of Technology</th> <th data-bbox="1296 260 1592 368">Problem diagnosed</th> <th data-bbox="1592 260 1771 368">Technology/ Social Concept</th> <th data-bbox="1771 260 2042 368">Progress</th> </tr> </thead> <tbody> <tr> <td data-bbox="1144 368 1296 730">AAU, Jorhat</td> <td data-bbox="1296 368 1592 730">1. Herbal based soap. 2. Low cost compare to market available soaps.</td> <td data-bbox="1592 368 1771 730">Jatropa oil based herbal soap</td> <td data-bbox="1771 368 2042 730">Body wash twice in a weak with the soap for 1 month. With every subsequent wash the body coat improved where as in the control animals symptom remain same or aggravated.</td> </tr> </tbody> </table>	Source of Technology	Problem diagnosed	Technology/ Social Concept	Progress	AAU, Jorhat	1. Herbal based soap. 2. Low cost compare to market available soaps.	Jatropa oil based herbal soap	Body wash twice in a weak with the soap for 1 month. With every subsequent wash the body coat improved where as in the control animals symptom remain same or aggravated.
Source of Technology	Problem diagnosed	Technology/ Social Concept	Progress											
AAU, Jorhat	1. Herbal based soap. 2. Low cost compare to market available soaps.	Jatropa oil based herbal soap	Body wash twice in a weak with the soap for 1 month. With every subsequent wash the body coat improved where as in the control animals symptom remain same or aggravated.											
20	Assessment of Productive performance of Rainbow as backyard farming in Jorhat district	Low productivity of local hen both terms of egg and meat production	Rainbow	Rainbow	30	<p>No. of trials: 30 Location :Maibelia</p> <p>Month of start: March, 2017</p> <p>Age at distribution- 3 days</p> <p>Body weight at distribution- 54 gm</p> <p>To be continued</p> <p>Mortality.</p> <p>Weight at onset of laying.</p> <p>Age at onset of laying.</p> <p>Nos. of egg laid.</p> <p>Amount of feed consumed.</p> <p>FCR</p> <p>Economics</p>								

21	Performance assessment of solar dryer for processing perishable food items	i.Sun drying is weather dependent which lower efficiency ii. Wastage of perishable food items	Solar dryer for processing perishable food items Ministry of New and Renewable Energy Assam and Energy Development Agency (under Science and Technology Deptt. Govt. of Assam)	Solar dryer	03	<p>No. of trials: 03 Location : 03</p> <table border="1"> <thead> <tr> <th data-bbox="1137 225 1547 300">Parameters</th> <th data-bbox="1547 225 1803 300">Demonstration (Mushroom)</th> <th data-bbox="1803 225 2045 300">Sun drying (Mushroom)</th> </tr> </thead> <tbody> <tr> <td data-bbox="1137 300 1547 331">i. Drying time</td> <td data-bbox="1547 300 1803 331">2 full sunny days</td> <td data-bbox="1803 300 2045 331">4 full sunny days</td> </tr> <tr> <td data-bbox="1137 331 1547 363">ii. Colour</td> <td data-bbox="1547 331 1803 363">Fair</td> <td data-bbox="1803 331 2045 363">darker</td> </tr> <tr> <td data-bbox="1137 363 1547 395">iii. Dryness</td> <td data-bbox="1547 363 1803 395">Crispy</td> <td data-bbox="1803 363 2045 395">Not crispy</td> </tr> <tr> <td data-bbox="1137 395 1547 427">iv. Mould growth</td> <td data-bbox="1547 395 1803 427">Nil</td> <td data-bbox="1803 395 2045 427">Slight</td> </tr> <tr> <td data-bbox="1137 427 1547 459">v. Temperature</td> <td data-bbox="1547 427 1803 459">62⁰</td> <td data-bbox="1803 427 2045 459">32⁰</td> </tr> <tr> <td data-bbox="1137 459 1547 539">vi. % Moisture after drying</td> <td data-bbox="1547 459 1803 539">8.23 %</td> <td data-bbox="1803 459 2045 539">15.38 %</td> </tr> <tr> <td data-bbox="1137 539 1547 571">i. Drying time</td> <td data-bbox="1547 539 1803 571">(Fish)</td> <td data-bbox="1803 539 2045 571">(Fish)</td> </tr> <tr> <td data-bbox="1137 571 1547 603">ii. Colour</td> <td data-bbox="1547 571 1803 603">2 full sunny days</td> <td data-bbox="1803 571 2045 603">4 full sunny days</td> </tr> <tr> <td data-bbox="1137 603 1547 635">iii. Dryness</td> <td data-bbox="1547 603 1803 635">Fair</td> <td data-bbox="1803 603 2045 635">Darker</td> </tr> <tr> <td data-bbox="1137 635 1547 667">iv. Mould growth</td> <td data-bbox="1547 635 1803 667">Crispy</td> <td data-bbox="1803 635 2045 667">Crispy</td> </tr> <tr> <td data-bbox="1137 667 1547 699">v. Temperature</td> <td data-bbox="1547 667 1803 699">Nil</td> <td data-bbox="1803 667 2045 699">Nil</td> </tr> <tr> <td data-bbox="1137 699 1547 730">vi. % Moisture after drying</td> <td data-bbox="1547 699 1803 730">65⁰</td> <td data-bbox="1803 699 2045 730">33⁰</td> </tr> <tr> <td data-bbox="1137 730 1547 802"></td> <td data-bbox="1547 730 1803 802">6.43 %</td> <td data-bbox="1803 730 2045 802">13.35 %</td> </tr> </tbody> </table>	Parameters	Demonstration (Mushroom)	Sun drying (Mushroom)	i. Drying time	2 full sunny days	4 full sunny days	ii. Colour	Fair	darker	iii. Dryness	Crispy	Not crispy	iv. Mould growth	Nil	Slight	v. Temperature	62 ⁰	32 ⁰	vi. % Moisture after drying	8.23 %	15.38 %	i. Drying time	(Fish)	(Fish)	ii. Colour	2 full sunny days	4 full sunny days	iii. Dryness	Fair	Darker	iv. Mould growth	Crispy	Crispy	v. Temperature	Nil	Nil	vi. % Moisture after drying	65 ⁰	33 ⁰		6.43 %	13.35 %
Parameters	Demonstration (Mushroom)	Sun drying (Mushroom)																																														
i. Drying time	2 full sunny days	4 full sunny days																																														
ii. Colour	Fair	darker																																														
iii. Dryness	Crispy	Not crispy																																														
iv. Mould growth	Nil	Slight																																														
v. Temperature	62 ⁰	32 ⁰																																														
vi. % Moisture after drying	8.23 %	15.38 %																																														
i. Drying time	(Fish)	(Fish)																																														
ii. Colour	2 full sunny days	4 full sunny days																																														
iii. Dryness	Fair	Darker																																														
iv. Mould growth	Crispy	Crispy																																														
v. Temperature	Nil	Nil																																														
vi. % Moisture after drying	65 ⁰	33 ⁰																																														
	6.43 %	13.35 %																																														
22	Uses of Protective clothing for Agricultural activities performed by farm women	Unavailability of proper dress material during performing Agricultural work	Protective clothing 1. Apron 2.Loose Pant 3.Head dress	Protective clothing	03	<p>Location : 03 (Kaliapani, Dangdhara, Allengmora)</p> <table border="1"> <tbody> <tr> <td data-bbox="1137 874 1529 906">Activity : Harvesting</td> <td data-bbox="1529 874 2045 906"></td> </tr> <tr> <td data-bbox="1137 906 1529 938">1. Apron</td> <td data-bbox="1529 906 2045 938">Highly suitable</td> </tr> <tr> <td data-bbox="1137 938 1529 970">2.Loose Pant</td> <td data-bbox="1529 938 2045 970">Suitable</td> </tr> <tr> <td data-bbox="1137 970 1529 1002">3.Head dress</td> <td data-bbox="1529 970 2045 1002">Less suitable</td> </tr> <tr> <td data-bbox="1137 1002 1529 1034">Activity : Winnowing</td> <td data-bbox="1529 1002 2045 1034"></td> </tr> <tr> <td data-bbox="1137 1034 1529 1066">1. Apron</td> <td data-bbox="1529 1034 2045 1066">Highly suitable</td> </tr> <tr> <td data-bbox="1137 1066 1529 1098">2.Loose Pant</td> <td data-bbox="1529 1066 2045 1098">Suitable</td> </tr> <tr> <td data-bbox="1137 1098 1529 1129">3.Head dress</td> <td data-bbox="1529 1098 2045 1129">Suitable</td> </tr> </tbody> </table>	Activity : Harvesting		1. Apron	Highly suitable	2.Loose Pant	Suitable	3.Head dress	Less suitable	Activity : Winnowing		1. Apron	Highly suitable	2.Loose Pant	Suitable	3.Head dress	Suitable																										
Activity : Harvesting																																																
1. Apron	Highly suitable																																															
2.Loose Pant	Suitable																																															
3.Head dress	Less suitable																																															
Activity : Winnowing																																																
1. Apron	Highly suitable																																															
2.Loose Pant	Suitable																																															
3.Head dress	Suitable																																															

23	Addition of Natural Food Colorants in Processed Food items	Excessive use of synthetic color	Extraction and addition of colour from natural sources viz., turmeric, beat root	Natural Food Colorants	2	Location : Tipomia, Maibelia		
						Colour	Attractive & pleasant colour, Lighter than synthetic colour	Bright colour
						Flavour	Pleasant flavour	Artificial flavouring
						Taste	Not effected the taste of the products	Not effected
						Cost	Low cost	Costly
24	Performance assessment of solar cooker for household purposes	High cost of fuel	Solar cooker for household cooking purposes	Solar cooker	1	Time(After preheat)		
						Cake : 1 hr 30 mins	Can sterilize water and cook common food like rice, dal, egg, vegetables etc	
						Rice : 1 hr 15 mins	Use no Fuel	
						Masur Dal : 1 hr 30 mins (presoaked)	Saves cost as well as reducing environmental damage caused by fuel use	
						Pouched eggs : 20 mins	Cooking is faster if the food item is divided into several smaller pots instead of putting all in one large pot	
	Suitable cooking hours between 10.00 am – 2.00 pm							

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

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

3.2 Achievements of Frontline Demonstrations during 2016-17

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

List of technologies demonstrated during previous year and popularized during 2016-17 and recommended for large scale adoption in the district

Sl. No	Crop/ Enterprise	Technology demonstrated	Horizontal spread of technology		
			No. of villages	No. of farmers	Area in ha
1	Rice	Demonstration of <i>aromatic premium quality rice</i> variety KDML 105 (Padumoni) suitable for semi deep water situation	2	8	2
2	Rice-toria	Demonstration on rice-toria double cropping with medium duration HY <i>Sali</i> rice variety TTB 404 (Shrawoni) and HY toria variety TS 38 with farmers participatory mode	2	6	2
3	Paddy var. Luit	Demonstration on direct seeded paddy var. Luit in flood affected areas of Jorhat with farmers participatory mode	2	24	6.7
4	Boro paddy variety	Demonstration on cultivation of HY boro paddy variety 'Kanaklata' with farmer's participatory mode	1	14	3

