PROFORMA FOR ANNUAL REPORT OF KVKS, 2017-18

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail
Krishi Vigyan Kendra, Assam Agricultural University, Simaluguri, Nagaon, Assam Pin: 782002	Office 03672-225384	FAX 03672-225384	**kvk_nagaon@aau.ac.in**

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

Address	Telephone		E mail
	Office	FAX	vc@aau.ac.in
Assam Agricultural University, Jorhat, Assam Pin- 785013	0376-2340013	0376-2340001	

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

Name	Telephone / Contact		
Dr. Niranjan Deka Head	Residence	Mobile	Email
	-	94350-66297	kvk_nagaon@aau.ac.in

1.4. Year of sanction:

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

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category (SC/ST/ OBC/ Others)
1	Programme Coordinator	Dr. Niranjan Deka	PC	Entomology	37400-67000	70720	04.07.04	Permanent	Gen
2	Subject Matter Specialist	Ms. Seema Bhagowati	SMS	Soil Science	15600-39100	27390	10.11.08	Permanent	Gen
3	Subject Matter Specialist	Ms. Sibani Das	SMS	Horticulture	15600-39100	25810	10.11.08	Permanent	SC
4	Subject Matter Specialist	Ms. Priyanka Nath	SMS	Home Science	15600-39100	27390	12.11.08	Permanent	OBC
5	Subject Matter Specialist	Ms. Sinki Barman	SMS	Agril. Economics	15600-39100	22280	03.02.14	Permanent	Gen
6	Subject Matter Specialist	Ms Bonti Gogoi	SMS	Agronomy	15600-39100	21630	19.10.15	Permanent	OBC
7	Subject Matter Specialist	-	SMS	-	15600-39100	-	-	-	-
8	Programme Assistant	Mr. Dhiren Nath	P A (Fisheries Sc)	Fishery Sc.	8000-35000	24590	10.10.01	Permanent	OBC

9	Computer Programmer	Mr. Deepak Kr. Goswami	P A (Comp.)	Computer	8000-35000	18920	01.12.08	Permanent	Gen
10	Farm Manager	Mr. Nayan Jyoti Bordoloi	Farm Manager	Agriculture	8000-35000	18360	10.12.09	Permanent	Gen
11	Accountant / Superintendent	Mr. Luhit Baruah	Acountant	Agri-Bussiness	8000-35000	13690	10.11.14	Permanent	Gen
12	Stenographer	Ms. Pranita Deka	Jr. Steno cum comp operator	-	5200-20200	11220	21.02.12	Permanent	OBC
13	Driver	Mr. Mahesh Senapati	Driver	-	5200-20200	9390	05.01.10	Permanent	OBC
14	Driver	Mr. Robin Borah	Driver	-	5200-20200	9390	14.03.12	Permanent	OBC
15	Supporting staff	Mr. Som Chandra Bora	Grade-IV	-	5200-20200	12310	01.03.06	Permanent	OBC
16	Supporting staff	Mr. Bhuban Ch. Deka	Grade-IV	-	4560-15000	11880	01.03.06	Permanent	OBC

Note: No column in the table must be left blank

1.6. a. Total land with KVK (in ha) :13.0

b. Total cultivable land with KVK (in ha):8.0

c. Total cultivated land (in ha):7.5

S. No.	**Item**	**Area (ha)**
1	Under Buildings (Administrative building+ Farmers' Hostel+ Staff Quarters)	0.86 ha
2.	Under Demonstration Units	1.1 ha
3.	Under Crops (Cereals, pulses, oilseeds etc.)	7.44 ha
4.	Under vegetables	0.06 ha
5.	Orchard/Agro-forestry	0.36 ha
6.	Others (specify)	

1.7. Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of	Stage	
			Complete	Incomplete

		funding	Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	Construction of Administrative building of KVK, Nagaon is completed.						
2.	Farmers Hostel	No facility. Presently Attached with RARS, Shillongani						
3.	Staff Quarters (6)	No facility. Presently Attached with RARS, Shillongani						
4.	Demonstration Units (2)	RKVY	Mar, 2012	-	-	-	-	Completed
5	Fencing	-	-	-	-	-	-	-

B) Vehicles

Type of vehicle	**Regd. No.**	**Year of purchase**	**Cost (Rs.)**	**Total kms. Run**	**Present status**
Jeep	AS 03E 0035	2006	490503.00	96598	Needs replacement
Tractor	AS 02B 2704	2003	297213.00	3650 (meter not working at present)	Not working properly needs replacement of a new tractor along with a tractor trolley.

C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
I. Soil & Water testing Equipments			
Auto Analyzer	2007	248484.00	Out of order
Mechanical Shaker (150ml cap)	2007	22278.00	
Water Distillation Set	2007	39280.00	
Plant Sample Grinder	2007	15750.00	
Spectrophotometer	2007	26424.00	
pH meter	2007	8307.00	Good
Conductivity meter	2007	9757.00	Out of order
Hot plate	2007	3375.00	Good
Pen pH meter	2007	3000.00	Good
Chemical Balance	2007	32500.00	Good
Physical Balance (5.0kg)	2007	4500.00	Good
Physical Balance (2.5 kg)	2007	3000.00	Good
Mechanical Shaker	2007	18563.00	Good
Hot Air Oven	2007	21330.00	Good
Flame Photo meter	2007	25301.00	Out of order

Refrigerator	2008	14062.00	Good
Laminar flow	2011	57930.00	Good
Hot air oven	2011	36888.00	Good
BOD incubator	2011	122131.00	Good
Autoclave	2011	93638.00	Good
Rotary Checker	2011	28375.00	Good
Electronic Balance	2011	9591.00	Good
Pocket Ph Meter	2011	2270.00	Good

List of farm equipment	Year of purchase	Cost (Rs.)	Remarks
Power tiller	2009	273022.00	Good
Motorized Knapsack	2009	22360.00	Good
Mechanized brush cutter	2009	28000.00	Good
Multipurpose Power weeder	2009	42078.00	Good
Power paddy weeder	2009	36254.00	Good
Earth Augar	2009	56749.00	Good
8 row self propelled rice transplanter	2009	188198.00	Good
Knapsack power duster back cushion and padded shoulder strap	2009	7696.00	Good
Knapsack Sprayer (Brass)-16 lits.	2009	2100.00	Good
Rota vator	2009	191610.00	Good
Fingerling catching net	2009	19912.00	Good
Drag net	2009	42300.00	Good
Pump set	2009	17670.00	Good
Disc Harrow	2009	35256.00	Good
Disc plough	2009	27030.00	Good
Puddler	2009	25896.00	Good
Chaft cutter	2009	15496.00	Good
Spring tyne cultivator	2009	29744.00	Good
Power sprayer pump	2009	9708.00	Good
Accessories of power tiller	2009	112820.00	Good
Monoblock Pumpset	2009	3744.00	Good
Paddle operated paddy thresher	2009	11250.00	Good
Seed Cleaner	2009	325476.00	Good
Sprinkler irrigation system	2009	71000.00	Good
Wheel barrow	2010	5175.00	Good
Sealing Machine	2012	2838.00	Good
Dripkit	2012	958.00	Good

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.	15.03.17	1. Dr. H. C. Bhattacharyya, Director of Extension Education, AAU, Jorhat-13 2. Dr. A. K. Tripathi, Director, ATARI, Zone- VI 3. Dr. A. K. Chakraborty , Director of Research (Vety) ,	Under Horticulture FLD, it was suggested to sow pumpkin in august before harvesting of rice . Varieties like Rana and Arjuna should be taken in the programme .	✓ The sites for OFT's related to submergence tolerance rice varieties should be selected based upon discussion with line departments and IFFCO, Nagaon.

		AAU, Khanapara 4. Dr. K. K. Tamuli, Dean, CoF, AAU, Raha 5. Dr. P. K. Das, C/S, RARS, Shillongani, Nagaon 6. Mr. Kailash Talukdar ,JDA (CZ), Nagaon. 7. Mr. P. Mudoi, ASCO, Soil Conservation Division ,Nagaon 8. Mr. Gauranga Ch. Das, LDM , Hojai /Nagaon 9. Mr. Alakesh Dey, DDM, NABARD, Nagaon 10. Ms. Alaka Rani Deka, Asstt Engineer, Kaliabor & Kolong Integrated Division, Nagaon 11. Mr. Atul Ch Hazarika, DFDO, Nagaon 12. Dr. B. K. Bardoloi , A. V. S.,District Veterinary Office, Nagaon 13. Mr. Ataur Rahman, Chairman, ASCOF 14. Mr. Ajit Bhattacharyya , Assistant Manager, IFFCO (Central & Upper Assam) 15. Mr. Deba P. Saikia , Asstt Executive Engineer, Nagaon Division 16. Dr. N. Deka, Head , KVK, Nagaon 17. Mr. Sarat Kr. Dutta, Asstt. Executive Engineer, Agriculture, Nagaon 18. Mrs. Dipali Devi, D.S. W.O, Nagaon 19. Mr. Ajit Kumar Sarmah ,ACF, Social Forestry, Nagaon 20. Mr Partha Rathi Hazarika, Entrepreneur ,Dhing, Nagaon 21. Mr. Ganesh Kurmi, Farmer, Kathiatali, Nagaon 22. Mrs. Amiya Devi, Women Farmer ,Boragaon, Nagaon 23. Mrs. Hiramoni Devi Deka, Women Farmer ,Boragaon, Nagaon 24. Mr. Dharmeswari Borkakoti, Women Farmer, Senchuwa, Nagaon 25. Mr. Budhen Ch. Nath, Farmer, Kahuatoli ,Nagaon 26. Mr. Dehiram Basumatary , Progressive Farmer, Barkacharigaon, Nagaon 27. Mr. Diju Kumar Nath, Progressive Farmer, Jamuguri ,Nagaon 28. Mr Madhav Basumatary ,Farmer ,Kondoli, Nagaon	b) The house suggested to take training on Apiculture and Assam Lemon cultivation to control elephant attack on rice field in Borkacharigaon . c) It was also suggested to take awareness programme of mechanization of assured irrigation in collaboration with Irrigation Department ,Assam d) The house suggested to create awareness programme on ornamental fish culture by KVK e) Under the discipline of Agril. Economics& FM the house suggested to form famers club in collaboration with NABARD f) It was suggested to keep one demonstration plot on kitchen garden for mid day meal at school under Home Science discipline in collaboration with Social Welfare Department, Assam g) It was suggested to take training on bee keeping with toria cultivation , mushroom and Apple Ber cultivation, water conservation and jute product diversification in DFI village. There should be provision for exposure visit of farmers w. r. t. Apple Ber ,Water melon cultivation, Bee Keeping etc. to different districts like Bongaigaon h)Seed production program of Dishang, Luit ,Kolong and Gitesh was suggested to be taken up. i) It was suggested to speak about Fasal Bima Yojana , Soil Health Card and Credit Support System for 5 minutes under each training Programme. j) Suggestion was made to take awareness program on seed replacement k) It was suggested to link up with IFFCO regarding organic cultivation and popularization of hybrid	✓ The relative yield of Toria should be correlated with weather based parameters for authencity. ✓ One FLD on Apple Ber and Seedless litchi should be conducted for Nagaon district for popularization. ✓ Skill training on Azolla and vermicompost production. ✓ FLD on hybrid oyster mushroom and year round production of milky mushroom for popularization and development of Mushroom village. ✓ The DBT Laboratory technician should be properly utilized for Mushroom production and Azolla production. ✓ Awareness programme on Fertilizer dose and Pesticides among the Agricultural Input dealers of Nagaon district. ✓ Under Home science, both the OFTs should be nutrition based. ✓ For FLDs under Jute seed production, proper motivation and awareness is necessary including certification also. ✓ Documentation of ITK's as much as possible. ✓ Convergence with social welfare department for development of nutrition garden at two schools. ✓ Skill development training on candy preparation from local amla and minor fruits. ✓ Skill training on application and utilization of pitcher drip irrigation. ✓ The training should to minimize to Six (6) numbers with 4-5 days duration. ✓ Importance and skill training on Rain water harvesting (Jalkund) and Makhana cultivation with resource person from Head quarter, Assam Agricultural University.

		29. Mr. Jiten Ch. Bora, Entrepreneur , Diphalu , Nagaon 30. Mr. Hardhan Biswas ,Farmer, Matikhola, Hojai 31. Mr. Arjun Debnath, Farmer, Matikhola, Hojai 32. Mr. Gautam Medhi, Farmer, Nagaon 33. Md. Anowar Hussain, Farmer ,Bengenaati, Nagaon 34. Ms. Juri Baruah, Women Entrepreneur , Jajori, Nagaon	compost . l) Proposal should be sent in collaboration with IFFCO on organic cultivation in rice and pulse crops.	✓ Development of small entrepreneurship with proper linkage with NRLM, Nagaon. ✓ Skill training on Technology on solar drying for fish to prepare value added products in collaboration with Fishery Department, Nagaon ✓ Development of Ornamental fish village from KVK Nagaon for popularization.

