ANNUAL PROGRESS REPORT

2018-19

Krishi Vigyan Kendra, Jorhat
Assam Agricultural University
Teok-785112

PROFORMA FOR ANNUAL REPORT OF KVKS, 2018-19

1. GENERAL INFORMATION ABOUT THE KVK

1.1. Name and address of KVK with phone, fax and e-mail:
1.2.

Address	Telephone		E mail
Krishi Vigyan Kendra Assam Agricultural University Kaliapani, Jorhat (Assam)-785112	**Office**	**FAX**	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. Phuleswar Nath		9964411012	drphuleswar@gmail.com

1.4. Year of sanction: 2006

1.5. Staff Position (As on 31st March, 2019)

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	Principal Scientist & Head	Dr. Phuleswar Nath	Head	Plant Pathology	1,44,200 – 2,18,200 (GP-10000)	69,520.00	09.12.1991	Permanent	OBC
2	Subject Matter Specialist	Mr. Sanjib Ranjan Borah	SMS	Soil Science	68,900 – 2,05,500 (GP- 8000)	40,690.00	25.08.2011	Permanent	OBC
3	Subject Matter Specialist	Mr. Sameeron Bhattacharjya	SMS	Agronomy	56,100 – 1,77,500	61,300.00	28.01.2014	Permanent	Others
4	Subject Matter Specialist	Ms. Sharmistha Borgohain	SMS	Horticulture	56,100 – 1,77,500	61,300.00	30.01.2014	Permanent	OBC
5	Subject Matter Specialist	Mr. Bikram Bhattacharyya	SMS	Plant Protection	56,100 – 1,77,500	61,300.00	03.11.2015	Permanent	Others
6	Subject Matter Specialist	Dr. Prabhat Baruah	SMS	Animal science	56,100 – 1,77,500	56,000.00	20.08.2018	Permanent	OBC
7	Subject Matter Specialist	Vacant	SMS						
8	Programme Assistant	Vacant	Programme Assistant						
9	Computer Programmer	Mr. Rupjyoti Chutia	Prog. Assistant (Computer)	Computer Application	35,400-1,12,400	41,100.00	03.09.2011	Permanent	OBC
10	Farm Manager	Mr. Ramen Kalita	Farm Manager	Agriculture	35,400 - 1,12,400	38,700.00	11.10.2014	Permanent	OBC
11	Accountant / Superintendent	Vacant	Accountant cum Office Superintendent	NA					
12	Stenographer	Mr. Biman Jyoti Phukan	Stenographer cum Computer Operator	NA	25,500 – 81,100	31,400.00	18.02.2012	Permanent	OBC

13	Driver	Mr. Pankaj Borah	Driver	NA	21,700 – 69,100	26,000.00	21.02.2012	Permanent	OBC
14	Driver	Mr. Diganta Gogoi	Driver	NA	21,700 – 69,100	23,100.00	25.11.2016	Permanent	OBC
15	Supporting staff	Mr. Babul Gogoi	Grade IV	NA	18,000 – 56,900	18,000.00	10.07.2018	Permanent	OBC
16	Supporting staff	Mr. prandeep Bania	Grade IV	NA	18,000 – 56,900	18,000.00	11.07.2018	Permanent	Others

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

Sl. 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	-	-	-
6.	Seed processing plant	Pulse Hub	2017 -18		50,00,000.00	-	-	-
	Godown	Pulse Hub	2017 -18			-	-	-

B) Vehicles

Type of vehicle	Regd. No.	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Jeep	AS 03- H-9470	2012 (ICAR)	6,49,819	154926	Handed over to KVK, Golaghat
	AS-03-M- 9471	2015 (ICAR)	-	93215	Running condition
Tractor	AS03 AC-2223	2010(RKVY)	4,59,301.00	952	Running condition
Power tiller (2nos)	-	2008(RKVY)	1,36,511.00	-	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	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	Desktop Computer (2)	2016	-	Working
13	UPS (4)	2016	-	Working
14	LCD Projector (1)	2016	-	Working
15	DSLR camera (1)	2016	-	Working
16	Laptop (1)	2016	-	Working
17	Laserjet printer all in one (1)	2016	-	Working
18	Laserjet printer (1)	2018	-	Working
19	UPS (1)	2018	-	Working

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

61	Autoclave: Table top	2011	8,810.00	Working
62	Autoclave vertical, media make, Model-7440PAD, Size-40x60 cm	2011	93,638.00	Working
63	Horizontal Laminar air flow, Make-Rescolar, Model-RH58-7, Size-120 x 60 x 60 cm	2011	57,930.00	Working
64	Hot air Oven (600x600x600) mm	2011	36,888.00	Working
65	Portable Ph meter with 4 digit LCD display	2011	2,270.00	Not Working
66	B.O.D Incubator(Low temp.) capacity -171 lt.	2011	1,22,131.00	Working
67	Spirit lamp(Brass)	2011	280.00	Working
68	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 2018-19

Sl. No.	Date	Name and Designation of Participants	Salient Recommendations	Action taken on last SAC recommendation
1.	26.3.2019	1. Dr. K. M. Bujarbaruah, Vice Chancellor, AAU, Jorhat, Chairman. 2. Dr. P.K. Pathak, Director of Extension Education, AAU, Jorhat. 3. Dr. A. Bhattacharyya, Director of Research (Agri), AAU, Jorhat 4. Dr. Tamizuddin Ahmed, Chief Scientist, RARS, Titabor 5. Dr. M. Neog, Assoc. Director of Extension Education (T), AAU, Jorhat 6. Dr. R. K.Saud, Assoc. Director of Extension Education (P&I), AAU, Jorhat 7. Dr. P. Nath, Head, KVK, Jorhat 8. Dr. U. Goswami,Senior Extension Specialist, DoEE, AAU, Jorhat 9. Dr. M. K. Sarmah, Senior Extension Specialist, DoEE, AAU, Jorhat 10. Mr. R. J. Borah, Junior Extension Specialist, DoEE, AAU, Jorhat 11. Mr. Samir Bordoloi, Gen. Secretary, SPREAD, NE 12. Mr. Janardan Baruah, Govt. Sericulture Farm, Titabor 13. Mr. Umananda Raj Borah, President, KASS Jorhat 14. Mr. Bipul Borah, Secretary, KASS Jorhat 15. Mr. Dipak Bordoloi, Social		**Action point 1.** Preparation of action plan for doubling farmers income **Action taken :** Action plan has been prepared and activities are going on in the village Na-selauria, Titabar **Action point 2.** Establishment of market linkage with Arunachal Pradesh that will create new hopes for mushroom growers. **Action taken :** The mushrooms produced in the villages were not sufficient to fulfilled the demand at local market. The mushroom produced in the district is sold at much higher price at local market. **Action Point 3**. Popularization of dual purpose poultry breed instead of broiler duck **Action Taken:** The dual purpose poultry breed "Rainbow Rooster" has been promoted by the KVK **Action point 4.** Priority should be given on organic farming and bee keeping as highlighted by Hon,ble Prime Minister, Narendra Modi **Action taken** : We could not promote any true organic village due to shortage of organic inputs but we convert 15% our cultivable KVK land into organic one. In reference to bee keeping, we are promoting Bee rearing along with the CFLD on oilseed. **Action 5.** Creation of awareness amongst the farmers on the utilization of residual moisture through utera cultivation **Action taken :** We are demonstrating the utera crop cultivation through our FLD and OFT programme. We promote lathyrus, lentil and pea as utera crop.

		Forestry, Jorhat Range 16. Mr. Balindra Nath Chetia, Asstt. Director of Agriculture, Jorhat 17. Dr. Bhupen Das, District AH & Veterinary Officer, Jorhat 18. Mr. Atul Kr. Baruah, Asstt. Agril. Engineer, Jorhat 19. Mrs. Rekha Bora, Farmer Representative, Pirakata Bharalua Gaon 20. Mr. Nabanidhi Gogoi, Farmer Representative, Boloma Moran Gaon 21. Mr. Phoni Bora, Farmer Representative, Burakurti Gaon 22. Mr. Girin Chetia, Director, NEADS(NGO), Dhekiakhowa, Jorhat. 23. Mr. Kirti Bordoloi, AIR, Jorhat 24. Mr. Prasanta Kr. Dutta, AIR, Jorhat 25. Mr. Keshav Ch. Bora, DI&CC, Jorhat 26.Mr. Rajib Kr. Kalita, RFRI, Jorhat 27. Mr. Sankar Baruah, District Fishery Development Office, Jorhat 28. Mr. Keshav Ch. Barua, Jorhat Soil Conservation Division 29. Mr. Chandan Sarmah, SIPRD, Jorhat		**Action 6.** House suggested to develop a Khaki Campbell duck village **Action taken :** It is yet to be done due to non availability of breed **Action 7.** House suggested to conduct vocational training for skill development **Action taken :** 4 vocational trainings have already been conducted. **Action 8.** The House emphasized on the need of attending the ADO meet organised by DAO, Jorhat. **Action taken :** It was done and will be continued in future also. **Action 9.** Considering the importance of the sericulture in the Jorhat District, the house suggested to take demonstration on high foliage castor variety **Action taken :** It could not be done due to mass transfer of SMSs and will be done this year

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

Proceeding of 7thScientific Advisory Committee (SAC) Meeting of Krishi Vigyan Kendra, Jorhat, 2018-19
Date: 26/03/2019
Chairman: Dr. H. C. Bhattacharya, Director of Extension Education, AAU, Jorhat.
Venue: Conference Hall, Directorate of Extension Education, AAU, Jorhat
Rapporteurs: Mr. S. R. Borah, Mr. S. Bhattacharyya, Mr. R. Kalita, Ms. S. Gohain

The **7th** Scientific Advisory Committee (SAC) meeting of KVK, Jorhat was held in the Conference Hall of the Directorate of Extension Education, AAU, Jorhat on 26th of March, 2019 under the Chairmanship of Hon'ble Vice Chancellor, AAU, Jorhat. At the outset, Dr. P. Nath, Head of KVK, Jorhat welcomed the dignitaries present followed by felicitation.

The Action Taken Report for the year 2017-18 and Progress Report of 2018-19 were presented by the Head, KVK and suggestions from the house were as follows:

1. Popularisation of high foliage castor variety, NBR -1 was not done during 2018-19 and will be undertaken during 2019-20 in collaboration with CMER&TI, Lahdoigarh.
2. Jorhat district is to be developed as model one in association with the all stalk holders combining all components of improved farming like improved seed, suitable varieties, irrigation and suitable production technologies.
3. Bari System of cultivation is to be developed with the inclusion of medicinal plants.
4. Two Schedule Cast (SC) villages are to be promoted for piglet production under SC Fund scheme. The house also suggested selecting 10 new farmers and promotes them to be progressive one by helping them in the aspects like-skill training, resources mobilization etc.
5. In case of OFT on Joha rice, closer spacing can be done at 15x 20 cm
6. In case of the OFT on small potato tuber production, it was suggested for early planting to get better production.
7. In case of OFT on Bhut Jalakia, the package on plant protection measures should be revisited and the KVK was suggested to contact the Department of Plant Pathology, AAU, Jorhat.
8. KVK should do the needful to promote the most promising hardy crop lathyarus by increasing the area coverage.

Then the Action Plan for the year 2019-20 was presented for discussion.

1. Discussing on the proposed Action Plan 2019-20, the house suggested to promote pulse crop as relay with rice. The technology developed by RARS, Shillongoni on the system may be followed.
2. The proposed OFTs on Poultry breed Kadaknath, rearing of Rabbit for meat purpose and cooking quality of black rice was advised to be dropped. One of the FLDs on Pumkin variety Arjuna F_1 was also suggested to drop.
3. Further, the house suggested to demonstrate rice-rabi pulse and other vegetable crop sequence in the KVK farm.
4. Popularization Bor Keseru plantation to promote Eri rearing in the district, a radio talk may be arranged in All India Radia, Jorhat for awareness.
5. Training on Japanese quail, is to be arranged in which Mrs. Rekha Bora, a progressive lady farmer is to be invited.

The Chairman put forwarded the following points to be executed -

1. To create a farmers data base of the areas under each crops of the district.
2. A research programme may be undertaken to solve the germination problem of Bhut Jalakia seed during storage which may be forwarded to the Department of Seed Science and Technology, AAU, Jorhat – 13.
3. KVK, Jorhat is asked to prepare a proposal to support Mr. Nabanidhi Gogoi, a progressive pig farmer of Boloma to produce improved breeds of piglet in public –private partnership (PPP) mode to meet the short supply of piglets in the SC villages.

4. A team of experts comprising professionals from NERIWALM, Department of Agriculture Engineering and Dr. Romoni Thakuria from AICRP on Water Management, AAU, Jorhat is suggested to visit the flood affected area of Teok and prepare a blue print for water shade management.

The meeting was ended with vote of thanks from Mr Ramen Kalita, Farm Manager, KVK Jorhat.

Members Present:

Sl. No.	Name and Designation of members
1.	Dr. K. M. Bujarbaruah, Vice Chancellor, AAU, Jorhat, Chairman.
2.	Dr. P.K. Pathak, Director of Extension Education, AAU, Jorhat.
3	Dr. A. Bhattacharyya, Director of Research (Agri), AAU, Jorhat
4	Dr. Tamizuddin Ahmed, Chief Scientist, RARS, Titabor
5	Dr. M. Neog, Assoc. Director of Extension Education (T), AAU, Jorhat
6	Dr. R. K.Saud, Assoc. Director of Extension Education (P&I), AAU, Jorhat
7	Dr. P. Nath, Head, KVK, Jorhat
8	Dr. U. Goswami,Senior Extension Specialist, DoEE, AAU, Jorhat
9	Dr. M. K. Sarmah, Senior Extension Specialist, DoEE, AAU, Jorhat
10	Mr. R. J. Borah, Junior Extension Specialist, DoEE, AAU, Jorhat
11	Mr. Samir Bordoloi, Gen. Secretary, SPREAD, NE
12	Mr. Janardan Baruah, Govt. Sericulture Farm, Titabor
13	Mr. Umananda Raj Borah, President, KASS Jorhat
14	Mr. Bipul Borah, Secretary, KASS Jorhat
15	Mr. Dipak Bordoloi, Social Forestry, Jorhat Range
16	Mr. Balindra Nath Chetia, Asstt. Director of Agriculture, Jorhat
17	Dr. Bhupen Das, District AH & Veterinary Officer, Jorhat
18	Mr. Atul Kr. Baruah, Asstt. Agril. Engineer, Jorhat
19	Mrs. Rekha Bora, Farmer Representative, Pirakata Bharalua Gaon
20	Mr. Nabanidhi Gogoi, Farmer Representative, Boloma Moran Gaon
21	Mr. Phoni Bora, Farmer Representative, Burakurti Gaon
22	Mr. Girin Chetia, Director, NEADS(NGO), Dhekiakhowa, Jorhat.
23	Mr. Kirti Bordoloi, AIR, Jorhat
24	Mr. Prasanta Kr. Dutta, AIR, Jorhat
25	Mr. Keshav Ch. Bora, DI&CC, Jorhat
26	Mr. Rajib Kr. Kalita, RFRI, Jorhat
27	Mr. Sankar Baruah, District Fishery Development Office, Jorhat
28	Mr. Keshav Ch. Barua, Jorhat Soil Conservation Division
29	Mr. Chandan Sarmah, SIPRD, Jorhat

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 ^{0} C**		**Relative Humidity (%)**
		Maximum	**Minimum**	
April'18	111.8	29.7	19.4	69
May'18	226.9	30.7	22.3	76
June'18	399.2	32.8	25.0	81
July'18	275.1	33.6	25.9	84
August'18	361.3	33.5	25.8	83
September'18	340.2	32.3	24.9	85
October'18	17.4	29.6	20.5	82
November'18	32.4	26.7	14.9	81
December'18	29.6	24.9	10.9	71
January'19	24.6	24.6	09.2	58
February'19	36.0	24.8	12.4	66
March'19	77.2	27.0	15.7	65

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

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

	Category	**Area**	**Production**	**Productivity**
Fish				
	Marine			
	Inland	43553.49 ha	10468.68 t	0.24 t/ha

Note: Pl. provide the appropriate Unit against each enterprise

2.7 Details of Operational area / Villages of Jorhat & Majuli District (2018-19)

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 Poultry, Piggery	1. Unawareness about scientific crop production 2. Nematode infestation in cucurbitaceous vegetables 3. Low participation of women in agriculture 4. Poor growth rate of indigenous pigs	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. Training on commercial poultry farming
3	Garmur	Kamalabari, Majuli	Mahkinagaon, Borbari gaon, Bhakat Chapori, Na Hatra, Birina Bari	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	Garmur	Kamalabari, Majuli	1 no Borgoain, Borgoain Marituni	Piggery, Poultry, Assam Lemon,	1.Poor grwoth rate of indigenous pigs 2. Lack of knowledge about scieific poultry famrming 3. Lack of knowledge about scintic cultivation of hybrid lemon	1. Introduction ofnewly released variety 2. Grop mobilization 3. Capacity building
5	Teok	Kaliapani	Tipomia village	Mushroom, Bhut Jalakia	1. Lack of scientific knowledge in crop production especially for vegetables 2.Lack of knowledge aboutcommercial mushroom production.	