	'Kanaklata'				
5	Maize	Integrated crop management of maize	2	5	1
6	Fodder	Demonstration of Year round Fodder Production	3	5	0.5
7	Sugarcane	Demonstration on sugarcane HY varieties and farmers participatory variety selection	2	8	0.5
8	Toria	Integrated Nutrient Management(INM)in Toria (Variety-TS-38)	3	3	1.5
9	Lentil	Integrated Nutrient Management (INM) in Lentil (Variety—Moitree/KLS 218)	3	3	1.5
10	Mushroom	Cultivation of Mushroom var. <i>Oyster</i>	5	50	5 unit
11	Rice	T- perch as roosting site for insectivorous birds in rice field as a component of IPM	5	12	5
12	AAUVETMIN	Demonstration of mineral mixture (AAUVETMIN) supplementation in growth of weanling piglets	3	3	3 unit
13	Vigova Super broiler duck	Demonstration on productive performance of Vigova Super broiler duck	1	6	6 unit
14	Kalinga Brown	Demonstration on productive performance of Kalinga Brown Backyard Poultry	1	6	6 unit
15	Composite Fish Culture	Demonstration on Species Combination and ratio in Composite Fish Culture	3	3	0.75
16	Rice- Fish Farming	Integrated Rice- Fish Farming	3	3	0.13
17	Pelleted fish feed	Use of balanced pelleted fish feed for higher carp productivity	3	3	0.13
18	Amla candy	Demonstration on production of Amla candy	3	30	3 unit
19	Union Fabric	Construction of Union Fabric	2	10	2 unit
20	Natural dyes	Dyeing of cotton cloth with natural dyes extracted from locally available plant species	2	20	2 unit
21	Nutrification of Traditional recipes	Nutrification of Traditional recipes	2	40	2 unit
22	Nutritional Gardening	Nutritional Gardening	5	5	0.10

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

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

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement	Farming situation (Rainfed/Irrigated, Soil type, altitude, etc)	Status of soil (Kg/ha)		
					Proposed	Actual	SC/ST	Others	Total			N	P	K
1.	Rice variety KDML 105 (Padumoni)	Varietal evaluation	Aromatic premium quality rice variety KDML 105 (Padumoni) suitable for semi deep water situation. Check : Kola Joha	Kharif' 16	2	2	-	8	8	-	Rainfed			
2.	Rice-toria	Varietal evaluation	Rice-toria double cropping with medium duration HY <i>Sali</i> rice var. TTB 404 and HY toria variety TS 38 Check : Bas Dhan – TS 38	Kharif' 16	2	2	4	2	6	-	Rainfed			
3	Paddy var. Luit	Varietal evaluation	Demonstration on direct seeded paddy var. Luit in flood affected areas of Jorhat with farmers participatory mode	Kharif' 16	6.7	6.7	5	19	24	-	Rainfed			
4	Boro paddy variety 'Kanaklata'	Varietal evaluation	Demonstration on cultivation of HY boro paddy variety 'Kanaklata' with farmer's participatory mode	Rabi' 16	3	3	14	-	14	-	Rainfed			
5	Maize	Integrated crop management	Integrated crop management of maize	Rabi' 16	1	1	5	-	5	-	Rainfed			
6	Fodder	Fodder Production	Demonstration of Year round Fodder Production	Year round	0.5	0.5		5	5	-	Rainfed			

7	Sugarcane	Varietal evaluation	Demonstration on sugarcane HY varieties and farmers participatory variety selection	Rabi' 16	0.5	0.5		8	8	-	Rainfed			
8	Toria	Integrated Nutrient Management	Integrated Nutrient Management(INM)in Toria (Variety-TS-38)	Rabi' 16	1.5	1.5	2	1	3	-	Rainfed			
9	Lentil	Integrated Nutrient Management	Integrated Nutrient Management (INM) in Lentil (Variety— Moitree/KLS 218)	Rabi' 16	1.5	1.5	1	2	3	-	Rainfed			
10	Mushroom	Mushroom Cultivation	Cultivation of Mushroom var. <i>Oyster</i>	Rabi' 16	5 unit	5 unit	20	30	50	-				
11	Rice	IPM	T- perch as roosting site for insectivorous birds in rice field as a component of IPM	Kharif 16	5	5	7	5	12	-	Rainfed			
12	AAUVETMIN	Feed management	Demonstration of mineral mixture (AAUVETMIN) supplementation in growth of weanling piglets	Year round	3 unit	3 unit	3	-	3					
13	Vigova Super broiler duck	Breed evaluation	Demonstration on productive performance of Vigova Super broiler duck	Year round	6 unit	6 unit	-	6	6					
14	Kalinga Brown	Breed evaluation	Demonstration on productive performance of Kalinga Brown Backyard Poultry	Year round	6 unit	6 unit	-	6	6					
15	Composite Fish Culture	Composite Fish Culture	Demonstration on Species Combination and ratio in Composite Fish Culture	Year round	0.75	0.75	1	2	3					
16	Integrated Rice-Fish Farming	Integrated Rice- Fish Farming	Integrated Rice- Fish Farming	Year round	0.13	0.13	1	2	3					

17	Pelleted fish feed	Feed management	Use of balanced pelleted fish feed for higher carp productivity	Year round	0.13	0.13	-	3	3						
18	Amla candy	Value addition	Demonstration on production of Amla candy	Year round	3 unit	3 unit	-	30	30						
19	Union Fabric	Value addition	Construction of Union Fabric	Year round	2 unit	2 unit	5	5	10						
20	Natural dyes	Natural dyes	Dyeing of cotton cloth with natural dyes extracted from locally available plant species	Year round	2 unit	2 unit	10	10	20						
21	Nutrification of Traditional recipes	Nutrification	Nutrification of Traditional recipes	Year round	2 unit	2 unit	10	30	40						
22	Nutrification of Traditional recipes	Nutrification	Nutritional Gardening		0.10	0.10	2	3	5						

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*		GC**	GR**	NR**	BCR* *	GC	GR	NR	BCR
1	Rice variety KDML 105 (Padumoni)	Varietal evaluation	2	30.02	Damage d due to flood	Nil	32.17	28.97	Negligible	23760	54270	31000	2.28	-	-	-	-

2	Rice-toria double cropping with medium duration HY Sali rice	Varietal evaluation	2	40.14 (TTB 404)	30.11 (Bas Dhan)	33.31	42.12	39.42	Negligible	27100	55890	28790	2.06	27100	41913	14813	1.55
				8.75 (TS 38)	NIL	-	9.12	7.67	Negligible	12,800	26,250	13,450	2.05	-	-	-	-
3	Direct seeded Sali paddy var. Luit	Varietal evaluation	6.7	23.14	No local check	-	24.71	22.32	Negligible	16350	27768	11414	1.69	-	-	-	-
4	Boro paddy variety 'Kanaklata'	Varietal evaluation	3	In progress													
5	Maize	Integrated Crop Management	1	In progress													
6	Fodder	Fodder Production	0.5	792.5 Congo signal	-	-	802.1	757.3	Negligible	25285	39625	16330	1.57				
				857.2 Hybrid napier (Var : NB 21, IGFRI-6, CO-2)	-	-	879.4	838.7			42860	17575	1.69				

				832.3 Seteria (Var: Kazungu la and Nandi)	-	-	847.3	826.2			41615	1633 0	1.64				
7	Sugarcane	Varietal evaluati on	0.5	634.00	475.85 (Aki puria)	24.94	649.7 4	620.24	Negligible	6329 0	12699 8	6370 8	2.01				
				630.43		24.91	631.5 7	629.29		6329 0	12608 6	6279 6	1.99				
				639.59		25.80	645.7 2	633.45		6329 0	12791 8	6462 8	2.02				
				635.46		25.05	637.9 5	632.97		6329 0	12709 2	6380 2	2.01				
				644.84		26.00	646.7 7	642.91		6329 0	12896 8	6567 8	2.04				
8	Toria (Variety-TS- 38)	Integrate d Nutrient Manage ment	1.5	10.26	6.88 (local)	49.12	11.31	9.22		1490 0	30780	1588 0	1.93				
9	HYV – Moitree, KLS 218	Integrate d Nutrient Manage ment	1.5	8.31	6.12	35.78	8.91	7.71		3007 0	49860	1979 0	1.65				
10	Rice	IPM	5	48.0	46.7	2.78	51.0	45.0		2670 0	52800	2610 0	1.97	2720 0	5137 0	2417 0	1.8 8

*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

d. Extension and Training activities under FLD on Crops

Sl.No.	Activity	No. of activities organised	Date	Number of participants			Remarks
				Gen	SC/ST	Total	

1	Field days						
2	Farmers Training						
3	Media coverage						
4	Training for extension functionaries						
5	Any other (Pl. specify)						
	Total						

e. Details of FLD on Enterprises

(i) Farm Implements

Name of the implement	Crop	No. of farmers	Area (ha)	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated		% change in the parameter	Remarks																																				
					Demon.	Local check																																						
-	Amla candy	30	3 unit	Taste: Good Shelf life: not affected upto 5 months Appearance : Good Farmer's reaction: Satisfied																																								
	Union Fabric	10	2 unit	<table border="1"> <thead> <tr> <th colspan="6">Fabric count</th> </tr> <tr> <th>Weave type</th> <th>Fabrics</th> <th>Warp</th> <th>Weft</th> <th>Total weight (g/sq.mt)</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td>Plain</td> <td>Eri X Eri</td> <td>52</td> <td>54</td> <td>148.75</td> <td>More weight</td> </tr> <tr> <td></td> <td>Eri X Cotton</td> <td>52</td> <td>59</td> <td>145.56</td> <td>Weight is less than Eri X Eri. High drapability</td> </tr> <tr> <td></td> <td>Muga X Eri</td> <td>80</td> <td>64</td> <td>146.25</td> <td>Weight is less than Eri X Eri. Drapability is higher than Eri X Eri and Eri X Cotton</td> </tr> <tr> <td></td> <td>Cotton X Art silk</td> <td>52</td> <td>48</td> <td>100.00</td> <td>Weight is less than cotton X cotton</td> </tr> </tbody> </table> <p style="text-align: center;">Union fabrics are more durable, Development of union fabrics can create variety in fabric</p>					Fabric count						Weave type	Fabrics	Warp	Weft	Total weight (g/sq.mt)	Remarks	Plain	Eri X Eri	52	54	148.75	More weight		Eri X Cotton	52	59	145.56	Weight is less than Eri X Eri. High drapability		Muga X Eri	80	64	146.25	Weight is less than Eri X Eri. Drapability is higher than Eri X Eri and Eri X Cotton		Cotton X Art silk	52	48	100.00	Weight is less than cotton X cotton
Fabric count																																												
Weave type	Fabrics	Warp	Weft	Total weight (g/sq.mt)	Remarks																																							
Plain	Eri X Eri	52	54	148.75	More weight																																							
	Eri X Cotton	52	59	145.56	Weight is less than Eri X Eri. High drapability																																							
	Muga X Eri	80	64	146.25	Weight is less than Eri X Eri. Drapability is higher than Eri X Eri and Eri X Cotton																																							
	Cotton X Art silk	52	48	100.00	Weight is less than cotton X cotton																																							

