

PROFORMA FOR ANNUAL REPORT OF KVKs, 2018-19

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail
	Office	FAX	
Krishi Vigyan Kendra, Sivasagar, Assam. PO: Dhobabar Via Santak PIN : 785687 www.kvksivasagar.nic.in	NA	NA	kvk_sivasagar@aau.ac.in

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

Address	Telephone		E mail
	Office	FAX	
Assam Agricultural University, Jorhat -785013	0376-2340029	0376-2310708	registrar@aau.ac.in

1.3. Name of the Sr. Scientist & Head with phone & mobile No

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Prodip Handique		9613856696	prodip_h@rediffmail.com

1.4. Year of sanction: 2003

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

Sl. No	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category (SC/ST/OBC/ Others)
1	Sr. Sc. & Head	Dr. Prodip Handique	Sr. Scientist & Head	Agril. Extension	37400 - 67000	46400	22.05.18	Permanent	OBC
2	SMS	Mrs. Toslima S. Begum	SMS	Home Science	68900 - 2005500	87300	08.11.08	Permanent	General
3	SMS	Mrs. Trishnalee Saikia	SMS	Agril. Economics	PM L-10	63100	07.11.08	Permanent	MOBC
4	SMS	Dr. Arundhati Bordoloi	SMS	Soil Science	PM L-10	63100	10.11.08	Permanent	ST
5	SMS	Miss Priyanka Dutta	SMS	Agronomy	PM L-10	61300	19.10.15	Permanent	OBC
6	SMS	Dr. Anupananda Goswami	SMS	Animal Science	PM L-10	56100	21.08.18	Permanent	General
7	SMS	Ms.	SMS	Horticultur	PM L-	56100	10.08.	Perma	OBC

		Subhashree Dihingia		e	10		18	nent	
8	Programme Assistant	Mr. Priyabrot Bordoloi	Prog. Asstt.	Agri. Extension	PM L-6	38700	27.10.14	Permanent	General
9	Computer Programmer	Sri Juga Rashmi Borah	Prog. Asstt.(Comp)	Computer	PM L-6	52000	11.11.08	Permanent	OBC
10	Farm Manager	Mr. DebashishBaruah	Farm Manager	Agronomy	PM L-6	38700	31.08.15	Permanent	General
11	Accountant / Superintendent	Miss Rashmirekha Saikia	Office Suptd. cum Acct.		PM L-6	39900	22.02.12	Permanent	OBC
12	Stenographer	Mrs. Karabi Borgohain Phukan	Jr. Steno cum comp. operator		PM L-4	31400	18.02.12	Permanent	OBC
13	Driver	Sri Phanidhar Gogoi	Driver cum Mechanic		PM L-3	26000	22.02.12	Permanent	OBC
14	Driver	Sri Jitu Baruah	Driver cum Mechanic		PM L-3	23100	30.11.16	Permanent	OBC
15	Supporting staff	Mr. Gautam Konwar	Supporting Staff		PM L-1	18000	10.07.18	Permanent	OBC
16	Supporting staff	Mr. Bijoy Sahu	Supporting Staff		PM L-1	18000	11.07.18	Permanent	OBC
	Total								

Note: No column in the table must be left blank

- 1.6. a. Total land with KVK (in ha) : **13.7 ha**
b. Total cultivable land with KVK (in ha): 9.62 ha
c. Total cultivated land (in ha): 2.50ha

S. No.	Item	Area (ha)
1	Under Buildings (Administrative building+ Farmers' Hostel+ Staff Quarters)	0.800
2.	Under Demonstration Units	0.13
3.	Under Crops (Cereals, pulses, oilseeds etc.)	2.0 ha
4.	Orchard	0.5
5.	Fishery	0.65
Total		4.08

1.7. Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR	19.7.2014	238	8498471.75		-	100% Complete
2.	Farmers Hostel	-do-	-			14.4.2009	305	Incomplete
3.	Staff Quarters (6)	-do-				14.4.2008	298	95% Complete
4.	Demonstration Units (2)	RKVY	9.10.2013 11.2.2014	237.87	2037304.00			100% Complete
5	Fencing	ICAR	26.7.2012	723	1425899.00	-	823	45% Complete
6	Fencing	ICAR		900				Initiated