6	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
7	Koliapani		Tamuli Goan	Vegetables, rice, Piggery, Poultry	1. Lack of knowledge on management practices of vegetables 2. Low production of fruits 3. Low performance of desi poultry birds	1. ICM and IPM of fruits and vegetables 2. Integrated poultry farming 3. Mobilization of CIG
8	Lahing	Selenghat	Changmaigaon, Adarsha gaon	Tea, piggery and poultry	1. Non availability of scented Sali HYV 2. Low production of local scented varieties	1. Introduction of scented HYV of Sali rice
9	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
10	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
11	Lahing	Selenghat	Tengabari	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
12	Lahing	Selenghat	Kathalbari	Vegetables	1. Low productivity, Water scarcity during winter	1. Introduction of integrated crop management
13	Simaluguri	Kaliapani	Kaliapani gohaingaon	Banana	1. Low productivity, Water scarcity during winter	1. Introduction of integrated crop management

14	Simaluguri	Kaliapani	Marijhanji, Khanamukh	Vegetable cultivation	1. Lack of quality planting material 2. Low yield	1. Production of quality planting material
15	Amguri Kharikatia	Titabar	Dangdhora, No Selauria, Bampathar, Dihingia	Assam Lemon, Coconut saplings, Apple Beer, Piggery, Poultry	1 .Low productivity of traditionl vaiety. 2. Unawareness of scientific production technology 3. Unscientific horticultural pocket. 4. Under utilization of natural resources	1. Organic vegetable and fruit production. 2. Entrepreneurship development for rural youths and farm women. 3. Integrated Nutrient Management. 4. Increasing crop productivity through scientific management 5. Introduction of improved bred of pig and poultry suitable for backyard rearing
16	Borhola	Titabor	Sodial	Assam Lemon, Coconut saplings, Apple Beer, Piggery, Poultry	1 .Low productivity of traditionl vaiety. 2. Unawareness of scientific production technology 3. Unscientific horticultural pocket. 4. Under utilization of natural resources	1. Entrepreneurship development for rural youths and farm women. 2. Introduction of improved bred of pig and poultry suitable for backyard rearing
17	Teok	Koliapani	Tipomia,	Winter and kharif vegegtable, Potato, rapeseed, black peper, banana, goatery, duckery, pine apple	1. Low productivity of traditionl vaiety. 2. Unawareness of scientific production technology 3. Unscientific horticultural pocket. 4. Under utilization of natural resources.	1. Organic vegetable and fruit production. 2. Entrepreneurship development for rural youths and farm women. 3. Integrated Nutrient Management. 4. Increasing crop productivity through scientific management 5. Introduction of improved bred of pig and poultry suitable for backyard rearing. 6. IPDM in crop and vegetables.

18	Kamalabari	Majuli Development Block	Mahkina gaon, Bhakat chapari, Danigaon, Borbarigaon, Gormur, Kamalabari, Gormur, Na hatra, Birina Bari	Sali rice, rapeseed & mustard, rabi vegetables, potato, garlic, apiary piggery, fish production	1. Low crop productivity 2. Unawareness of scientific production technology 3. Pest and disease incidence especially in vegetables 4. Injudicious use of pesticides 5. Traditional low productive pig, duck poultry production. 6. Lack of management of natural depression for fish production	1. Integrated farming systems 2. Entrepreneurship development for rural youths and farm women. 3. Integrated Nutrient Management. 4. Increasing crop productivity through scientific management 5. Integrated livestock production and management 6. Introduction improved bred of pig, duck and poultry suitable for backyard rearing. 7. IPDM in crop and vegetables.
19	Fesual	Central Devevelopment Block, Chipahikhola	Fesual No-II goan, Fesual No-I gaon, Holongpara Gohaingaon, Karigaon, Jotokia, Hingipulia	Potato, kharif and rabi vegetables, ginger, banana, Assam lemon, fishery, Goatery, dairy Mushroom	1. Mono cropping 2. Unorganised marketing of Milk, Kharif and Winte vegetable 3. Water scarcity during winter season 4. Lack of awareness about child care and nutrition 5. Pest and disease incidence 6. Injudicious use of chemical pesticides	1. Rain water harvesting 2. Increasing crop productivity through scientific management 3. Orgnanised marketing under group approach. 4. Integrated pest and disease management 5. Entrepreneurship development for rural youths 6. Integrated farming systems 7. Women empowerment
20	Gakhirkho wa	Teok	Kanupukhuri, Dulakharia	Food processing, Union Fabric, Nutritional Garden	1. Low crop productivity 2. Unawareness of scientific production technology 3. Lack of awareness about child care and nutrition	1. Integrated farming systems 2. Entrepreneurship development for rural youths and farm women.

20	Allengmora	Dhekorgora Development Block	Bahfola, Koriamari,Neolgaon,Loliti, Kolia, Dhudang, Malowkhat	Kharif & Rabi Vegetables, Maize, Piggery	1. Low yielding variety 2. Unawareness of scientific production technology 3. Pest and disease incidence especially in vegetables 4. Injudicious use of pesticides 5. Traditional low productive pig, duck poultry production. 6. Lack of management of natural depression for fish production	1. Integrated pest and disease management on vegetables 2. Group marketing 3. Integrated livestock production and management 4. Integrated farming systems 5. Introduction improved bred of pig, duck and poultry suitable for backyard rearing. 6. Integrated Nutrient Management 7. Production of quality piglets.
21	Tengabari	Kaliapani	Tengabari	kharif and rabi vegetables, ginger, banana, Assam lemon, poultry, piggery, Mushroom	1.Unawareness about scientific crop production 2. Traditional low productive pig, duck poultry production 3. Injudicious use of pesticides 4. Mono cropping 5. Under utilization of natural resources.	1. Crop intensification 2. ICM and IPM of rice 3.Introduction improved bred of pig, duck and poultry suitable for backyard rearing 4. Production of quality piglets 5.Integrated Nutrient Management
22	Pirakota	Chipahikhola	Gohaingaon, Dewan Bharalua gaon.	Winter and kharif vegegtable, Potato, banana, Assam lemon, fishery, Goatery, dairy, Poultry	1.Low yielding variety 2. Unawareness of scientific production technology 3. Pest and disease incidence especially in vegetables 4. Injudicious use of pesticides 5. Traditional low productive pig, duck poultry production	1.Processing and value addition 2. Entrepreneurship development 3. Women empowerment 4.Integrated Nutrient Management 5. Increasing crop productivity through scientific management

23	Khonamukh	Kaliapani	Gharphaliagaon, charingiagaon	Sali rice, vegetable, livestock ,banana, Assam lemon	1.Unorganised marketing of Milk, Kharif and Winte vegetable 2. Water scarcity during winter season 3. Lack of awareness about child care and nutrition 4. Pest and disease incidence	1.Integrated farming systems 2. Introduction improved bred of pig, duck and poultry suitable for backyard rearing. 3. Integrated Nutrient Management 4. Production of quality piglets 5.Group marketing

3. TECHNICAL ACHIEVEMENTS

3. A. Details of target and achievements of mandatory activities by KVK during 2018-19

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	1	1	3	3	1	1	5	8
Soil Science	4	8	12	20	3	3	15	17
Plant Protection	4	4	12	12	4	4	20	22
Horticulture	3	4	9	10	3	2	9	6
Animal Science	3	3	26	16	3	3	23	23
Home Science	4	4	25	25	2	4	12	23
Total	**19**	**23**	**87**	**86**	**16**	**19**	**84**	**99**

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	15	17	375	538	1969	4689	5046	10288
Rural youth	2	4	40	111				
Extn.Functionaries	2	3	60	145				
Total	**19**	**24**	**475**	**795**	1969	4689	5046	10288

Seed Production (ton.)		Planting material (Nos. in lakh)	
5		6	
Target	Achievement	Target	Achievement
5.052	2.6035	0.52	0.51

Note: Target set during last Annual Zonal Workshop

3. B. Abstract of interventions undertaken during 2018-19

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	Paddy	Lack of farmers accepted HY paddy varieties for SDW condition	Performance assessment of newly developed HY *sali* rice var. LPR 1130 & LPR 1103 under SDW condition	Demonstration of newly developed submergence tolerant rice varieties Ranjit Sub-1 & Bahadur Sub-1 in submerged areas.	-	-	Field visit	Seeds, Fertilizers, Pesticides
2	Varietal Evaluation	Hybrid Paddy	Poor yield of local varieties	-	Demonstration on Hybrid Paddy variety, Arise 6444-G	-	-	Field visit, Farmer scientist interaction, field day	Seeds, Fertilizers, Pesticides
3	Organic farming	Paddy	Absence of organic package for premium paddy varieties.	Organic cultivation of high value aromatic rice (Variety-Konjoha)	-	-	-	Field visit, Farmer scientist interaction	Seeds, Bio-Fertilizers, organic plant protection chemicals

4		Bhut Jolokia (King Chilli)	Absence of organic package for Bhut Jolokia	Assessment of organic Bhut Jolokia cultivation Package	-	-	-	Field visit, Farmer scientist interaction	Seeds, Bio-Fertilizers, organic plant protection chemicals
5	INM	Black gram	-	-	Biofertilizer supplementation on production performance of kharif black gram (HYV-PU-31)	INM in pulses	-	Field visit, Farmer scientist interaction	Seeds, Bio-Fertilizers, plant protection chemicals
6		Lentil	Deterioration of soil health, Non adoption of INM practices in utera cropping of Lentil	INM in Lentil under rice utera condition (Variety-KLS218)	-	-	-	Field visit, Farmer scientist interaction.	Seeds, Bio-fertilizers, Fertilizers, Pesticides
7		Lentil	Deterioration of soil health, Non adoption of INM practices in Lentil, 34% soils of Jorhat district are zinc deficient	Effect of biofertilizer and ZnSO4 on the productivity of lentil (Variety-KLS218)	-	-	-	Field visit, Farmer scientist interaction.	Seeds, Bio-fertilizers, Fertilizers, Pesticides

8		Hybrid Paddy	Non availability of precise site specific fertilizer recommendation in Hybrid rice	"Fertilizer Prescription Equations for Targeted Yield on Hybrid Rice (Variety-US-382)	-	-	-	Field visit	Seeds, Fertilizers, Pesticides
9	Fertility Management	Toria	Low yield due to poor seed formation	Combined Effect of S and Boron Toria (var. TS-38)	-	-	-	Field visit	Seeds, Fertilizers, Pesticides
10	Production of organic inputs	Vermicom posting	-	-	Demonstration on Low Cost Vermicompost production Technique	-	-	Field visit, Farmer scientist interaction	Polythene sheet, vermiworm etc.
11	Integrated crop management	Maize	-	-	Improved cultivation practices in maize	-	-	Field visit, field day	Seeds, Fertilizers, Pesticides
12	Weed Management	Black gram	High cost of weeding in black gram cultivation	Planting and weed management method for Black gram	-	-	-	Field visit	Seeds, Fertilizers, weedicide, Pesticides
13	Varietal evaluation	Dolichos	Lack of year round cultivable high yielding varieties	Assessment of Dolichos variety *Arka Swagath*	-	-	-	Field visit	Seeds, Fertilizers, Pesticides

14		Tomato	Lack of multi disease resistant varieties	Assessment of tomato var. *Arka Samrat*	-	-	-	Field visit	Seeds, Fertilizers, Pesticides
15		Chilli	Lack of viral disease resistant varieties	Assessment of tomato var. *Arka Harita*	-	-	-	Field visit	Seeds, Fertilizers, Pesticides
16	Scientific crop production	Pumpkin	-	-	Scientific cultivation of Pumpkin var. *Leela*	-	-	Field visit, field day	Seeds, Fertilizers, Pesticides
17		Marigold	-	-	Scientific cultivation of Marigold var. *Pusa Narengi Gainda*	-	-	Field visit, field day	Seeds, Fertilizers, Pesticides
18		Small potato	No proper planting time maintained	Effect of planting time on small tuber potato variety to improved variety under rainfed condition of Assam	-	-	-	Field visit	Seeds, Fertilizers, Pesticides
19	Mushroom cultivation	Mushroom	Lack of year round mushroom varieties	-	Year round cultivable paddy straw Mushroom variety Ostrietus – 444	-	-	Field visit , field day	Spwan,Poly bags

20	IPDM	king chilli	High incidence of viral diseases in *king chilli*	Management of viral diseases in *king chilli*	-	-	-	Field visit	Seedlings,mulching materials, insecticides, fungicides
21	IPM	Okra	Indiscriminate use of chemical pesticides	Biocontrol based IPM module against pests of okra	-	-	-	Field visit	Seeds, yellow sticky card, pheromone trap, neem pesticides
22	IPM	Potato	Indiscriminate use of chemical pesticides	Management of cutworm(*Agrotis ipsilon*)in potato				Field visit	Neem oil, Pesticides, Gram bait, jiggery, yeast extract
23	IPM	Cole crops	Indiscriminate use of chemical pesticides	Biointensive IPM Package for the pests of cole crops				Field Visit	Mustard seeds, T. Chillonis,T. Pieridis, NSKE, yellow sticky traps
24	IPM	Tomato	-	-	Use of pheromones in controlling tomato fruit borer and brinjal shoot and fruit borer		-	Field visit, Field Day	Seeds, pheromone trap, neem pesticides

25	IPM	Rice	-	-	Biological suppression of rice pest(BIPM Package)			Field visit, Field day	*P.Fluorescence, B.bassiana,T.japanicum*, Neem oil, Pheromone trap
26	Bee keeping	Toria	-	-	European bee keeping (*Apis mellifera*) in toria	-	-	Field visit, field day	Honeybee hive with live colony
27	Housing Management	Japanese Quail	Lack of knowlwdge about the diffrent housing system	Productive assessment of Japanese Quail in different housing system (Cage and Litter)	-	-		Field visit	Japanese Quail
28	Breed introduction	Turkey	i. High fat content of poultry meat. ii. Awareness of people for good food and health conciouness. iii. Buying capacity of the general people has increase. iv. Requirement of lean meat. v. Animal protein source for hypertensive and diabetic person.	Productive performance of Turkey for lean meat production in Jorhat district	-	-	-	Field visit	Turkey, Feed

29	Breed Introduction	Vigova Super broiler duck	-	-	Demonstration on productive performance of Vigova Super broiler duck	-	-	Field visit, field day	Duck
30	Health care	Pigs	-	-	Demonstration of Area Specific mineral mixture (AAUVETMIN) supplementation during flushing and gestation in pigs	Nessacity of mineral mixture supplementation in pig	-	Field day	Mineral mixture
31	Protective clothing	Women friendly tools	Unavailability of proper dress during performing Agricultural work	Uses of Protective clothing for Agricultural activities performed by farm women	-	-	-	Technology dmonstration	-
32	Seed Stripper	Drudgery reduction	Non appropriate agricultural tools for seed collection	On Farm Testing on the Efficiency of women friendly Seed Stripper	-	-	-	Technology demonstration	-
33	Value addition	Vegetable preservation	Wastage of excessively produced vegetables	Assessment of fermentation based low cost vegetable preservation technique	-	Value addition of underutilized fruits and vegetables	-	Technology demonstration	-
34	Union Fabric	Value addition		Construction of Union Fabric	-	-	-	Technology demonstration	-