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

2. DETAILS OF DISTRICT

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

Sl. No	Farming system/enterprises
1.	Agri – Horti
2.	Agri – Horti –Dairy
3.	Agri – Horti –Fishery
4.	Agri – Horti – Poultry
5.	Agri – Horti – Piggery
6.	Agri – Horti –Fishery – Duckery
7.	Agri – Seri – Piggery

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

Sl. No	Agro-climatic Zone	Characteristics
1.	Central Brahmaputra Valley Zone	The zone is consisted of two districts with four Agricultural Sub-divisions viz. Nagaon, Raha, Hojai and Kaliabor in Nagaon and one sub division in Morigaon district. The major physiographic variations of the zone are low hills; piedmont and high land areas, flood plain, char lands and swampy areas. The climate of the zone is generally humid sub-tropical (hot and wet in summer and cool in winter). The relative humidity is about 37% in the month of February /March and about 80% in other months. The zone receives mean annual rainfall of 1800 mm with five winter months having rainfall less than 100 mm. The monsoon commences from March and intensity gradually increases up to August and then declines to the minimum during November/ December. During rainy season, Water supply goes above water need and excess water causes stagnation and flood in many areas. In winter water table recedes beyond root zone of the field crops. The maximum temperature rises up to 38 ^{0} C in July-August and minimum falls to 8 ^{0} C in January.

2.3 Soil type/s

Sl. No	Soil type	Characteristics	Area in ha
1	Clayey	Very deep, well drained, clayey soils occurring on moderately slopping	16.8

	Typic Hapludults	side slopes of hills having loamy surface with moderate erosion hazards	
2	Fine Typic Hapludalfs	Very deep, well drained, fine soils occurring on gently to undulating upland having loamy surface with moderate erosion hazards	56.0
3	Fine Dystric Eutrochrepts	Very deep, moderately well drained, fine soils occurring on undulating upland having loamy surface with moderate erosion hazards	113.6
4	Fine Aeric Haplaquepts	Very deep, moderately well drained, fine soils occurring on very gently to gently sloping plain having clayey surface with slight erosion and slight flood hazards	237.9
5	Coarse loamy Aquic Udifluvents	Very deep, imperfectly drained, coarse loamy soils occurring on gently sloping plain having coarse loamy surface with very slight erosion hazards	257.9
6	Fine loamy Aquicn Dystric Eutrochrepts	Very deep, moderately well drained, fine loamy soils occurring on very gently sloping plain having loamy surface with slight erosion and slight flood hazards	261.3
7	Fine Ruptic Alfic Eutrochrepts	Very deep, moderately well drained, coarse loamy soils occurring on undulating upland having sandy surface with severe erosion hazards	25.3
8	Fine loamy Typic Dystrochrepts	Very deep, well drained, fine loamy soils occurring on gently sloping to undulating upland having loamy surface with moderate erosion hazards	190.9
9	Fine loamy Typic Dystrochrepts	Very deep, well drained, fine loamy soils occurring on undulating upland having loamy surface with slight erosion hazards	18.2
10	Fine loamy Aeric Haplaquepts	Very deep, poorly drained, fine loamy soils occurring on gently sloping sub due plain having clayey surface with slight erosion hazards	52.1
11	Fine silty Aeric Haplaquepts	Very deep, poorly drained, fine silty soils occurring on nearly leveled flood plain having loamy surface with slight erosion and moderate flood hazards	65.5
12	Coarse loamy Typic Fluvaquents	Deep, poorly drained, coarse loamy soils occurring on nearly leveled flood plain having loamy surface with slight erosion and moderate flood hazards	105.0
13	Coarse silty Typic Udifluvents	Deep, well drained, coarse silty soils occurring on active flood plain having loamy surface with moderate erosion and severe flood hazards	161.9

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

Sl. No	Crop	Area (ha)	Production (ton)	Productivity (Qtl /ha)
1.	Winter rice	132567	315158	2415
2.	Summer rice	66700	250125	3750
3.	Autumn rice	32950	78421	2380
4.	Wheat	4815	6163	1280
5.	Jute	12500	28215	2250
6.	Sugarcane	7446	322835	47870
7.	Green gram	1478	1094	740
8.	Black gram	3145	2705	860
9.	Pea	4343	3605	830
10.	Lentil	1753	1122	640
11	Toria	27276	23457	860
12.	Sesamum	1112	634	570

(b) Area, Production and Productivity of major Horticultural crops cultivated in the district

Sl.No	Crop	Area (ha)	Production (MT)	Productivity (q/ha)

1	Potato	8783	160290	1825
2	Fruit crops	15635	234124	1555
3	Kharif vegetables	9926	156037	1572
4	Rabi vegetables	15176	307162	2024
5	Spices and Condiments	67251	20628	3300

2.5. Weather data

Month	**Rain (mm)**	**Max Temp**	**Min Temp**	**Morning RH**	**Afternoon RH**
April 2017	134.0	28.7	20.5	91.5	69.2
May	309.4	31.1	23.1	88.5	69.0
June	322.2	31.5	24.4	86.9	77.6
July	336.2	33.1	24.6	86.4	71.9
Aug	502	32.3	24.5	89.3	79.1
Sep	234.6	32.2	24.9	88.1	77.6
Oct	166.8	30.7	22.2	93.5	78.5
Nov	9.8	28.8	16.7	94	72.6
Dec	0.0	26.0	19.6	93.0	70.4
January 2018	0.0	24.1	10.9	93.3	69.9

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

Category	**Population**	**Production**	**Productivity**
Cattle			
Crossbred	56,771	10529130 lit	2.13 lit/da
Indigenous	8,02,443	28354101 lit	0.628 lit/da
Buffalo	12,663	5996903 lit	8.71 lit/da
Sheep			
Crossbred			
Indigenous	12,395	3882 kg	20 kg/yr
Goats	3,56,954	393860 kg	20 kg/yr
Pigs			
Crossbred	16,363	309538 kg	
Indigenous	58,510		65 kg/yr
Rabbits	27		
Poultry			
Hens			

Desi	1176122	Egg: 18416746nos.,	Egg: 70 nos./year, Meat: 2.62
Improved	10674	Meat: 282203 kg	Egg: 150 nos./year, Meat: 2.65
Ducks	505585	Egg: 8920483nos Meat: 51588 kg	Egg: 80nos./year, Meat: 2.60
Turkey and others			
Category	**Area**	**Production**	**Productivity**
Fish	40204 ha	31000 MT/year	1.30 MT

Note: Pl. provide the appropriate Unit against each enterprise

2.6 Details of Operational area / Villages (2017-18)

Sl. No.	Taluk/ Eleka	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified thrust area
1.	Nagaon	Kothiatoli	Borkacharigaon	Rice, Toria, piggery, Fishery, vegetables, sesame, tea	Gaps in adoption of improved production practices	1.Introduction of improved varieties 2.Productivity Enhancement 3.Nutrient Management 4.Fish Production,
2.	Nagaon	Khagorijan	Boragaon	Sali and boro rice, pulses, toria, sesame	-do-	1.Introduction of improved varieties, 2.Productivity Enhancement 3. Nutrient Management
3.	Nagaon	Khagorijan	Jamuguri	Sali rice, toria, pulses, vegetables, groundnut	-do-	1.Introduction of improved varieties, 2.Productivity Enhancement 3. Nutrient Management
4.	Nagaon	Samaguri	Purani Gudam	Rice,Toria,vegetables, Fishery	-do-	1. Nutrient Management 2.Integrated Pest Management 3.Fish Production, 4. Entrepreneurship Development 5. Fish Production,
5.	Nagaon	Kathiatali	Rangalu	Rice, Vegetables, Fishery	-do-	1. Nutrient Management 2.Integrated Pest Management 3. Livestock management, 4. Entrepreneurship Development 5. Fish Production,
6.	Nagaon	Bajiagaon	Borongatoli	Rice, Toria, sesame, vegetables	-do-	1. Nutrient Management 2. Integrated Pest Management 3..Fish Production, 4. Entrepreneurship Development
7.	Nagaon	Bajiagaon	Telia Pahukata	Rice, Toria, Green gram,	-do-	1.Nutrient Management 2.Integrated Pest Management 3.Emphasis on Pulses and Oilseeds crops,
8.	Nagaon	Khagorijan	Amtola	Paddy,Vegetables, Fishery	-do-	1.Nutrient Management 2. Integrated Pest Management 3.Fish Production,

9.	Nagaon	Khagorijan	bamungaon	Rice,jute, piggery, Fishery, toria, pulse	-do-	1.Introduction of improved varieties, 2.Productivity Enhancement 3.Nutrient Management 4.Emphasis on Pulses and Oilseeds crops, 5.Livestock management 6. Fish Production,,
10.	Nagaon	Raha	Dubaritoli	Sugarcane, Pulses, Fishery	-do-	1.Introduction of improved varieties, 2.Productivity Enhancement 3.Nutrient Management 4. Integrated Pest Management 5.Emphasis on Pulses and Oilseeds crops 6. Fish Production,,
11.	Nagaon	Dalonghat	Juria	Rice,Jute	-do-	1. Nutrient Management 2. Integrated Pest Management 3.Fish Production, 4. Entrepreneurship Development 5. Fish Production,
12.	Nagaon	Kathiatali	Kathiatoli	Pulses, Sugarcane	-do-	1.Introduction of improved varieties, 2. Nutrient Management 3. Integrated Pest Management 4. Entrepreneurship Development
13.	Nagaon	Raha	Niz Dimow	Fishery, Rice, toria	-do-	1.Introduction of improved varieties 2. Nutrient Management 3. Integrated Pest Management 4.Fish Production,
14.	Nagaon	Khagorijan	Kashamari	Rice, Vegetables, Pulses	-do-	1.Productivity Enhancement 2. Integrated Pest Management 3.Emphasis on Pulses and Oilseeds crops
15.	Nagaon	Khagorijan	Raidongia	Rice, Pulses, Oilseeds	-do-	1.Introduction of improved varieties, 2.Productivity Enhancement 3. Nutrient Management 4.Integrated Pest Management 5.Emphasis on Pulses and Oilseeds crops, 6. Entrepreneurship Development
16.	Nagaon	Khagorijan	Nasatra	Rice, Pulses,Toria	-do-	1.Introduction of improved varieties, 2.Productivity Enhancement 3. Nutrient Management 4.Integrated Pest Management 5.Emphasis on Pulses and Oilseeds crops, 6. Entrepreneurship Development
17.	Nagaon	Khagorijan	Bengenaati	Vegetables, Rice, Toria, diary	-do-	1.Productivity Enhancement 2.Integrated Pest Management 3.Emphasis on Pulses and Oilseeds crops, 4.Livestock management, 5. Entrepreneurship Development

18.	Nagaon		Senchowa	Rice, toria, vegetables	-do-	1.Introduction of improved varieties, 2.Productivity Enhancement 3. Nutrient Management 4. Entrepreneurship Development
19.	Nagaon	Raha	Hariamokh	Rice, toria, vegetables, pulse	-do-	1.Productivity Enhancement 2.Integrated Pest Management 3.Fish Production,
20.	Nagaon	Odali	Gatanga	Rice, Jute, Vegetables	-do-	1.Introduction of improved varieties, 2.Productivity Enhancement 3.Nutrient Management 4.Integrated Pest Management 5. Entrepreneurship Development

3. TECHNICAL ACHIEVEMENTS

3. A. Details of target and achievements of mandatory activities by KVK during 2017-18

Discipline	**OFT (Technology Assessment and Refinement)**				**FLD (Oilseeds, Pulses, Maize, Other Crops/Enterprises)**			
	Number of OFTs		**Number of Farmers**		**Number of FLDs**		**Number of Farmers**	
	Targets	**Achievement**	**Targets**	**Achievement**	**Targets**	**Achievement**	**Targets**	**Achievement**
Agronomy	2	6	6	8	2	3	6	10
Soil Sc.	2		6	6	2	2	8	13
Horticulture	2	2	6	6	2	4	6	12
Plant protection	1	1	3	3	1	1	3	3
Fishery Sc.					3	3	50	50
Total	**7**	**9**	**21**	**23**	**10**	**13**	**73**	**88**

Note: Target set during last Annual Zonal Workshop

Training (including sponsored, vocational and other trainings carried under Rainwater Harvesting Unit)					**Extension Activities**			
3					**4**			
Number of Courses			**Number of Participants**		**Number of activities**		**Number of participants**	
Clientele	**Targets**	**Achievement**	**Targets**	**Achievement**	**Targets**	**Achievement**	**Targets**	**Achievement**
Farmers								
Rural youth								
Extn. Functionaries								
Total								
Seed Production (ton.)					**Planting material (Nos. in lakh)**			

5		6	
Target	**Achievement**	**Target**	**Achievement**

Note: Target set during last Annual Zonal Workshop

3. B. Abstract of interventions undertaken during 2017-18

Sl. No	**Thrust area**	**Crop/ Enterprise**	**Identified problems**	**Interventions**					
				Title of OFT if any	**Title of FLD if any**	**Title of Training if any**	**Title of training for extension personnel if any**	**Extension activities**	**Supply of seeds, planting materials etc.**
1	Varietal performance	RICE	Lack of submergence tolerant rice varieties in flash flood situation	Varietal performance of submergence tolerance rice varieties		Nursery management in Sali rice			Seeds, Fertilizers and pesticides
2	Integrated farming system	IFS	Traditional way of management of farming system and lack of scientif knowledge	Scientific intervention in existing farming system(bari) to increase farm income		Development of scientific rice based Integrated farming system			Seeds, Fertilizers and pesticides
3	Varietal evaluation	BORO RICE	Lack of boro rice varieties suitable in Nagaon district	OFT of three promising Boro rice lines		Scientific production technology of Boro rice			Seeds, Fertilizers and pesticides
4	Water management	WHEAT	Lack of effective crop management practices	Evaluation of mulch and irrigation effect on wheat in Rice-wheat system		Scientific production of wheat			Seeds, Fertilizers and pesticides