B) Vehicles

Type of vehicle	Regd. No.	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Mahindra Marshall Jeep	AS-03E-0029	2005-06		146675	Not in good condition
New Holland Tractor	AS-04BC-2905	2017		232 hours	Good
Power Tiller		2009	148000.00		Frequent repairing

C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Kilburn Mita Digital Copier	2006	48,360.00	Good
Digital photo copier	2010-11	101920.00	Good
2KVA Voltage stabilizer	2006	3,375.00	Good
Duplicating machine	2005	43,686.00	Out of order
Desktop Computer	2006	27,101.00	Good
Desk Top Computer	2010	55,094.00	Good
Laptop	2010	31547.00	Out of order
Laser Printer	2006	9,605.00	Out of order
Laser Printer	2010	5475.00	Out of order
1KVA UPS	2006	5,951.00	Out of order
Scanner	2006	3,549.00	Out of order
Scanner	2010	2724.00	Needs to repair
Digital Camera	2005-06	15,080.00	Not up to date
Digital Camera	2010	19000.00	Good
Fax Machine	2005-06	25,792.00	Not in use
Fax Machine	2010	15190.00	Not in use
Cassette Player with Amplifier	2005-06	5,625.00	Good
Microphone with stand	2005-06	6,300.00	Good

300 watts Sound Box with Speaker	2005-06	11,250.00	Good
LCD Projector	2005-06	55,016.00	Good
UPS	2009-10	2150.00	Not in working condition
Weather station	2012	45,000.00	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.	23.03.2019	Dr. P. K. Pathak, Director of Extension Education, AAU, Jorhat-13	* Enclosed	* Enclosed
2.		Mrs. Gauri Priya Deori, EAC, Sivasagar		
3		Dr. T. Ahmed, Chief Scientist, RARS, Titabar, AAU, Jorhat-13		
4		Dr. K. Pathak, Principal Scientist, Directorate of Res.(Agri), AAU, Jorhat-13		
5		Dr. S. Ramachandran, Scientist, ICAR-NBSS & LUP Research, Jorhat		
6		Dr. Bhim Kanta Gogoi, District Agriculture Officer, Sivasagar		
7		Dr. Akshyavat Kesari, District Veterinary Officer, Sivasagar		
8		Mrs. Dipali Devi, District Social Welfare Officer, Sivasagar		
9		Mr. Pulin Deka, Fishery Development Officer, Sivasagar		
10		Ms. Moonmoon Baruah, Irrigation Department, Sivasagar		
11		Mrs. Alka Kumari, District Manager, District Industries & Commerce Centre, Siavasagar		
12		Mr. Bharat Gogoi, JE, Sivasagar ZP		
13		Mr. Bubul Baruah, Representative, Sivasagar Forest Range, DFO		
14		Mr. Devajyoti Baruah, Block Technology Manager, FIAC Gaurisagar(ATMA)		
15		Mrs. Aroti Chetia, Progressive Farmer, Hanhchora Chetia Gaon		
16		Mrs. Subhadra Mech, Progressive Farmer, Haripara Kachari Gaon		
17		Mrs. Bornali Baruah, Progressive Farmer, Duarapar Charing		
18		Mr. Simanta Jyoti Baruah, Progressive Farmer, Amguri		
19		Mr. Partha Pratim Neog,, Progressive Farmer, Phulpanichiga		
20		Mr. Sarat Ch. Gogoi, Progressive Farmer, Kochupothar		
21		Mr. Hemidur Rahman, Progressive Farmer, Silasaku		
22		Ms. Riku Yein, Progressive Farmer, Disangmukh		
23		Mr. Mahendra Duwarah, Progressive Farmer, Charing		
24		Mr. Jayanta Dutta, Progressive		

	Farmer, Ujoni Bharalua	
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* Salient recommendations