35	Natural dye	Cotton, silk and wool fabric	-	-	Demonstration on improved colour fastness on cotton, silk and wool fabric with natural dye	Uses of natural dye to cotton , silk and wool fabric	-	Method demonstration	-
36	Fruit harvester	Fruit crops	-	-	Demonstration on uses of Fruit Harvester	-	-	Method demonstration	Harvester
37	Vegetable plucker	Drudgery reduction	-	-	Demonstration on women friendly vegetable plucker	-	-	Method demonstration	Plucker
38	Nutritional Gardening	Vegetables	-	-	Establishment of Nutritional Gardening for nutritional security	-	-	Field visit	-

3.1 Achievements on technologies assessed and refined during 2018-19

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	Protective clothing	Vermicompost	TOTAL
Varietal Evaluation	1	-	-	-	3	-	-	-	-	-	4
ICM	-	-	-	-	1	-	-	-	-	-	1
INM	-	-	3	-	-	-	-	-	-	-	3
Fertility management	-	1	-	-	-	-	-	-	-	-	1
IWM	-	-	1	-	-	-	-	-	-	-	1
Drudgery reduction	1	-	-	-	-	-	-	-	-	-	1

Value addition	-	-	-	-	2	-	-	-	-	-	2
IPM	-	-	-	-	3	-	-	-	-	-	3
IDM	-	-	-	-	1	-	-	-	-	-	1
RCT	-	-	-	-	-	-	-	-	-	-	
Women friendly tools			-	-	-	-	-	-	1	-	1
Organic management	1	-	-	-	1	-	-	-	-	1	3
TOTAL	**3**	**1**	**4**	**-**	**11**	**-**	**-**	**-**	**1**	**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**
NIL										
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	-	-	-	-	1	-	-	1
Breed introduction	-	3	-	-	-	-	-	3
TOTAL	**-**	**3**	**-**	**-**	**1**	**-**	**-**	**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	Feedback from the farmer	Feedback to the Researcher	B.C. Ratio (if applicable)
1	Performance assessment of newly developed HY *sali* rice var. LPR 1130 & LPR 1103 under SDW condition	Absence of SDW tolerant HY rice variety	Newly developed HY *sali* rice var. LPR 1130 & LPR 1103 under SDW condition, Ranjit Sub-1 as (Check)	Winter paddy	3	Referred to the table below	Positive response towards the technology	As these varieties are assessed for the first time , hence need further trial at least for 2 years to forward for large scale demonstrations and recommendation	Referred to the table below

Variety : LPR 1130 & LPR 1103 under SDW condition, Ranjit Sub-1 as (Check)No. of trials: 03
Location : Charingia gaon, Khonamukh, Kamarkhatual
Area: 0.39 ha
Date of Sowing : 20.06.18
Date of transplanting: 15.07.18
Date of Harvesting: 21.12.18
Farming situation : Lowland , flood prone, rainfed
Flood stress: Recurring flood from early July – early sept. (3 flashes)

Parameters	**LPR 1130**	**LPR 1103**	**Ranjit Sub-1 (Check)**
Plant ht (cm)	103.7	102.45	105.7
Effective tiller no.	11.23	10.87	12.85
Duration (days)	152	155	152
Pest & Disease	Negligible		
Yield (t/ha)	4.17	4.05	5.32
Gross cost (Rs/ha)	23760	23760	27100
Gross return Rs/ha)	56295	54675	71820
Net return (Rs/ha)	32535	30915	44720
B:C Ratio	1.37	1.30	1.65

Sl. No.	Title of OFT	Problem Diagnosed	Name of Technology Assessed	Crop/Cropping system/ Enterprise	No. of Trials	Results of Assessment/ Refined	Feedback from the farmer	Feedback to the Researcher	B.C . Ratio (if applicable)
2	Organic cultivation of high value aromatic rice var. Konjoha	Absence of organic package for premium paddy varieties.	1. Enriched compost @ 5 t/ha + Biofertilizer (Azospirillum, Azotobacter, PSB) as seedling root dip. 2. Plant Protection Measures : Pheromone traps + Trichocard + Neem based pesticides	Organic cultivation	4	Referred to the table below	Positive response towards the technology	As the technology is assessed for two years , hence may be go for large scale demonstrations and recommendation	Referred to the table below

Variety : Konjoha
Area : 0.65 ha
Location: Khonamukh Gharfalia, Grazing Chapori, , Mohkina, Majuli.

Results		
Parameters	Treatment	Farmers practice
Date of Sowing	30.06.18	30.06.18
Date of Transplanting	29.07.18	29.07.18
Date of Harvesting	10.12.18	10.12.18
Plant height (cm)	94.8	91.7
Av. Yield (t/ha)	2.51	2.12
% increase over FP	18.40 %	-
Gross cost	22260	21570
Gross return	45180	38160
Net return	22920	16590
B:C Ratio	2.02	1.76

Sl. No.	Title of OFT	Problem Diagnosed	Name of Technology Assessed	Crop/Cropping system/ Enterprise	No. of Trials	Results of Assessment/ Refined	Feedback from the farmer	Feedback to the Researcher	B.C . Ratio (if applicable)
3	INM in Lentil under rice utera condition	Deterioration of soil health, Non adoption of INM practices.	T1: Application of 5: 13 kg N : P_2O_5/ha at lentil sowing(10-15 days after flowering of winter rice when soil is moist) + 5: 13:15 kg N : P_2O_5: K_2O/ha at rice harvest + seed inoculation with *Rhizobium* & *PSB* @ 50 g/kg of seed T2: Two sprays of 2 % urea at branching and pod initiation stages) (Source of Technology: AAU, RARS, Shillongani)	Lentil	3	Referred to the table below	Positive response towards the technology	As the technology is assessed for two years, hence may be go for demonstrations	Referred to the table below

Variety : KLS-218
Area : 0.39 ha
Location: Namkatani, Birinabari, Na-Satra
Farming Situation: Rain fed

Results		
Parameters	Treatment-1	Treatment-2
Date of Sowing	15th Nov to 19th Nov, 2018	
Plant height (cm)	57.7	58.7
No of branches/plant	19.7	18.2
No of Pod/ plant	33.6	33.1
Yield (t/ha)	0.731	0.670
Gross return (Rs/ha)	58480	53600
Gross cost (Rs/ha)	25050	24170
Net return (Rs/ha)	33430	29430
B:C ratio	2.33	2.20

Sl. No.	Title of OFT	Problem Diagnosed	Name of Technology Assessed	Crop/Cropping system/ Enterprise	No. of Trials	Results of Assessment/ Refined	Feedback from the farmer	Feedback to the Researcher	B.C . Ratio (if applicable)
4	Effect of biofertilizer and $ZnSO_4$ on the productivity of lentil (Variety-KLS218)	Deterioration of soil health, 34% soils of Jorhat district are zinc deficient .	T_1: Seed inoculation with *Rhizobium* & PSB each @ 50 g/kg of seed + 0.5 kg Amonium Molybdate/ha (Soil application) + 10: 26:15 kg N: P_2O_5: K_2O/ha T_2: Seed inoculation with *Rhizobium* & PSB each @ 50 g/kg of seed + 20Kg Zn SO_4 (Soil application) + 10: 26:15 kg N : P_2O_5: K_2O/ha T_3 (Farmers practice): Recommended dose- 15 kg N, 35 kg P_2O_5, 15 kg K_2O/ha (Source of Technology: AAU, RARS, Shillongani)	Lentil	3	Referred to the table below	Positive response towards the technology	As the results from the technology is encouraging, hence may be go for demonstrations .	Referred to the table below

Variety : Moitree
Area : 0.39 ha
Location: Namkatani, Birinabari, Na-Satra
Farming Situation: Rain fed

Results			
Parameters	Treat.-1	Treat.-2	Treat.-2
Date of Sowing	15th Nov to 19th Nov, 2018		
Plant height (cm)	62.5	63.2	58.7
No of branches/plant	23.7	25.7	18.2
No of Pod/ plant	43.6	45.9	33.1
Yield (t/ha)	0.72	0.77	0.74
Gross return (Rs/ha)	57600	61600	59200
Gross cost (Rs/ha)	26800	26200	25650
Net return (Rs/ha)	30800	35400	33550
B:C ratio	2.14	2.35	2.30

Soil Parameters				
Parameters	Initial	Treat.-1 (Final)	Treat.-2 (Final)	Treat.-3 (Final)
pH (1:2.5)	6.6	6.5	6.6	6.6
OC(%)	0.58	0.58	0.59	0.58
Av. N ($kgha^{-1}$)	248	252	255	253
Av. P ($kgha^{-1}$)	21.98	22	22	23.5
Av. Zinc (ppm)	0.45	0.44	0.52	0.45
Av. K ($kgha^{-1}$)	195	196	195	196

<table>
<tr><th>Sl. No.</th><th>Title of OFT</th><th>Problem Diagnosed</th><th>Name of Technology Assessed</th><th>Crop/Cropping system/ Enterprise</th><th>No. of Trials</th><th>Results of Assessment/ Refined</th><th>Feedback from the farmer</th><th>Feedback to the Researcher</th><th>B.C . Ratio (if applicable)</th></tr>
<tr><td>5</td><td>Assessment of organic Bhut Jolokia cultivation package</td><td>Absence of Organic package for Bhut Jolokia</td><td>1. Enriched compost @ 10 t/ha or Compost @ 10 t/ha + biofertilizer (Azospirillum and PSB) (Ordinary compost primed with Azo, + PSB, @ 1% adjusted with 1% RP as P, cure for15-20 d
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 fungal disease (Source of Technology AAU)</td><td>Organic Bhut Jolokia</td><td>3</td><td>Referred to the table below</td><td>In progress</td><td>Incidence of Disease in all the locations. Need to revisit the plant protection package</td><td>In progress</td></tr>
<tr><td colspan="10">
Variety : Bhut Jolokia
Location : Tulshijan, Pohumora, Bamunpukhuri
No of Trial : 03
Area : 0.13 ha
Farming Situation: Rain fed
<table>
<tr><th colspan="3">Results</th></tr>
<tr><th>Parameters</th><th>Treatment</th><th>Farmers practice</th></tr>
<tr><td>1.Nutrient Status (Initial)</td><td>pH-5.35, %, OC-0.95
Av. N-365 kg/ha,
Av. P_2O_5-29. 75 kg/ha
Av. K_2O-112.50kg/ha</td><td>pH-5.35, %, OC-0.95
Av. N-365 kg/ha,
Av. P_2O_5-29. 75 kg/ha
Av. K_2O-112.50kg/ha</td></tr>
<tr><td>2. Plant height(cm)</td><td>125.0</td><td>110.0</td></tr>
<tr><td>3. No. primary branches</td><td>12.0</td><td>11.0</td></tr>
<tr><td>4. Days to 50% flowering</td><td>107 d</td><td>105 d</td></tr>
<tr><td>5. Yield/ha</td><td rowspan="3">In Progress</td><td rowspan="3">In Progress</td></tr>
<tr><td>6. Nutrient status(post)</td></tr>
<tr><td>7. B:C ratio</td></tr>
</table>
</td></tr>
</table>

Sl. No.	Title of OFT	Problem Diagnosed	Name of Technology Assessed	Crop/Cropping system/ Enterprise	No. of Trials	Results of Assessment/ Refined	Feedback from the farmer	Feedback to the Researcher	B.C . Ratio (if applicable)
6	Fertilizer Prescription Equations for Targeted Yield on Hybrid Rice (Variety-US-382)	Non availability of precise site specific fertilizer recommendation in Hybrid rice	Fertilizer recommendation based on soil test report T1=Targeted Yield 60 q/ha-Inorganic (Only N, P and K fertilizer (Urea, SSP and MOP) based on soil test values) T2= Targeted Yield 60 q/ha-IPNS test value (N, P and K fertilizer (Urea, SSP and MOP) based on soil test values + Vermicompost @ 2t/ha. Amount of N, P and K fertilizer will be adjusted after analysis of initial soil and FYM sample.)	Winter Paddy	2	Referred to the table below	Positive response towards the technology	Soil testing facility has to be made available to all farmers at doorstep & at affordable cost.	Referred to the table below

			Variety : US-382 Location : Boloma, Pirakata No of Trial : 02 Area : 0.26 ha Farming Situation: Rain fed	**Results**		
				Parameters	**Treatment-1**	**Treatment-2**
				Land situation	Medium land	Medium land
				Yield	6.2 t/ha	6.6 t/ha
				Gross cost	28900	30100
				Gross return	62000	66000
				Net return	21700	22500
				B.C Ratio	2.14	2.19

Targeted Yield Equations (NPK + IPNS) for hybrid rice					
FN =	4.08	* T	-	0.75	* STVN - 0.59 * M
FP =	1.39	* T	-	2.57	* STVP - 0.37 * M
FK =	4.17	* T	-	1.15	* STVK - 0.58 * M

Sl. No.	Title of OFT	Problem Diagnosed	Name of Technology Assessed	Crop/Cropping system/ Enterprise	No. of Trials	Results of Assessment/ Refined	Feedback from the farmer	Feedback to the Researcher	B.C . Ratio (if applicable)
7	Combined Effect of S and Boron Toria (var. TS-38)	Low yield and poor seed formation	T1:11 kg SSP as S source + 950 g Borax as Boron Source + R.D. NPK (5 kg urea, 3 kg DAP, 1.5 kg MOP per half bigha plot) T2: RDF	Toria	3	Referred to the table below	Positive response towards the technology	As the technology is assessed for the first years, hence need further trial for large scale demonstrations and recommendation.	Referred to the table below

			Variety : TS-38 Location : Mohkina, No-1 Borgoyan, Birinabari No of Trial : 03 Area : 0.39 ha Farming Situation: Rain fed

Results		
Parameters	**Treatment**	**Farmers practice**
Plant height (cm)	95.0	82.0
No. of branches/plant	12	9.8
No. of siliqua/plant	245	182
No. of seed/siliqua	22	19.8
Yield (q/ha)	9.8	7.4
% increase over FP	32%	-
B:C	1.91	1.64

Sl. No.	Title of OFT	Problem Diagnosed	Name of Technology Assessed	Crop/Cropping system/ Enterprise	No. of Trials	Results of Assessment/ Refined	Feedback from the farmer	Feedback to the Researcher	B.C . Ratio (if applicable)
8	Planting and weed management method for Black gram	High cost of weeding in black gram cultivation	Planting & weed management method for blackgram T1=raised bed planting using tractor drawn raised bed planter and pedimethalin 1.0 kg /ha as pre-emergence + hand weeding at 25-30	Blackgram	1	Referred to the table below	-	Chemical method of weed control reduces cost of mandys for weeding and cost of cultivation.	Referred to the table below

			DAS T2=Farmers practice-flat bed line sowing						

Variety : PU-31
Location : KVK, Jorhat farm
No of Trial : 01
Area : 0.13 ha
Farming Situation: Irrigated

Results		
Parameters	**Treatment 1**	**Treatment 2**
Plant height	56.7 cm	54.2cm
No of branches/ plant	10	9
Prominent weed species	*Chenopodium album, Ageratum conyzoides Cynodon dactylon, Cyparus rotundus*	
Weed population per square metre	10.73	12.41
Yield (Q/ha)	5.3	5.2
B: C ratio	1.4	1.25
Weed population per square metre	10.73	12.41