5	Crop management	WHEAT	Lack of effective crop management practices	Effect of sowing time temperature on the productivity of wheat		Weed management in wheat			Seeds, Fertilizers and pesticides
6	Varietal evaluation	SESAME	Lack of suitable sesamum varieties	Varietal evaluation of sesame					Seeds, Fertilizers and pesticides
7	Crop Production	Rice-toria	Land remains fallow after Sali rice		Participatory seed production on medium duration rice followed by toria				Seeds, Fertilizers and pesticides
8	Varietal performance	Hybrid rice	Lack of suitable boro rice variety		FLD on bayers paddy hybrid varieties				Seeds, Fertilizers and pesticides
9	Crop production	Jute	Low adoption of capsularis jute due to lack of suitable variety		Fibre production of jute	Production of fibre crops			Seeds, Fertilizers and pesticides
10	Soil microorganisms	Rice	Zn deficiency is occurring due to discriminate use of heavy analysis chemical fertilizers	Response of rice to Zinc solubilising bacteria for zinc nutrition.	-	Use of biofertilizers as a component of INM	-	-	Seeds, fertilizers, biofertilizers

11	Integrated nutrient management	Greengram	Indiscriminate use of heavy analysis chemical fertilizers deteriorating soil health	Performance of Biofertilizers in summer Greengram	-	-	-	-	Seeds, fertilizers, biofertilizers
12	Varietal performance	Strawberry	Strawberry is not cultivated in the district and introduction of new high value crop is required to increase the farmer's income.	Performance of Strawberry varieties Early Dawn/Sweet charlie in Nagaon District **T 1: Improved POP** **T2: Farmer's practice**	NA	Production & management technology	NA	Training, Demonstration ,field visit	Planting material, fertilizer and pesticides
13	Nutrient Management	Banana	Indiscriminate use of chemical fertilizers & pesticides	Assessment of Organic banana cultivation package **T 1: 10 kg FYM + 1.25 kg neem cake + 5 kg vermicompost + 1.75 kg woodash /pit** **T 2: Farmer's practice**	NA	Production & management technology	NA	Training, Demonstration ,field visit	Planting material , Vermicompost , neemcake
14	Varietal Performance	Apple ber	Lack of knowledge & Introduction of the high value crop	NA	Popularization of apple ber in Nagaon District	Production & management technology	NA	Training, Demonstration ,field visit	Planting material, fertilizers and pesticides

<table>
<tr><td>15</td><td>Varietal Performance</td><td>Marigold</td><td>Lack of knowledge ,awareness on summer marigold variety</td><td>NA</td><td>Popularization of summer marigold var Seracole</td><td>Production & managemet technology</td><td>NA</td><td>Training, Demonstration ,field visit</td><td>Planting material, fertilizers and pesticides</td></tr>
<tr><td>16</td><td>Varietal Performance</td><td>Pumpkin</td><td>Better utilization of rice fallow and lack of establish ed var.</td><td>NA</td><td>Popularization of Pumpkin hybrid Arjuna in Rice based cropping sequence

T1: Pumpkin var Arjuna

T2: Farmers practice (local var)</td><td>Production & managemet technology</td><td>NA</td><td>Training, Demonstration ,field visit</td><td>Planting material, fertilizers and pesticides</td></tr>
<tr><td>17</td><td>Weed Management</td><td>Okra</td><td>Weed management & Low Yield</td><td>NA</td><td>Plastic mulching in Okra

T1:With mulch

T2:Without Mulch</td><td>Improved production technology of Okra.Advantages of Polythene mulch</td><td>NA</td><td>Training ,Demonstration, Field visit</td><td>Planting materials, Fertilizers,Plant protection,Plastic mulch</td></tr>
<tr><td>18</td><td>Plant protection</td><td>Sali rice</td><td>Lack of ecofriendly pest management strategy in Sali rice</td><td>Management of stem borer and leaf folder in Sali Rice
T1: Three release of Trichogramma japonicum @ 10,000 / ha from 30 DAT
T2: Application of botanicals (Neem oil/@ 3ml/L)
T 3: Erection of bird perch
T4: Farmer’s practice</td><td colspan="5"><table><tr><th>Treatments</th><th colspan="2">Infestation %</th><th>Yield (t/ha)</th></tr><tr><th></th><th>SB</th><th>LF</th><th></th></tr><tr><td>T1
T2
T 3
T4</td><td>1.8
4.0
5.9
9.4</td><td>3.4
7.2
8.5
10.3</td><td>4.7
4.2
4.1
3.6</td></tr></table></td></tr>
</table>

19	Plant protection	-	-	-	Oyster mushrooms cultivation.	Harvested twice			
20	Plant protection	-	-	-	Popularization of rearing of honey bees				
21	Fish production	Lime			Application of Quick lime in pond water				Quick lime
22					Application of fertilizers Urea & Single Super Phosphate in pond water				Urea SSP
23					Application of balanced feed in pond water				Meenahar

3.1 Achievements on technologies assessed and refined during 2017-18

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation	2	1				1				4
Seed / Plant production										
Weed Management										
Integrated Crop Management	1									1
Integrated Nutrient			1			1				2

Management										
Integrated Farming System										
Mushroom cultivation										
Drudgery reduction										
Farm machineries										
Value addition										
Integrated Pest Management										
Integrated Disease Management										
Resource conservation technology										
Small Scale income generating enterprises										
TOTAL	3	1	1			2				7

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

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

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

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

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

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

Thematic areas	**Cattle**	**Poultry**	**Sheep**	**Goat**	**Piggery**	**Rabbitery**	**Fisheries**	**TOTAL**
Evaluation of Breeds								
Nutrition Management								
Disease of Management								
Value Addition								
Production and Management								
Feed and Fodder								

Small Scale income generating enterprises								
TOTAL								

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

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

A.5. Results of On Farm Testing

Sl. No.	Title of OFT	Problem Diagnosed	Name of Technology Assessed	Crop/Cropping system/ Enterprise	No. of Trials	Results of Assessment/ Refined (Data on the parameter should be provided)	Feedback from the farmer	Feedback to the Researcher	B.C . Ratio (if applicable)
1.	Varietal performance of submergence tolerance rice varieties	Lack of submergence tolerant rice varieties in flash flood situation	Ranjit Sub 1 BR 11 Sub 1 Swarna sub 1(check)	RICE	3	**Treatments** / **Yield (q/ha)** **T1** 5.43 **T2** 5.29 **T3** 4.97	Satisfactory	Satisfactory	**Treatments** / **B: C ratio** **T1** 2.32 **T2** 2.07 **T3** 1.93
2.	Scientific intervention in existing farming system(bari) to increase farm income	Traditional way of management of farming system and lack of scientif knowledge	Crop component Animal Component Horticultural component	IFS	4	Ongoing			
3.	OFT of three promising Boro rice lines	Lack of boro rice varieties suitable in Nagaon district	IET-23491 IET-23495 IET-23508	BORO RICE	1	Ongoing			
4.	Evaluation of mulch and irrigation effect on wheat in Rice-wheat system	Lack of effective crop management practices	3 irrigation without straw mulch 3 irrigation with straw 1 irrigation with straw	WHEAT	1	Ongoing			
5.	Effect of sowing time temperature on the	Lack of effective crop	Wheat sowing at	WHEAT	1	Ongoing			

	productivity of wheat	management practices	18-21°C Farmers practice						
6.	Varietal evaluation of sesame	Lack of suitable sesame variety	ShT 1 AST 1	SESAME	1	Ongoing			
7	Response of rice to Zinc solubilising bacteria for zinc nutrition.	Zn deficiency is occurring due to discriminate use of heavy analysis chemical fertilizers	**T 1:** Application of N: P_2O_5: K_2O @ 40:20:20 kg/ha + Zinc solubilizing bacteria @ 3.5 kg/ha **T 2:** Application of N: P_2O_5: K_2O @ 40:20:20 kg/ha + Zinc Sulphate @ 25 kg/ha **T 3**: RD of fertilizers (N: P_2O_5: K_2O @ 60:20:40	Rice	3	**T 1:** 51.65 q/ha **T 2:** 50.80 q/ha **T 3**: 48.25 q/ha	Satisfied with the technology	NIL	T 1: 2.51 T 2: 2.36 T 3: 2.21

			kg/ha)						
8	Performance of Biofertilizers in summer Greengram	Indiscriminate use of heavy analysis chemical fertilizers deteriorating soil health	**T 1:** Seed inoculation with rhizobium and PSB each @ 50g/Kg of seed along with RD of fertilizer **T 2:** 100% RDF (15: 35: 15 kg/ha $N:P_2O_5:K_2O$)	Greengram	3	On going			
1	Performance of Strawberry varieties Early Dawn/Sweet charlie in Nagaon District	Strawberry is not cultivated in the district and introduction of new high value crop is required to increase the farmer's income.	T 1: Improved POP T2: Farmer's practice	Strawberry	3	<u>Yield of Strawberry q/ha</u> T1 :44 T2:28.06	Satisfied with the performance of the technology	-	T1:2.1 T2:1.7

<table>
<tr>
<td>2</td>
<td>Assessment of Organic banana cultivation package</td>
<td>Indiscriminate use of chemical fertilizers & pesticides</td>
<td>T 1: 10 kg FYM + 1.25 kg neem cake + 5 kg vermicompost + 1.75 kg woodash /pit
T 2: Farmer’s practice</td>
<td>Banana</td>
<td>3</td>
<td>On Going</td>
</tr>
<tr>
<td></td>
<td>Management of stem borer and leaf folder in Sali Rice</td>
<td>Lack of ecofriendly pest management strategy in Sali rice</td>
<td>T1: Three release of Trichogramma japonicum @ 10,000 / ha from 30 DAT
T2: Application of botanicals (Neem oil/@ 3ml/L)
T 3: Erection of bird perch
T4: Farmer’s practice</td>
<td>Sali rice</td>
<td>3</td>
<td>
<table>
<tr><th rowspan="2">Treatments</th><th colspan="2">Infestation %</th><th rowspan="2">Yield (t/ha)</th></tr>
<tr><th>SB</th><th>LF</th></tr>
<tr><td>T1</td><td>1.8</td><td>3.4</td><td>4.7</td></tr>
<tr><td>T2</td><td>4.0</td><td>7.2</td><td>4.2</td></tr>
<tr><td>T 3</td><td>5.9</td><td>8.5</td><td>4.1</td></tr>
<tr><td>T4</td><td>9.4</td><td>10.3</td><td>3.6</td></tr>
</table>
</td>
</tr>
</table>

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

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

3.2 Achievements of Frontline Demonstrations during 2017-18

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

List of technologies demonstrated during previous year and popularized during 2017-18 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	Vermicompost	Production of Vermicompost in low cost Vermicompost unit	5	10	-
2	Toria	Two foliar applications of 1% urea at flowering and pod filling stages along with basal application of recommended fertilizer.	5	10	5

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

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

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement	Farming situation (Rainfed/ Irrigated, Soil type, altitude, etc)	Status of soil (Kg/ha)		
					Proposed	Actual	SC/ST	Others	Total			N	P	K
1.	Rice-toria	Cropping sequence	Participatory seed production on medium duration rice followed by toria Treatments T1:Rice var. TTB 404-Toria var. TS 38 T2: Monocrop Rice	Kharif, 2017	0.43	0.43	7	0	7	NA	Rainfed	M	L	M
2.	Boro rice	Varietal performanc	FLD on bayers paddy hybrid	Rabi 2017	0.4	0.4	0	3	3	NA	Irrigated	M	L	L

		e	varieties Treatments: 1. ARIZE 6444 GOLD 2. ARIZE TEZ 3. ARIZE 6129 GOLD											
3.	Jute	Crop production	Fibre production technology of Jute	Summer, 2017-18	0.6	0.6	0	3	3	NA	Rainfed	M	L	L
4.	Toria	Nutrient management	Two foliar applications of 1% urea at flowering and pod filling stages along with basal application of recommended fertilizer.	Rabi, 2017	1.0	1.0	1	2	3	NA	Rainfed	M	L	L
5.	Apple ber	Varietal Performance	Popularization of apple ber in Nagaon District	Kharif	**0.1**	**0.1**	1	2	3	NA	Irrigated sandy loam to clay loam	M	L	M
6.	Marigold	Varietal Performance	Popularization of summer marigold var Seracole	Kharif	0.07	0.07	-	3	3	NA	Irrigated sandy loam to clay loam	M	L	M
7.	Pumpk	Varietal	Popularization	Rabi	0.13	0.13	2	1	3	NA	Irrigated sandy loam to clay	M	L	M

	in	Performance	of Pumpkin hybrid Arjuna in Rice based cropping sequence T1: Pumpkin var Arjuna T2: Farmers practice (local var)								loam			
8.	Okra	Weed management	Plastic mulching in Okra T1:With mulch T2:Without Mulch	Kharif	0.13	0.13	1	2	3	NA	Irrigated sandy loam to clay loam	M	L	M