	Natural dyes (Marigold, Teak leaf)	20	2 unit	Samples showed good intensity with mordant (Alum (Potassium Aluminium Sulfate), Copper Sulfate, Vinegar, Ammonia) than plain dye Till now the samples does not show colour fading, maintaining the original texture (after 2 washes). Farmers well accepted the technology						
-	Nutrification of Traditional recipes	40	2 unit	Acceptability scores of organoleptic characteristics of the formulated traditional products (based on 5 point hedonic scale)						
Name of the product				Colour	Taste	Flavour	Texture	Appearance	Overall acceptability	
Bhurbhuria Pitha (Basic)				4.45	4.25	4.25	3.85	4.20	4.15	
Bhurbhuria Pitha (Nutrification I)				4.40	4.40	4.55	4.55	3.90	4.25	
Bhurbhuria Pitha (Nutrification II)				4.55	4.30	4.05	4.05	4.05	4.25	
Pat pitha (Nutrified)				4.40	4.25	4.40	3.95	4.20	4.30	
-	Nutritional Gardening	5	-		173	140	23.57	GC= 35000 GR= 207600 NR= 172600 B.C= 5.93		

* *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		GC*	GR*	NR*	BCR**	G C	G R	N R	B C R				
1	Piggery	Feed management	AAUVET MIN	3	3		Body weigh at weaning – 5.86kg														
2	Broiler duck	Breed evaluation	Vigova Super M				Body weight at distribution- 65g Body weight at 15 days- 410g 30 days- 860g 45 days- 1.76kg 60 days- 2.65kg 75 days- 3.21kg Mortality- 2.66% Feed intake(in 75 days)- 3.7kg/duck FCR -3.7:1														
3	Backyard Poultry	Breed evaluation	Kalinga brown	6	6		i) Body weight (Kg) Age: 1 month 0.088 (M) 0.067 (F) 3 month 0.75(M) 0.60 (F) 6 month 1.70(M) 1.425 (F) ii. Mortality- 3% iii. Age at 1st egg laid – 6 months iv. Weight at 1st laying- 1.425 kg v. Weight of egg at 1st laying - 61.53 gm v. No of egg laid/ bird- 76 nos. at 3.5 months laying period														

** 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

(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
							De mo	Che ck		De mo	Che ck	GC**	GR**	NR**	BCR**	G C	G R	N R	B C R	
1	Composite fish culture	Composite Fish Culture	Composite fish culture with Indian Major Carp and Exotic Carps (Stocking with IMC: 60% Exotic carps: 40%)	3	3		22.5	18	14.28			1,55,000	4,05,500	2,50,000	1.66					
2	Rice-Fish	Integrated Rice-Fish Farming	Integrated Rice-Fish Farming	3	3		Rice 3.3	2.5	2.9			36000	129300	93300	2.6					
							Fish 1.0	0.72	0.86											
3	Pelleted fish feed	Feed management	Pelleted fish feed	3	3		23.05	16.3	41.41			1,55,000	4,05,500	2,50,000	1.66					

** 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	G R	N R	B C R																
1	Mushroom	Mushroom cultivation	Mushroom var. <i>Oyster (P. ostrietus)</i>	50	5						Rs. 50/-	345.00	295.00	5.9								<table border="1" style="width: 100%;"> <tr> <td>Weight of Mushroom in 1st picking /bed</td> <td>950 gm</td> </tr> <tr> <td>Weight of Mushroom in 2nd picking / bed</td> <td>650 gm</td> </tr> <tr> <td>Weight of Mushroom in 3rd picking /bed</td> <td>450 gm</td> </tr> <tr> <td>Weight of Mushroom in 4th picking / bed</td> <td>250 gm</td> </tr> <tr> <td>No. of picking</td> <td>4 times</td> </tr> <tr> <td>Avg. Yield per Mushroom bed (kg)</td> <td>2.3 kg</td> </tr> </table>	Weight of Mushroom in 1st picking /bed	950 gm	Weight of Mushroom in 2nd picking / bed	650 gm	Weight of Mushroom in 3rd picking /bed	450 gm	Weight of Mushroom in 4th picking / bed	250 gm	No. of picking	4 times	Avg. Yield per Mushroom bed (kg)	2.3 kg
Weight of Mushroom in 1st picking /bed	950 gm																																	
Weight of Mushroom in 2nd picking / bed	650 gm																																	
Weight of Mushroom in 3rd picking /bed	450 gm																																	
Weight of Mushroom in 4th picking / bed	250 gm																																	
No. of picking	4 times																																	
Avg. Yield per Mushroom bed (kg)	2.3 kg																																	

** 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				

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

Thematic area	No. of Courses/ prog			Participants																		Grand Total (x + y)
	On-Campus (1)	Sponsored On* (2)	Total (1+2)	General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
				On (4)	Sp. On (5)	On (6)	Sp. On (7)	On (a=4+6)	Sp. On (b=5+7)	On (8)	Sp. On (9)	On (10)	Sp. On (11)	On (c=8+10)	Sp. On (d=9+11)	On (4+8)	Sp. On (5+9)	On (6+10)	Sp. On (7+11)	On (x=a+c)	Sp. On (y=b+d)	
I. Horticulture																						
a) Fruits																						
Plant propagation techniques	2	-	2	25	-	-	-	25	-	25	-	-	-	25	-	50	-	50	-	50	-	50
II Livestock Production and Management																						
Dairy Management	1	-	1	3	-	17	-	20	-	20	-	1	-	21	-	23	-	18	-	41	-	41
Poultry Management	1	-	1	3	-	22	-	25	-	-	-	1	-	1	-	3	-	23	-	26	-	26
Piggery Management	1	-	1	9	-	14	-	24	-	-	-	-	-	-	-	-	-	-	-	24	-	24
III. Home Science/Women empowerment																						
Value addition	1	-	1	-	-	15	-	15	-	-	-	9	-	9	-	-	-	24	-	24	-	24
Income generation activities for empowerment of rural Women	1	-	1	-	-	16	-	16	-	-	-	9	-	9	-	-	-	25	-	25	-	25

TOTAL	7	-	7	40	-	84	-	125	-	45	-	20	-	65	-	76	-	140	-	190	-	190
3.3.2. Achievements on Training of <u>Farmers and Farm Women</u> in <u>Off Campus</u> including <u>Sponsored Off Campus</u> Training Programmes (*Sp. Off means Off Campus training programmes sponsored by external agencies)																						
Thematic area	No. of Courses/ prg.			Participants																		Grand Total
	Off	Sp Off *	Total	General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
				Of f	Sp Off *	Of f	Sp Off *	Off	Sp Off *	Of f	Sp Off *	Off	Sp Off *	Off	Sp Off *	Off	Sp Off *	Off	Sp Off *	Off	Sp Off *	
I. Crop Production																						
Seed production	3	-	3	65	-	1	-	66	-	23	-	2	-	25	-	23	-	2	-	91	-	91
Integrated Crop Management	9	-	9	79	-	6	-	85	-	169	-	-	-	169	-	248	-	6	-	254	-	254
II. Horticulture																						
a) Vegetable Crops																						
Export potential vegetables	1	-	1	-	20	-	-	20	-	5	-	-	-	5	-	25	-	-	-	25	-	25
b) Spices																						
Production and Management technology	1	-	1	-	20	-	-	20	-	5	-	-	-	5	-	25	-	-	-	25	-	25
III Soil Health and Fertility Management																						
Integrated Nutrient Management	1	-	1	-	-	-	-	-	-	25	-	-	-	25	-	-	-	25	-	25	-	25
Production and use of organic	4	-	4	40	-	20	-	60	-	24	-	20	-	44	-	64	-	40	-	104	-	104

inputs																						
IV Livestock Production and Management																						
Dairy Management	3		3	54	-	17	-	71	-	18	-	13		31	-	72		30	-	102	-	102
Poultry Management	4		4	23		64		87	-	12	-	13		25	-	35		77	-	105		105
Piggery Management	2		2	4	-	22	-	26	-	15	-	12	-	27	-	19	-	34	-	53	-	53
Rabbit Management	1		1	5	-	14	-	19	-	2	-	6	-	8	-	7	-	20	-	27	-	27
Production of quality animal products	1		1	5	-	22	-	27	-	-	-	-	-	-	-	5	-	22	-	27	-	27
V Home Science/Women empowerment																						
Value addition	2	-	2	-	-	30	-	30	-	-	-	19	-	19	-	-	-	49	-	49	-	49
Income generation activities for empowerment of rural Women	1	-	1	-	-	12	-	12	-	-	-	12	-	12	-	-	-	24	-	24	-	24
Women and child care	1	-	1	-	-	13	-	13	-	-	-	12	-	12	-	-	-	25	-	25	-	25
VII Plant Protection																						
Integrated Pest Management	2	-	2	48	-	17	-	65	-	-	-	-	-	-	-	48	-	17	-	65	-	65
Integrated Disease Management	2	-	2	-	-	25	-	25	-	-	-	26	-	26	-	-	-	51	-	51	-	51
Production of bio control agents and bio pesticides	1	-	1	21	-	2	-	23	-	12	-	-	-	12	-	33	-	2	-	35	-	35

VIII Fisheries																						
Integrated fish farming	2	-	2	23	-	1	-	24	-	25	-	1	-	26	-	48	-	2	-	50	-	50
Composite fish culture	2	-	2	25	-	-	-	25	-	25	-	-	-	25	-	50	-	50	-	50	-	50
TOTAL	43	-	43	39	40	26	-	698	-	36	-	13	169	327	-	702	-	476	-	118	-	11
				2		6				0		6						476		7		87

(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																		Gr an d To tal (x + y)
	On (1)	Sp On * (2)	Tota l (1+2)	General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
				O n (4)	Sp. On (5)	O n (6)	Sp. On (7)	On (a= 4+6)	Sp. On (b= 5+7)	O n (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+1 0)	Sp. On (7+1 1)	On (x= a +c)	Sp. On (y= b +d)	
Bee-keeping	-	1	1	-	-	-	-	-	-	-	8	-	9	-	17	-	8	-	9	-	17	17
Production of organic inputs	1	-	1	-	-	-	-	-	-	6	-	11	-	17	-	6	-	11	-	17	-	17
Biocontrol	1	-	1	9	-	9	-	18	-	-	-	7	-	7	-	9	-	16	-	25	-	25
Small scale processing	1	-	1	-	-	14	-	14	-	-	-	-	-	-	-	-	-	14	-	14	-	14
Rural Crafts	1	-	1	-	-	16	-	16	-	-	-	16	-	16	-	-	-	32	-	32	-	32
TOTAL	4	1	5	9	-	39	-	48	-	6	8	34	9	40	17	15	8	73	9	88	17	10
																						5

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																		Gr an d To tal
				General						SC/ST						Total						
	Male		Female		Total		Male		Female		Total		Male		Female		Total					
	Off	Sp Off	Total	Of f	Sp Off *	Off	Sp Off *	Off	Sp Off *	Of f	Sp Off *	Off	Sp Off *	Off	Sp Off *	Off	Sp Off *	Off	Sp Off *	Off	Sp Off *	
Mushroom Production				17	-	40	-	57	-	-	-	55	-	55	-	17	-	95	-	112	-	11 2
Bee-keeping	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Soil fertility Management	1	-	1	24	-	3	-	27	-	-	-	-	-	-	-	-	24	3	-	27	-	27
Production of organic inputs	1	-	1	5	-	28	-	33	-	-	-	-	-	-	-	5	-	28	-	33	-	33
Plantation crop	1	-	1	26	-	-	-	26	-	-	-	-	-	-	-	-	-	-	-	26	-	26
Small scale processing	1	-	1	-	-	11	-	11	-	-	-	11	-	11	-	-	-	22	-	22	-	22
Post Harvest Technology	1	-	1	-	-	20	-	20	-	-	-	5	-	5	-	-	-	25	-	25	-	25
Rural Crafts	1	-	1	-	-	20	-	20	-	-	-	20	-	20	-	-	-	40	-	40	-	32
TOTAL	10	-	10	72	-	122	-	194	-	-	-	91	-	91	-	22	24	213	-	285	-	27 7