Sl. No.	Title of OFT	Problem Diagnosed	Name of Technology Assessed	Crop/Cropping system/ Enterprise	No. of Trials	Results of Assessment/ Refined	Feedback from the farmer	Feedback to the Researcher	B.C. Ratio (if applicable)
9	Assessment of Dolichos variety *Arka Swagath*	Lack of year round cultivable high yielding varieties of Dolichos bean	Dolichos variety *Arka Swagath* (pole type)	Dolichos bean	3	Referred to the table below	Positive response towards the technology	As the technology is assessed for the first years , hence need further trial for large scale demonstrations and recommendation	Referred to the table below

Location: Khonamukh, Tipomia, Chelenghat Area: 0.13ha	Technology		Farmers practice (Local Var.)
	Parameters	Results	
	Plant height	2.6 m	2.1 m
	No. of beans/plant	160 nos.	142 nos.
	Yield/ha (t)	20.0	15.0
	B:C ratio	2.4:1	2.0:1

Sl. No.	Title of OFT	Problem Diagnosed	Name of Technology Assessed	Crop/Cropping system/ Enterprise	No. of Trials	Results of Assessment/ Refined	Feedback from the farmer	Feedback to the Researcher	B.C. Ratio (if applicable)
10	Assessment of Tomato variety *Arka*	Lack of multi disease resistant varieties of Tomato	Tomato variety *Arka Samrat* (triple disease resistant)	Tomato	3	Referred to the table below	Positive response towards the technology	As the technology is assessed for the first years , hence need further trial for large scale demonstrations and recommendation	Referred to the table below

	Samrat		Location: Khonamukh, Morijhanji Area: 0.13ha

Technology		Farmers practice (Local Var.)
Parameters	**Results**	
No. of fruits/plant	50 nos.	32 nos.
TLCV, bacterial wilt & early blight	Resistant	Susceptible
Yield/ha (t)	78.0	42.0
B:C ratio	4.9:1	3.1:1

Sl. No.	Title of OFT	Problem Diagnosed	Name of Technology Assessed	Crop/Cropping system/ Enterprise	No. of Trials	Results of Assessment/ Refined	Feedback from the farmer	Feedback to the Researcher	B.C. Ratio (if applicable)
11	Assessment of Chilli variety *Arka Harita*	Lack of viral disease resistant varieties of Chilli	Chilli variety *Arka Harita* (powdery mildew and virus resistant)	Chilli	3	Referred to the table below	Positive response towards the technology	As the technology is assessed for the first years , hence need further trial for large scale demonstrations and recommendation	Referred to the table below

<table>
<tr><td></td><td></td><td></td><td colspan="7">Location: Khonamukh, Morijhanji
Area: 0.13ha
<table><tr><th colspan="2" rowspan="2">Technology</th><th rowspan="2">Farmers practice (Local Var.)</th></tr><tr><th>Parameters</th><th>Results</th></tr><tr><td colspan="2">Fruit size</td><td>9 x 0.8 cm</td><td>6 X 0.5 cm</td></tr><tr><td colspan="2">Viral disease and powdery mildew</td><td>Resistant</td><td>Susceptible</td></tr><tr><td colspan="2">Yield/ha (t)</td><td>32.0</td><td>8.0</td></tr><tr><td colspan="2">B:C ratio</td><td>4.1:1</td><td>2.9:1</td></tr></table></td></tr>
<tr><th>Sl. No.</th><th>Title of OFT</th><th>Problem Diagnosed</th><th>Name of Technology Assessed</th><th>Crop/Cropping system/ Enterprise</th><th>No. of Trials</th><th>Results of Assessment/ Refined</th><th>Feedback from the farmer</th><th>Feedback to the Researcher</th><th>B.C. Ratio (if applicable)</th></tr>
<tr><td>11</td><td>Effect of planting time on small tuber potato variety to improved variety under rainfed condition of Assam</td><td>No proper planting time maintained</td><td>Time of planting</td><td>Potato</td><td>1</td><td>Referred to the table below</td><td>Positive response towards the technology</td><td>As the technology is assessed for the first years , hence need further trial for large scale demonstrations and recommendation</td><td>Referred to the table below</td></tr>
<tr><td colspan="10">Location: Potiagaon
Area: 0.065 ha
<table><tr><th colspan="2" rowspan="2">Technology</th><th rowspan="2">Farmers practice (Local Var.)</th></tr><tr><th>Parameters</th><th>Results</th></tr><tr><td colspan="2">Date of planting</td><td>24/10/2018</td><td>20/11/2018</td></tr><tr><td colspan="2">Yield/plant</td><td>0.3 kg</td><td>0.2 kg</td></tr><tr><td colspan="2">Yield/ha (t)</td><td>3.0</td><td>2.0</td></tr><tr><td colspan="2">B:C ratio</td><td>3.8:1</td><td>3.2:1</td></tr></table></td></tr>
</table>

Sl. No.	Title of OFT	Problem Diagnosed	Name of Technology Assessed	Crop/Cropping system/ Enterprise	No. of Trials	Results of Assessment/ Refined	Feedback from the farmer	Feedback to the Researcher	B.C. Ratio (if applicable)
12	Biointenive IPM package for pests of cole crops	Use of Injudicious use of chemical pesticides	Border plantation of mustard crop against DBM Three release of T. Chilonis@ 10,000/ha against DBM and T. Pieridis against P.brassicae at 7 days interval Mechnical collection of larvae of lepidopteran pests Spraying of NSKE or neem based botanicals @ 5ml.lit of water at 10 days interval Use of yellow sticky trap@ 10 traps/bigha	Cole crops	3	Referred to the table below	Positive response towards the technology	As the technology is assessed for the first years , hence need further trial for large scale demonstrations and recommendation	Referred to the table below

			Location: Dekhiakhua, birinabari, kordoiguri, Area/Unit: 0.39 ha, 3 Farmers	Result		Farmers practice
				Parameters	Result	
				1. **Lepidopteran pests at 15 days interval on 5 plants/replication**	**10**	16
				2. **No. of aphid at 3 leaves/plant/replication**	**5**	8
				3. **Yield record**	**225 q/ha**	188q/ha
				4. B:C Ratio	**5.0**	3.2

Sl. No.	Title of OFT	Problem Diagnosed	Name of Technology Assessed	Crop/Cropping system/ Enterprise	No. of Trials	Results of Assessment/ Refined	Feedback from the farmer	Feedback to the Researcher	B.C . Ratio (if applicable)
13	Management of cutworm (*Agrotis ipsilon)* in potato	Injudicious use of chemical pesticides against cutworm	1. Soil application of Imidacloprid @ 200SL at the time of sowing 2. One spray of NSKE r neem oil @ 5ml/lit of water at 15 days after sowing. 3. Gram Bait 1st at 25 DAS and 2nd at 55 DAS	Potato	3	Referred to the table below	Positive response towards the technology	Need further Trial	Referred to the table below

<table>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td colspan="6">
<table>
<tr><td rowspan="2">Location: Bamun gaon, Borkhelia, Dhekhekiakhua Area/Unit: 0.13 ha Farmers: 3</td><td>Parameters</td><td>Technology</td><td>Farmers practice</td></tr>
<tr><td>1. No. of cutworm infested plants/5 m2 at 15 days interval.
2. No. of trapped insect/bait at 15 days interval
3. No. of tuber infested per plant
4. Yield record</td><td>10
3
1
112.5 q/ha</td><td>17
7
3
92 q/ha</td></tr>
</table>
</td>
</tr>
<tr>
<td>14</td>
<td>Management of viral diseases in king chilli</td>
<td>High incidence of viral diseases in king chilli</td>
<td>1. Treatment of seeds with trisodium phosphate @ 0.3% by soaking the seeds for 24 hrs.
2. Weed management
3. Spraying of systemic insecticides like Imidachloprid 17.8 SL @ 1 ml/lit. of water at 10 days interval Spraying of Mancozeb (Indofil 45) @ 2 ml/lit of water at 10 days interval</td>
<td colspan="6">
<table>
<tr><td>King chilli</td><td>3</td><td>Referred to the table below</td><td>Positive response towards the technology</td><td>Need further Trial</td><td>Referred to the table below</td></tr>
</table>
<table>
<tr><td rowspan="3">Location: Tipomia, gharpholia, khonamukh Area/Unit: 3</td><td colspan="2">Technology</td><td rowspan="2">Farmers practice</td></tr>
<tr><td>Parameters (at 15 days interval)</td><td>Results</td></tr>
<tr><td>1. No. of curled leaves/ plant
2. Per cent disease incidence/5m^2
Per cent of fruit infested/ 5 m^2
3. Yield record
4. B:C ratio</td><td>22
70%
55%
In progress</td><td>30
90 %
78%
In progress</td></tr>
</table>
</td>
</tr>
</table>

<table>
<tr><th>Sl. No.</th><th>Title of OFT</th><th>Problem Diagnosed</th><th>Name of Technology Assessed</th><th>Crop/Cropping system/ Enterprise</th><th>No. of Trials</th><th>Results of Assessment/ Refined</th><th>Feedback from the farmer</th><th>Feedback to the Researcher</th><th>B.C . Ratio (if applicable)</th></tr>
<tr><td>15</td><td>Biocontrol based IPM module against pests of okra</td><td>Indiscriminate use of chemical pesticides</td><td>1.Use of yellow sticky card
2. Six release of T. chilonis @ 50000/ha /week
3. Removal and destruction of infested fruits and shoots
4.Rouging of YMV infested plants
5.Application of need based botanicals thrice at 15 days interval</td><td>IPM</td><td>5</td><td>Referred to the table below</td><td>Positive response towards the technology</td><td>Need further Trial</td><td>Referred to the table below</td></tr>
<tr><td colspan="10">
<table>
<tr><td>Location: Puronimotia, Maibelia, Nahatia gaon, Gharphalia gaon, Tengabari Area: 0.13ha/location</td><td>Parameters</td><td>Technology</td><td>Farmers practice</td></tr>
<tr><td></td><td>1. No. of insect infested shoots/ 5m^2</td><td>3</td><td>7(Avg)</td></tr>
<tr><td></td><td>2. No. of insect infested fruits/ plant</td><td>1</td><td>3 (Avg)</td></tr>
<tr><td></td><td>3. No. of YMV infested plants / 5 m^2</td><td>2</td><td>5</td></tr>
<tr><td></td><td>4. Yield record</td><td>On going</td><td>On going</td></tr>
</table>
</td></tr>
<tr><td>17</td><td>Assessment of Productive performance of Rainbow as backyard poultry in Jorhat district</td><td>Low productivity of local hen both terms of egg and meat production.</td><td>Rainbow</td><td>Rainbow as backyard poultry</td><td>10</td><td>Referred to the table below</td><td>Positive response towards the technology</td><td>Need further Trial</td><td>Referred to the table below</td></tr>
<tr><td colspan="10">
<table>
<tr><td rowspan="2">No. of trials: 10
Location: Dangdhora
Month of start: Oct, 2018</td><td colspan="3">Result</td></tr>
<tr><td>Parameters</td><td>Rainbow</td><td>Local (Check)</td></tr>
<tr><td></td><td>1. Body weight at distribution</td><td>256 g</td><td>145g</td></tr>
<tr><td></td><td>2. Mortality (%)</td><td>5.0</td><td>2.0</td></tr>
<tr><td></td><td>3. Weight at onset of laying.(kg)</td><td>1.65</td><td>1.12</td></tr>
<tr><td></td><td>4. Age at onset of laying</td><td>181 d</td><td>185 d</td></tr>
<tr><td></td><td>5. Nos. of egg laid</td><td>234</td><td>165</td></tr>
<tr><td></td><td>6. FCR (in 40 days)</td><td>1.6:1</td><td>1.4:1</td></tr>
<tr><td></td><td>8. B:C ratio</td><td>2.5:1</td><td>2.1:1</td></tr>
</table>
</td></tr>
</table>

Sl. No.	Title of OFT	Problem Diagnosed	Name of Technology Assessed	Crop/Cropping system/ Enterprise	No. of Trials	Results of Assessment/ Refined	Feedback from the farmer	Feedback to the Researcher	B.C . Ratio (if applicable)
18	Assessment of productive performance of quail in different housing system (case and litter)	Lack of knowlwdge about different housing system in Japanese Quail	Japanese Quail	Japanese Quail	3	Referred to the table below	Positive response	Need further Trial	Referred to the table below

No. of trials: 3 Location :Boloma, Moran Goan Month of start: December, 2018	Parameters	Cage system	Deep Litter
	1. Body weight at distribution	100 g	100g
	2. Mortality (%)	5.0	11.0
	3. Weight at onset of laying.(kg)	220 gm	235 gm
	4. Age at onset of laying	48 Days	51 days
	5.Nos. of egg laid	234	221
	6. B:C ratio	2.2:1	1.9:1

Sl. No.	Title of OFT	Problem Diagnosed	Name of Technology Assessed	Crop/Cropping system/ Enterprise	No. of Trials	Results of Assessment/ Refined	Feedback from the farmer	Feedback to the Researcher	B.C . Ratio (if applicable)
19	Uses of Protective clothing for Agricultural activities performed by farm women	Unavailability of proper dress during performing Agricultural work	Protective clothing 1. Apron 2.Loose Pant 3.Head dress	Protective clothing	03	Referred to the table below	Positive response towards the technology	Need further Trial	Referred to the table below

Technology/ Social Concept	Result	
	Activity (Harvesting)	Activity (Winnowing)
1. Apron	Highly suitable	Highly suitable
2. Loose Pant	Suitable	Suitable
3. Head dress	Less suitable (very hot for harvesting operation)	Highly Suitable

20	Assessment of	Wastage of excessively	Value addition of underutilized vegetables	Food processing and preservation	10	Referred to the table below	Positive response	Need further Trial	Referred to the table below

	fermentation based low cost vegetable preservation technique	produced vegetables	

Parameter	Result
i. Appearance (without colour vs food colour)	i. Lighter than original
ii. Taste	ii. Fermented taste
iii. Flavour	iii. Fermented flavour
iv. Self life	iv. Upto 2 months product showed good taste & appearance

Sl. No.	Title of OFT	Problem Diagnosed	Name of Technology Assessed	Crop/Cropping system/ Enterprise	No. of Trials	Results of Assessment/ Refined	Feedback from the farmer	Feedback to the Researcher	B.C . Ratio (if applicable)
21	Efficiency of women friendly paddy Stripper	Non appropriate agricultural tools for seed collection	Energy saving tools	Paddy Stripper	07	Referred to the table below	Positive response towards the technology	Need further Trial	Referred to the table below

Parameters	Results	
	Demonstration	Traditional method
Pulse rate	60-70 beats/min	75-85 beats/min
Collection efficiency	90-95%	75- 85%
Capacity kg/hr	8 kg/hr	5 kg/hr
Farmers reaction	Farmers well accepted the women friendly seed stripper. Time and energy saving. Easy to operate.	