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.	Rice-toria	Cropping sequence	0.43	Rice Equivalent Yield: 61.2 q/ha	Sole crop: 47.3 q/ha	29.4 %	67.6	52.3	Disease incidence 9%	Disease incidence 13%	25359	58989	87348	2.3	23359	39861	66220	1.6
2.	Boro rice	Varietal performance	0.4	**Ongoing**														
3.	Jute	Crop production	0.6	**Ongoing**														
4.	Toria	Nutrient management	1.0	9.20	8.35	10	11.35	8.65	No disease & pest	No disease & pest	186900.00	34040.00	15350.00	1.82	18670.00	30895.00	12225.00	1.65
5.	Apple ber	Varietal Performance	**0.1**	**On Going**														
6.	Marigold	Varietal Performance	0.07	146.38	No Flowering is observed	-	152	124	Disease incidence 10%	-	168740	512330	343590	3.04	No flowering in check var			
7.	Pumpkin	Varietal Performance	0.13	154.2	123.37	24.98	160	128	Disease incidence 8%	Disease incidence 15%	67659	231300	163641	3.42	58359	135707	77348	2.3
8.	Okra	Weed management	0.13	182.15	132.28	37.70	136.20	103.3	No Disease incidence	Disease incidence 20%	78,200	309655	231455	4.0	56500	158736	102236	2.8

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

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

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

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

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

d. Extension and Training activities under FLD on Crops

Sl.No.	Activity	No. of activities organised	Date	Number of participants				Remarks
				Gen	Others	SC/ST	Total	
1	Field days	9		214	201	65	480	
2	Farmers Training	8		85	126	37	248	
3	Media coverage	5		-	-	-	-	
4	Training for extension functionaries	-		-	-	-	-	
5	Any other (Pl. specify) Method demonstrations	8		85	116	33	234	

e. Details of FLD on Enterprises

(i) Farm Implements

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

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

(ii) Livestock Enterprises

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

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

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

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

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

(iii) Fisheries

Sl. No.	Category, e.g. Common carp, ornamental fish etc.	Thematic area	Name of Technology	No. of farmers	No. of units	No. of fish/ fingerlings	Major Performance parameters / indicators		% change in the parameter	Other parameters (if any)		Econ. of demo. (Rs./Ha.)				Econ. of check (Rs./Ha.)				Remarks
							Demo	Check		Demo	Check	GC**	GR**	NR**	BCR**	GC	GR	NR	BCR	
1	Fish	Water qualit	Application	20	20	-	pH	-												

	pond	y management	of Quick lime in pond water																
2			Application of fertilizers Urea & Single Super Phosphate in pond water	20	20	-	N, P, K	-											
3		Feed management	Application of balanced feed in pond water	10	10	-	Balanced feed	-											

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

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

(iv) Other enterprises

Sl. No.	Category/ Enterprise, e.g., mushroom, vermicompost, apiculture etc.	Thematic area	Name of Technology	No. of farmers	No. of units	Major Performance parameters / indicators		% change in the parameter	Other parameters (if any)		Econ. of demo. (Rs./Ha.)				Econ. of check (Rs./Ha.)				Remarks
						Demo	Check		Demo	Check	GC**	GR**	NR**	BCR**	GC	GR	NR	BCR	
1	Mushroom	-	Oyster mushrooms cultivation	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	Harvested two times
2	Vermicompost	Soil organism	Production of vermicompost under lowcost vermicompost technology	10	10	-	-	-	-	-	-	-	-	-	-	-	-	-	1st harvesting completed. 6.5q in 1 harvest

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

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

(v) Farm Implements and Machinery

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

f. Performance of FLD on Crop Hybrids

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

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

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

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

3.3. Achievements on Training

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

Thematic area	No. of Courses/ prog			Participants																		
				General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
	On-Campus (1)	Spon On* (2)	Total (1+2)	On (4)	Sp. On (5)	On (6)	Sp. On (7)	On (a= 4+6)	Sp. On (b= 5+7)	On (8)	Sp. On (9)	On (10)	Sp. On (11)	On (c= 8+10)	Sp. On (d= 9+11)	On (4+8)	Sp. On (5+9)	On (6+10)	Sp. On (7+11)	On (x= a +c)	Sp. On (y= b +d)	Grand Total (x + y)
I. Crop Production																						
Weed Management																						
Resource Conservation Technologies																						
Cropping Systems																						

Crop Diversification																					
Integrated Farming																					
Water management																					
Seed production																					
Nursery management																					
Integrated Crop Management																					
Fodder production																					
Production of organic inputs																					
II. Horticulture																					
a) Vegetable Crops																					
Production of low volume and high value crops																					

Off-season vegetables																						
Nursery raising																						
Exotic vegetables like Broccoli																						
Export potential vegetables																						
Grading and standardizatio n																						
Protective cultivation (Green Houses, Shade Net etc.)																						
b) Fruits																						
Training and Pruning																						
Layout and Management of Orchards																						
Cultivation of Fruit																						

Management of young plants/orchards																					
Rejuvenation of old orchards																					
Export potential fruits																					
Micro irrigation systems of orchards																					
Plant propagation techniques																					
c) Ornamental Plants																					
Nursery Management																					
Management of potted plants																					
Export potential of ornamental plants																					

Propagation techniques of Ornamental Plants																					
d) Plantation crops																					
Production and Management technology																					
Processing and value addition																					
e) Tuber crops																					
Production and Management technology																					
Processing and value addition																					
f) Spices																					
Production and Management technology																					
Processing and value																					

addition																						
g) Medicinal and Aromatic Plants																						
Nursery management																						
Production and management technology																						
Post harvest technology and value addition																						
III Soil Health and Fertility Management																						
Soil fertility management																						
Soil and Water Conservation																						
Integrated Nutrient Management																						
Production and use of organic inputs																						
Management of																						

Problematic soils																						
Micro nutrient deficiency in crops																						
Nutrient Use Efficiency																						
Soil and Water Testing																						
IV Livestock Production and Management																						
Dairy Management																						
Poultry Management																						
Piggery Management																						
Rabbit Management																						
Disease Management																						
Feed management																						
Production of quality																						

animal products																					
V Home Science/Women empowerment																					
Household food security by kitchen gardening and nutrition gardening																					
Design and development of low/minimum cost diet																					
Designing and development for high nutrient efficiency diet																					
Minimization of nutrient loss in processing																					
Gender mainstreaming through SHGs																					

Storage loss minimization techniques																						
Value addition																						
Income generation activities for empowerment of rural Women																						
Location specific drudgery reduction technologies																						
Rural Crafts																						
Women and child care																						
VI Agril. Engineering																						
Installation and maintenance of micro irrigation systems																						
Use of Plastics in																						

farming practices																					
Production of small tools and implements																					
Repair and maintenance of farm machinery and implements																					
Small scale processing and value addition																					
Post Harvest Technology																					
VII Plant Protection																					
Integrated Pest Management																					
Integrated Disease Management																					
Bio-control of pests and diseases																					

Production of bio control agents and bio pesticides																					
VIII Fisheries																					
Integrated fish farming																					
Carp breeding and hatchery management																					
Carp fry and fingerling rearing																					
Composite fish culture																					
Hatchery management and culture of freshwater prawn																					
Breeding and culture of ornamental fishes																					
Portable plastic carp hatchery																					

Pen culture of fish and prawn																						
Shrimp farming																						
Edible oyster farming																						
Pearl culture																						
Fish processing and value addition																						
IX Production of Inputs at site																						
Seed Production																						
Planting material production																						
Bio-agents production																						
Bio-pesticides production																						
Bio-fertilizer production																						

Vermi-compost production																					
Organic manures production																					
Production of fry and fingerlings																					
Production of Bee-colonies and wax sheets																					
Small tools and implements																					
Production of livestock feed and fodder																					
Production of Fish feed																					
X Capacity Building and Group Dynamics																					
Leadership development																					
Group dynamics																					

Formation and Management of SHGs																						
Mobilization of social capital																						
Entrepreneurial development of farmers/youths																						
WTO and IPR issues																						
XI Agro-forestry																						
Production technologies																						
Nursery management																						
Integrated Farming Systems																						
TOTAL																						

3.3.2. Achievements on Training of <u>Farmers and Farm Women</u> in <u>Off Campus</u> including <u>Sponsored Off Campus</u> Training Programmes

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

Thematic area	No. of Courses/ prg.			Participants																		Grand Total
				General						SC/ST						Total						
	Off	Sp Off*	Total	Male		Female		Total		Male		Female		Total		Male		Female		Total		
				Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	
I. Crop Production																						
Weed Management	1	-	1	-	-	-	-	-	-	21	-	4	-	25	-	21	-	4	-	25	-	25
Resource Conservation Technologies																						
Cropping Systems	1	-	1	12	-	3	-	15	-	7	-	4	-	11	-	19	-	6	-	25	-	25
Crop Diversification																						
Integrated Farming	1	-	1	-	-	-	-	-	-	21	-	9	-	30	-	21	-	9	-	30	-	30
Contingency cropping	2	--	2	-	-	-	-	-	-	42	-	8	-	50	-	42	-	8	-	50	-	50
Seed production	6	-	6	76	-	26	-	46	-	8	-	54	-	114	-	38	-	114	-	38	-	150
Nursery management	1	-	1	-	-	-	-	-	-	21	-	9	-	30	-	21	-	9	-	30	-	30
Market study	2	-	2	44	-	10	-	54	-	-	-	-	-	-	-	44	-	10	-	54	-	54
Fodder production																						
Production of organic inputs																						
II. Horticulture																						
a) Vegetable Crops																						

Production of low volume and high value crops	2	-	2	-	-	-	-	-	-	40	-	14	-	54	-	40	-	14	-	54	-	54
Off-season vegetables																						
Nursery raising	1	-	1	-	-	-	-	-	-	19	-	6	-	25	-	19	-	6	-	25	-	25
Exotic vegetables like Broccoli																						
Export potential vegetables																						
Grading and standardizatio n																						
Protective cultivation (Green Houses, Shade Net etc.)																						
b) Fruits																						
Training and Pruning																						
Layout and Management																						

of Orchards																						
Cultivation of Fruit	1	-	1	24	-	-	-	24	-	2	-	-	-	2	-	24	-	-	-	26	-	26
Management of young plants/orchards																						
Rejuvenation of old orchards																						
Export potential fruits																						
Micro irrigation systems of orchards																						
Plant propagation techniques																						
c) Ornamental Plants																						
Nursery Management																						
Management of potted plants																						

Export potential of ornamental plants																						
Propagation techniques of Ornamental Plants																						
d) Plantation crops																						
Production of low volume and high value crops	2	-	2	-	-	-	-	-	-	40	-	14	-	54	-	40	-	14	-	54	-	54
Processing and value addition																						
e) Tuber crops																						
Production and Management technology																						
Processing and value addition																						
f) Spices																						
Production and	1	-	1	-	-	-	-	-	-	24	-	2	-	26	-	24	-	2	-	26	-	26

Management technology																					
Processing and value addition																					
g) Medicinal and Aromatic Plants																					
Nursery management																					
Production and management technology																					
Post harvest technology and value addition																					
III Soil Health and Fertility Management																					
Soil fertility management	2	1	3	24	15	6	10	30	25	10	8	2	2	12	10	44	45	8	12	42	20	94
Soil and Water Conservation																					
Integrated Nutrient Management	1	-	1	13	-	4	-	17	-	5	-	1	-	6	-	21	-	8	-	21	8	29
Production and use of																					

organic inputs																						
Management of Problematic soils																						
Micro nutrient deficiency in crops																						
Nutrient Use Efficiency																						
Soil and Water Testing																						
IV Livestock Production and Management																						
Dairy Management																						
Poultry Management																						
Piggery Management																						
Rabbit Management																						
Disease Management																						

Feed management																						
Production of quality animal products																						
V Home Science/Women empowerment																						
Household food security by kitchen gardening and nutrition gardening																						
Design and development of low/minimum cost diet																						
Designing and development for high nutrient efficiency diet																						
Minimization of nutrient loss in processing																						

Gender mainstreaming through SHGs																						
Storage loss minimization techniques																						
Value addition	**1**	**-**	**1**	**-**	**-**	**17**	**-**	**17**	**-**	**-**	**-**	**10**	**-**	**-**	**10**	**-**	**-**	**27**	**-**	**27**	**-**	**27**
Income generation activities for empowerment of rural Women																						
Location specific drudgery reduction technologies																						
Rural Crafts																						
Women and child care																						
VI Agril. Engineering																						
Installation and maintenance of micro																						

irrigation systems																					
Use of Plastics in farming practices																					
Production of small tools and implements																					
Repair and maintenance of farm machinery and implements																					
Small scale processing and value addition																					
Post Harvest Technology																					
VII Plant Protection																					
Integrated Pest Management																					
Integrated Disease																					

Management																						
Bio-control of pests and diseases																						
Production of bio control agents and bio pesticides																						
VIII Fisheries																						
Integrated fish farming	1	-	1	4	-	2	-	6	-	8	-	16	-	24	-	12	-	18	-	30	-	30
Carp breeding and hatchery management																						
Carp fry and fingerling rearing																						
Composite fish culture	1	-	1	25	-	-	-	25	-	2	-	-	-	2	-	27	-	-	-	27	-	27
Hatchery management and culture of freshwater prawn																						
Breeding and culture of																						

ornamental fishes																						
Portable plastic carp hatchery																						
Pen culture of fish and prawn																						
Shrimp farming																						
Edible oyster farming																						
Pearl culture																						
Fish processing and value addition																						
IX Production of Inputs at site																						
Seed Production																						
Planting material production																						
Bio-agents production																						