- 1) Suitable off farm activities be identified through by SWOT analysis and accordingly the KVK programmes should be taken based on priority .
- 2) Development of an IFS model in the Doubling Farmers' Income village.
- 3) Bao rice variety should be tested in Mothadang area instead of taking Sali rice variety as the occurrence of flood is unpredictable and the water level also rise upto 1 meter sometimes.
- 4) Brinjal variety Bhupendra should be tested by Horticulture scientist.
- 5) The machineries provided under APART should be demonstrated on field crops to find out the economic benefits.
- 6) OFT undertaken should always be farmers' problem oriented. For that purpose the technology released from other institutes can also be tested in farmers' field.
- 7) Survey should be conducted on flood affected areas like Geleky to recommend situation specific varieties.
- 8) Instead of rice var. Naveen, CR series of rice variety should be tested in double crop situation.
- 9) Information on performance of piggery unit and handloom & textile unit in DFI village should be recorded.
- 10) Jayanti rohu spawn production programme to be carried out by the KVK, Sivasagar in collaboration with District Fishery Department. Also OFT programme on Amur carp can be carried out.
- 11) Maize demonstration programme should be taken and the variety recommended by AAU should be provided to farmers'.
- 12) The programmes of different disciplines should be carried out in collaborative mode.
- 13) The number of demonstration on nutrition garden under community science should be more.
- 14) One programme on Boro paddy to be carried out by agronomy scientist to demonstrate mechanical transplanter where mat nursery will be demonstrated by community science scientist.
- 15) One fishery scientist should be appointed in KVK Sivasagar for development of fishery sector in Sivasagar district.

Action taken report

Sl no.	Action Point	Action taken
1	Production of piglet in collaboration with DVO, Sivasagar and NABARD at the adopted village.	<ul style="list-style-type: none"> • Partha Protim Neog has got a piglet production unit from NABARD at 35% subsidy. • Construction is going on
2	Establishment of handloom textile unit with the help of line department at the adopted village.	<ul style="list-style-type: none"> • Department of Handloom and Textile was communicated. • A handloom and textile unit under State department of Handloom and Textile is present in the village, which is not functioning. • As per the advice of the Assistant Director, Handloom and Textile Department, Sivasagar, the process for reopening the unit has been started. • A list of 50 weavers is submitted. • According to the line department the process is under progress
3	Emphasize on income generating off farm activities	<ul style="list-style-type: none"> • Training and Demonstrations on processing and preservation of fruits and vegetable was conducted. • The process of Value addition of rice was demonstrated for income generation • Two vocational trainings on carpet making were conducted at Dishangmukh and Haripara kachari Gaon
4	OFT on high foliage castor variety cultivation for increasing the eri silk production at adopted village	<ul style="list-style-type: none"> • Programme is going on
5	Survey on causes of reduction of area under Som plantation	<ul style="list-style-type: none"> • Survey is completed and findings are in the Report

6	Development of IFS model in Phulpanichiga	<ul style="list-style-type: none"> Partha Protim Neog has got a piglet production unit from NABARD at 35% subsidy. Construction of IFS unit is going on
7	Practical oriented vocational training on Value addition/primary processing	<ul style="list-style-type: none"> A seven (7) days vocational training on processing and preservation of fruits and vegetables and mushroom was conducted at KVK, Sivasagar Two (2) vocational training programmes were conducted on carpet making (Jute & woolen) in Disangmukh and Haripara village.
8	Training on farm business management	<ul style="list-style-type: none"> A Front Line Demonstration on Farm records and account keeping is conducted at four villages. Four no. of trainings were conducted under the FLD. A booklet on various farm records is provided to 100 farmers of the 4 locations
9	Post flood awareness camp in collaboration with DAO should be conducted in flood affected areas	<ul style="list-style-type: none"> Two (2) awareness programmes on post flood contingency measures was conducted at Geleky and SDAO Nazira. Seeds of short duration rice var. Disang and Luit were distributed for 10 has (375 kg seed) of flood affected area (Geleky)
10	Speciality based cluster should be formed in different villages by using different component including animal sector	<ul style="list-style-type: none"> KVK Sivasagar is developing Mushroom village, vermicompost village, poultry village etc
11	Scientific intervention on arecanut + blackpepper based multistoried cropping system	<ul style="list-style-type: none"> FLD Programme is going on.
12	OFT on different rice varieties for management of waterlogged situation have to be carried out in Mothadang area	<ul style="list-style-type: none"> Programme was conducted
13	Linseed demonstration in rice fellow areas to be conducted	<ul style="list-style-type: none"> Programme is conducted. Report enclosed
14	Demonstration on millets to be carried out in sandy soil of Demow block	<ul style="list-style-type: none"> FLD Programme is going on.
15	FLD on buckwheat	<ul style="list-style-type: none"> FLD Programme is going on.
16	OFT on Rice-Toria-Greengram to be conducted in rainfed area of Nitaipukhuri area	<ul style="list-style-type: none"> Programme is going on.
17	Link up of red rice growing farmer of Sivasagar with KVK, Lakhimpur and RARS for marketing	<ul style="list-style-type: none"> Already discussed with RARS, North Lakhimpur . Nature biofood company will purchase. Organic certification is must
18	FLD on maize	<ul style="list-style-type: none"> Sowing is done on 1st week of January, 2019
19	Horizontal expansion of every technology should be surveyed	<ul style="list-style-type: none"> Impact study of CFLD on Pulse is conducted. Horizontal expansion of mushroom, vermicompost, toria had conducted
20	One exposure visit of fishery farmers	<ul style="list-style-type: none"> Two exposure visits of fish farmers from adopted village Hanchora Chetia Gaon and Bengmuria Konwar gaon to the fish seed and fish production unit of Tajikul Alam, Charaideo were conducted
21	Jayanti Row programme to be carried out in Alam hatchery in association with KVK, Nalbari	<ul style="list-style-type: none"> Fishery scientist is not available
22	The low cost formulation for poultry feed prepared by progressive farmer Simanta Barua may be tried in other farmers field	<ul style="list-style-type: none"> The feed has given favourable result in terms of production in layer bird at farmer's field. Limitation: As moisture percentage of some of the feed ingredients like maize could not be maintained during formulation of feed so self life of the feed is not satisfactory.