22	Construction of Union		Value addition	Union Fabric	05	Referred to the table below	Positive response	Need further Trial	Referred to the table below

	Fabric		

Parameters	Result			
Fabrics	**Eri x Eri**	**Eri x Cotton**	**Muga x Eri**	**Cotton x Art silk**
Warp	52	53	68	62
Weft	54	59	62	68
Total weight (g/sq.mt)	148.75	145.56	142.00	143.00
Remark	More weight	Weight is less than Eri x Eri. Good drapability	Weight is less than Eri x Eri and Eri x Cotton Drapability is higher than Eri x Eri and Eri x Cotton Showed very good Shine.	Weight is less than Eri x Eri. Good drapability

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 2018-19

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

List of technologies demonstrated during previous year and popularized during 2018-19 and recommended for large scale adoption in the district

Sl. No.	**Crop/Enterprise**	**Technology demonstrated**	**Horizontal spread of technology**		
			No. of villages	**No. of farmers**	**Area in ha**
1	Paddy	Demonstration of newly developed submergence tolerant rice varieties Ranjit Sub-1 & Bahadur Sub 1 in the submerged areas .	3	8	2
2	Paddy	Demonstration on hybrid paddy Arize 6444G	2	2	0.26
3	Paddy	Demonstration of aromatic premium quality rice variety KDML 105 (Padumoni) suitable for semi deep water situation	2	4	2
4	Sesamum	Integrated crop management of sesamum	3	5	0.5
5	kharif green gram	Integrated weed management in kharif green gram	2	5	1
6	Boro paddy	Demonstration on cultivation of HY boro paddy variety 'Kanaklata' with farmer's participatory mode	2	12	2
7	Maize	Integrated crop management of maize	1	4	1
8	Linseed	Demonstration on Linseed	1	5	2
9	Rice	Efficacy of Zinc in Rice Productivity	3	3	1.5

10	kharif black gram	Biofertilizer supplementation on production performance of kharif black gram	3	3	1.5
11	Lentil	Integrated Nutrient Management (INM) in Lentil along with Biofertilizer component (Variety—KLS 218)	3	3	1.5
12	Vermicompost	Demonstration on Low Cost Vermicompost production Technique	1	5	5 units
13	Pumpkin	Demonstration on scientific cultivation of Pumpkin var. *Leela*	6	12	1.5
14	Marigold	Demonstration on scientific cultivation of Marigold var. *Pusa Narengi Gainda*	4	8	0.5
15	Mushroom	Scientific cultivation of Mushroom var. *Oyster444*	5	15	5 units
16	Tomato, Brinjal	Use of pheromones in controlling tomato fruit borer and brinjal shoot and fruit borer	5	5	3
17	Rice	Biological suppression of rice pest (BIPM package)	5	5	2
18	Bee keeping in toria	Scientific bee keeping (*Apis mellifera*) in toria for increasing toria productivity	1	3	3 units
19	Natural dye	Demonstration on application of Natural dye on cotton, silk and wool fabric	5	20	4 units
20	Fruit Harvester	Demonstration on Uses of Fruit Harvester	3	12	4 nos.
21	Vegetable Plucker	Demonstration on Women friendly Vegetable Plucker	4	16	4 nos.
22	Nutritional Gardening	Establishment Nutritional Gardening for nutritional security	2	6	6oo sqm
23	Broiler duck	Demonstration on productive performance of Vigova Super broiler duck	3	10	10 unit
24	Pigs	Demonstration of Area Specific mineral mixture (AAUVETMIN) supplementation during flushing and gestation in pigs	3	3	3 unit
25	Poultry	Demonstration on Productive performance of Turkey for lean meat production in Jorhat district	3	3	3 unit

**** 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.	Paddy	Varietal evaluation	Demonstration of newly developed submergence tolerant rice varieties Ranjit Sub-1 & Bahadur Sub 1 in the submerged areas	Kharif''18	2	2	-	8	8	-	Rainfed			
2.	Paddy	Varietal evaluation	Demonstration on Bayers Hybrid Paddy variety, Arise 6444-G	Kharif''18	0.26	0.26	-	2	2		Rainfed			
3	Maize	Crop production	Demonstration on improved cultivation practices in Maize	Rabi' 19	15	15	32			-	Rainfed			
4	Black gram	INM	Biofertilizer supplementation on production performance of kharif black gram	Kharif''18	2.5	2.5	5	5	10	-	Rainfed			
5	Vermic ompost ing	Production of organic inputs	Demonstration on Low Cost Vermicompost production Technique	Rabi' 19	5 unit	5 units	-	5	5	-	-			
6	Pumpki n	Scientific crop management	Demonstration on scientific cultivation of Pumpkin var. *Leela*	Kharif,18	0.39	0.39	-	3	3	-	Rainfed			
7	Marigol d	Scientific crop management	Demonstration on scientific cultivation of Marigold var. *Pusa Narengi Gainda*	Rabi' 18	0.19	0.19	2	1	3	-	Rainfed			
8	Tomato, Brinjal	IPM	Use of pheromones in controlling tomato fruit borer and brinjal shoot and fruit borer	Rabi' 18	3	3	7	8	15	-	-			
9	Rice	IPM	Biological suppression of rice pest	Kharif 18	1ha	1 ha	-	6	6	-	-			

c. Performance of FLD on Crops

Sl. No.	Crop	Thematic area	Area (ha)	Avg. yield (Q/ha.)		% increase in Avg. yield	Additional data on demo. yield (Q/ha.)		Data on parameters other than yield, e.g., disease incidence, pest incidence etc.		Econ. of demo. (Rs./ha.)				Econ. of check (Rs./Ha.)			
				Demo.	Check		H*	L*	Demo	Local	GC**	GR**	NR**	BCR**	GC	GR	NR	BCR
1	Demonstration of newly developed submergence tolerant rice varieties Ranjit Sub-1 & Bahadur Sub 1 in the submerged areas .semi deep water situation. Check : Kola Joha	Varietal evaluation	2	53.2 (Ranjit Sub-1) 51.7 (Bahadur Sub-1)	Damaged due to flood	Nil	55.5 52.9	49.0 47.0	Negligible Negligible		27100 27100	71820 69795	44720 42695	1.65 1.57	- -	- -	- -	- -
2	Demonstration on Bayers Hybrid Paddy variety, Arise 6444-G	Varietal evaluation	0.26	67.0	55.0 (Ranjit)	21.81	68.0	66.0	Negligible		34500	73700	29200	2.13	34500	60500	26000	1.75

Sl. No.	Crop	Thematic area	Area (ha)	Avg. yield (Q/ha.)		% increase in Avg. yield	Additional data on demo. yield (Q/ha.)		Data on parameters other than yield, e.g., disease incidence, pest incidence etc.		Econ. of demo. (Rs./ha.)				Econ. of check (Rs./Ha.)			
				Demo.	Check		H*	L*	Demo	Local	GC**	GR**	NR**	BCR**	GC	GR	NR	BCR
3	Biofertilizer supplementation on production performance of kharif black gram (HYV-PU-31)	INM	2.5	5.0	4.8	4.17	5.1	4.9	Negligible		18200	30000	11800	1.65	20800	28800	80000	1.38
4	Demonstration on improved cultivation practices in Maize	Crop production	23	In progress														
5	Demonstration on Low Cost Vermicompost production Technique	Production of organic input	5 unit	In progress														

Sl. No.	Crop	Thematic area	Area (ha)	Avg. yield (Q/ha.)		% increase in Avg. yield	Additional data on demo. yield (Q/ha.)		Data on parameters other than yield, e.g., disease incidence, pest incidence etc.		Econ. of demo. (Rs./ha.)				Econ. of check (Rs./Ha.)			
				Demo.	Check		H*	L*	Demo	Local	GC**	GR**	NR**	BCR**	GC	GR	NR	BCR
6	Pumpkin var. *Leela F1*	Scientific crop management	0.39	155	116	33.62	161	147	Negligible		2,25,000.00	6,97,500.00	4,72,500.00	3.1:1	2,17,500.00	5,22,000.00	3,04,500.00	2.4:1
7	Marigold var. *Pusa Narengi Gainda*	Sc F1ientific crop management	0.19	212	155	36.77	221	204	Negligible		192,727.00	6,36,000.00	4,43,273.00	3.3:1	1,72,222.00	4,65,000.00	2,92,778.00	2.7:1
8	Brinjal and Tomato	IPM	1 ha 1ha	320 190	260 150	23 26.6	370 220	280 180	Negligible		52000 55000	320000 190000	268000 135000	6.1 3.4	-	-	-	-
9	Mushroom Oyster 444	Varietal evaluation	50 units	2.3 kg	-	-	950 gm in one plucking	500 gm	Negligible		50 per bed	345 per bed	295	5.9	-	-	-	-

*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**	06					
	Field day under FLD on Bayers Hybrid Paddy variety, Arise 6444 - G		19.11.18	73	-	73	
	Field day under FLD on Biological suppression of rice pest (BIPM package)		27.11.2018	30	3	33	

	Field day under FLD on Mushroom cultivation var. Oyster - 444		15.12.2018	30	5	35	
	Field day under FLD on use of pheromone traps in controlling fruit borer in tomato and fruit and shoot borer in brinjal		09.02.2019	-	38	38	
	Field day under FLD on Scientific cultivation of Pumpkin var. *Leela*		26/03/19	35	15	50	
	Field day under FLD on Scientific cultivation of Marigold var. *Pusa Narengi Gainda*		27/03/19	45	5	50	
2	**Farmers Training**	3	-	51	43	94	
3	**Media coverage**	-	-	-	-	-	
4	**Training for extension functionaries**	-	-	-	-	-	
	Total			**234**	**109**	**340**	

e. Details of FLD on Enterprises

(i) Community Science

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		
-	Natural dye used: 1. Pomegranate peel 2. Marigold pestles 3. Night Jasmine	10	10 unit					

Parameters	Ressult
Colour properties Cotton Silk Wool	 Yellow (Night Jasmine) Pale yellow Colour Dark yellow
Effect of mordanting (alum)	Fix the colour adequately in all 3 types of fabrics (Using alum mordant a number of different shades can also be obtained from a single dye source)
Colour fastness	The treated samples showed excellent colour fastness properties
Farmers reaction	Farmers well accepted the technology

Fruit Harvester	Papaya	6	6 nos.	

Parameters	Results	
	Demonstration	Traditional method
Pulse rate	60-70 beats/min	80-90 beats/min
Plucking efficiency	95- 99%	70- 80%
Capacity kg/hr i. Papaya	60kg/hr	40kg/hr
Farmers reaction	Farmers accepted the fruit harvester. Farmers very much satisfied for harvesting ripen fruit like papaya, custard apple, carambola, ber etc.	

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**		
Vegetable Plucker	Brinjal, Ladies finger	4	4					

Parameter	Result	
	Vegetable plucker	Hand plucker
Pulse rate	60-70 beats/min	80-90 beats/min
Plucking rate 1. Brinjal 2. Lady's finger	 38 kg/hr 30 kg/hr	 25 kg/hr 18 kg/hr
Plucking efficiency	90-98%	70-80%
Farmers reaction	Farmers well accepted the vegetable plucker	

-	Nutritional Gardening (cabbage, tomato, brinjal, chilli, carrot etc.)	3	100 m^2/ household	

Results

Crops	Area	Yield (kg)	Cost of production (Rs)	Gross income (Rs)	Net income (Rs)	B:C ratio
Cabbage	20	80	825.00	4170.00	3320.00	4.9:1
Tomato	20	75				
Brinjal	20	82				
Chilli	20	20				
Carrot	20	16				

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

(ii) Livestock Enterprises

<table>
<tr><th rowspan="3">Sl. No.</th><th rowspan="3">Enterprise/ Category (e.g., Dairy, Poultry etc.)</th><th rowspan="3">Thematic area</th><th rowspan="3">Name of Technology</th><th rowspan="3">No. of farmers</th><th rowspan="3">No. of units</th><th rowspan="3">No. of animals, poultry birds etc.</th><th colspan="2">Major Performance parameters / indicators</th><th rowspan="3">% change in the parameter</th><th colspan="2">Other parameters (if any)</th><th colspan="4">Econ. of demo. (Rs./Ha.)</th><th colspan="4">Econ. of check (Rs./Ha.)</th><th rowspan="3">Remarks</th></tr>
<tr><th rowspan="2">Demo</th><th rowspan="2">Check</th><th rowspan="2">Demo</th><th rowspan="2">Check</th><th rowspan="2">GC **</th><th rowspan="2">GR **</th><th rowspan="2">NR **</th><th rowspan="2">BCR **</th><th rowspan="2">GC</th><th rowspan="2">GR</th><th rowspan="2">NR</th><th rowspan="2">BCR</th></tr>
<tr></tr>
<tr><td>1</td><td>Broiler duck</td><td>Breed introduction</td><td>Vigova Super broiler duck</td><td>10</td><td>10</td><td>100</td><td colspan="15"><table>
<tr><th rowspan="2">Performance parameters/ indicators</th><th colspan="2">Data on parameters in relation to technology demonstrated</th><th rowspan="2">% Chang(Wt basis)</th><th rowspan="2">Remarks</th></tr>
<tr><th>Demo</th><th>Local</th></tr>
<tr><td>1. Body weight at (1d)
2. 15 days-
3. 45 days-
4. 60 days-
5. Chick Mortality-
6. Feed intake(in 60 days)/duck-
7. FCR -
8.Gross return/duck
9.Gross cost/duck
10 B:C</td><td>0.068kg
0.390Kg
1.76kg
2.71kg
2.00%
6.16kg
2.27:1
Rs.813.0
Rs.468.0
1.73</td><td>0.053kg
0.225kg
0.635kg
0.710kg,1.50kg(8 month)
6.00%
2.75kg
3.87:1
Rs.250.0
Rs.210.0
1.19</td><td>147%</td><td>Vigova Super M also known as broiler duck is a suitable breed and can be recommended for rearing as meat purpose duck in Jorhat district</td></tr>
</table></td></tr>
<tr><td>2</td><td>Turkey</td><td>Breed Introducti</td><td>Turkey</td><td>7</td><td>7 unit</td><td>49</td><td colspan="15">In progress</td></tr>
</table>

Sl. No.	Enterprise/ Category (e.g., Dairy, Poultry etc.)	Thematic area	Name of Technology	No. of farmers	No. of units	No. of animals, poultry birds etc.	Major Performance parameters / indicators		% change in the parameter	Other parameters (if any)		Econ. of demo. (Rs./Ha.)				Econ. of check (Rs./Ha.)				Remarks
							Demo	Check		Demo	Check	GC **	GR **	NR **	BCR **	GC	GR	NR	BCR	
3	Piggery	Feed management	Mineral mixture (AAUVETMIN)	3	3 unit	30														

Performance parameters/ indicators	Data on parameters in relation to technology demonstrated		% Change	Remarks
	Demo	Non.supp		
1. Weaning age of piglet after furrowing.	2m	2m	-	Regular supplimentation of AAUVETMIN @ 30g help the sow to maintain health physiological growth with good litter health
2. Occurrence of heat from date of last furrowing.	2m28d	3m15d		
3. Gestation period	113d	114d		
4. Litter size at furrowing	9 Nos	7 Nos.		
5. Avg. weight of the litter	1.9kg	1.75		
6. Mortality	3%	12%		
7. Age at weaning	1m 18d	2m5d		
8. Weight at weaning	9.23kg	8.00		

** 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

(iv) Other enterprises

Sl. No.	Category/ Enterprise, e.g., mushroom, vermicompost, apiculture etc.	Thematic area	Name of Technology	No. of farmers	No. of units	Major Performance parameters / indicators		% change in the parameter	Other parameters (if any)		Econ. of demo. (Rs./Ha.)				Econ. of check (Rs./Ha.)				Remarks
						Demo	Check		Demo	Check	GC**	GR**	NR**	BCR**	GC	GR	NR	BCR	
1	Mushroom	Mushroom cultivation	Mushroom var. *oyster-444*	50	5														

Avg. Cost of Cultivation (Rs./Mushroom bed)	Rate (Rs./ kg)	Avg. Gross Return (Rs/bed)	Avg. Net Return (Rs/bed)	B:C Ratio
Rs. 50/-	150.00	345.00	295.00	5.9

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.