Bio-pesticides production																					
Bio-fertilizer production																					
Vermi-compost production																					
Organic manures production																					
Production of fry and fingerlings																					
Production of Bee-colonies and wax sheets																					
Small tools and implements																					
Production of livestock feed and fodder																					
Production of Fish feed																					
X Capacity Building and Group Dynamics																					

Leadership development																					
Group dynamics																					
Formation and Management of SHGs																					
Mobilization of social capital																					
Entrepreneurial development of farmers/youths																					
WTO and IPR issues																					
XI Agro-forestry																					
Production technologies																					
Nursery management																					
Integrated Farming Systems																					

TOTAL	**27**	**1**	**28**	**222**	**15**	**68**	**10**	**234**	**25**	**270**	**8**	**153**	**2**	**465**	**20**	**457**	**45**	**257**	**12**	**584**	**28**	**756**

(B) RURAL YOUTH

3.3.3. Achievements on Training Rural Youth in On Campus including Sponsored On Campus Training Programmes

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

Thematic area	No. of Courses/ Prog			Participants																		Grand Total (x + y)
				General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
	On (1)	Sp On* (2)	Total (1+2)	On (4)	Sp. On (5)	On (6)	Sp. On (7)	On (a= 4+6)	Sp. On (b= 5+7)	On (8)	Sp. On (9)	On (10)	Sp. On (11)	On (c= 8+10)	Sp. On (d= 9+11)	On (4+8)	Sp. On (5+9)	On (6+10)	Sp. On (7+11)	On (x= a +c)	Sp. On (y= b +d)	
Mushroom Production																						
Bee-keeping																						
Integrated farming																						
Seed production																						
Production of organic inputs																						
Integrated Farming																						

Planting material production																					
Vermi-culture																					
Sericulture																					
Protected cultivation of vegetable crops																					
Commercial fruit production																					
Repair and maintenance of farm machinery and implements																					
Nursery Management of Horticulture crops																					
Training and pruning of orchards																					
Value																					

addition																						
Production of quality animal products																						
Dairying																						
Sheep and goat rearing																						
Quail farming																						
Piggery																						
Rabbit farming																						
Poultry production																						
Ornamental fisheries																						
Para vets																						
Para extension workers																						
Composite fish culture																						
Freshwater prawn culture																						

Shrimp farming																					
Pearl culture																					
Cold water fisheries																					
Fish harvest and processing technology																					
Fry and fingerling rearing																					
Small scale processing																					
Post Harvest Technology																					
Tailoring and Stitching																					
Rural Crafts																					
TOTAL																					

3.3.4. Achievements on Training of <u>Rural Youth</u> in <u>Off Campus</u> including <u>Sponsored Off Campus</u> Training Programmes

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

Thematic area	**No. of Courses/ Prog.**			**Participants**			**Grand Total**
	Off	**Sp**	**Tota**	**General**	**SC/ST**	**Total**	

		Off	l	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 *	
Mushroom Production																						
Bee-keeping																						
Integrated farming	1	-	1	-	-	-	-	-	-	21	-	9	-	30	-	21	-	9	-	30	-	30
Seed production	1	-	1	21	-	5	-	26	-	-	-	-	-	-	-	21	-	5	-	26	-	26
Production of organic inputs																						
Integrated Farming																						
Planting material production																						
Vermi-culture	-	2	2	-	24	-	58	-	82	-	18	-	15	-	33	-	42	-	73	-	115	115
Sericulture																						
Protected cultivation of vegetable crops																						

Commercial fruit production	1	-	1	18	-	7	-	25	-	-	-	-	-	-	-	18	-	7	-	25	-	25
Repair and maintenance of farm machinery and implements																						
Nursery Management of Horticulture crops	1	-	1	-	-	-	-	-	-	19	-	6	-	25	-	19	-	6	-	25	-	25
Training and pruning of orchards																						
Value addition	**1**	**-**	**1**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**26**	**-**	**26**	**-**	**-**	**-**	**26**	**-**	**26**	**-**	**26**
Women and child care	**1**	**-**	**1**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**25**	**-**	**25**	**-**	**-**	**-**	**25**	**-**	**25**	**-**	**25**
Production of quality animal products																						
Dairying																						
Sheep and goat rearing																						

Quail farming																						
Piggery																						
Rabbit farming																						
Poultry production																						
Ornamental fisheries																						
Para vets																						
Para extension workers																						
Composite fish culture																						
Freshwater prawn culture																						
Shrimp farming																						
Pearl culture																						
Cold water fisheries																						
Fish harvest and processing technology																						

Fry and fingerling rearing																						
Small scale processing																						
Post Harvest Technology																						
Tailoring and Stitching																						
Rural Crafts																						
TOTAL	**6**	**2**	**8**	**39**	**24**	**12**	**58**	**51**	**82**	**40**	**18**	**66**	**15**	**106**	**33**	**79**	**42**	**78**	**73**	**157**	**112**	**272**

C. Extension Personnel

3.3.5. Achievements on Training of <u>Extension Personnel</u> in <u>On Campus</u> including <u>Sponsored On Campus</u> Training Programmes

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

Thematic area	**No. of Courses/ prog**			**Participants**																		**Grand Total**
				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)	**(x + y)**
Productivity enhancement																						

in field crops																					
Integrated Pest Management																					
Integrated Nutrient management																					
Rejuvenation of old orchards																					
Protected cultivation technology																					
Formation and Management of SHGs																					
Group Dynamics and farmers organization																					
Information networking among farmers																					
Capacity building for																					

ICT application																					
Care and maintenance of farm machinery and implements																					
WTO and IPR issues																					
Management in farm animals																					
Livestock feed and fodder production																					
Household food security																					
Women and Child care																					
Low cost and nutrient efficient diet designing																					
Production and use of organic																					

inputs																						
Gender mainstreaming through SHGs																						
Soil testing	-	1	1	10	-	4	-	14	-	5	-	2	-	7	-	19	-	6	-	25	-	25
Total	**-**	**1**	**1**	**10**	**-**	**4**	**-**	**14**	**-**	**5**	**-**	**2**	**-**	**7**	**-**	**19**	**-**	**6**	**-**	**25**	**-**	**25**

3.3.6. Achievements on Training of <u>Extension Personnel</u> in <u>Off Campus</u> including <u>Sponsored Off Campus</u> Training Programmes

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

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

Rejuvenation of old orchards																					
Protected cultivation technology																					
Formation and Management of SHGs																					
Group Dynamics and farmers organization																					
Information networking among farmers																					
Capacity building for ICT application																					
Care and maintenance of farm machinery and implements																					
WTO and																					

IPR issues																						
Management in farm animals																						
Livestock feed and fodder production																						
Household food security																						
Women and Child care																						
Low cost and nutrient efficient diet designing																						
Production and use of organic inputs																						
Gender mainstreaming through SHGs																						
Soil testing	-	1	1	10	-	4	-	14	-	5	-	2	-	7	-	19	-	6	-	25	-	25
TOTAL	**-**	**1**	**1**	**10**	**-**	**4**	**-**	**14**	**-**	**5**	**-**	**2**	**-**	**7**	**-**	**19**	**-**	**6**	**-**	**25**	**-**	**25**

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

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

Discipline	Area of training	Title of the training programme	Date (From – to)	Duration in days	Venue	Please specify Beneficiary group (Farmer & Farm women/ RY/ EP and NGO Personnel)	General participants			SC/ST			Grand Total		
							M	F	T	M	F	T	M	F	T
Home Science	Value Addition	Value Addition of Fruits & Vegetables	28.02.18 - 02.03.18	3	KVK, Campus	Farm Women	-	17	17	-	10	10	0	27	27
TOTAL							**-**	**17**	**17**	**-**	**10**	**10**	**0**	**27**	**27**

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

Discipline	Area of training	Title of the training programme	Date (From – to)	Duration in days	Venue	Please specify Beneficiary group (Farmer & Farm women/ RY/ EP and NGO Personnel)	General participants			SC/ST			Grand Total		
							M	F	T	M	F	T	M	F	T
Horticulture	Production and Management Technology	Production and management technology of Assam Lemon	25/10/18	5	Bengennati	Rural Youth	18	7	25	-	-	-	18	7	25

	Production and Management Technology	Production and management technology of Banana	17.03.18	2	Kaliabor	Farmer & Farm women	24	0	24	2	-	2	24	0	26
	Production and Management Technology	Production and management technology of Ginger and Turmeric	12.11.17	1	Borkachari gaon	Farmer & Farm women	-	-	-	24	2	26	24	2	26
	Production and Management Technology	Nursery raising of transplanted vegetable crops	24.11.17	1	Borkachari gaon and Nebukali	Farmer & Farm women	-	-	-	19	6	25	19	6	25
	Production and Management Technology	Production and management technology of Coconut & Arecanut	28.10.17	1	Borkachari gaon	Farmer & Farm women	-	-	-	20	5	25	20	5	25
	Production and Management Technology	Production technology of Cole crops	10.10.17	1	Borkachari gaon	Farmer & Farm women	-	-	-	21	6	27	21	6	27
	Production and Management Technology	Organic cultivation of vegetables	4.10.17	1	Borkachari gaon	Farmer & Farm women	-	-	-	19	8	27	19	8	27

	Production and Management Technology	Production and management technology of Ginger and Turmeric	25.3.18	1	Borkachari gaon	Rural youth	-	-	-	19	6	25	19	6	25
Agronomy	Nursery management	Nursery management in Sali rice	27.5.17	1	Borkachari gaon	Farmer & Farm women	-	-	-	15	10	25	15	10	25
	Production and Management Technology	Scientific production technology in Sali rice	6.07.17	1	Borkachari gaon	Farmer & Farm women	-	-	-	21	4	25	21	4	25
	Integrated farming system	Development of scientific rice based Integrated farming system	12.08.2017 to 14.08.2017	3	Borkachari gaon	Rural Youth	-	-	-	21	9	30	09	21	30
	Production and Management Technology	SRI production technology of Sali rice	19.08.2017	1	Jamuguri	Farmer & Farm women	17	6	23	2	0	2	15	10	25
	Crop production	Crop production technology of rabi pulses and oilseeds	23.10.2017	1	Nasatra	Farmer & Farm women	21	5	20	-	-	-	21	5	26
	Contingency crop planning	Farmers scientist interaction on contingency	2.11.2017	1	Kampur	Farmer & Farm women	21	5	20	-	-	-	21	5	25

		crop planning													
	Contingency crop planning	Farmers scientist interaction on contingency crop planning	8.11.2017	1	Kathiatoli	Farmer & Farm women	21	5	20	-	-	-	21	5	25
	Market study	Market oriented crop production planning after post flood situation	14.11.2017	1	Dhing	Rural youth	23	5	20	-	-	-	23	5	28
	Market study	Market oriented crop production planning after post flood situation	24.11.2017	1	Hojai	Farmer & Farm women	21	5	26	-	-	-	21	5	26
	Crop production and management	Scientific production technology of Boro rice	14.12.2017	1	Boragaon	Farmer & Farm women	21	5	20	-	-	-	21	5	25
	Crop production and management	Scientific production of wheat	20.12.2017	1	Nebukali	Farmer & Farm women	-	-	-	21	4	25	21	4	25
	Weed	Weed management	19.01.2018	1	Nebukali	Farmer & Farm women	-	-	-	21	4	25	21	4	25

	manage ment	in wheat													
	Crop producti on and manage ment	Scientific crop production technology of fibre crops	17.02.2018	1	Kampur	Farmer & Farm women	17	6	23	2	0	2	15	10	25
	Crop producti on	Scientific crop production technology of sesame	6.03.2018	1	Borkachariga on	Farmer & Farm women	-	-	-	23	2	25	23	3	26
Soil Sc.	Soil fertility	Soil fertility management	15.11.17 – 19.11.17	**5**	Borkachari gaon	Farmer & farm women	19	2	21	-	3	3	1	5	25 4
	Soil fertility	Soil fertility management	29.01.18 – 2.02.18	**5**	Nasatra	Farmer & farm women	6	2	8	10	4	14	16	6	22
	Soil testing	Operation and Handling of Mridapariks hak for the ADOs of Hojai district.	26.07.17	**1**	DAO, Hojai	EP	**10**	**4**	**14**	**5**	**2**	**7**	**19**	**6**	**25**
	Producti on of organic input	Dairy farming and vermicompo sting.	22.07.17 - 31.07.17	**10**	RUDSETI, Nagaon	RY	**12**	**10**	**22**	**9**	**12**	**21**	**21**	**22**	**43**

	Production of organic inputs	Training to Krishi Sakhis on Vermicomposting Organized by NRLM, District Mission Management Unit, Nagaon	21.02.18 & 22.02.18	**2**	NRLM, District Mission Management Unit, Senchuwa, Nagaon.	Farmer & farm women & Rural Youth	6	2	8	10	4	14	16	6	22
	Soil testing	Operation and Handling of Mridaparikshak for the ADOs of Hojai district.	6-7/06/17	**1**	RARS, Shillongani	EP	**10**	**4**	**14**	**5**	**2**	**7**	**19**	**6**	**25**
	Soil fertility	Soil Health Management	19.01.18	1	Moirabari	Farmer & farm women	6	2	8	10	4	14	16	6	22
Home Science															
	Value Addition	Value Addition of Fruits & Vegetables	10.10.17	1	Borkachari gaon	Farm Women & Rural youth	-	-	-	-	26	26	0	26	26
	Women &Child Care	Women &Child Care	25.03.18	1	Borkachari gaon	Farm Women & Rural youth	-	-	-	-	25	25	0	25	25
Fishery	Integrated fish	Integrated	18.12.17-	5	Bamungao	Farmer & farm women	4	2	6	8	16	26	12	18	30