C. Extension Personnel																							
3.3.5. Achievements on Training of <u>Extension Personnel</u> in <u>On Campus</u> including <u>Sponsored On Campus</u> Training Programmes																							
(*Sp. On means On Campus training programmes sponsored by external agencies)																							
Thematic area	No. of Courses/ prog			Participants																		Grand Total (x+y)	
				General						SC/ST						Total							
	Male		Female		Total		Male		Female		Total		Male		Female		Total						
	On (1)	Sp On* (2)	Total (1+2)	On (4)	Sp. On (5)	On (6)	Sp. On (7)	On (a= 4+6)	Sp. On (b= 5+7)	On (8)	Sp. On (9)	On (10)	Sp. On (11)	On (c= 8+10)	Sp. On (d= 9+11)	On (4+8)	Sp. On (5+9)	On (6+10)	Sp. On (7+11)	On (x= a +c)	Sp. On (y= b +d)		
Integrated Nutrient management	1	-	1	18	-	2	-	20	-	16	-	-	-	16	-	34	-	2	-	36	-	36	
Management in farm animals	1	-	1	20	-	-	-	20	-	5	-	-	-	5	-	25	-	-	-	25	-	25	
Production and use of organic inputs	1	-	1	16	-	8	-	24	-	-	-	-	-	-	-	16	-	8	-	24	-	24	
TOTAL	3	-	3	54	-	10	-	64	-	21	-	-	-	21	-	75	-	10	-	85	-	85	
3.3.6. Achievements on Training of <u>Extension Personnel</u> in <u>Off Campus</u> including <u>Sponsored Off Campus</u> Training Programmes																							
(*Sp. Off means Off Campus training programmes sponsored by external agencies)																							
Thematic area	No. of Courses/ prog			Participants																		Grand Total	
				General						SC/ST						Total							
	Off		Sp Off *	Total	Male		Female		Total		Male		Female		Total		Male		Female		Total		
	Of f	Sp Off *	Total	Of f	Sp Off *	Of f	Sp Off *	Of f	Sp Off *	Of f	Sp Off *	Of f	Sp Off *	Of f	Sp Off *	Of f	Sp Off *	Of f	Sp Off *	Of f	Sp Off *		
TOTAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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
Agronomy	Seed production	Quality seed production of major cereals with special emphasis on seed certification	24.09.16	1 day	KVK, Jorhat	Extension Personnel	32	18	50	6	5	11	38	23	61
Horticulture	Plant Propagation technique	Propagation technique of fruit crops	15.03.17 to 17.03.17	3 days	KVK, Jorhat	Farmers and Farm women	20	-	20	3	-	3	23	-	23
	Plant Propagation technique	Nursery raising technique of winter vegetables	03.01.17	1 day	KVK, Jorhat	Farmers and Farm women	15	5	20	5	-	5	25	-	25
Soil Science	Fertility Management	Soil fertility management	29.06.16	1 day	KVK, Jorhat	Extension Personnel	17	-	17	17	2	19	34	2	36
	Production of organic input	Production of organic input	17.11.16 to 18.11.16	2 days	KVK, Jorhat	Extension Personnel	4	4	8	12	4	16	16	8	24
	Production of organic input	Production technology of Azolla, compost and vermicompost	18.10.16	1 day	KVK, Jorhat	Rural youth	-	-	-	6	11	17	6	11	17
Plant Protection	Bee keeping	Bee keeping- a venture for self employment	12 th Oct.- 15 th	4 days	KVK, Jorhat	School drop out	-	-	-	8	9	17	-	17	17

			Oct., 16												
	Production of biopesticides	Preparation of home made pesticides and their application in crop fields	19.11.16	1 day	KVK, Jorhat	Rural youth	18	5	23	-	-	-	18	5	23
	Biocontrol	Plant Protection technology of horticultural crops by using biocontrol agents and biopesticides	04.01.17 to 07.01.17	4 days	KVK, Jorhat	Rural youth	9	9	18	-	9	9	9	16	25
Fishery Science	IFS	Integrated fish farming	17.08.16 to 19.08.16	3 days	KVK, Jorhat	Farmers and farmwomen	25	1	26	-	-	-	26	-	26
Animal Science	Poultry	Commercial quail farming	06.09.16	1 day	KVK jorhat	Farmers and farmwomen	3	22	25	-	1	1	4	23	26
	Disease management	Bio-security measures in farm premises	28.09.16	1 day	KVK jorhat	Extension personals	15	9	24	-	-	-	15	9	24
Home Science	Income generation activity	Income generation activity for rural youth	13.10.16	1 day	KVK, Jorhat	Rural youth	-	14	14	-	-	-	-	14	14
	Value addition	Value addition of fruits and vegetables	02.11.16	1 day	KVK, Jorhat	Farmers and farmwomen	-	20	20	-	4	4	-	24	24
	Entrepreneurship development	Entrepreneurship development through SHGs	06.02.17	1 day	KVK, Jorhat	Farmers and farmwomen	-	20	20	-	5	5	-	25	25
	Income generation activity	Income generation activity for rural youth	16.01.17 to 18.01.17	3 days	KVK, Jorhat	Rural youth	-	20	20	-	12	12	-	32	32
	Income	Preparation of	08.03.17	1 day	KVK,	Rural youth	-	20	20	-	4	4	-	24	24

	generation activity	artificial flowers			Jorhat										
	value addition	Diversification of woven fabric for better marketability	10.03.17	1 day	KVK, Jorhat	Farm women	-	20	20	-	4	4	-	24	24
	Tying & dyeing	Development of Tying & dyeing	11.03.17	1 day	KVK, Jorhat	Rural youth	-	21	21	-	4	4	-	25	25
	19						158	208	366	57	74	131	214	282	495

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

Discipline	Area of training	Title of the training programme	Date (From – to)	Duration in days	Venue	Please specify Beneficiary group (Farmer & Farm women/ RY/ EP and NGO Personnel)	General participants			SC/ST			Grand Total		
							M	F	T	M	F	T	M	F	T
Agronomy	ICM	Scientific rice production	27.06.16	1 day	Budhboria	Farmers and Farm women	17	-	17	13	-	13	30	-	30
	ICM	Scientific pulse production	13.12.16	1 day	Greezing Chapori	Farmers and Farm women	10	6	16	15	-	15	25	6	31
	ICM	Scientific pulse production	14.12.16	1 day	Chumoni Chapori	Farmers and Farm women	1	-	1	25	-	25	1	25	26
	ICM	Scientific cultivation of oilseeds	15.12.16	1 day	Kothalkhowa	Farmers and Farm women	24	-	24	1	-	1	24	1	25
	ICM	Scientific pulse production	16.12.16	1 day	Selek	Farmers and Farm women	-	-	-	27	-	27	27	-	27
	ICM	Scientific Toria production	27.10.16	1 day	Kakorikota	Farmers and Farm women	1	-	1	43	-	43	44	-	44
	ICM	Scientific pulse production	15.11.16	1 day	Greezing Chapori	Farmers and Farm women	3	-	3	23	-	23	26	-	26
	ICM	Scientific pulse	16.11.16	1 day	Kothalkhowa	Farmers and	23	-	23	-	-	-	23	-	23

		production				Farm women										
	ICM	Scientific pulse production	17.11.16	1 day	Sesa chuk	Farmers and Farm women	-	-	-	22	-	22	22	-	22	
	Seed production	Quality seed production of rice	21.08.16	1 day	Sukanjan	Farmers and Farm women	25	1	26	-	-	-	25	1	26	
	Seed production	Quality seed production of kharif pulse	05.09.16	1 day	Barbari pothar	Farmers and Farm women	40	-	40	-	-	-	40	-	40	
Horticulture	Spice	Organic cultivation of Ginger and turmeric	03.02.17	1 day	Mariani	Farmers and Farm women	20	5	25	-	-	-	20	5	25	
Soil Science	Fertility Management	Soil fertility management	07.03.17	1 day	Kothalkhowa	Rural youth	24	3	27	-	-	-	24	3	27	
	Production of organic input	Production technology of Azolla, compost and vermicompost	01.11.16 to 03.11.16	3days	Tipomia	Farmers and Farm women	-	26	26	-	-	-	26	-	26	
	Production of organic input	Production technology of vermicompost and enriched compost	15.12.16	1day	Kothalkhowa	Farmers and Farm women	24	1	25	-	-	-	24	1	25	
	Production of organic input	Production technology of Azolla, compost and vermicompost	27.02.17 to 03.02.17	3 days	Rowmara	Farmers and Farm women	20	6	26	-	-	-	20	6	26	
	Production of organic input	Production technology of vermicompost and enriched compost	04.02.17	1day	Mogroi	Rural youth	5	28	33	-	-	-	5	28	33	

	INM	INM in pulses	13.12.16 & 14.12.16	2 days	Lahon	Farmers and Farm women	25	-	25	-	-	-	25	-	25
	Plantation crop	Management of young tea	10.01.17 to 12.01.17	3 days	Fesual	Rural youth	26	-	26	-	-	-	26	-	26
Plant Protection	Mushroom cultivation	Training cum method demonstration on Mushroom cultivation	19.07.16	1 day	Neolgaon, Allengmora	Rural youth	-	-	-	-	25	25	-	25	25
	IPM	Integrated pest management in rice	09.09.16	1 day	Chintamonigarh	Farmers and Farm women	27	12	39	-	-	-	27	12	39
	IPM	Integrated pest and disease management in rice	10.09.16 & 12.09.16	2 days	Charingia gaon	Farmers and Farm women	21	5	26	-	-	-	21	5	26
	Mushroom cultivation	Mushroom cultivation for self employment	14.09.16 & 23.09.16	2 days	Dangdhara, Titabar	Rural youth	-	-	-	-	26	26	-	26	26
	Production of biopesticides	Low cost production technology of biopesticides and their application in agricultural crops	05.11.16	1 day	Tulshijan, Bamunpukhuri	Rural youth	21	2	23	12	-	12	33	2	35
	Mushroom cultivation	Mushroom cultivation for self employment	22.11.16 & 23.11.16	2 days	Chaliha gaon	Rural youth	6	17	23	-	4	4	6	21	27
	IDM	Integrated pest and disease management in	06.12.16 & 07.12.16	2 days	Sekuria gaon, Titabar	Farmers and farmwomen	-	-	-	-	26	26	-	26	26

		rice														
	Mushroom cultivation	Mushroom cultivation for self employment	27.03.17 & 28.03.17	2 days	Jatakia gaon, Fesual	Rural youth	11	23	34	-	-	-	11	23	34	
	IDM	Integrated pest and disease management in rice	29.03.17 & 30.03.17	2 days	Lahon gaon, Nakachari	Rural youth	-	25	25	-	-	-	-	25	25	
Fishery Science	Production management	Carp breeding , fry and fingerling rearing using multiple stocking and multiple harvesting technique	21.07.16 & 22.07.16	2 days	Meleng	Rural youth	19	6	25	9	-	9	34	-	34	
Animal Science	Livestock	Care and management of livestock and poultry during natural disaster	07.09.16	1 day	Hatihai	NGO	18	9	27	9	-	9	27	9	36	
	Poultry	Commercial poultry farming	19.09.16 to 23.09.16	5 days	Chaliha Goan	Farmers and farmwomen	4	11	15	3	13	14	7	24	31	
	Healthcare	Zoonotic importance of swine flu and bird flu	31.10.16	1 day	Allengmora	Farmers and farmwomen	-	-	-	9	15	24	9	15	24	
	Poultry	Scientific farming of hybrid dual purpose backyard poultry	21.11.16	1 day	Maibellia	Farmers and farmwomen	1	24	25	-	-	-	1	24	25	
	Goatery	Prospect of	16.12.16	2 days	Kaliapani block	Farmers and	5	14	19	2	6	8	7	20	27	