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																		
	On-Campus (1)	Spon On* (2)	Total (1+2)	General						SC/ST						Total						GT (x + y)
				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. Crop production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
II. Horticulture																						
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
III Livestock Production and Management																						
Poultry Mgt.	2	-	2	5	-	45	-	50	-	-	-	-	-	-	-	5	-	45	-	50	-	50
IV. Home Science/Women empowerment																						
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
V. Soil Science																						
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VI. Plant Protection																						
Mushroom cultivation	1	-	1	12	-	2	-	14	-	10	-	1	-	11	-	23	-	3	-	26	-	26
Bipesticides production	1	-	1	5	-	52	-	57	-	-	-	-	-	-	-	5	-	52	-	57	-	57
Biocontrol	1	-	1	10	-	5	-	15	-	6	-	6	-	12	-	16	-	11	-	27	-	27
TOTAL	**5**	**-**	**5**	**32**	**-**	**104**	**-**	**136**	**-**	**16**	**-**	**7**	**-**	**23**	**-**	**49**	**-**	**111**	**-**	**160**		**160**

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

Thematic area	No. of Courses/ prg.			Participants																		GT
	Off	Sp Off*	Total	General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
				Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	
I. Crop Production																						
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
II. Horticulture																						
a) Vegetable Crops																						
Export potential vegetables	1	-	1	19	-	6	-	26	-	-	-	-	-	-	-	19	-	6	-	25	-	25
b) Spices																						
Production and Management technology	1	-	1	19	-	16	-	35	-	-	-	-	-	-	-	19	-	16	-	35	-	35
c) Nursery management																						
Nursery raising	1	-	1	-	34	-	4	-	38	-	6	-	1	-	7	-	40	-	5	-	45	45
III. Soil Health and Fertility Management																						
Soil fertility management, Integrated Nutrient Management	3	-	3	-	--	-	-	-	-	34	-	39	-	73	-	34	-	39	-	73	-	73
IV. Livestock Production and Management																						
Poultry Mgt.	2	-	2	13	-	18	-	31	-	14	-	15	-	29	-	27	-	33	-	60	-	60
Piggery Mgt.	3	-	3	-	-	-	-	-	-	55	-	60	-	115	-	55	-	60	-	115	-	115
V. Home Science/Women empowerment																						
Value addition	1	-	1	-	-	25	-	25	-	-	-	-	-	-	-	-	-	25	-	25	-	25
VII. Plant Protection																						
IPM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IDM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	**12**	**-**	**12**	**51**	**34**	**65**	**4**	**117**	**38**	**103**	**6**	**114**	**1**	**217**	**7**	**154**	**40**	**179**	**5**	**333**	**-**	**333**

(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																	GT (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)	
Poultry	1	-	1	5	-	20	-	25	-	-	-	8	-	8	-	5	-	28	-	33	-	33
Livestock and health care	-	1	1	-	17	-	-	-	17	-	8	-	-	-	8	-	25	-	25	-	25	25
Commercial pig farming	1	-	1	-	-	-	-	-	-	16	-	9	-	25	-	16	-	9	-	25	-	25
TOTAL	**2**	**1**	**3**	**5**	**17**	**20**	**-**	**25**	**17**	**16**	**8**	**17**	**-**	**33**	**8**	**21**	**25**	**37**	**25**	**58**	**25**	**83**

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

Thematic area	No. of Courses/ Prog.			Participants																	Grand Total
				General						SC/ST						Total					
				Male		Female		Total		Male		Female		Total		Male		Female		Total	
	Off	Sp Off	Total	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	
Piggery	1	-	1	-		-	-	-	-	17	-	11	-	28	-	17	-	11	-	28	-	28
TOTAL	**1**	**-**	**1**	**-**		**-**	**-**	**-**	**-**	**17**	**-**	**11**	**-**	**28**	**-**	**17**	**-**	**11**	**-**	**28**	**-**	**28**

C. Extension Personnel

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

Thematic area	No. of Courses/ prog			Participants																		GT (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)	
Disease Mgt in Farm animal	1	-	1	17	-	-	-	17	-	4	-	-	-	4	-	21	-	-	-	21	-	21
TOTAL	**1**	**-**	**1**	**17**	**-**	**-**	**-**	**17**	**-**	**4**	**-**	**-**	**-**	**4**	**-**	**21**	**-**	**-**	**-**	**21**	**-**	**21**

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

Thematic area	No. of Courses/ prog.			Participants																		Grand Total
	Off	Sp Off*	Total	General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*		
Production and use of organic inputs	2	-	2	-	-	116	-	116	-	-	-	-	-	-	-	8	-	8	-	124	-	124
TOTAL	**2**	**-**	**2**	**-**	**-**	**116**	**-**	**116**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**8**	**-**	**8**	**-**	**124**	**-**	**124**

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 & FW/ RY/ EP and NGO Personnel)	General participants			SC/ST			Grand Total		
							M	F	T	M	F	T	M	F	T
Agronomy	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Horticulture	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Soil Science	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Plant Protection	Mushroom cultivation	Mushroom cultivation a profitable venture for self employment	19.9.18-23.9.18	5	KVK, Jorhat	F/FW	5	20	25	-	-	-	5	20	25
	Production of biopesticides	Production technology of home made botanicals and bio pesticides	16.11.18-18.11.18	3	KVK, Jorhat	F/FW	8	15	23	-	-	-	8	15	23
	Biocontrol	Organic management of insect pest of horticultural crops	23.10.18-27.10.18	5	KVK, Jorhat	F/FW	9	20	29	-	-	-	9	20	29
Animal Science	Poultry	Scientific back yard poultry farming	8.10.18	1	KVK, Jorhat	F/FW	-	31	31	-	-	-	-	31	31
		Commercial poultry farming	19.11.18-23.11.18	5	KVK, Jorhat	RY	5	20	25	-	7	7	5	27	32
	Duckery	Scientific rearing of broiler duck	18.12.18	1	KVK, Jorhat	F/FW	5	20	25	-	-	-	5	20	25
	Piggery	Scientific commercial pig farming	12.11.18-16.11.18	5	KVK, Jorhat	RY	17	-	17	4	-	4	21	-	21
	Poultry Disease management	Management and prevention of Zoonotic diseases along with biosecurity measures	18.02.19	1	KVK, Jorhat	EP	17	-	17	4	-	4	21	-	21
	Livestock and health care	Livestock management and health care	21.01.19-25.01.19	2	KVK, Jorhat	RY	17	-	17	8	-	8	25	-	25

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 & FW/ RY/ EP and NGO Personnel)	General participants			SC/ST			Grand Total		
							M	F	T	M	F	T	M	F	T
Soil Science	Soil fertility management	Soil fertility management in organic farmimg	10.10.18	1	1 No. Borgayan	F/FW	-	-	-	16	6	22	16	6	22
	INM	INM in Pulses	11.10.18	1	Morituni	F/FW	-	-	-	6	20	26	6	20	26
	Soil fertility management	Soil fertility management in organic farmimg	27.11.18	1	Darge Sonowal	F/FW	-	-	-	7	17	24	7	17	24
	Production of organic inputs	Low cost production technology of Vermicompost, enriched compost and Azolla for krishi Sakhis under ASRLM, Jorhat	12.03.19 to 13.03.19	2	Bor Ahum Gaon	EP	-	51	51	-	-	-	-	51	51
		Low cost production technology of Vermicompost, enriched compost and Azolla for krishi Sakhis under ASRLM, Jorhat	14.03.19 to 15.03.19	2	Allengmora	EP	-	65	65	-	8	8		73	73
Horticulture	Spice	Commercial production of important spice crops	21/6/18, 27/6/18, 28/6/18, 29/6/18, 06/7/18	5	Puranimotia	F/FW	19	6	25	-	-	-	19	6	25
	Nursery raising	Nursery raising techniques of winter vegetables	23/8/18 – 25/8/18	1	AAU	F/FW	34	4	38	6	1	7	40	5	45
	Vegetable production	Advance production technology of winter	29/3/19 – 31/3/19	3	Kathalbari	F/FW	19	16	35	-	-	-	19	16	35

		vegetables and their organic management													
Plant Protection	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Animal Science	Poultry	Training on scientific quail farming	20.03.19	1	Pirakata	F/FW	5	18	23	-	2	2	5	20	25
	Piggery	Scientific pig farming	22.10.18	1	Borgayan	F/FW	-	-	-	17	6	23	17	6	23
		Scientific pig farming	23.10.18	1	Baligaon,	F/FW	-		-	12	16	28	12	16	28
		Commercial pig farming	22.11.18	1	Dangdhora	F/FW	-	-	-	-	20	20	-	20	20
Home Science	Food Processing	Food processing and preservation	07.09.18 – 11.09.18	1	Dulakhoria	FW	-	24	24	-	1	1	-	25	25

(D) Vocational training programmes for Rural Youth

Crop / Enterprise	Date (From – To)	Duration (days	Area of training	Training title*	No. of Participants									Impact of training in terms of Self employment after training				Whether Sponsored by external funding agencies (Please Specify with amount of fund in Rs.)
					General			SC/ST			Total							
					M	F	T	M	F	T	M	F	T	Type of enterprise ventured into	No of units	Number of persons employed	Avg. Annual income in Rs. generated through the enterprise	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total (2)																		

*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)	Discip line	Area of training	Title	No. of Participants									Sponsoring Agency	Amount of fund received (Rs.)
							General			SC/ST			Total				
							M	F	T	M	F	T	M	F	T		
Off	F/FW	23/8/19 – 25/8/18	3 days	Hortic ulture	Nursery manage ment	Horticultural crop management and improved nursery techniques	34	4	38	6	1	7	40	5	45	Central Institude of Horticulture (CIH), Medziphema, Nagaland	1,20,000.00
Total							34	4	38	6	1	7	40	5	45		

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 2018 -19

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			60	85	40	125	40	35	75	-	-	-	125	75	200
2	Diagnostic visit	-		24	140	14	154	81	11	92	-	-	-	221	24	245
3	Field day	Field day under FLD on Bayers Hybrid Paddy variety, Arise 6444-G	19.11.2018	7	60	13	73	-	-	-	-	-	-	60	13	73
		Field day under FLD on Biological suppression of rice pest (BIPM package)	27.11.2018		20	10	30	3	-	3	-	-	-	23	10	33
		Field day under FLD on Mushroom cultivation var. Oyster - 444	15.12.2018		18	12	30	5	-	5	-	-	-	30	5	35
		Field day under FLD on use of pheromone traps in controlling fruit borer in tomato and fruit and shoot borer in brinjal	09.02.2019		-	-	-	28	10	38	-	-	-	28	10	38
		Field day under FLD on area specific mineral mixture (AAUVETMIN) supplementataion during flushing and gestation in pig	20.02.18		9	2	11	4	-	4	-	-	-	13	2	15

		Field day under FLD on Scientific cultivation of pumpkin var. *Leela*	26.03.19		20	22	42	4	4	8	1	-	1	24	26	50
		Field day under FLD on Scientific cultivation of Marigold var. *Pusa Narengi Gainda*	27.03.19		16	34	50	-	-	-	-	-	-	16	34	50
4	Group Discussion	Doubling Farmers Income, Mera gaon Mera Gaurav, TSP programme		20	112	44	156	67	22	89	-	-	-	179	66	245
5	Kishan Gosthi			-	-	-	-	-	-	-	-	-	-	-	-	-
6	Kishan Mela			1	460	138	598	367	205	572	15	-	15	842	343	1185
7	Film show	Environment Day, Awareness camp		4	276	107	383	172	115	287	-	-	-	448	222	670
8	SHG formation			-	-	-	-	-	-	-	-	-	-	-	-	-
9	Exhibition			3	612	384	996	308	296	624	20	-	20	940	680	1620
10	Scientists visit to farmers fields			161	170	90	260	40	60	100	-	-	-	210	150	360
11	Plant/ Animal Health camp			2	28	22	50	26	11	37	-	-	-	54	33	87
12	Farm science club			-	-	-	-	-	-	-	-	-	-	-	-	-
13	Ex-trainee Sammelan			-	-	-	-	-	-	-	-	-	-	-	-	-
14	Farmers seminar/ workshop			-	-	-	-	-	-	-	-	-	-	-	-	-
15	Method demonstration			25	256	164	420	111	74	185	-	-	-	367	238	605
16	Celebration of important days	World Env. Day, World Food Day, World Sparrow Day, Mahila Kisan Divas, Anatar Divas, Kisan Divas, World Yoga Day, World Soil Day, Republic Day, Independence Day, University Foundation Day	05.06.18, 16.10.18, 20.03.19, 15.10.18, 23.12.18, 20.03.19, 21.06.18, 05.12.18, 26.01.18, 15.08.18,	11	346	251	597	174	104	278	-	-	-	520	355	875

			01.04.18													
17	Exposure visits			5	55	32	87	30	39	69	-	-	-	85	71	156
18	Electronic media (CD/DVD)			-												
19	Extension literature			-												
20	Newspaper coverage			12	-	-	-	-	-	-	-	-	-	-	-	Mass
21	Popular articles	Thalua Krishi Prajukti aru Antanirhit Vigyan,Hopun Magazine		1	-	-	-	-	-	-	-	-	-	-	-	500
		Krishi Khetrat Gramin Mahila, Hopun Magazine		1	-	-	-	-	-	-	-	-	-	-	-	
		Unnata Padhatire Kol Kheti, Hopun Magazine		1	-	-	-	-	-	-	-	-	-	-	-	
		Vigyan Hanmmata Padhatire Bota Sorai (Quail) Palon, Hopun Magazine		1	-	-	-	-	-	-	-	-	-	-	-	
22	Radio talk	Soil fertility management in organic farming	13.08.18	1	-	-	-	-	-	-	-	-	-	-	-	Mass
		Livestock enterprise - Way to Entrepreneurship development	16.01.19	1	-	-	-	-	-	-	-	-	-	-	-	Mass
23	TV talk			-												
24	Training manual			-												
25	Soil health camp			1	30	10	40	15	5	20	-	-	-	45	15	60
26	Awareness camp			6	68	40	108	37	20	57	-	-	-	105	60	165
27	Lecture delivered as resource person			8	85	62	147	70	33	103				155	95	250
28	PRA			4	71	19	90	64	6	70	-	-	-	135	25	198
29	Farmer-Scientist interaction			3	308	215	523	242	110	352	-	-	-	550	325	875
30	Soil test campaign															

1. **Production and supply of Technological products during 2018 - 19**

A. SEED MATERIALS

Major group/class	Crop	Variety	Quantity (qt)	Value (Rs.)	No. of recipient/ beneficiaries		
					General	SC/ST	Total
Cereals	Sali paddy	Ranjit	9.5 q	1140	1	0	1
		Gitesh	1.75 q	-	0	0	0
		Mahsuri	9.0 q	1330	2	0	2
		Black Rice	2.15 q	3120.00	3	0	3
		Ranjit Sub – 1	1.67 q	-	0	0	0
		Bahadur Sub – 1	1.57 q	-	0	0	0
Pulses		French bean	7.5 kg	-	0	0	0
		Rajmah	30 kg	2850	5	2	7
Flowers		Marigold Flowers	2.0 kg	450	2	0	2

A1. SUMMARY of Production and supply of Seed Materials during 2018-19

Sl. No.	Major group/class	Quantity (ton.)	Value (Rs.)	Number of recipient/ beneficiaries		
				General	SC/ST	Total
1	CEREALS	2.564	3880.00	6	0	6
3	PULSES	0.0375	2850	5	2	7
5	FLOWER CROPS	0.002	450.00	2	0	2
TOTAL		**2.566**	**4330.00**	**13**	**2**	**15**

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

Major group/class	Crop	Variety	Numbers	Value (Rs.)	Number of recipient beneficiaries		
					General	SC/ST	Total
Fruits	Banana Sucker	Malbhog	150	30	1	0	1
	Pineapple sucker	Kew	200	-	0	0	0

	Dragon Fruit sapling	Red Flesh	500	16150	32	6	38
	Assam Lemon Cutting	Seedless	160 no.	4590	3	50	53
Spice	Turmeric	Megha	3.3 q	200	1	0	1
Flowers	Gerbera	Red Gem	200	50	1	0	1
	Ixora		10 no	180	3	0	3
	Bougainvillea		20 no	390	5	1	6
Plantation crops							
Sugarcane	Sugarcane		5 q	825	3	0	3
Forage Crop	Forage Crop	Setaria	30000 slips	720	5	2	7
		Congo Signal	15000 slips	20	1	0	1
		Hybrid Napier	5000 setts	270	2	1	3
OTHERS (Pl. Specify)	**-**		**-**	**-**	-	**-**	**-**
Total					**64**	**62**	**126**

B1. SUMMARY of Production and supply of Planting Materials (In Lakh) during 2018-19

Sl. No.	Major group/class	Numbers (In Lakh)	Value (Rs.)	Number of recipient beneficiaries		
				General	SC/ST	Total
1	Fruits (Thailand Apple ber)	1010 no.	20770	33	6	39
2	Spices(Turmeric)	3.3 q	200	1	0	1
8	OTHERS (Specify) Fodder	50000 no.	1010	8	3	11
TOTAL				**20**	**85**	**105**