Science	farming with horticultural crops	farming	22.12.17		n											
	Composite fish culture	Fish production	29.01.18-02.02.18	5	Pub thoria, Kaliabor	Practicing Farmer	2	-	2	25	-	25	27	-	27

(D) Vocational training programmes for Rural Youth

Crop / Enterprise	**Date (From – To)**	**Duration (days**	**Area of training**	**Training title***	**No. of Participants**									**Impact of training in terms of Self employment after training**				**Whether Sponsored by external funding agencies (Please Specify with amount of fund in Rs.)**
					General			**SC/ST**			**Total**							
					M	**F**	**T**	**M**	**F**	**T**	**M**	**F**	**T**	**Type of enterprise ventured into**	**Number of units**	**Number of persons employed**	**Avg. Annual income in Rs. generated through the enterprise**	
Home Science	03rd Jan to 12 Jan , 2018	10	Entrepreneurship	Vocational training for Rural	0	17	17	0	08	08	0	25	25					

			development and skill development	Women on Entrepreneurship Development through Different Jute Products Making											5	10		
Home Science	05th Mar to16th Mar, 2018	12	Entrepreneurship development and skill development	Vocational training for Rural Women on Entrepreneurship Development through Cutting and Tailoring	0	12	12	0	04	04	0	16	16		5	6		

*training title should specify the major technology /skill transferred

*training title should specify the major technology /skill transferred

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

On/ Off/ Vocational	Beneficiary group (F/ FW/ RY/ EP)	Date (From-To)	Duration (days)	Discipline	Area of training	Title	No. of Participants									Sponsoring Agency	Amount of fund received (Rs.)
							General			SC/ST			Total				
							M	F	T	M	F	T	M	F	T		

Total																	

3.4. Extension Activities (including activities of FLD programmes) (Please mention specific Extension Activity conducted by the KVK such as Field Day, Kisan Mela, Exhibition, Diagnostic Visit, etc) during 2017-18

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
78	Advisory services	a)Cultivation practices of field crops and horticultural crops b) Disease and pest management c) Fish farming d) Soil health management	Date: 1st Apil,2017 to 30th Mach,2018 Duration : 1 day	78	37	3	40	150	124	274	11	-	11	198	127	325
	Diagnostic visit	a)Cultivation practices of field crops and horticultural crops b) Disease and pest management c) Fish farming d) Soil health management	Date: 1st Apil,2017 to 30th Mach,2018 Duration : 1 day	41	91	13	104	20	12	32	-	-	-	111	25	136
	Field day	a) Summer pulse under CFLD b) Summer black	Date: (29/05/17)	6	168	85	253	132	75	207	15	3	18	315	160	475

		gram c) Field pea , var. Pakash d) Rabi oilseed Toria under CFLD e) Rabi pulse, Lathyrus va : Ratan f) Rabi Oilseed under	(25/05/17) (15/02/18) (20/02/2018) (8/03/18) (13/02/18) Duration : 1 day													
	Group Discussion			-	-	-	-	-	-	-	-	-	-	-	-	-
	Kishan Gosthi			-	-	-	-	-	-	-	-	-	-	-	-	-
	Kishan Mela			-	-	-	-	-	-	-	-	-	-	-	-	-
	Film show	Soil Health Management , Organic Farming , Doubling farmers Income, Petroleum conservation	Date: (26/08/2017) (3/12/17) (05/12/17) (27/01/2018) (28/02/18) (17/03/18) Duration : 1 day	6	-	-	-	-	-	-	-	-	-	-	-	-
	SHG formation			-	-	-	-	-	-	-	-	-	-	-	-	-
	Exhibition	Technology and exhibits demonstrated at KVK, Nagaon	Date: (19/08/2017) (26/08/17) (28/02/18) Duration : 1 day	3	336	111	447	140	95	235	61	8	69	549	202	751
	Scientists visit to farmers	a)Cultivation practices of field crops and	Date: 1st Apil,2017	52	33	16	49	25	31	56	-	-	-	93	12	105

	fields	horticultural crops b) Disease and pest management c) Fish farming d) Soil health management	to 30th Mach,2018 Duration : 1 day													
	Plant/ Animal Health camp	Animal Health camp	Date:04/08/17 Duration : 1 day	1	7	-	7	15	4	19	-	-	-	22	4	26
	Farm science club			-	-	-	-	-	-	-	-	-	-	-	-	-
	Ex-trainee Sammelan			-	-	-	-	-	-	-	-	-	-	-	-	-
	Farmers seminar/ workshop			-	-	-	-	-	-	-	-	-	-	-	-	-
	Method demonstration	i)Seedling root treatment with Bio fertilizer ii) Seedling root treatment on rice with Bio fertilizer iii)Bordeaux mixture preparation iv)Fertilizer application in coconut v)Application of biofertilizer in toria vi) Application of biofertilizer in rice vii)) Application of biofertilizer in lentil viii)) Application of biofertilizer in sesame	Date: 18/07/17 24/01/17 08/07/17 26/10/17 22/07/17 28/10/17 10/3/18 Duration : 1 day	8	84	36	120	168	33	201	-	-	-	212	109	321
	Celebration of important days	a) World Environment	Date: (5/06/17)	9	1026	615	1641	567	226	793	85	23	108	1464	1078	2542

		Day b) World Honey Bee Day c) New India Manthan: Sankalp se Siddi Women's Famers Day d) Agricultural Education Day e) World Soil Day f) PCRA g) National Science Day h) Krishi Unnati Mela	(19/08/2017) (26/08/2017) (15/10/17) (3/12/17) (05/12/17) (27/01/2018) (28/02/18) (17/03/18) Duration : 1 day													
	Exposure visits															
	Electronic media (CD/DVD)															
	Extension literature	i) Tisi khetir unnat krishi pranali ii) Matar maahor unnat krishi pranali iii)Til khetir unnat krishi pranali iv) Soriyoh khetir nunnat krishi pranali	Date: 1st Apil,2017 to 30th Mach,2018	4	-	-	-	-	-	-	-	-	-	-	-	-
	Newspaper coverage	1) World Soil Day 2)Green gram cultivation practices	Date: (7/12/18) (8/12/18) (23/05/17)	12	-	-	-	-	-	-	-	-	-	-	-	-
	Popular articles	Soil health cards for	Magazine	1	-	-	-	-	-	-	-	-	-	-	-	-

		sustainable agriculture on " Mrittika "	published by RAWEP student during 2017													
	Radio talk	i) Live programme related to agriculture	Date: 18/07/17 (2 programme) Duration : 45 minutes	9	-	-	-	-	-	-	-	-	-	-	-	-
	TV talk			-	-	-	-	-	-	-	-	-	-	-	-	-
	Training manual			-	-	-	-	-	-	-	-	-	-	-	-	-
	Soil health camp	Awareness on soil health management along with soil health card distribution	Date: 5/12/2018	1	96	87	183	115	67	182	18	17	35	294	71	365
	Awareness camp	i) Awareness on Petroleum Conservation ii) Animal health camp	Date: (05/12/17) (04/08/17) Duration : 1 day	2	32	33	65	11	15	26	-	-	-	54	37	91
	Lecture delivered as resource person	a)Cultivation practices of field crops and horticultural crops b) Disease and pest management c) Fish farming d) Soil health management	1st Apil,2017 to 30th Mach,2018 Duration : 1 day	25	127	148	275	329	152	481	11	44	55	523	288	811
	PRA	a) Use of Participatory Rural Appraisal tools in the village Bamungaon for	Date: 6/10/17	2	20	11	31	22	9	31	-	-	-	42	21	63

		assessment and appraisal b) Use of Participatory Rural Appraisal tools in the village Bakacharigaon for assessment and appraisal	13/02/2018 Duration : 1 day													
	Farmer-Scientist interaction	Post flood contingency measure	Date:(23/10/17) (21/11/17) Duration : 1 day	7	78	65	143	111	86	197	-	-	-	246	95	340
	Soil test campaign	World Soil Day	Date:05/12/18 Duration : 1 day	1	91	32	123	186	21	207	17	18	35	218	147	365
	Mahila Mandal Convener meet															
	Any other (Please specify)															
	Farmers Visit to KVK	a) Purchasing of seed and planting material b) Disease and pest management c) Fish farming d) Soil health management e) Cultivation practices of field crops and horticultural crops	Date: 1st Apil,2017 to 30th Mach,2018 Duration : 1 day	129	47	25	72	33	24	57	-	-	-	77	52	129
	News letter	KVK Newletter		1	-	-	-	-	-	-	-	-	-	-	-	-
	Research papers	1) Fertigation level and Mulching in cauliflower (Brassica oleracea L. var botrytis)cv.	1)International Journal of Agriculture	4	-	-	-	-	-	-	-	-	-	-	-	-

		Snowball white 2) Traditional crop management practices of Central Brahmaputra Valley Zone of Assam, India 3) Integrated weed management in Chilli (Capsicum annum) grown after rice (Oryza Sativa) under rice fallow system 4) Rauvolfia serpentina (Sarpagandha)- An overview	Sciences. Volume 9, Issue 21,2017,pp 4226-4228 2) International Journal of Current Microbiology and Applied Sciences. Volume 6, Issue 7,2017,pp 2405-2407 3) Indian Journal of Current Agronomy Volume 62, Issue 3 ,pp 348-353 4) Journal : E – planet ,Volume 62, Issue no 1 ,pp 1-9													
	Leaflets/folders			2	-	-	-	-	-	-	-	-	-	-	-	-
	Abstract	i) Water management in Ahu paddy for doubling farmers' income		4	-	-	-	-	-	-	-	-	-	-	-	-

	published	ii) Yield gap analysis of Utera cropping of Linseed in Rice –fallow areas iii) Impact of Cluster Demonstration on yield improvement of Toria in Nagaon district of Assam iv) Impact of Frontline Demonstration on Yield of Yield of Rabi Pulses under Rainfed Condition of Nagaon District for Augmenting Farmers' Income														
	Soil sample analyzed	Status of soil condition and recommended dose of fertilizer for soil health management	Date: 1st Apil,2017 to 30th Mach,2018 Duration : 1 day	50	15	8	23	22	5	27	-	-	-	43	7	50
Grand Total																

Baseline survey report of village Barkacharigaon (DFI village)

i) **PRA Map of the village** :

ii) Brief Profile of the village Borkacharigaon:

Village	Barkacharigaon
Block	Khagorijaan
District	Nagaon
State	Assam
Agro climatic zone	Cental Brahmaputra Valley Zone
Pin Code	782002
Major soil type	Sandy loam

Total population	643, Male: 391(60.80%) , Female:252(39.20%)
Total household	105
Farm families	85(80.95%)
Literacy rate:	53 % (Male : 67.50% Female:32.50%)
Community	ST
Average annual income	Rs. 46000

iii) Land information :

Geographical area(ha)	136
Cultivated area(ha)	121
Homestead land(ha)	1.50
Fishery land(ha)	2.67
Up land (ha)	40.80
Medium land (ha)	93.07
Low land(ha)	2.13
Major crops	Rice (mainly Sali ,boro) Var: Biroi, Aijung,Kabra badam,Goyan
Perennial Crop	Arecanut, Betel vine
Cropping pattern	Sali rice-fallow

iv) Major sources of irrigation (No.) :

- Tube well:45
- Ponds:25
- STW: 5 nos.
- Electrical pump set: 2 nos.
- Farm implements (private): Tractor- 1no
  Power tiller- 2 nos.

v) SWOT Analysis of Village Barkacharigaon :

Strength:

1.Most of area of the village is flood free
2.Fertile soil
3.Perenial stream passing nearby the village

Weakness:

1.Low level of farm mechanization
2.Lack of technical knowledge on improved crop management practices.
3. Sometimes elephants destroy the crop fields
4.Less accessible to credit from financial instruction
5. Electrification of 30 % of the households are not done yet.
6.Sanitary latrine
7. Drinking water facility
8.Indegenous livestock with poor productivity

Opportunities:

1.Potential area for integrated farming system
2. Cropping intensity as well as income can be increased
3.Scope of expansion of area under pulse and oilseed
4.scope to introduce new breed of poultry, duck ,pig, cows.
5. Scope for entrepreneurship development for SHGs

Threat :

1.Fluctuation in market price in agricultural inputs and products
2.High cost of animal feed, diseases
3.Crop damage due to sudden outbreak of insect pest and diseases

3.5 Production and supply of Technological products during 2017-18

A. SEED MATERIALS

Major group/class	Crop	Variety	Quantity Produced (q)	Value (Rs.)	Number of recipient/ beneficiaries		
					General	SC/ST	Total
CEREALS	Sali Paddy	Ranjit Sub-1 (BS)	68.30	546400	127	228	355
	Sali Paddy	Gitesh (FS)	41.10	156180	94	169	263
	Sali Paddy	Ranjit (FS)	5.43	179190	12	25	37
	Sali Paddy	Chikan (CS)	0.32	1056	-	3	3
	Sali Paddy	Gomati (CS)	0.15	495	1	1	2
	Sali Paddy	Sahabhagi (CS)	0.02	66	1	-	1
	Sali paddy	(Dishang)	0.60	1980	5	2	7
OILSEEDS	Toria	TS 38 (FS)	14.05	133475	56	142	198
	Summer Sesamum	Nagaon Local (TLS)	1.25	22500	122	133	255
PULSES	Kharif Greengram	IPM-2-3 (CS)	0.20	3200	9	3	12
	Kharif Blackgram	PU-31 (CS)	0.30	4800	14	2	16
	Lentil	Moitree(CS)	0.24	2808	5	-	5
OTHERS (Specify)	Dhaincha seed	*S. aculeata (TLS)*	2.38	15470	26	5	31