		Assam Hill Goat and its scientific management	to 17.12.16			farmwomen										
	Disease management	Diseases of cattle and buffalo with special reference to importance of vaccination and deworming	19.12.16	1 days	Hatihai	NGO	8	12	20	12	1	13	20	13	33	
	Duckery	Scientific management og Broiler duck (Vigova Super M)	29.12.16	1 day	Pirakota	Farmers and farmwomen	4	19	23	-	-	-	4	19	23	
	Fodder management	Importance of fodder cultivation for dairy cattle	02.02.17 to 04.02.17	3 days	Mugroi	Farmers and farmwomen	6	21	27	-	-	-	6	21	27	
	Poultry	Commercial poultry farming	10.03.17	1 day	Faswal	Farmers and farmwomen	4	22	26	-	-	-	4	22	26	
	Piggery	Scientific Pig farming	11.03.17	1 day	Bandarchalia	Farmers and farmwomen	1	34	35	-	-	-	1	34	35	
	Poultry	Scientific farming of rainbow backyard poultry	09.03.17	1 day	Maibelia	Farmers and farmwomen	-	33	33	--	-	-	-	33	33	
Home Science	Food Processing	Processing and preservation of fruits and vegetables	09.09.16	1 day	Dorikial	Farmers and farmwomen	-	12	12	-	13	13	-	25	25	
	Income generation activity	Establishment of farm crash	21.09.16	1 day	Charingia	Farmers and farmwomen	-	20	20	-	5	5	-	25	25	

	Entrepreneurship development	Entrepreneurship development for farm women	23.11.16	1 day	Chalihagaon	Farmers and farmwomen	-	12	12	-	5	5	-	17	17
	Food Processing	Processing and preservation of fruits and vegetables	25.03.17	1 day	Charaibahi	Rural youth	-	12	12	-	13	13	-	25	25
	44						453	427	880	215	152	365	699	548	1247

(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			Type of enterprise ventured into	Number of units	Number of persons employed	Avg. Annual income in Rs. generated through the enterprise	
					M	F	T	M	F	T	M	F	T					
Soil Health Management	13 th March-17 th	5 days	Soil Health Management and soil	Vocational training on Soil Health	2	3	2	1	1	2	2	4	26	-	--		-	-

	March, 2017		testing	Management and soil testing														
Carpet making	14 th Dec-21 st Dec., 2016	7 days	Income generation activity	Vocational training on Carpet making	-	25	25	-	13	13	-	38	38	-	-	-	-	-
Commercial weaving	14 th March-22 nd March, 2017	7 days	Income generation activity	Vocational training on Commercial weaving	-	7	7	-	4	4	-	11	11	-	-	-	-	-
IFS	19 th January to 28 th January	10 days	Higher income generation from existing farm	Livestock based IFS for enhancing resource using efficacy and livelihood security.	16	-	16	9	-	9	16	9	25	-	-	-	-	-
Total (4)					37	35	72	10	18	28	38	62	100	-	-	-	-	-

*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									Spons oring Agenc y	Amo unt of fund recei ved (Rs.)
							General			SC/ST			Total				
							M	F	T	M	F	T	M	F	T		
On campus (KVK, Jorhat)	RY (School drop out)	12th Oct.- 15th Oct., 2016	4 days	Plant Protection	Bee keeping	Bee keeping – a venture for self employment	-	-	-	8	9	17	-	17	17	I- CAR D NGO	Nil
Total	1	-	-	-	-	-	-	-	-	8	9	17	-	17	17	-	-

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 2016-17

Sl. No.	Extension Activity	Topic	Date and duration	No. of activities	Participants											
					General (1)			SC/ST (2)			Extension Officials (3)			Grand Total (1+2)		
					M	F	T	M	F	T	M	F	T	M	F	T
1.	Advisory services			250	85	20	105	504	55	559	6	-	6	595	75	670
2.	Diagnostic visit		17.05.16 26.05.16 02.06.16 15.06.16 27.06.16 08.07.16 12.08.16 23.08.16 01.09.16 05.09.16 06.09.16 22.09.16 26.09.16 15.11.16 25.11.16 03.12.16 07.12.16 20.12.16 03.01.17 17.01.17 18.01.17 21.01.17 06.02.17	26	140	14	154	75	5	80	-	-	-	215	19	234

3.	Field day		25.11.16 17.01.17 18.01.17 18.01.17 06.03.17 24.03.17 25.03.17	7	275	89	364	68	23	91	-	-	-	343	112	455
4.	Group Discussion			15	102	34	136	77	12	89	-	-	-	179	46	225
5.	Kishan Gosthi			-												
	Kishan Mela			7												
6.	Film show			5												335
7.	SHG formation			3	-	24	24	-	12	12	-	-	-	-	36	36
8.	Exhibition		29.05.16 01.10.16 To 04.10.16 05.12.16 23.12.16 to 30.12.16 08.02.17 to 12.02.17 23.02.17 to 25.02.17	11												-
9.	Scientists visit to farmers fields			161												170
10.	Plant/ Animal Health camp		10.09.16 12.09.16 25.09.16	3												150
11.	Farm science club			-												-
12.	Ex-trainee Sammelan			1												38
13.	Farmers seminar/ workshop			-												-
14.	Method demonstration			25	226	67	293	241	71	312	-	-	-	467	138	605

15.	Celebration of important days			4	223	145	368	100	57	157	-	-	-	323	202	525
16.	Exposure visits			4	55	12	67	30	6	36	-	-	-	85	18	103
17.	Electronic media (CD/DVD)			1												
18.	Extension literature			20												
19.	Newspaper coverage			4												
20.	Popular articles			3												
21.	Radio talk			17												
22.	TV talk			1												
23.	Training manual			2												
24.	Soil health camp			1	917	23	940	546	14	560	-	-	-	1463	37	1500
25.	Awareness camp			10	445	75	520	300	30	330	-	-	-	745	105	850
26.	Lecture delivered as resource person			5												
27.	PRA			3	100	20	120	15	5	20	-	-	-	115	25	140
28.	Farmer-Scientist interaction			8	300	34	334	200	10	210	-	-	-	500	34	544
29.	Soil test campaign			2	23	12	35	20	7	27	-	-	-	43	19	62
30.	Mahila Mandal Convener meet															
31.	Any other (Please specify)															
Grand Total				599	2891	569	3460	2176	307	2483	6	0	6	5073	866	6642

3.5 Production and supply of Technological products during 2016-17

A. SEED MATERIALS

Major group/class	Crop	Variety	Quantity (qt)	Value (Rs.)	Number of recipient/ beneficiaries		
					General	SC/ST	Total
CEREALS	Sali paddy	Ranjit (FS)	12.36	40788.00	4	1	5
		Bahadur (FS)	11.20	36960.00	-	-	-
		Mashuri (FS)	8.85	29205.00	5	2	7
		TTB 404	1.73	5709.00	2	-	2
		Gitesh (FS)	3.01	9933.00	3	-	3
		Swarna Sub-1	1.75	5775.00	-	-	-

		Black Rice	1.80	10800.00	21	5	26
PULSES	Pulses	White Rajmah	8 kg	4000.00	2	-	2
		White French Bean	1 kg	500.00	2	-	2

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

Sl. No.	Major group/class	Quantity (ton.)	Value (Rs.)	Number of recipient/ beneficiaries		
				General	SC/ST	Total
1	CEREALS	40.70	139170.00	35	8	43
3	PULSES	9 kg	4500.00	4	-	4
5	FLOWER CROPS	0.5 kg seed 100 nos. sucker 50 corms	1500.00 500.00 250.00	3	1	4
TOTAL			145920.00	42	9	51

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 No	2500.00	4	-	4
	Guava	Lucknow-49, Allahabad Safeda	50	2500.00	6	1	7
	Litchi	Bedena, seedless, Rose Scented	30	3000.00	-	-	-
Spice	Turmeric	Megha Turmeric	400kg	12000.00	3	-	3
Flowers	Marigold	Pusa Narangi	0.5 kg seed	1500.00	1	-	1
	Gerbera	Red-gem	100 nos. sucker	500.00	3	-	3
	Gladiolus	Novalux, Sunniboy	50corms	250.00	1	-	1
Plantation crops							
Sugarcane	Nambor, Doria, Borak, Dishang		15 Q		4	-	4
Forage Crop	Congo Signal Setaria Hybrid Napier		10000 No 10000 No 5000 No		5	-	5
OTHERS (Pl. Specify)							
Total				22250.00			

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

Sl. No.	Major group/class	Numbers (In Lakh)	Value (Rs.)	Number of recipient beneficiaries		
				General	SC/ST	Total
1	Fruits Thailand Apple ber	15 kg	900.00	1	-	1
2	Spices	0.47 Q	1410.00	3	-	3
8	OTHERS (Specify)					
TOTAL			2310.00			

C. Production of Bio-Products during 2016-17

Major group/class	Product Name	Species	Quantity		Value (Rs.)	Number of Recipient /beneficiaries		
			No	(qt)		General	SC/ST	Total
BIOAGENTS								
	Vermi worm		-	0.283	56600.00	2	3	5
BIOFERTILIZERS								
	Vermicompost		-	108.53	-	2	2	4
	Azolla		-	9	-	-	-	-
BIO PESTICIDES								

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

Sl. No.	Product Name	Species	Quantity		Value (Rs.)	Number of Recipient beneficiaries		Total number of Recipient beneficiaries
			Nos	(kg)		General	SC/ST	
1	BIOAGENTS	<i>E. foetida</i>	-	0.283	56600.00	2	3	5
2	BIO FERTILIZERS	Vermicompost (<i>E. foetida</i>) Azolla (<i>A. caroliniana</i>)	-	117.53	-	2	2	4
3	BIO PESTICIDE							
	TOTAL			117.813	56600.00	4	5	9

D. Production of livestock during 2016-17

Sl. No.	Type of livestock	Breed	Quantity		Value (Rs.)	Number of Recipient beneficiaries			
			(Nos)	Kgs		General	SC/ST	Total	
A.	Cattle/ Dairy	H F	02	-	600000	-	-	-	
	Milk		-	4844.11	222829	350	150	500	
B.	Goat	Betel	05	-	15000	1	-	1	
	Goat Servicing		48	-	2400	40	7	47	
C.	Piggery	Pig	3	-	27000	-	3	3	
	Piglets		23		64000	10	6	16	
D.	Poultry	Birds	Broiler	-	835.43	87720	10	2	12
			BV 300	8	-	1600	1	-	1
			Turkey	3	-	3820	12	1	13
		Japanese Quail	105	-	10500	45	5	50	
	Chicks	Turkey	74	-	11420	25	2	27	
		Kalinga Brown	273	-	35510	29	2	33	
		Rainbow	62	-	4960	8	2	10	
	Table egg	Vanraja	11	-	66	1	-	1	
		BV 300	771	-	3855	45	5	50	
		Kalinga Brown	1952	-	13590	133	18	151	
		White Leg Horn	316	-	2528	24	3	27	
		Turkey	22	-	176	2	-	2	
		Japanese Quail	1502	-	4506	38	12	50	
	Hatching egg	Vanraja	45	-	675	1	-	1	
		White Leg Horn	105	-	1590	10	2	12	
Turkey		104	-	3120	13	2	15		
	Kalinga Brown	464	-	6960	45	7	52		
E.	Fisheries	Big	Rahu, Katla, Silver Carp, Grass Carp	-	103.5	20700	30	5	35
		Small		-	9.8	1176	4	-	4
F.	Duckery	Duck	Vigova Super M	1	-	500	1	-	1
		Duckling	Do	81	-	10830	20	5	25
		Table egg	Khaki Champbell	1252	-	10016	30	12	42
		Hatching egg	Do	479	-	7185	40	20	65