		<p>Due to high moisture percentage of the feed there is growth of fungus which is not favourable.</p> <ul style="list-style-type: none"> The programme will be repeated this year also. (2019-20)
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2. DETAILS OF DISTRICT

District at a glance

Total Geographical area	1598.85 sq km
Total Civil Subdivision	2 (Sivasagar & Nazira)
No of Blocks	5
Total Revenue Villages	535
No of Gram Panchayat	80
Total population	1151050
Male	589216
Female	561834
Total literacy %	80.41
Total Agricultural land	86710.8 ha
Total Farmers	102942
Main crops	Sali rice, Ahu/ Boro, Vegetables, Mustard
Net cultivated area	136822 ha
Cropping Intensity	134% (CRIDA)
Irrigated area	1886ha

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

Sl. No	Farming system/enterprises
1	Agri + Animal Husbandry
2	Agri+ Animal Husbandry+ Horticulture
3	Agri + Hort + Animal Hus + Fishery
4.	Agri +Hort + Animal Hus + Seri
5	Agri+ Horti+ Animal Hus +Seri+ Fishery

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

Sl. No	Agro-climatic Zone	Characteristics
1	Upper Brahmaputra Valley Zone	<ul style="list-style-type: none"> ❖ This zone covers 160789 sq/ km ❖ Hot and wet summer climate ❖ Maximum temperature 37°C ❖ Minimum temperature 7°C ❖ Relative Humidity : 96% ❖ Heavy rainfall: March, April and May ❖ Very cold during January and February ❖ Dry weather: Mid October – Mid December

2 .2.1 Major agro-ecological situations

Sl. No	Agro Ecological Situation	Principal crop	Development block
1	Alluvial flood free	Rice, sugarcane, tea , vegetables	Amguri, Sivasagar, Nazira
2	Alluvial flood prone	Rice, mustard, vegetables	Amguri, Sivasagar, Nazira, Demou and Gaurisagar
3	High land	Rice, pulse, tea, horticultural crop	Amguri , Nazira

4	Hills area	Horticulture, vegetables and maize	Amguri and Nazira
5	Char like area	Rice, mustard, pulse and vegetables	Sivasagar, Demou and Gaurisagar

2.3 Soil type/s

Sl. No	Soil type	Characteristics	Area in ha
1	Inceptisol (Old Alluvial)	It is most fertile and extensively distributed throughout the plain region of the district. It is more clay and darker in colour.	136863
2	Entisol (Recent Alluvial)	It is most fertile and extensively distributed throughout the plain region of the district. It varies mostly from clay to sandy loam in texture and slightly acidic in reaction.	68116