C. Production of Bio-Products during 2018-19

Major group/class	Product Name	Species	Quantity		Value (Rs.)	Number of Recipient /beneficiaries		
			No.	(qt)		General	SC/ST	Total
BIOAGENTS								
Vermi worm		Eisenia foetida		0.30	12600	7	1	8

BIOFERTILIZERS								
Vermicompost				160	9120	9	2	11
Azolla		Azolla ***(A. caroliniana)***		4	-	0	0	0
BIO PESTICIDES				-	-	0	0	0

C1. SUMMARY of production of bio-products during 2018-19

Sl. No.	Product Name	Species	Quantity		Value (Rs.)	Number of Recipient beneficiaries		Total number of Recipient beneficiaries
			Nos	(kg)		General	SC/ST	
1	BIOAGENTS	***E. foetida***		30	12600	7	1	8
2	BIO FERTILIZERS	Vermicompost (***E. foetida)*** Azolla ***(A. caroliniana)***		16000 400	9120 -	9 0	2 0	11 0
3	BIO PESTICIDE	**-**	**-**	**-**	**-**	-	-	-
	TOTAL					**16**	**3**	**19**

D. Production of livestock during 2018-19

Sl. No.	Type of livestock		Breed	Quantity		Value (Rs.)	Number of Recipient beneficiaries		
				(Nos)	Kgs		General	SC/ST	Total
A.	Cattle/ Dairy	Cow	H F	3		-	0	0	0
		Calf	HF	3		-	0	0	0
		Bull	HF	1		-	0	0	0
		Milk			3763.25	173110	120	80	200
		Cow Servicing	HF	4		1600	3	1	4
B.	Goattery	Goat	Beetal	9		7000	1	0	1
		Goat Servicing	Beetal	49		2450	40	9	49
C.	Piggery	Pig	Hampshire	6		-	0	0	0
			Yorkshire	4		-	0	0	0
		Piglets	Hampshire	39		215000	27	8	35
		Pig Servicing	Hampshire	15		7500	10	4	14
D.	Poultry	Birds	Japanese Quail	218		14600	22	10	32
		Chicks	Japanese Quail	800		25260	35	15	50

		Rainbow	4000		517120	210	174	384
		Turkey	39		4560	3	0	3
	Table egg	Japanese Quail	758		2274	25	5	30
		Kalinga Brown	17		136	3	0	3
		White Leg Horn	22		176	2	0	2
		Turkey	28		280	2	0	2
		Kamrupa	11		88	1	1	2
	Hatching Egg	Kalinga Brown	110		1650	15	2	17
		White Leg Horn	91		1365	14	1	15
		Turkey	185		5550	24	3	27
		Kamrupa	69		1035	6	1	7
		Rainbow	6		90	1	0	1
E	Fishery Fish	Catla, Rahu etc	91.66 kg		19368	9	2	11
F.	Duckery Duck	Vigova Super M	4		1000	2	0	2
		Khaki Campbell	32		8000	12	4	16
	Table egg	Khaki Campbell	309		2472	17	5	22
	Hatching egg	Khaki Campbell	158		2370	15	2	17

D1. SUMMARY of production of livestock during 2018 – 19

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	3		-	0	0	0
	Milk			3763.25	173110	120	80	200
	Cow Servicing	HF	4		1600	3	1	4
B.	SHEEP & GOAT	Beetal	9		7000	1	0	1
	Goat servicing	Beetal	49		2450	40	9	49
C.	POULTRY Birds	Japanese Quail	218		14600	22	10	32
	Chicks	Japanese Quail	800		25260	35	15	50
		Rainbow	4000		517120	210	174	384
		Turkey	39		4560	3	0	3
	Table egg	Japanese Quail	758		2274	25	5	30
		Kalinga Brown	17		136	3	0	3

		White Leg Horn	22		176	2	0	2
		Turkey	28		280	2	0	2
		Kamrupa	11		88	1	0	1
	Hatching egg	Kalinga Brown	110		1650	15	2	17
		White Leg Horn	91		1365	14	1	15
		Turkey	185		5550	24	3	27
D.	PIGGERY Pig	Hampshire	6		-	0	0	0
		Yorkshire	4		-	0	0	0
	Piglet	Hampshire	39		215000	27	8	35
	Pig Servicing	Hampshire	15		7500	10	4	14
E.	FISHERIES	Magur,Rahu, Katla, Grass carp, Silver carp etc.	91.66 kg		19368	25	4	29
F.	Duckery Duck	Vigova Super M	4		1000	2	0	2
		Khaki Campbell	32		8000	12	4	16
	Table egg	Khaki Campbell	309		2472	17	5	22
	Hatching egg	Khaki Campbell	158		2370	15	2	17
	TOTAL					**628**	**327**	**955**

3.6. Literature Developed/Published (with full title, author & reference) during 2018-19

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

(B) Articles/ Literature developed/published

Item	Title /and Name of Journal	Authors name	No. of copies
Research papers	**-**	**-**	
Abstract	**-**	-	
Training manuals	-	-	
Instruction Manual	-	-	
Technical Report	-	-	
Book/ Book Chapter	-	-	
Item	**Title /and Name of Journal**	**Authors name**	**No. of copies**
Popular articles	Thalua Krishi Prajukti aru Antanirhit Vigyan,Hopun Magazine	Dr. P. Nath, Head, KVK, Jorhat	500
	Krishi Khetrat Gramin Mahila, Hopun Magazine	Ms. Binapani Deka, SMS, KVK, Jorhat	500
	Unnata Padhatire Kol Kheti, Hopun Magazine	Ms. Sharmistha Borgohain, SMS, KVK, Jorhat	500
	Vigyan Hanmmata Padhatire Bota Sorai (Quail) Palon, Hopun Magazine	Dr. Prabhat Baruah, SMS, KVK, Jorhat	500
Technical bulletins	-	-	
Newsletter	-	-	-
Conference/ workshop proceedings		-	-
Leaflets/folders	-	-	-
e-publications	-	-	-

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

(C) Details of Electronic Media Produced: Nil

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number produced
1.			

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)

Commercial production of Indigenous chicken chicks through self made hatching incubator:

The backdrop: Tipomia village is a typical pristine Assamese village situated in Kaliapani Development Block in the district of Jorhat. Winter paddy is the main cereal crop of the village though other crops like potato, pulses etc. are also grown. Each homestead garden (*Bari*) of the village has various crops like banana, Assam lemon, areca nut, coconut, various minor fruit species, bamboo and agar plants which to some extent supplement livelihood of the farmers. Commercial cultivation of seasonal vegetable is however a major source of earning of the villagers which are sold to the nearby markets.

Animal husbandry is another source of income for the farmers and almost every household have animals like cattle, goat and backyard poultry Local indigenous chicken has a huge market demand. The sale of local chicken as well as eggs is a major source of subsidiary income and which also provides nutritious chicken egg and meat for their family consumption. However, due to lack of organized market and non availability of quality chick's farmers are unable to produce to meet the market demand. By seeing the market demand and profit margin, many farmers producing broiler chicken are interested to shift their farm to local which will also help the farmers to grow up their business in terms of egg and meat production.

The emerging agro entrepreneur: **Mr. Rantu Phukan** is a youth from Tipomia village in the Kaliapani area. He always had an inclination towards agriculture. Once he completed his schooling, due to financial hardship and need to support his parents and siblings he could not continue his studies and decided to adopt various livelihood activities to support his parents. He has completed a three month motor mechanical training course and started his motor mechanic work. But his ambition was to be become self sufficient by doing something innovative in the field of farming. From the year 2011 he was helping his father to run up the small poultry farm however, he could hardly earn enough to support his family. Subsequently he diversified into various other livelihood activities like small tea cultivation, bee keeping, fishery, duckery etc. He received all the technical guidance from KVK, Jorhat in this venture. He started chick production by making an incubator in an ordinary thermocol box and kerosene lamp and able to produce few chicks in the first batch. Boosted up by the success to produce chicks, he looked for improving his ventures for further enhancing his farm income and that's when KVK, Jorhat advised him to take up local chicken chick's production unit as a commercial venture. The KVK provided him all the technical knowhow and showed him the possible forward market linkages for his produce.

His Debut in hatching business: During the year 2013-14, Mr. Phukan make an incubator fitted with kerosene lamp and start producing chicks. In the first batch 65 chicks hatched out of 120 eggs. He was continuously improving his incubator and he was continuously producing the chicks in a small scale and supplied to the farmers from the neighboring villages. In the year 2016, he made a kerosene incubator of 2000 egg capacity to take up the venture in to a new height. But kerosene incubator is labor intensive and hatching percentage is also low. So, he tried to change it with electrical filament and gradually improved its quality. He used all the scientific interventions suggested by the KVK to improve upon. Presently he is producing 3000 local chicken chicks every month and earning an average net income of 50,000.00 per month. During the financial year 2018-19, he has generated an income of Rs. 4 lakh by selling quality chicks to the farmers of Jorhat and nearby districts. He is also fabricating incubator and spreading his business by selling the incubators of different caoacity and getting a good market response. A farmer can buy an incubator from him at a very affordable price. He has also established a local chicken poultry farm for egg production. He is also buying back the local eggs in a good price from the farmers for his hatchery.

Way forward: His success in commercial local chicken chick's production made a big sensation in his village particularly among rural unemployed youths. Seeing his success, many young farmers and rural youth of the locality is taking up the business for production of chicks of Japanese quail, local chicken, turkey and duck. During the year 2018-19, he participated in the district Kisan Mela organized by KVK, Jorhat and received the progressive farmer award in

the field of veterinary science. He is now in the process of expanding his business and targeting to produce 10,000 chicks per month also to take up his business in to a new height.

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 *Bhatghila* [*Oroxylumindicum* (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' (*Polygonum hydropiper*) or 'Bihdhekia' (*Sphaerostiphnosunitus*) 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 *Kola kachu* (*Colocasia esculanta* Black) and fresh cowdung	Management of case worm problem of rice
5	Rice	Keeping the stubbles of *Boro* rice undisturbed avoiding ploughing and grazing by the cattle for 1 - 1½ months. The practices is usually practised in traditional varieties grown in low lying (beel) areas	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"/*germani bon* (*Chromolena odorata*) leaves along with detergent soap in banana plant	To control banana weevil
8	Banana	The juice of *gundhowa bon*, (*Ageratum conizoides*) is sprayed on banana plant	To get rid of leaf and fruit scarring beetle of banana
9	Potato	First spread a layer of dried 'Dhekia' leaves on the floor, then keep a layer of tuber seed and then again cover it with another layer of wild Dhekia leaves	This helps in repelling Potato tuber moth infestation.

10	Aphid and pod borer infestation in vegetables	Foliar application of wood ashes in the wee hours of the day keeps away aphids pod borers and diseases from plants (vegetables)	Thin film of ash coat with dew inhibits the attacks of pest and pathogens. Ash also act as nutrient

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 : 6
ii. No. of farm families selected : 860
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 Chemic Pvt. Limited	1	72000.00
Total		Mridaparikshak		1	72000.00

3. Details of samples analyzed (2018- 19) :

Details	No. of Samples analysed	No. of Farmers	No. of Villages	Amount (In Rupees) realized
Soil Samples	180	380	9	-
Water Samples	-	-	-	-
Plant Samples	-	-	-	-
Petiole Samples	-	-	-	-
Total	**180**	**380**	**9**	-

1. Details of Soil Health Cards (SHCs) (2018-19)

a. No. of SHCs prepared: 180
b. No. of farmers to whom SHCs were distributed: 180
c. Name of the Major and Minor nutrients analysed: N, P, K, S, pH, OC, EC, Fe, Zn, B.
d. No. of villages covered : 9
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 Ben eficiary	No. of Message	No. of Benef iciary	No. of Message	No. of Benef iciary	No. of Message	No. of Benefi ciary	No. of Message	No. of Benef iciary	No. of Message	No. of Benef iciary	No. of Message	No. of Benefi Ciary
Text only	25	25000	15	15000	6	6000	4	4000	12	12000	8	8000	70	70000
Voice only	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Voice & Text both	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	**25**	**25000**	**15**	**15000**	**6**	**6000**	**4**	**4000**	**12**	**12000**	**8**	**8000**	**70**	**70000**

3.14 Contingency planning for 2018-19

a. Crop based Contingency planning

Contingency (Drought/ Flood/ Cyclone/ Any other please specify)	Proposed Measure	Proposed Area (In ha.) to be covered	No. of beneficiaries proposed to be covered		
			General	SC/ST	Total
Drought due to delay in monsoon	Introduction of new variety or crop				
1. Monsoon delay by 4 weeks, i.e. 1st week of July	Staggered planting var. viz. Prafulla, Gitesh (Quality seeds from RARS, Titabor, AAU, Jorhat), Irrigate the seedbed and nursery raising in community basis, Trainings	50.00	80	40	120
2. Monsoon delay by 6 weeks, i.e. 3rd week of July	Manohar Sali, Andrew Sali etc. and close spacing, increase no. of seedlings per hill, irrigation, Short duration variety: Luit, Dishang, Kapili etc	50.00	70	30	100
3. Monsoon delay by 8 weeks, i.e. 1st week of August	Short duration var. Luit, Broad casting of sprouted seeds, irrigation	40	50	30	80
	Introduction of Resource Conservation Technologies				
	RCT like Mulching, Drip irrigation in horticultural crops like banana, Assam lemon, Awareness training	5	40	10	50
	Distribution of seeds and planting materials	3	35	15	50
	Distribution of seeds of short duration varieties like Luit for direct sowing of sprouted seeds	5	25	10	35
	Establishment of Community nursery near assured water source for varieties like Gitesh , Prafulla, Luit, Dishang, Kanaklata etc for free distribution of seedling	1	60	30	90

a. Livestock based Contingency planning

Contingency (Drought/ Flood/ Cyclone/ Any other please specify)	Number of birds/ animals to be distributed	No. of programmes to be undertaken	No. of camps to be organized	Proposed number of animals/ birds to be covered through camps	Number of beneficiaries proposed to be covered		
					General	SC/ST	Total
Drought	-	-	-	-	-	-	-
Flood	-	07 (Awareness cum animal health camp)	07	1923	320	200	520

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)	25	100	18750	31700
Rice-toria double cropping with medium duration HY *Sali* rice var. TTB-404	22	100	18100	29150
Direct seeded Sali paddy var. Luit	35	100	10000	12250
Boro paddy variety 'Kanaklata'	20	100	107440	125890
Sali Paddy Var. Gitesh & Swarna sub-1	135	100	18750	31700
Toria (variety : TS- 36)	100	100	25000	32000
Lentil var. Moitree, KLS 218	20	100	11000	20800
Sugarcane (Variety –Kalang, Borak, Dhansiri, Kapilipar & Doria)	20	100	107440	125890
Black gram (variety PU-31)	100	100	11090	25800
Green gram (variety IPM02-3, SGC-16)	100	100	12000	27800
Mushroom (Oyster)	150	100	15000	35000
Vermicompost	40	100	-	17000

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

4.2. Cases of large scale adoption

(Please furnish detailed information for each case)

Activity	Methodology used for analysis	Impact
Demonstration on Sali paddy (var Gitesh &Swarna sub-1)	Observation and Group Discussion	▪ After observing the outstanding performance of demonstrated variety, the farmers become interested to go for large scale cultivation of that varieties in the forthcoming season. ▪ Farmers accepted the technology and farmers of the nearby locality also adopted the technology.
Demonstration on toria var. TS-36	Group discussion	▪ Farmers of Majuli, Janjimukh and Borkhelia area showed interest towards the technology after getting benefited economically through cultivation of toria. Farmers exhibited keen interest towards the toria var. TS- 36.
Advisory services on organic management of Bhut Jalakia	Observation and personal contact	▪ Many farmers of local area were benefited from the advisory services and have adopted the recommended management practices
Advisory services on organic cultivation of aromatic rice variety *Kon Joha*	Observation and personal contact	▪ Many farmers of local area were benefited from the advisory services and have adopted the recommended package & 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, trainings, PRA, Awareness programme
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,

	farmers interview
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 , Titabar	Source of foundation and breeder seeds for all varieties of paddy. Paddy related technology transfer and advisories, joint on farm testing of pipeline varieties
15. Jorhat Milk Union Limited under PURABI diary	In planning and organizing training programme