D1. SUMMARY of production of livestock during 2016-17

Sl. No.	Livestock category	Breed	Quantity		Value (Rs.)	Number of Recipient beneficiaries		Total number of Recipient beneficiaries	
			Nos	(kg)		General	SC/ST		
A.	CATTLE	HF	2	-	60000	-	-	-	
	Milk			4844.11	222829	350	150	500	
B.	SHEEP & GOAT	Betel	5	-	15000	1	-	1	
	Goat servicing		48	-	2400	40	7	47	
C.	POULTRY	Birds	Broiler	-	835.43	87720	10	2	12
			BV 300	8	-	1600	1	-	1
		Turkey	3	-	3820	12	1	13	
		Japanese Quail	105	-	10500	45	5	50	
		Chicks	Turkey	74	-	11420	25	2	27
			Kalinga Brown	273	-	35510	29	2	31
			Rainbow	62	-	4960	8	2	10
		Table egg	Vanraja	11	-	66	1	-	1
			BV 300	771	-	3855	45	5	50
			Kalinga Brown	1952	-	13590	133	18	151
			White Leg Horn	316	-	2528	24	3	27
			Turkey	22	-	176	2	-	2
			Japanese Quail	1502	-	4506	38	12	50
		Hatching egg	Vanraja	45	-	675	1	-	1
			White Leg Horn	105	-	1590	10	2	12
		Turkey	104	-	3120	13	2	15	
		Kalinga Brown	464	-	6960	45	7	52	
D.	PIGGERY	Pig	Hampshire	3	-	27000	-	3	3
		Piglet		23	-	64000	10	6	16
E.	FISHERIES	Big	Rahu, Katla, Grass carp, Silver carp etc.	-	103.5	20700	30	5	35
		Small		-	9.8	1176	4	-	4
F.	DUCKERY	Duck	Vigova Super M	1	-	500	1	-	1
		Duckling	do	81	-	10830	20	5	25
		Table egg	Khaki Campbell	1252	-	10016	30	12	42
		Hatching egg	do	479	-	7185	40	25	65
	TOTAL				634232	973	271	1244	

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

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

(B) Articles/ Literature developed/published

Item	Title /and Name of Journal	Authors name	Number of copies
Research papers			
1.	Efficacy of Pheromone traps in combination with neem based pesticides against Brinjal, shoot and fruit borer. Journal of Ecofriendly Agriculture	Mousumi Phukon, Ira Sarma and Rupam Borgohain	
2.	Problems and opportunities of women SHGs in Entrepreneurship development. Asian Journal of Home Science	Binapani Deka and Rupam Borgohain	-
Abstract	Sustainability of Scientific Piggery Venture as a Livelihood Security Option Among the Tribal Farmers of Jorhat District, Assam, India; International Conference of Society of Extension Education	Ilakshy Deka, R. Borgohain, P.Deka and M.Neog	
Training manuals	<i>Mohilar Swaniyujonor Prakhikhon Haatputhi</i>	Binapani Deka and Rupam Borgohain	-
	<i>Mati Pariksha aru Matir Swasthor Byobosthapon</i>	Sanjib Ranjan Borah, Rupjyoti Borah, Sameeron Bhattacharjya, Dr. Rupam Borgohain,	30
Instruction Manual	Instruction Manual for SHC Generator –Soil Health Card Designing Software	Mr. Rupjyoti Chutia, Programme Asstt. (Computer), KVK, Jorhat Mr. Bikram Borthakur, Programme Asstt. (Computer), KVK, Karbi Anglong Mr. Santanu Saikia, Programme Asstt. (Computer), KVK, Lakhimpur	
Technical Report			
1.	Annual Progress Report		
2.	Annual Action Plan		
Book/ Book Chapter	Dhanor onistakari Kit patonga totha rogar chinaktakaron aru pratikaar	Mousumi Phukon and Rupam Borgohain	40
	Sishur bridhi aru bikashor mailor khuti samooh	Binapani Deka and Rupam Borgohain	50
Popular articles	Baboxayek bittit Hah palon; Ghare Pathare (Commercial duck farming)	Ilakshy Deka, Biraj Bikash Sarma	
	Baboxayek bittit broiler kukura palon; Ghare Pathare (Commercial broiler farming)	Ilakshy Deka, Biraj Bikash Sarma	
	Baboxayek bittit konir babe kukura palon: Ghare Pathare (Commercial Layer farming)	Ilakshy Deka, Biraj Bikash Sarma	
Technical bulletins			
Extension bulletins	Sashya Khetrat Pheromone trapor bybahar	Mousumi Phukon and Rupam Borgohain	50

Maati mahor keet patonga niontran aru mulya songjojan	Mousumi Phukon, Binapani Deka, Rupam Borgohain	50
Sishur bridhi aru bikashot uddipakor prayojaniota	Binapani Deka, Rupam Borgohain, Sanjibranja Borah, Sameeron Bhattacharyya, Mousumi Phukon, Biraj Bikash Sarmah, Illakhi Deka, Rupjyoti Chutia	50
Bandhoni padhatire kaprot rong kora pranali	Binapani Deka, Rupam Borgohain, Sanjibranja Borah, Sameeron Bhattacharyya, Mousumi Phukon, Biraj Bikash Sarmah, Illakhi Deka, Rupjyoti Chutia	50
Paromparagato pitha- panat pustikor upadan songjojan	Binapani Deka, Rupam Borgohain	50
Sishur bridhi aru bikashor babe Sushom khadyar prayojaniota (4 – 6 years)	Binapani Deka, Rupam Borgohain	50
Sishur bridhi aru bikashor babe Sushom khadyar prayojaniota (10- 12 years)	Binapani Deka, Rupam Borgohain	50
Prakritik rong r Utsho samuh aru iar bybahar	Binapani Deka, Rupam Borgohain	50
<i>Mati Porikshar Proujoniota aru Matir Nomuna Sangrahor Poddhoti</i>	Mr. Sanjib Ranjan Borah, Mr. Sameeron Bhattacharjya, Dr. Rupam Borgohain,	300
<i>Samoniyoto Udbhid Moulo Byobosthapon</i>	Mr. Sanjib Ranjan Borah, Mr. Sameeron Bhattacharjya, Dr. Rupam Borgohain,	300
<i>Kesu Saror Prastut Pronali</i>	Mr. Sanjib Ranjan Borah, Mr. Sameeron Bhattacharjya, Dr. Rupam Borgohain,	300
<i>Kom Khorosi Poddhotirae Azollar Utpadon</i>	Mr. Sanjib Ranjan Borah, Mr. Sameeron Bhattacharjya, Dr. Rupam Borgohain,	300
<i>Soriahor Adhunik Krishi Poddhoti</i>	Mr. Sameeron Bhattacharjya, Mr. Sanjib Ranjan Borah, Dr. Rupam Borgohain,	300
<i>Matimahor Unnoto Krishi Poddhoti</i>	Mr. Sameeron Bhattacharjya, Mr. Sanjib Ranjan Borah, Dr. Rupam Borgohain,	300
<i>Mogumahor Unnoto Krishi Poddhoti</i>	Mr. Sameeron Bhattacharjya, Mr. Sanjib Ranjan Borah, Dr. Rupam Borgohain,	300
<i>Khesarimahor Unnoto Krishi Poddhoti</i>	Mr. Sameeron Bhattacharjya, Mr. Sanjib Ranjan Borah, Dr. Rupam Borgohain,	300
<i>Motormahor Unnoto Krishi Poddhoti</i>	Mr. Sameeron Bhattacharjya, Mr. Sanjib Ranjan	300

		Borah, Dr. Rupam Borgohain	
	<i>Oukhodhi Gun Sampanna Sal Kuworir Krishi Paddhati</i>	Mr. Sameeron Bhattacharjya, Ms. Binapani Deka, Mr. Sanjib Ranjan Borah, Dr. Rupam Borgohain,	300
	Bigyan honmoto turkey palon (Scientific rearing of turkey)	Ilakshy Deka, R. Borgohain, S.R.Borah, M.Phukan, S.Bhattacharyya, B. Deka, R.Chutia	100
	Bigyan honmoto Broiler hah (Vigova super M) palon [Scientific rearing of Broiler duck (Vigova Super M)]	Ilakshy Deka, R. Borgohain, Biraj Bikash Sarma, S.R.Borah, M.Phukan, S.Bhattacharyya, B. Deka, R.Chutia	100
Newsletter	-	-	-
Conference/ workshop proceedings	-	-	-
Leaflets/folders	-	-	-
e-publications	SHC Generator –Soil Health Card Designing Software	Mr. Bikram Borthakur, Programme Asstt. (Computer), KVK, Karbi Anglong Mr. Rupjyoti Chutia, Programme Asstt. (Computer), KVK, Jorhat Mr. Santanu Saikia, Programme Asstt. (Computer), KVK, Lakhimpur	
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

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

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

Integrated Farming System opens a new window for economic empowerment of rural Farmers in Boloma area (2016-17)

Background and Problem:

Sri Phoni Bora is the eldest son of Late Sunaram Bora, Burakuri Gaon, Boloma, Teok of Jorhat district. He has passed High School Leaving Certificate during the year 1974 with 58 percent marks and taken admission into Pre Degree (Science) in J. B. College, Jorhat. He has successfully completed Pre Degree (Science) in the year 1976 but could not proceed for higher studies due to very poor financial status of his father. He therefore, strongly decided to be self employed by taking farming as a means of

livelihood and help his brothers & sister to continue their higher studies. Initially he has started vegetable farming by taking advantage of his high land situation and winter paddy in the low lands. He has expanded his farming into other sectors like fishery, dairy, piggery in an integrated farming mode.

At present Sri Bora is cultivating summer & winter vegetables, winter paddy and other cash crops like sugarcane, banana, coconut, arecanut, betel vine, black pepper & indigenous fruit crops. He is very successful in three tier faming system i. e. poultry, piggery & fishery. He is also producing vegetable seedlings of HYV & hybrids in polyhouse at large scale and selling to the local vegetable growers and neighboring villages. He is marketing his farm produces in the nearby daily & weekly markets by engaging local unemployed youth of his village. Sri Phoni Bora is one of the successful farmer in Integrated Farming System (IFS) in Teok Area and more than 40 educated unemployed youth of the locality are following him and adopting Integrated Farming System by utilizing the available resources for their livelihood security.

One of the important innovations of Sri Phoni Bora is the development of raised & sunken bed system in medium land for vegetable cultivation where vegetables cannot be grown in normal situation. By adopting this technique, he has bought another 0.50 ha under vegetable cultivation during rainy season.