2.4. Area, Production and Productivity of major crops cultivated in the district (2017-18)

Sl. No	Crop	Area (ha)	Production (Mt)	Productivity (Mt/ha)
1	Winter Paddy	69753	265061.4	3.8
2	Summer Paddy	2802	11768.4	402
3	Autumn Paddy	263.5	974.95	3.7
4	Sugarcane	105	7350	70
5	Pea	1316	855.4	0.65
6	Lentil	248	168.64	0.68
7	Mustard	3165	3481.5	1.1
8	Potato	1018	7635	7.5
9	Moong	37.5	63	0.72
10	Matikalai	965	675.5	0.7
11	Onion	55	825	15
12	Ginger	112	2257.92	18
13	Turmeric	212	4664	22
14	Vegetables			
15	i) Rabi	2630	71010	27
16	ii) Kharif	1765	44125	25
17	Banana	3002	60400	21030
18	Lemon	820	43226	52.715

2.5. Weather data

Month	Rainfall (mm)	Temperature °C		Relative Humidity (%)
		Maximum	Minimum	
April, 2018	184.8	35.9	16.3	87
May, 2018	201.8	36.8	19.1	90
June, 2018	398.4	38.8	23.4	91.6
July, 2018	295	38.5	24.6	92
Aug, 2018	47	39	24	92.5
Sept, 2018	7	36.2	22.3	43
Oct, 2018	58.6	32.7	17	5.4
Nov, 2018	43.8	31.2	10.5	5.8
Dec, 2018	37.6	27.3	6.1	36.7
Jan, 2019	9.8	27.5	6.2	38.7
Feb, 2019	68.6	29.4	7.5	41.9
Mar, 2018	113.8	34.8	8.9	51.6

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

Category	Population
Cattle	413355
Indigenous cattle	345063
Crossbreed cattle	15607
Buffalo	18653
Sheep	111
Goats	114689
Horses and ponies	323
Pigs	79714
Total livestock	690980
Fowls	457127
Ducks	172094

Numbers and Area of fishery, fish production in Sivasagar District

Sl. No.	Item	Unit	2013-14
1	Registered beel	Nos.	66
2	Area under registered beel	Hect.	3878
3	Ponds and tanks	Nos.	9068
4	Area under Ponds and tanks	Hect.	1171
5	Derelict water bodies	Nos.	216
6	Area under Derelict water bodies	Hect.	7129
7	Forest fishery	Nos.	3
8	Area under forest fishery	Hect.	92
9	Fish production	Tonnes	10190
10	Imp. Fish from outside the state	Tonnes	500
11	No. of registered fish markets	No.	3

Source: Statistical handbook of Assam, 2014

2.6 Details of Operational area / Villages (2018-19)

No	Taluk	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1.	Sivasagar sub-Division	Sivasagar block	Betbari, Cherekapar, Nemuguri, Hanhsora, Gargaon, Rajabari, Rajmai, Bakata.	Rice, Tea, Horticulture crops, Vermicompost, Mushroom, Backyard poultry	Pests and diseases, flood	Rice, Tea, dairy, piggery, fishery, Horticulture crops, Vermicompost, Mushroom,