	Pea	Prakash (CS)	0.11	715	7	8	15
	Potato	Pukhraj, Chipsona	1.63	1630	9	2	11
	Turmeric	Megha turmeric-1	0.20	800	13	16	29
	Fodder	Congo Signal and Hybrid napier	2000 rooted slips	1000	5	6	11

A1. SUMMARY of Production and supply of Seed Materials during 2017-18

Sl. No.	Major group/class	Quantity (ton.)	Value (Rs.)	Number of recipient/ beneficiaries		
				General	SC/ST	Total
1	CEREALS (Rice)	11.59	338967	113	200	313
2	OILSEEDS	1.53	155975	178	275	453
3	PULSES	0.074	10808	28	5	33
4	OTHERS	0.19	19615	60	37	97
TOTAL		**13.38 and 2000 rooted slips of fodder**	**525365**	**379**	**517**	**896**

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

Major group/class	Crop	Variety	Numbers (In Lakh)	Value (Rs.)	Number of recipient beneficiaries		
					General	SC/ST	Total
Spices	**Turmaric**	**Megha Turmaric 1**	**20 kg**	**800**	**13**	**16**	**29**

B1. SUMMARY of Production and supply of Planting Materials (In Lakh) during 2017-18

Sl. No.	Major group/class	Numbers (In Lakh)	Value (Rs.)	Number of recipient beneficiaries		
				General	SC/ST	Total
2	**Spices (Megha Turmaric 1)**	20 kg	800	13	16	29
TOTAL		**20 kg**	**800**	**13**	**16**	**29**

C. Production of Bio-Products during 2017-18

Major group/class	Product Name	Species	Quantity		Value (Rs.)	Number of Recipient /beneficiaries		
			No	(qt)		General	SC/ST	Total
BIOAGENTS								
BIOFERTILIZERS	*Azotobacter*	-	-	40	3000	68	26	120
1	*Azospirillum*	-	-	40	3000	59	24	68
2	PSB	-		40	3000	153	58	245
3	*Rhizobium*	-		40	3000	21	14	55
4								
BIO PESTICIDES								
1	*Trichoderma viridae*			5	375	-	-	15
2	*A. Caroliliana*			250	-	-	-	5

C1. SUMMARY of production of bio-products during 2017-18

Sl. No.	Product Name	Species	Quantity		Value (Rs.)	Number of Recipient beneficiaries		Total number of Recipient beneficiaries
			Nos	(kg)		General	SC/ST	
1	BIOAGENTS							
2	BIO FERTILIZERS	*Azotobacter*	-	40	3000	-	-	120
3		*Azospirillum*	-	40	3000	-	-	68
		PSB	-	40	3000	-	-	245
		Rhizobium	-	40	3000	-	-	55
	BIO PESTICIDE	*Trichoderma viridae*		5	375	-	-	15
	Azolla	*A. Caroliliana*	-	250	-	-	-	5
	Vermicompost	-	-	1000	-	-	-	45

D. Production of livestock during 2017-18

Sl. No.	Type of livestock	Breed	Quantity		Value (Rs.)	Number of Recipient beneficiaries		
			(Nos)	Kgs		General	SC/ ST	Total
1								
2								

D1. SUMMARY of production of livestock during 2017-18

Sl. No.	Livestock category	Breed	Quantity		Value (Rs.)	Number of Recipient beneficiaries		Total number of Recipient beneficiaries
			Nos	(kg)		General	SC/ST	
1								
2								

3.6. Literature Developed/Published (with full title, author & reference) during 2017-18

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

(B) Articles/ Literature developed/published

Item	Title /and Name of Journal	Authors name	Number of copies
Research papers			
1.	Fertigation level and Mulching in cauliflower (*Brassica oleracea* L. var *botrytis)* cv. Snowball white International Journal of Agriculture Sciences Volume 9, Issue 21,2017, pp 4226-4228	Savita Bhoutekar, Luchon Saikia, Bonti Gogoi, Sonbeer Chack	-
2.	Traditional crop management practices of Central Brahmaputra valley zone of Assam, India International Journal of Current Microbiology and Applied Sciences Volume 6, Issue 7, pp- 2405-2407	Bonti Gogoi, Seema Bhagowati, Sibani Das	-

3.	Integrated weed management in chilli (*Capsicum annuum*) grown after rice (*Oryza sativa)* under rice fallow system Indian Journal of Agronomy Volume 62, Issue 3,pp 348-353	Bonti Gogoi and Jayanta Deka	-
4.	*Rauvolfia serpentina* (Sarpagandha)- An overview Journal : E-planet Volume 15, Issue no 1, pp-1-9	Bonti Gogoi and Savita Bhoutekar	-
Training manuals	Training manual on seed production technology of Pulses	Bonti Gogoi, Seema Bhagowati, Sibani Das	100
Technical Report			
1.	DEE Annual report	S. Bhagowati, B. Gogoi, S. Das, N. Deka	
2.	ATARI Annual Report	S. Bhagowati, B. Gogoi, S. Das, N. Deka	
3.	SAC Report	S. Bhagowati, B. Gogoi, S. Das, N. Deka	
4.	Annual Progress report	S. Bhagowati, B. Gogoi, S. Das, , N. Deka	
5.	ZREAC Report (Kharif)	S. Bhagowati, B. Gogoi, S. Das, , N. Deka	
6.	ZREAC Report (Rabi)	S. Bhagowati, B. Gogoi, S. Das, , N. Deka	
7.	MonthlyProgress reports	S. Das	
8.	KMAS report	S. Das	
9.	CCC report	S. Das	
10.	Comprehensive action plan	S. Das	
11.	Soil and water quality report	S. Bhagowati	
12.	Soil quarterly report	S. Bhagowati,	
13.	Significant Achievement report	S. Das	
14.	Quarterly Progress report	S. Das	
15.	TSP Quarterly report	B. Gogoi	
16.	Monthly Direct Benefit Transfer report (DBT)	S. Bhagowati, B. Gogoi, S. Das, ,	

		N. Deka	
17.	Monthly Expenditure report (Swatchata related activities)	S. Bhagowati, B. Gogoi, S. Das, , N. Deka	
Book/ Book Chapter			
Popular articles	Soil health cards for sustainable agriculture Article on"Mrittika" an Magazine published by RAWEP student during 2017	S. Bhagowati	100
Technical bulletins			
Extension bulletins	Tisi khetir unnat krishi pranali	S. Bhagowati, B. Gogoi, S. Das, , N. Deka	100
	Matar maahor unnat krishi pranali	S. Bhagowati, B. Gogoi, S. Das, , N. Deka	100
	Til khetir unnat krishi pranali	S. Bhagowati, B. Gogoi, S. Das, , N. Deka	100
	Soriyoh khetir bigyansonmoto krishi pranali	S. Bhagowati, B. Gogoi, S. Das, , N. Deka	100
Newsletter	KVK Newsletter	Bonti Gogoi, Seema Bhagowati, Sibani Das, N. Deka	100
Conference/ workshop proceedings/ **Abstract**	Water management in Ahu paddy for doubling farmers' income	Bonti Gogoi, R. K. Thakuria and N. Deka	
	Yield gap analysis of utera cropping of Linseed in Rice-fallow areas	B. Gogoi, S. Das, S. Bhagowati, N. Deka	
	Impact of cluster frontline demonstration on yield improvement of Toria in Nagaon district of Assam	S. Bhagowati, B. Gogoi, S. Das, , N. Deka	
	Impact of frontline demonstration on yield of Rabi pulses under rainfed condition of Nagaon district for augmenting farmer's income	S. Das, B.Gogoi, S. Bhagowati, N. Deka	
Leaflets/folders			
e-publications			
Any other (Pl. specify)			
TOTAL			**700**

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

(C) Details of Electronic Media Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Developed By
1	CD	Success story of Mint cultivation	ATARI Zone VI
2	CD	Success Story of Women empowerment through agriculture	
3	CD	Success Story on Innovation against rodent protection	
4	CD	Success Story on marigold cultivation in rice fallow	

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)

1. FARMERS PROSPER THROUGH PADDY – LATHYRUS SEQUENTIAL CROPPING IN NAGAON DISTRICT

Mono-cropping is a common practice followed by the farmers of Nagaon District. The fertile lands mostly remain unproductive as fallow after harvesting of rice except few pockets where horticulture crops are predominantly grown. So it is necessary to increase the productivity of farmers in this region by growing another crop after paddy utilizing the residual moisture. Hence Paddy – Grasspea commonly known as lathyrus sequential cropping plays a significant role in total productivity of crops in Nagaon District which is very much suitable as relay cropping.Moreover the area under Lathyrus is shrinking in the District as well as

in Assam due to lack of suitablevariety with low ODAP content. In order to popularize the lathyrus crop among the farmers of Nagaon District.KVK Nagaon took up CFLD Rabi Pulse programme under NFSM during the year 2017-18 covering 20 ha area.Our interventions were the variety, seed treatment methodology organizing awareness programme on ODAP content, its role in managing soil fertility etc. KVK Nagaon was trying hard to expand the area under this crop and thereby cover more and more rice fallow land with a view to doubling the farmers income. Awarness meeting was organised involving different villages under Raha and Dolonghat block during 2017 -18 and there after hands on training and demonstration were conducted on different localities using scientific intervention like Lathyrus var Ratan with 0.1% ODAP content, seed treatment with biofertilizer Azotobacterand PSB as a part of INM practice (50% of recommended fertilizer) covering 65 farmers in the District. Field days were organized to showcase the technologies to the neighbouring farmers of the villages for large scale adoptionPre- intervention, the farmers was confined to only single crop of paddy leaving the field fallow during Rabi Season .Returns from farming were very nominal.But with the adoption of this Lathyrus var Ratan the average productivity recorded was 8.16 q/ha compared to local var yield 5.12 q/ha.The average potential yield of the var is 10-12 q/ha.

Specific characteristics of technology and performance:

Specific Characteristic	**Crop**	**Variety**	**Area (ha)**	**No. of farmers**	**Yield (q/ha)**	**Control Yield (q/ha)**	**Gross cost (Rs/ha)**	**Gross return (Rs./ha)**	**Net return (Rs/ha)**	**B:C ratio**
1.Maturity 110-120 days 2.Suitable for utera condition 3.Tolerant to stress, bold seed	Lathyrus	Ratan	20	65	8.16	5.12	22147	62947	40800	2.8

IMPACT: Looking into the success of lathyrus cultivation using Variety Ratan under CFLD programme many farmers came forward during 2017 -18 and procured the seeds of Lathyrus var Ratan from the fellow farmers who had cultivated in previous year. With the intervention of KVK, farmers were motivated to accept the var in a massive way for horizontal expansion as there is minimal involvement of cost of production in relay cropping. So Farmers practiced it in an extensive way as relay cropping after rice for higher economic return with low cost of cultivation. As a result the soil fertility was improved due to the cultivation of pulses as relay cropping in paddy – lathyrus cropping sequence thereby increasing the production of succeeding crop. Ultimately Lathyrus has got an impact in increasing both production and area in Nagaon district .

2. DOUBLING FARMERS INCOME WITH INTENSIVE SEQUENTIAL CROPPING IN RICE FALLOW AREA

Borkachari village is a tribal village. Since decades the farmers were involved in the practice of monocropping with traditional rice varieties and avoid second crop due to water scarcity. During 2016-17, KVK Nagaon came in contact with the village

from a programme organized by IFFCO in the adjoining village but at same time KVK Nagaon got a project under TSP programme so we approached all adjacent tribal villages. Borkachari village was among them. Since we were also new to them, it was a challenging task to convince them to take up our technologies. Mr. Dehiram Basumatary, a progressive farmer of the village took up this challenge and also helped us to mobilize his fellow farmers. His trust and courage towards the acceptance of technology of growing a medium duration rice variety TTB 404 (Shraboni) gave the village the real fruit of success. The trust over KVK team was so high that they were ready to cultivate another crop so we suggested them to follow relay cropping with rabi crops (Lentil, Grasspea, Linseed) and a third crop (kharif sesame). They also took up seed production of Toria var TS 38 in 3 ha of land. The B:C ratio was almost thrice (2.97) over the traditional rice monocropping (1.03) practice. The major drift in the cropping pattern is seen with the conversion of almost 37% land area to double/triple crop. Along with higher economic returns, a positive vibe among the farmers can be felt as they have accepted KVK team and are also sharing their experience, storing the seeds for next season and disseminating technology with the fellow farmers of nearby villages.