KVKs intervention:

From the interest and feedback received from farmers of the Boloma area, Krishi Vigyan Kendra, Jorhat has planned to introduce new high value vegetable crops in the area and accordingly trainings was organized for the farmers of the locality. After taking the training from KVK, Jorhat on scientific production technology, Sri Borah and the other farmers of the area has initially started cultivating new crops like Broccoli in the area. They have harvested a bumper crop in the first year itself and due to high demand of this vegetable in the Jorhat & Mariani market, they have received a premium price and were very happy. At present Boloma area is one of the major vegetable producing areas of the district and Sri Phoni Bora is the torch bearer and ideal farmer of the locality.

KVK, Jorhat also helped the farmers to introduce new improved breeds of cattle, piggery and poultry for integrating with crop components. KVK provided all kinds of technological interventions and necessary skill up-gradation trainings to the farmers of the area.

Productivity:

Sri Phoni Bora, among the farmers of Boloma area has emerged as most successful farmer in implementing the Integrated Farming System. During the year 2015-16 Sri Phoni Bora has cultivated summer & winter vegetables in an area of 1.50 hectare and earned Rs. 5, 66,000.00 from sale of vegetables, Rs 54,000.00 from Sale of fishes, Rs 69,000.00 from sale of Pig & piglet, Rs. 1,12,800.00 from sale of milk, 14,000.00 from sale of egg and Rs 19,200.00 from sale of fruits. In addition to his self employment, Sri Bora is also providing full time appointment to 6 unemployed youth of his village in his farm and 2 workers for marketing his farm produce with his own conveyance.



The pig breeding unit of Sri Bora is producing high quality piglets of Hampshire breed and serving as a source of good quality piglet in the locality. He has developed a traditional *bari* with an area of 0.80 ha which includes various indigenous fruits viz., Ponial (*Flacourtia gangomos*), *Dilienia indica*, Naga tenga (*Rhus semialata*), various types of Jamun, Ber, Citrus, Carrabolla, Jack fruit, Tamarind, Aonla, Olive, Plum, Peach, Custard apple and medicinal plants viz., Alovera, Sarpagondha, Pachauli, *Paederia foetida*, *Murraya koenigii*, Cinnamon, Bay leaf etc. His typical *bari* represents the image of biodiversity conservation. Apart from his involvement in farming activities he is also associated as an active member in different social organizations for the welfare of the farming community.

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

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

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

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK
1	Duckery	Use of <i>Bhatghila</i> [<i>Oroxylum indicum</i> (L) Vent.] bark extract. The rural people use the bark, make paste and provided to the local ducks when observe symptom of lameness. The symptom of lameness resembles parosis condition of duck. They believe that bhatghila bark can control this problem of duck. This believe if standardized can be converted to technology for controlling duck's deficient in magnesium and iron. This is the first reporting ITK on duck by bhatghila bark.	Treatment for lameness problem (suspected parosis) in duck
2	Rice	Application of leaves of 'Bihlongini' (<i>Polygonum hydropiper</i>) or 'Bihdhekia' (<i>Sphaerostiphnos unitus</i>) in the standing 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	Application of Chopped <i>Kola kachu</i> (<i>Colocasia esculanta</i> Black) and fresh cowdung	Management of case worm problem of rice
5	Rice	Keeping the stubbles of <i>Boro</i> rice undisturbed avoiding ploughing and grazing by the cattle for 1 - 1½ months. The practices is usually practised in traditional varieties grown in low lying (beel) areas	c
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"/ <i>germani bon</i> (<i>Chromolena odorata</i>) leaves along with detergent soap in banana plant	To control banana weevil
8	Banana	The juice of <i>gundhowa bon</i> , (<i>Ageratum conizoides</i>) is sprayed on banana plant	To get rid of leaf and fruit scarring beetle of banana

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

- Identification of courses for farmers/farm women
- Rural Youth
- Extension personnel

3.11 Field activities

- i. Number of villages adopted : 7
- ii. No. of farm families selected : 1530
- iii. No. of survey/PRA conducted : 3

3.12. Activities of Soil and Water Testing

Status of establishment of Lab : No STL (1 no. mini Soil Testing, Mridaparikshak)

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

Sl. No	Name of the Equipment			Qty.	Cost
	S&WT lab	Mini lab/ Mridaparikshak	Manufacturer		
1	-	Mridaparikshak	Nagarjuna Agro Chemical Pvt. Limited	1	72000.00
Total		Mridaparikshak		1	72000.00

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

Details	No. of Samples analysed	No. of Farmers	No. of Villages	Amount (In Rupees) realized
Soil Samples	1313	1313	27	-
Water Samples	-	-	-	-
Plant Samples	-	-	-	-
Petiole Samples	-	-	-	-
Total	1313	1313	27	-

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

- a. No. of SHCs prepared: 1313
- b. No. of farmers to whom SHCs were distributed: 1313
- c. Name of the Major and Minor nutrients analysed: N, P, K, S, pH, OC, EC, Fe, Zn, B.
- d. No. of villages covered : 27
- e. Soil health card based nutrient management in different crops (pl. submit in brief in separate page) : Nil

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	24	23600	7	6700	-	-	-	-	8	8230	4	4005	43	42535
Voice only	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Voice and Text both	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	24	23600	7	6700	-	-	-	-	8	8230	4	4005	43	42535

3.14 Contingency planning for 2016-17

a. Crop based Contingency planning

Contingency (Drought/ Flood/ Cyclone/ Any other please specify)	Proposed Measure	Proposed Area (In ha.) to be covered	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. 1 st 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	100	50	150
2. Monsoon delay by 6 weeks, i.e. 3 rd 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	60	120
3. Monsoon delay by 8 weeks, i.e. 1 st week of August	Short duration var. Luit, Broad casting of sprouted seeds, irrigation	40	50	40	90
	Introduction of Resource Conservation Technologies				
	RCT like Mulching, Drip irrigation in horticultural crops like banana, Assam lemon, Awareness training	5	30	15	45
	Distribution of seeds and planting materials	3	25	25	50
	Distribution of seeds of short duration varieties like Luit for direct sowing of sprouted seeds	5	15	15	10
	Establishment of Community nursery near assured water source for varieties like Gitesh , Prafulla, Luit, Dishang, Kanaklata etc for free distribution of seedling	1	50	45	95

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)
Rice variety KDML 105 (Padumoni)	15	100	18750	31700
Rice-toria double cropping with medium duration HY <i>Sali</i> rice var. TTB-404	15	100	18100	29150
Direct seeded <i>Sali</i> paddy var. Luit	35	100	10000	12250
Boro paddy variety 'Kanaklata'	10	100	107440	125890
<i>Sali</i> Paddy Var. Gitesh & Swarna sub-1	235	100	18750	31700
Toria (variety : TS- 36, TS-38)	200	100	25000	32000
Lentil var. Moitree, KLS 218	10	100	11000	20800
Sugarcane (Variety –Kalang, Borak, Dhansiri, Kapilipar & Doria)	10	100	107440	125890
Black gram (variety-PU-31)	100	100	11090	25800
Green gram (variety IPM02-3)	100	100	12000	27800
Mushroom	50	100	15000	35000

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	<ul style="list-style-type: none"> 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-36., TS-38	Group discussion	<ul style="list-style-type: none"> 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- 36., TS- 38
Advisory services on organic management of Bhut Jalakia	Observation and personal contact	<ul style="list-style-type: none"> 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

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. 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. ICAR Research Complex for NE Hill Region, Umiam, Barapani	Source of technology and conducting exposure visit
9. NRC on Pig, Rani, Kamrup	Source of technology
10. R & D, TATA Tea, Teok, Jorhat	Exchange of resource person, information sharing, exposure visit
11. Central Silk Board, Lahdoigarh	Knowledge sharing, source of information
12. ATMA, Jorhat	Technology backstopping, conducting demonstration, field day programmes, Joint programme

	evaluation.
13. Assam Seed Certification Agency	For seed certification of seed growers of the district
14. 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

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

5.2 List special programmes undertaken by the KVK, which have been financed by State Govt./Other Agencies during 2016-17

Name of the scheme	Activity	Date/ Month of initiation	Funding agency	Amount (Rs.)
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
Pulse Seed Hub	Production of quality pulse seed (Blackgram, Green gram, Field pea, Lathyrus and Lentil) in participatory mode	May,2016	ICAR	1,50,00,000 (Rs 100,00,000 under Revolving Fund & Rs.50,00,000 under Infrastructure Development)

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 Pulse 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 2016-17

6.1 Performance of demonstration units (other than instructional farm)

Sl. No.	Demo Unit	Year of estd.	Area	Details of production			Amount (Rs.)		Remarks
				Variety	Produce	Qty.	Cost of inputs	Gross income	
1.	Cattle shed	2010	36.45	HF-	Milk	4844.11 lit	140000.00	222829.00	
2.	Vermicompost unit	2010	46.80	-	Vermicompost	108.53 q	20000.00	56600.00	
					Vermiworm	0.283 q			
3.	Poultry Unit	2011	44.40	Broiler	-	835.43 kg	235000.00	87720.00	
				White Leg Horn	Hatching egg	106		1590.00	
					Table egg	316		2528.00	
				Kalinga brown	Birds	46		13916.00	
					Chicks	273		35510	
					Hatching eggs	464		6960.00	
				Turkey	Table egg	1952		13590	
					Bird	3		3820.00	
					Chick	74		11420.00	
					Hatching egg	104		3120	
				Japanese quail	Table egg	22		176	
					Rainbow Chick	62		4960	
					Birds	226 (200 nos. sold)		17820.00	
				Khaki campbell	Eggs	2061 (sold)		4122.00	
Hatching egg	479	7185.00							
Vigova Super M	Table egg	1252	10016.00						
	Bird	1 no	500.00						
4.	Goattery unit	2011	34.20	Beetal buck	Duckling	81	30000.00	10830.00	
					Beetal/ Local/ Sirohi	1 no		2600.00	

					Goat servicing	48 no		2400.00	
5.	Piggery unit	2010	41.04	T & D, Hamshire	15 No.	3	158000.00	27000.00	
					Piglet	23		64000.00	
					6.	Fish pond	2011	0.13	Fish
7.	Rice- Fish- Vegetable Unit	2010	50m x 20m	Indian Major Carp	Small fish	9.8 kg	2000.00	1176.00	
8.	Azolla production unit	2012	9.9m X 5.5m	Azolla caroleniana	Azolla Compost	9 q	1500.00	Used in KVK, farm	
9.	Compost production Unit	2012	9.6m X 5m	-	Compost	108.53 q	1000.00	10236.00	
					Vermiworm	0.283 q		6600.00	25 kg In stock
10.	Mushroom	2011		<i>Oyster</i>	Mushroom	4 kg	1000.00	400.00	
						20 kg		1200.00	8 kg In stock

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	May-Jun-2016	Nov-Dec 2016	1.7	Ranjit	FS	12.36	96500.00	40788.00	0.17 Q
				Bahadur	FS	11.20		36960.00	In stock
				Mashuri	FS	8.85		29205.00	0.74 Q
				TTB 404	TLS	1.73		5709.00	0.18 Q
				Gitesh	FS	3.01		9933.00	0.09 Q
				Swarna Sub-1	FS	1.75		5775.00	In stock
				Black Rice	TLS	1.80		10800.00	1.69 Q
				Total				40.70	
Pulses									
	Oct,16	Jan, 17	0.002	White Rajmah	Seed	8 kg		4000.00	In stock
	Oct,16	Jan, 17	0.002	White French Bean	Seed	1 kg		500.00	In stock