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 2018-19

Name of the scheme	Activity	Date/ Month of initiation	Funding agency	Amount (Rs.)
Promotion of Agriculture Centric sustainable livelihood security for Tribal farmers of Assam	i. Survey of 5 TSP adopted villages completed ii. Paddy cultivation iii. Maize cultivation **iv.** Pig sty were constructed and piglets selected **v.** Poultry beneficiaries were selected Vi. Beneficiaries and plots for horticultural crops were selected	2018-19	ICAR	42,00,000.00

5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district Yes

Sl. No.	Programme	Nature of linkage	Remarks
1	Governing Body, ATMA, Jorhat	Member	
2	Training	As Resource persons	
3	Farmers – Scientists Interaction	As Resource persons	
4	Field Day	Collaborative programme	
5	Diagnostic field visit	As specialists	

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

S. No.	Programme	Nature of linkage	Constraints if any

5.4 Nature of linkage with National Fisheries Development Board : Nil

S. No.	Programme	Nature of linkage	Remarks

6. PERFORMANCE OF INFRASTRUCTURE IN KVK DURING 2018 -19

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	3763.25 ltre	149244.00	173110.00	
					Cow servicing	4 no		1600.00	
2.	Vermicompost unit	2010	46.80	-	Vermicompost	16000 kg	3000.00	9120.00	
					Vermiworm	30 kg		12600.00	
3.	Poultry Unit	2011	44.40	White Leg Horn	Hatching egg	91		1365.00	
					Table egg	22		176.00	
				Kalinga brown	Hatching eggs	110		1650.00	
					Table egg	17		136.00	
				Turkey	Poult	39		4560.00	
					Hatching egg	185		5550.00	
					Table egg	28		280.00	
				Rainbow	Chicks	4000	360942.00	517120.00	
				Japanese quail	Chicks	800		25260.00	
					Birds	218		14600.00	
					Eggs	758		2274.00	
				Khaki Campbell	Duck	32		8000.00	
					Hatching egg	158		2370.00	
					Table egg	309		2472.00	
					Duckling	-		-	

				Vigova Super M	Duck	4		1000.00	
					Duckling	-		-	
4.	Goattery unit	2011	34.20	Beetal	Beetal/ Local	9	1258.00	7000.00	
					Goat servicing	49		2450.00	
5.	Piggery unit	2010	41.04	T & D, Hampshire	Pig	6	234836.00	-	
					Piglet	39		215000.00	
					Pig servicing	15		7500.00	-
				Yorkshire	Pig	4		-	
6.	Fish pond	2011	0.13	Indian Major Carp	Big fish	77.66 Kg	3400.00	15168.00	
7.	Rice- Fish-Vegetable Unit	2010	50m x 20m	Local Fish	Magur etc.	14.00 kg	-	4200.00	
8.	Azolla production unit	2012	9.9m X 5.5m	Azolla caroleniana	Azolla Compost	200 kg	500.00	-	
9.	Vermi Compost production Unit	2012	9.6m X 5m	-	Compost	16000 kg		9120.00	
					Vermiworm	30 kg	3000.00	12600.00	

6.2 Performance of instructional farm (Crops) including seed production

Name of the crop	**Date of sowing**	**Date of harvest**	**Area (ha)**	**Details of production**			**Amount (Rs.)**		**Remarks**
				Variety	Type of Produce	Qty.	Cost of inputs	Gross income	
Cereals									
Rice	May-Jun-2018	Nov-Dec 2018		Ranjit	FS	9.5 q	44740.00	3880.00	In Stock
				Mashuri	FS	9.0 q			
				Gitesh	FS	1.75 q			
				Black Rice	TLS	2.15 q			
				Ranjit Sub – 1	FS	1.67			
				Bahadur Sub – 1	FS	1.57			
				Total		**25.64**			
Pulses	Oct,18	Jan, 19	0.003	White Rajmah	Seed	30 kg	1500.00	2850.00	6.25 kg in stock
	Oct,18	Jan, 19	0.002	White French Bean	Seed	7 kg		-	In stock
Spices & Plantation crops									

Turmeric	May, 18	Jan, 19	0.003	Megha Turmeric	Rhizome	3.3 q	1500.00	150.00	In stock
Floriculture									
Gerbera	Sept, 18		0.001	Red-gem	Sucker	200	-	50.00	In stock
Fruits									
Pineapple	April, 17		0.01 ha	Kew	Sucker	100	3450.00	-	In stock
Banana	April, 17		0.01	Malbhog	Sucker	150		30.00	In stock
Dragon Fruit	April,16		0.03 ha	Redflesh	Sapling	500		16150.00	
Assam Lemon	April,16		0.13 ha	Seedless	Cutting	160		4590.00	
Papaya	April, 18		0.04 ha	Viena	-	-		-	
a. Others									
Sugarcane	2016	Ratoon	0.13	Nambor, Doria, Borak, Dishang	Setts	5 q	-	825	In stock
Fodder crop	2015		0.4	Congo Signal Setaria Hybrid Napier	Slips Slips Setts	30000 15000 5000	1250.00	20.00 720.00 270.00	In stock

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	30 kg	3000.00	9120.00	In stock
2	Vermicompost	16000 kg		12600.00	Farm Use
3	Azolla	400 kg	500.00	-	Farm Use
	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	3763.25 litre	149244.00	173110.00	
			Cow servicing	4 no		1600.00	
2.	Vermicompost		Vermi Compost	16000 kg	3000.00	9120.00	
			Vermiworm	30 kg		12600.00	

3.	Poultry	White Leg Horn	Hatching egg	91	360942.00	1365.00	
			Table egg	22		176.00	
		Kalinga brown	Hatching eggs	110		1650.00	
			Table egg	17		136.00	
		Turkey	Poult	39		4560.00	
			Hatching egg	185		5550.00	
			Table egg	28		280.00	
		Rainbow	Chick	4000		517120.00	
		Japanese quail	Chick	800		25260.00	
			Bird	218		14600.00	
			Eggs	758		2274.00	
		Khaki campbell	Duck	32		8000.00	
			Hatching egg	158		2370.00	
			Table egg	309		2472.00	
		Vigova Super M	Duck	4		1000.00	
4.	Goattery	Beetal buck	Beetal/ Local/ Sirohi	9	1258.00	7000.00	
			Goat servicing	49		2450.00	
5.	Piggery	T & D, Hampshire	Pig	6	234836.00	-	
		Yorkshire		4		-	
		T& D, Hampshire	Piglet	39		215000.00	Sold 55 nos.
6.	Fish		Big fish	77.66 kg	3400.00	15532.00	
7.	Rice- Fish		Magur etc.	14.00 kg	-	4200.00	
8.	Azolla	Azolla caroleniana	Azolla Compost	400 kg	500.00	-	Farm use
9.	Compost production	-	Vermi Compost	16000 kg	3000.00	9120.00	Farm use
			Vermiworm	30 kg		12600.00	In stock

6.5 Rainwater Harvesting

Training programmes conducted by using Rainwater Harvesting Demonstration Unit : Nil

1. **Utilization of hostel facilities (Month-Wise) during 2018-19 :**

Name of the Training	Duration	No. of persons staying
Commercial Poultry Farming	5 days (16.11.18- 20.011.18)	20
Guest Staying	3 days (18.03.19- 20.03.19)	11

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 2018 -19

S. No.	Particulars	Sanctioned (in Lakh)	Released (in Lakh)	Expenditure (in Lakh)
A. Recurring Contingencies				
1	Pay & Allowances	110.00	110.00	104.87475
2	Traveling allowances	2.50	2.50	1.65225
3	Contingencies	15.50	15.50	14.96925
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)			3.17624
B	POL, repair of vehicles, tractor and equipments			1.17427
C	Meals/refreshment for trainees			1.15024
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)			0.86260
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)			1.66860
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)			1.41739
G	Training of extension functionaries			0.69820
H	Misc.			0.30196
I	Other Maintenance			4.51975
J	Establishment of Soil, Plant & Water Testing Laboratory			-
K	Library			-
	TOTAL (A)			**136.4655**
B. Non-Recurring Contingencies				
1	**Works**			
2	**Equipments including SWTL & Furniture**			-
3	**Vehicle** (Four wheeler/Two wheeler, please specify)			-

4	**Library** (Purchase of assets like books & journals)			-
TOTAL (B)				**-**
C. REVOLVING FUND				10.05939
GRAND TOTAL (A+B+C)				**146.52489**

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

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year
April 2016 to March 2017	2,20,216.00	8,27,494.00	8,15,420.00	2,32,290.00
April 2017 to March 2018	2,32,290.00	12,66,219.23	12,25,317.00	2,73,191.79
April 2018 to March 2019	2,73,191.79	12,56,045.00	10,05,939.00	5,23,297.79

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, 2018-19 :

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) /	B:C Ratio (GR/GC)
	H	**L**	**A**	**(Qt/Ha)**	**%**				
Cluster demonstration of Rabi Oilseeds(Toria) under NMOOP Location: **Borkhelia, Jhanjimukh, Patiagaon, Kakarikota** Area : 30 ha No.s of farmers : 65									
Variety: TS-36 , INM practices (Bio-fertilizer: PSB & Azotobacter) & FYM under Rice-Fallow situation, Soil amendment (Lime), Micronutrient (Borax @ 7.5 kg/ha)	10.78	8.95	9.89	6.78	45.87	16,250.00	31,648.00	15,398.00	1.94:1
Cluster demonstration of Kharif Pulses (Black gram) under NFSM Location :**Jugunidhari, Malapindha Koibarta Gaon, Gual Gaon, Malapindha Bormukal** Area : 30 ha No.s of farmers : 42									
VARIETY: PU31 TECHNOLOGY DETAILS: High Yielding variety PU-31, INM Practices (Seed inoculation with Rhizobium@50g/kg seed, FYM @ 3-4 t/ha, Vermicompost 1 t/ha & Lime @65.5 kg/ha as soil amendment SEED RATE: 18 kg/ha FERTILIZER: Chemical fertilizer not applied PLANT PROTECTION MEASURES: No significant pest & disease attack during that period. TIME OF SOWING : 22.09.18 to 02.10.18 TIME OF HARVESTING: 25 .12.18 to 07.01.19 ANY OTHER INFORMATION: Positive response towards the technology.	6.4	5.3	5.8	4.1	41.46	26200	46400	20200	1.77

Cluster demonstration of Kharif Pulses (Green gram) under NFSM Location :**Jugunidhari, Malapindha Koibarta Gaon, Gual Gaon,** Area : 20 ha No.s of farmers : 32									
HYV-IPM02-3, TECHNOLOGY DETAILS: High Yielding variety IPM 02-3, Integrated Nutrient Management Practices (Seed inoculation with Rhizobium@50g/kg seed) & FYM @ 3-4 t/ha, Vermicompost 1 t/ha & Lime @65.5 kg/ha as soil amendment SEED RATE:18 kg/ha FERTILIZER: Chemical fertilizer not applied PLANT PROTECTION MEASURES: No significant pest & disease attack during that period. TIME OF SOWING : 22.09.18 to 02.10.18 TIME OF HARVESTING : 25 .12.18 to 07.01.19 ANY OTHER INFORMATION: Positive response towards the technology	5.1	4.8	4.9	3.7	32.4	26200	49000	22800	1.87
Cluster demonstration of Rabi Pulses (Field Pea) under NFSM Location :**Bhalukmara (Pahumara), Baghar chuk, Gayan gaon, Grezing Chapori** Area : 10 ha No.s of farmers : 57									
VARIETY: Prakash TECHNOLOGY DETAILS: High Yielding variety Prakash, Integrated Nutrient Management Practices (Seed innoculation with Rhizobium@50g/kg seed, FYM @ 3-4 t/ha, Vermicompost 1 t/ha & Lime @65.5 kg/ha as soil amendment under Rice- Fallow and rice utera situation, SEED RATE: 50 kg/ha FERTILIZER: Chemical fertilizer not applied	13.10	11.53	12.67	7.9	60.37	28000	44345	16345	1.58

PLANT PROTECTION MEASURES: No significant pest & disease attack during that period. TIME OF SOWING: 07.11.18 to 29.11.18 TIME OF HARVESTING : 01.03.19-8.3.19 ANY OTHER INFORMATION: Positive response to the technology									
Cluster demonstration of Rabi Pulses (Lentil) under NFSM Location :**Abani Chapori, Kulamuwa, Balijan** Area : 10 ha No.s of farmers : 56									
HYV – KLS 218, VARIETY/TECHNOLOGY DETAILS: High Yielding variety KLS 218, Integrated Nutrient Management Practices (Seed innoculation with Rhizobium@50g/kg seed) & FYM @ 3-4 t/ha, Vermicompost 1 t/ha & Lime @65.5 kg/ha as soil amendment under Rice- Fallow and rice utera situation, SEED RATE: 30 kg/ha FERTILIZER: Chemical fertilizer not applied PLANT PROTECTION MEASURES: No significant pest & disease attack during that period. TIME OF SOWING: 07.11.18 to 29.11.18 TIME OF HARVESTING : 01.03.19-8.3.19 ANY OTHER INFORMATION: Positive response to the technology	7.51	6.68	7.1	5.1	39.21	23270	39050	15780	1.67

Seed Production under Pulse Seed Hub, 2018-19:

Crop	Area	Technology	Location
Kharif Black Gram	30 ha	HYV-PU-31,, Integrated Nutrient Management Practices (Bio-fertilizer: Rhizobium) & FYM , Lime as soil amendment, IPM	Birinabari, Chengelibari, Kordoiguri, Chittadar Chuk,

Kharif Green Gram	20 ha	HYV: SGC-16, Integrated Nutrient Management Practices (Bio-fertilizer: Rhizobium) & FYM, Lime as soil amendment, IPM	Grezing chapori,
Field Pea	10 ha	HYV-Prakash, Integrated Nutrient Management Practices (Bio-fertilizer: Rhizobium) & FYM, Lime as soil amendment, IPM	Allengi, Balichapori, Modarguri, Mohkina

Physical Progress of Pulse Seed Hub:

Crop	Target (q)	Variety	Class of Seeds	Area (ha)	Production(q.)	Seed buy back (q)	Remarks
Black gram (Kharif)	200q	PU 31	CS	20	15.0	nil	Could not be bought back due to very poor germination percentage, very poor seed setting after flowering
Green gram (Kharif)	200 q	SGC 16,	CS	30	nil	-	No seed setting after flowering
Field Pea	30 q	Prakash	TL	10	10.0	nil	Could not be bought back due to very poor germination percentage

Assets creation under Pulse Seed Hub:

Assets creation	Physical (Nos)	
	Target	Achieve
Seed processing plant	Processing unit with seed grader, bucket elevator and weighing and bagging system	Completed
Godown	RCC godown with cooling facility and semi covered threshing floor	Completed

Financial Progress of Pulse Seed Hub:

Financial Year	Amount Received (In Lakhs)	Opening balance (A)	Revenue Earned (Rs)	Expenditure (In Lakhs)	Closing Balance (In Lakhs)
2016-17	35,00,000 as Revolving Fund	35,00,000	-	3,69,039.00	31,30,961.00
2017-18	-	31,30,961.00	496358.50	8,21,978.50	28,05,341.00
2018-19	-	28,05,341.00	8,87,150.00	47,809.00	37,85,665.00

8.1 Constraints

(a) Administrative: None

(b) Financial: Delay in release of fund from ATARI for the financial year. Generally the first release is during June –July but our season's activities start 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.

(P. Nath)
Principal Scientist cum Head
KVK, Jorhat

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.