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

Sl.No	Particulars	Remarks
1,	Title of innovation	Mechanical Control of Squirrel
	Thematic area	Pest management
	Profile of innovator	Name: Sri Powal Nath Address: Vill. Jamuguri, Block: Dolonghat Dist: Nagaon Mobile number: 9678542550/7578943295 Age: 51 years Education level: HS passed Size of land holding (acres): 4 acre
	Problem/ challenge addressed	Heavy destruction of coconut and areca-nut orchards due to squirrel attack at immature nut stage resulting complete loss of yield in the rural areas.
	Description of innovative practice/technology	At first, step has been taken to restrict the jumping of squirrel from one plant to another. For that the farmer has to cut one coconut plant between two coconut plants in order to make with length spacing. After widening the spacing one plain sheet having length of 2-3 feet has to fix put around the trunk of a coconut plant 8-10 feet above the ground level. Small sized nails are used to fix the plain sheet around the trunk in order to minimize the trunk/stem injury. Notes: Rusting can be avoided for long time by using plain sheet. Big nails should be avoided. The plain sheet used for wrapping the stem, its length should be 2-3 inch more than the periphery of the trunk.
	Practical utility	Following this pest management practice he was able to harvest handsome amount of coconuts and arecanut from his own bari (homestead garden). Other farmers of this village are also adopting this technique, by which they are getting good crop.
	Source of information	Initially he attempted the technique by using fishing net in a bamboo frame around the trunk of the coconut tree. But this technique was less durable and did not give full protection. As he was a contact farmer of KVK Nagaon since 2011, he discussed the problem with KVK scientists and he was suggested to try the technique with plain tin sheet.
	Economics/Profitability of	Gross return: Rs. 28000/-

	innovative practice/ technology (costs and return) (per intervention or area or household)	Gross cost: Rs. 500/- Net return: Rs. 27500/- B:C ratio: 56:1
	Potential : Acceptance level, horizontal spread of innovation and number of farmer adopting	KVK scientists visited his plot and arranged an awareness programme for popularization of the technique within the district. He was also invited by different organization as a resource person to spread the technique. He was for interviewed by AIR also and thus the technology was spread to other parts. Now people are adopting this technique and getting benefited.

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

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

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

- Identification of courses for farmers/farm women: Through Group discussion, PRA survey, Field Visit
- Rural Youth : Through Group discussion, PRA survey
- In-service personnel : Through Group discussion

3.11 Field activities

i. Number of villages adopted : 5

ii. No. of farm families selected : 148

iii. No. of survey/PRA conducted : 2

3.12. Activities of Soil and Water Testing

Status of establishment of Lab : Functioning

1. Year of establishment : 2017-18
2. List of equipments purchased with amount :

Sl. No	Name of the Equipment			Qty.	Cost
	S&WT lab	Mini lab/ Mridaparikshak	Manufacturer		
1		Mridaparikshak	Nagarjuna.Agro Chemicals_PvLLtd., Hyderabad	2	Rs. 90300.00 each

3. Details of samples analyzed (2017-18) :

Details	No. of Samples analysed	No. of Farmers	No. of Villages	Amount (In Rupees) realized
Soil Samples	50	50	5	-
Total	50	50	5	-

18. Details of Soil Health Cards (SHCs) (2017-18)

a. No. of SHCs prepared: 500
b. No. of farmers to whom SHCs were distributed: 500
c. Name of the Major and Minor nutrients analyzed:…13…
d. No. of villages covered:
e. Soil health card based nutrient management in different crops (pl. submit in brief in separate page)

	GG*/BG*	RD* (kg/bigha)	VL*	L*	M*	H*	VH*			VL	L	M	H	VH
Nitrogen	Urea	3	5	4	3	2	2		Urea	0	0	0	0	0
Phosphors	SSP	30	45	38	30	23	15		DAP	15	12	10	8	5
Potasium	MOP	15	23	19	15	11	8		MOP	23	19	15	11	8
	Rapseed	RD (kg/bigha)	VL	L	M	H	VH			VL	L	M	H	VH
Nitrogen	Urea	12	18	15	12	9	6		Urea	12	10	8	6	4
Phosphors	SSP	30	45	38	30	23	15		DAP	15	12	10	8	5

Potasium	MOP	4	5	4	4	3	2		MOP	5	4	4	3	2
	Rice	RD (kg/bigha)	VL	L	M	H	VH			VL	L	M	H	VH
Nitrogen	Urea	17.36	26.04	21.70	17.36	13.02	8.68		Urea	23	19	15	11	8
Phosphors	SSP	16.67	25.01	20.84	16.67	12.5	8.34		DAP	9	8	6	4	3
Potasium	MOP	8.91	13.37	11.14	8.91	6.68	4.46		MOP	13	11	9	7	5

*GG/BG = Greengram/Blackgram
*RD = Recommended dose
*VL = Very low
*L = Low
*M = Medium
*H = High
*VH = Very high

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

Message type	Crop		Weather		Awareness		Total	
	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary
Text only	52	550	65	240	61	129	178	919
Total	**52**	**550**	**65**	**240**	**61**	**129**	**178**	**919**

3.14 Contingency planning for 2017-18

a. Crop based Contingency planning

Contingency (Drought/ Flood/ Cyclone/ Any other please specify)	**Proposed Measure**	**Proposed Area (In ha.) to be covered**	**Number of beneficiaries proposed to be covered**		
			General	**SC/ST**	**Total**

Drought	Introduction of new variety or crop 1. Introduction of New variety GITESH, Dishang, Ranjit Sub 1, Bahadur Sub 1, Swarna sub 1	10 ha	15	10	25
	Introduction of Resource Conservation Technologies 1. SRI Technique in Sali rice 2. Direct seeding of Sali rice	6 ha 5ha	8 10	4 5	12 15
Flood	Distribution of seeds planting materials and fodder	10.0	15	2	17

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**

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)
Gerbera – Red Gem ,Red Monarch	-	Gaining popularity day by day	-	-

Training and Prunning in Assam Lemon	-	Gaining popularity day by day	-	-
Fertilizer Application in Coconut and Arecanut	-	20%	-	-
Gladiolus	-	Gaining popularity day by day	-	-
Popularize vegetable crop Broccoli	-	8%	-	-
Vermicomposting	-	15%	-	-
Sali Rice variety (Ranjit)	-	60%	-	-
Boro Rice(Var: Swarnav, Dinanath)	-	15%	-	-
SRI Practice in rice	-	5%	-	-
Toria variety TS-36, TS-38, M-27)	-	45%	-	-
Jute variety (Tarun)	-	15%	-	-
Greengram Variety (Pratap)	-	20%	-	-
Mushroom Cultivation	-	Gaining popularity day by day	-	-
Honey bee rearing	-	Gaining popularity day by day	-	-
T-perch technology	-	Gaining popularity day by day	-	-
Ginger Candy Preparation	-	5%	-	-
French Bean – Arka Anoop and Arka Komal	-	Gaining popularity day by day	-	-
Training and Prunning in Assam Lemon	-	Gaining popularity day by day	-	-
Fertilizer Application in Coconut and Arecanut	-	20%	-	-
Application of lime in Oilseeds and Pulses	-	20 %	-	-
Use of Bio Fertilizer in Rice and Pulse	-	Gaining popularity day by day		

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)

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 organization	Nature of linkage
DAO, Nagaon	Action plan preparation, Tractor distribution, diagnostic field visit, Awareness programme, farmers scientist interaction, Nursery Management, resource person
District Fisheries Deptt.	Training, action plan preparation, diagnostic visit, farmers scientist interaction
District Vety Deptt.	Training, action plan preparation, diagnostic visit, vaccination camp
ATMA , Nagaon & Morigaon	Resource Person, diagnostic visit, farmers scientist interaction
ASRLM (NRLM) Nagaon	Project preparation, resource person, technical discussion, farmers scientist interaction
NABARD	Project preparation, Resource Person
SIRD	Resource Person
NGOs/SHG	Technical guidance, resource person, demonstration programme
Kaliabor College, Nagaon	Resource Person for training
RUDSETI, Nagaon	Resource Person
Bhartiya Kisan Sangh	Awareness programme, technical discussion
KASS and NASS	Awareness programme, farmers scientist interaction, Resource Person
Gram-panchayats of Nagaon district	Awareness among farmers on agriculture and allied sectors

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 2017-18

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

5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district: Yes

Sl. No.	Programme	Nature of linkage	Remarks
	ATMA , Nagaon & Morigaon	Resource Person, diagnostic visit, farmers scientist interaction	-

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

S. No.	Programme	Nature of linkage	Constraints if any

5.5 Nature of linkage with National Fisheries Development Board : NA

S. No.	Programme	Nature of linkage	Remarks

6. PERFORMANCE OF INFRASTRUCTURE IN KVK DURING 2017-18

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	Fishery			IMC	24.5 kg			1960.00	Ongoing
2	Azolla unit	2013	-	*A. carolinniana*	200 kg	-	-	-	-
3	Vermicompost unit	2013	-	Isenia *foetida*	1000 kg	-	-	-	-
4	Fruit crops(Mang, Apple bar, Guava, Litchi)	2016	0.13ha	Alfanso, Amrapalli, Langra Lucknow 49, Muzafapar	In Vegetative strage				

6.2 Performance of instructional farm (Crops) including seed production

CROP	Yield obtained (q/ha)						Yield increase (%)	Expenditure and returns (Rs./ha)								Net returns increase (%)
	Check			Demo				Check				Demo				
	Max.	Min.	Av.	Max.	Min.	Av.		Gross Cost	Gross return	Net Return	B:C	Gross Cost	Gross return	Net Return	B:C	

								(Rs/ ha)	**(Rs/ ha)**	**(Rs/ha)**	**ratio**	**(Rs/ ha)**	**(Rs/ ha)**	**(Rs/ha)**	**ratio**	
GREENGRAM	4.18	3.37	3.79	6.8	5.3	6.3	**66.2**	25,800	35400	9,600	1.37	25,800	52500	26,700	2.03	**32.6**
BLACKGRAM	3.92	3.6	3.12	6.2	5.1	5.9	**89.1**	23,400	29000	5,600	1.24	24,300	44900	20,600	1.85	**32.9**

Table: Information of Rabi Pulses & Oilseeds

Crop	**Variety demonstrated**	**Dist. avg. (q/ha)**	**Area (in ha)**	**No. of demo**	**Yield (q/ha)**		**% Increase**	**Net return (Rs./ha)**		**B:C ratio**	
					Check	**Demo**		**Check**	**Demo**	**Check**	**Demo**
Lentil	Moitree	6.14	30	78	4.64	6.86	47.84	20326	58485	1.5	2.5
Field pea	Prakash	5.69	20	62	4.72	8.36	77.12	21345	54294	1.9	3.1
Lathyrus	Ratan	NA	20	64	5.42	7.24	33.58	19587	46490	1.8	2.8
Rapeseed & Mustard	TS 38	7.27	50	137	5.43	9.20	69.0	3340.00	13530.00	1.02	2.05
Linseed	Shekhar T 397	4.95	20	58	4.56	6.52	42.9	4180.00	9790.00	1.44	2.00
Groundnut		-	10	25	Maturity stage						

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	Biofertilizer	200	-	15000.00	-
2	Bioveer	5	-	375.00	-

6.4 Performance of instructional farm (livestock and fisheries production)

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed/ species	Type of Produce	Qty.	Cost of inputs	Gross income	
1							
2							

6.5 Rainwater Harvesting

Training programmes conducted by using Rainwater Harvesting Demonstration Unit: NA

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

6.6. Utilization of hostel facilities (Month-Wise) during 2017-18

Accommodation available (No. of beds) : **NA**

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

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

7. FINANCIAL PERFORMANCE

7.1 Details of KVK Bank accounts

Bank account	Name of the bank	Location/ Branch	Account Number
With Host Institute	SBI	Jorhat	10253820770
With KVK	SBI	Nagaon	10965237291
Revolving Fund	SBI	Nagaon	30620713843

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

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

7.3 Utilization of KVK funds during the year 2017 -18

S. No.	Particulars	Sanctioned (in Lakh)	Released (in Lakh)	Expenditure (in Lakh)
A. Recurring Contingencies				
1	**Pay & Allowances**	110.00	110.00	106.69
2	**Traveling allowances**	2.00	2.00	1.65
3	**Contingencies**	14.00	14.00	12.05
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)			
B	POL, repair of vehicles, tractor and equipments	4.2	4.2	3.61
C	Meals/refreshment for trainees			
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)			
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	9.8	9.8	8.44
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)			
G	Training of extension functionaries			
H	Maintenance of buildings			
I	Establishment of Soil, Plant & Water Testing Laboratory			

J	Library			
TOTAL (A)		**126.00**	**126.00**	**120.39**
B. Non-Recurring Contingencies	**0.00 0.00 0.00**			
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		0.00	0.00	0.00
GRAND TOTAL (A+B+C)		**126.00**	**126.00**	**120.39**

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 2015 to March 2016	2.42	4.68	4.60	2.50
April 2016 to March 2017	2.50	4.73	4.67	2.56
April 2017 to March 2018	2.55	5.98	4.93	3.60

Note: No KVK must leave this table blank

8.0 Please include information which has not been reflected above.

(Write in detail)

8.1 Constraints

Constraints

(a) Administrative : 1. Requirement of one Programme Assistant (Computer).

(b) Financial : 1. May be increased under recurring contingency.

(c) Technical : 1. One Laptop and Desktop computer with accessories is required

2. One High resolution camera is required.

(d) Others : 1. A new tractor with accessories is required as the old only tractor (purchased in 2000) often goes out of order.

2. For irrigation, one pump (diesel operated) is required.

3. Fencing around the 2nd farm of the KVK (780 m) is required.

4. One more vehicle is required preferably 10-12 seater.

5. One heavy duty UPS (8-10 KW) is required for standby due to frequent power cut.

6. One two wheeler motor bike is required.

(Signature)
Sr. Scientist cum Head

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