Spices & Plantation crops									
Turmeric	May, 16	Jan, 17	0.065	Megha Turmeric		400kg		12000.00	
Floriculture									
Gerbera	Sept, 16			Red-gem	Sucker	100 nos. sucker		500.00	
Gladiolus	Oct, 16	March, 17		Novalux, Sunniboy	Sucker	50 corms		250.00	
Fruits									
Pineapple	Ratoon			Kew		500 No		1000.00	
Guava	2012			Lucknow-49, Allahabad Safeda		50		2500.00	
Litchi	2012			Bedena, seedless, Rose Scented		30		3000.00	
a. Others									
Sugarcane				Nambor, Doria, Borak, Dishang		15 Q		7500.00	
Congo Signal	2015					10000 No		5000.00	
Setaria						10000 No		5000.00	
Hybrid Napier						5000 No		2500.00	

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	Vermi worm	28.3kg 25 kg (In stock)	20000.00	6600.00	
2	Vermicompost	853 kg (10 0 q)		10236.00	
3	Azolla	900 kg In stock	1500		
	BIOAGENTS				

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	4844.11 lit	82500.00	222829.00	
2.	Vermicompost	-	Vermi compost	108.53 q	20904.00	56600.00	
			Vermiworm	0.283 q			
3.	Poultry	Broiler	-	835.43 kg		87720.00	
		White Leg Horn	Hatching egg	106		1590.00	
			Table egg	316		2528.00	
		Kalinga brown	Birds	46		13916.00	
		Kalinga brown	Chicks	273		35510	
		Kalinga brown	Hatching eggs	464		6960.00	
			Table egg	1952		13590	
		Turkey	Bird	3		3820.00	
			Chick	74		11420.00	
			Hatching egg	104		3120	
			Table egg	22		176	
			Rainbow Chick	62		4960	
		Japanese quail	birds	226 (200 nos. sold)		17820.00	
			eggs	2061 (sold)		4122.00	
		Khaki campbell	Hatching egg	479		7185.00	
	Table egg	1252	10016.00				
Vigova Super M Bird		1 no	500.00				
Duckling		81	10830.00				
4.	Goattery	Beetal buck	Beetal/ Local/ Sirohi	1 no	10000.00	2600.00	
			Goat servicing	48 no		2400.00	
5.	Piggery	T & D, Hamshire	15 No.	3	96180.00	27000.00	

			Piglet	23		64000.00	
6.	Fish		Big fish	116 kg	-	23216.00	Stock for next year
7.	Rice- Fish	Indian Major Carp	Small fish	9.8 kg	5000.00	1176.00	
8.	Azolla	Azolla caroleniana	Azolla Compost	9 q	0	Used in KVK, farm	
9.	Compost production	-	Compost	108.53 q	0	10236.00	
			Vermiworm	0.283 q		6600.00	25 kg In stock
10.	Mushroom	<i>Oyster</i>	Mushroom	4 kg		400.00	
				20 kg		1200.00	8 kg In stock

6.5 Rainwater Harvesting

Training programmes conducted by using Rainwater Harvesting Demonstration Unit : Nil

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

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

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

7.3 Utilization of KVK funds during the year 2016 -17

S. No.	Particulars	Sanctioned (in Lakh)	Released (in Lakh)	Expenditure (in Lakh)
A. Recurring Contingencies				
1	Pay & Allowances	102.45		94.87344
2	Traveling allowances	2.50		2.49899
3	Contingencies	19.00		
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)			3.16659
B	POL, repair of vehicles, tractor and equipments			2.14145
C	Meals/refreshment for trainees			2.09000
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)			1.33303
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)			1.34642
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)			1.34315
G	Training of extension functionaries			1.12182
H	Misc.			1.88576
I	Other Maintenance			4.26759
J	Establishment of Soil, Plant & Water Testing Laboratory			
K	Library			
TOTAL (A)		19.00		18.69581
B. Non-Recurring Contingencies				
1	Works	5.00		4.98300
2	Equipments including SWTL & Furniture	2.05		--
3	Vehicle (Four wheeler/Two wheeler, please specify)	0.00		0.00
4	Library (Purchase of assets like books & journals)	0.75		0.75--
TOTAL (B)		7.80		5.733
C. REVOLVING FUND		*	*	*
GRAND TOTAL (A+B+C)		131.75		121.80124

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

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year
April 2014 to March 2015	3,53,782.00	2,84,271.00	3,71,290.00	2,66,763.00
April 2015 to March 2016	2,66,763.00	4,79,936.00	5,25,039.00	2,21,660.00
April 2016 to March 2017	2,21,660.00	7,48,476.00	5,77,228.00	3,92,908.00

Note: No KVK must leave this table blank

8.0 Please include information which has not been reflected above.

Cluster Front Line Demonstrations on Oilseed and Pulses under MNOOP and NFSM, 2016-17 :

Technology demonstrated	Demonstration Yield (Qt/Ha)			Yield of local Check	% increase	Gross Cost (Rs/Ha)/ (Rs./ unit)	Gross Return (Rs/Ha) / (Rs./ unit)	Net Return (Rs/Ha) / (Rs./ unit)	B:C Ratio (GR/GC)
	H	L	A	(Qt/Ha)	%				
Cluster demonstration of Rabi Oilseeds(Toria) under NMOOP									
Location : Kakorikota(Majuli), Borkhelia. Area : 20 ha No.s of farmers : 57									
Variety-TS-36 / TS-38 -, INM practices (Bio-fertilizer: PSB & Azotobacter) & FYM under Rice-Fallow situation, Soil amendment (Lime), Micronutrient (Borax	10.32	9.43	9.89	6.7 (local)	61.34	13,700	29670	15970	2.16
Cluster demonstration of Kharif Pulses (Black gram) under NFSM									
Location :Adi Elengi, Grezing Chapori, Kothal Khowa, Borbari Pothar Area : 20 ha No.s of farmers : 100									
HYV-PU-31-Integrated Nutrient Management Practices (Bio-fertilizer: Rhizobium) & FYM , Lime as soil amendment	8.62	7.84	8.2	6.67	22.93	25830	46800	20970	1.81
Cluster demonstration of Kharif Pulses (Green gram) under NFSM									
Location :Adi Elengi, Grezing Chapori, Kothal Khowa, Borbari Pothar Area : 20 ha No.s of farmers : 100									

HYV-IPM02-3, Integrated Nutrient Management Practices (Bio-fertilizer: Rhizobium) & FYM , Lime as soil amendment	10.1	8.97	9.7	5.89	64.68	25550	77600	52050	3.04
Cluster demonstration of Rabi Pulses (Field Pea) under NFSM									
Location : Malapindha, Bhalukmara Adi Elengi, Ratanpur (Kothal Khowa) Area : 20 ha No.s of farmers : 54									
HYV- Rachna, INM practices (Bio-fertilizer: Rhizobium) & FYM, Soil amendment (Lime)	13.05	11.45	12.25	8.71	40.64	30255	49000	18745	1.62
Cluster demonstration of Rabi Pulses (Lentil) under NFSM									
Location : Selek, Malapindha, Adi Elengi, Grezing Chapori, Lahon Gaon (Kothal Khowa) Area : 20 ha No.s of farmers : 86									
HYV – Moitree, INM practices (Bio-fertilizer: Rhizobium) & FYM Soil amendment (Lime)	7.54	6.42	6.94	5.12	35.54	20270	55520	450	2.50

Seed Production under Pulse Seed Hub, 2016-17 :

Crop / Enterprise	Area	Technology	Location
Kharif Black Gram	30 ha	HYV-PU-31, IPU 94-1, Integrated Nutrient Management Practices (Bio-fertilizer: Rhizobium) & FYM , Lime as soil amendment, IPM	Adi Elengi, Grezing Chapori, Kothal Khowa, Bhalukmara
Kharif Green Gram	20 ha	HYV-IPM 02-3, Integrated Nutrient Management Practices (Bio-fertilizer: Rhizobium) & FYM, Lime as soil amendment, IPM	
Lathyrus	5 ha	HYV-Ratan with rice utera cropping	Bhakat Chapori

Physical Progress of Pulse Seed Hub :

Crop	Target (q)	Variety	Class of Seeds	No. of Farmers	Area (ha)	Production(q.)	Committed quantity for seed buy back (q)	Remarks
Black gram (Kharif)	200q	PU 31	CS	60	17.74	150 q	Nil	Due to YMV infestation , the AAU authority suggested not to buy back the seed
		IPU 94-1		80	22.26	175q	7 q	Due to non completion of storage and processing facility procurement of large quantity of seed will be a risky proposition. We decided to buy back only 7q of black gram and 30 qtl of green as per the requirement of the host kvks for cluster demonstration in the next season. Already we received indents of nearby KVKs,
Green gram (Kharif)	100 q	IPM02-3	CS	60	20	140 q	30 q	

* Out of the total area under Black Gram variety IPU 94-1, KVK Dibrugarh and Tinsukia executed 05 ha area each

Physical Progress								
Crop	Target (q)	Variety	Class of Seeds	No. of Farmers	Area (ha)	Production/ Expected Production (q.)	Committed quantity for seed buy back (q)	Remarks
Field Pea (Rabi)	300 q							Due to non-availability of foundation seeds of desired variety (though requisition were made to the competent authority like IIPR, Kanpur; NSC, Guwahati; ASC, Guwahati; but they failed to supply the same), the programme was cancelled for this year.
Lathyrus (Rabi)	Nil	Ratan	FS	48	5	25	25 q	At flowering stage (expected to fulfill the target)

Financial Progress of Pulse Seed Hub :

Amount Sacntioned (In Lakhs)	Amount Received (In Lakhs)	Expenditure (In Lakhs)	Balance (In Lakhs)
1,50,00,000 (Rs 100,00,000 under Revolving Fund & Rs.50,00,000 under Infrastructure Development)	35,00,000 as Revolving Fund	Rs 1,85,600 (Achieved) ii.Rs 4,45,000 (Committed expenditure in terms of seed buy back, certification, carrying etc will be achieved up to March, ,17)	Rs 28,69,400

Assets creation under Pulse Seed Hub by KVK, Jorhat :

Assets creation	Physical (Nos)		Financial (Rs.)		Reasons for shortfall, if any.
	Target	Achieve	Target	Achieve	
Seed processing plant	Processing unit with seed grader, bucket elevator and weighing and bagging system	Tendering process completed	13,90,000	Nil	The total requirement of fund is Rs 50 lakh for the asset creation. However only 35 lakh was provided as contingency for seed hub revolving fund. As the money for the asset creation has not been received the work on processing unit and storage unit is stalled currently.
Godown	RCC godown with cooling facility and semi covered threshing floor	Tendering process completed	36,10,000	Nil	

Quality paddy seed production through Participatory Foundation Seed (Sali paddy) Production under Technology Showcasing, 16-17 :

Crop	Area	Technology	Location	No. of Farmers	Progress
Sali paddy	30 ha	Variety- Gitesh, Swarna Sub-1	Sukanjan, Budhbaria, Lahdoigarh Maran Gaon, Ara Gaon, Puranimatia, Majgaon, Kaliapani, Suramoni (12+36=48)	48	Waiting for seed certification. Expected quality seed : 1560 q

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 : Soil testing laboratory not established till date
- (d) Mobility : There is only one vehicle at KVK which often become insufficient to make all the field visits. Hence, another vehicle or one/two motorbike may be provided for smooth monitoring of various programmes by the SMS.

(Signature)

Sr. Scientist cum Head

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