		Demow block	Rajabari, Netaipukhuri, Sukhanpukhuri, Demow, Disangmukh, Panbesa, Konwarpur, Jhanji, Sesamukh, Holmari	Rice, mustard, vegetables and horticultural crops, Vermicompost, Mushroom, Backyard poultry	Low productivity, pests and diseases.	Rice, mustard, vegetables, pea, black gram. Mushroom, Backyard poultry
		Gaurisagar block	Rangpur, Rudrasagar, Magarhat, Dikhowmukh, Khanamukh, Rupohimukh, Discial, Bhorolua, Garbhoga, NakataniKalugaon, Charing Duwarahpar, Khanikargaon	Rice, vegetables, fishery, poultry, piggery. Vermicompost, Mushroom,	Low productivity, pests and diseases. Flood occurrence.	Rice, fishery, vegetable crops, contingency planning, Vermicompost, Mushroom, Backyard poultry
2.	Amguri sub-division	Amguri block	Namti, Amguri, Lalimchiga, Khanikar, Samguri, Tarabari, Haluating, Phulpanichiga	Rice, mustard, wheat, horticultural crop.	Pests and diseases. Low productivity of citrus.	Rice, horticultural crop, rejuvenation of citrus plantations.
3.	Nazira Sub-division	Nazira block	Nazira, Simologuri, Namti, Galeki, Dhopabar, Bartala, Ligrupukhari, Chauak, Bihubar, Mesagarh, Rohdoipukhuri, Mezenga, Sundarpukhuri, Hualgaon, Harkina, Phulanibari	Rice, wheat, jute, potato, sugarcane, piggery, fishery, dairy Vermicompost, Mushroom, Backyard poultry	Low production, pest and disease incidence.	Management of production technology. Vermicompost, Mushroom, Backyard poultry
		Khelua Block	Haripara Kachari Gaon, Hanhsora Chetia Gaon	Rice, Vegetable, Vermicompost, Mushroom, Piggery, Fishery	Flood effected area, Monkey problem	Submergence tolerant paddy variety, Vermicompost production, Mushroom production, Poultry production
4.	Sonari sub-division	Sonari block	Lakua, Safrai, Mathurapur, Dolbagan, Borhat, Bhojo, Tengapukhuri, Sepon, Abhoipur, Maibela, Charaideo,	Rice and horticultural crops, banana, pine apple, coconut,	Nursery raising, pest and disease problem	Rice, horticultural crops, pine apple, papaya, banana, coconut, mustard.

		Mahmora block	Nirmalia, Nizkhaloighugura, Kochupathar, Moranjan, Doba, Lessaihabi, Laiseng, Barbarua, Moudumoni, Himpara, Bisrampur, Nabajyoti, Bogoriting, Holmari	Rice and horticultural crops, banana, pine apple, coconut, tea	Nursery raising, pest and disease problem	Rice, horticultural crops, pine apple, papaya, banana, mustard, Vermicompost, Mushroom, Backyard poultry
		Sapekhati block	Balikhetia, Chotianaguri, Kanubari, Balijan,	Rice and horticultural crops, banana, pine apple, pea,	Nursery raising, pest and disease problem	Rice, horticultural crops, pine apple, papaya, banana, coconut, mustard.

3. TECHNICAL ACHIEVEMENTS

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

Discipline	OFT (Technology Assessment and Refinement)				FLD (Oilseeds, Pulses, Maize, Other Crops/Enterprises)			
	Number of OFTs		Number of Farmers		Number of FLDs		Number of Farmers	
	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
Agronomy	6	6	20	26	7	16	212	294
Horticulture	2	2	5	5	5	5	54	54
Soil Science	2	2	10	8	4	3	70	65
Agril. Economics	2	2	200	200	2	2	150	150
Animal Science	2	2	13	13	2	05	30	91
Community Science	4	2	27	18	4	3	213	211
Total	18	16	275	270	24	34	729	865

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	33	33	962	962	809	809	46112	46112
Rural youth	6	6	152	152				
Extn. Functionaries	11	11	266	266				

Total	50	50	1380	1380	809	809	46112	46112
Seed Production (ton.)				Planting material (Nos.)				
5				6				
Target		Achievement		Target		Achievement		
3.685		3.685		3000		3000		

Note: Target set during last Annual Zonal Workshop

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

Sl. No	Thrust area	Crop/ Enterprise	Identified problems	Interventions					
				Title of OFT 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	Seed production	Paddy	Varieties available with farmers' can not survive after submergence for 10-12 days		Demonstratio n of submergence tolerant paddy var. Ranjit Sub 1 in flood affected area			Method demonstratio n on line transplanting: 4 Field Day:1	Seed, Fertilizer, Pesticide
2	Varietal evaluation	Paddy	Water logging is a major problem for rice cultivation in Mothadang area	OFT on different rice varieties for management of waterlogged situation in Mothadang area.	Popularization of Rice Hybrid in Assam	Agronomic practices of main field to assured potential production of Sali paddy(3)		Field Day:1	Seed, Fertilizer, Pesticide
3			Non availability of high yielding boro paddy variety with farmers'.		Demonstratio n on cultivation of Boro paddy with Farmer's participatory Mode	Scientific cultivation echnology of Boro paddy(1)		Training:1	Seed, Fertilizer, Pesticide
4		Blackgram	Cultivation of kharif pulses is a major problem due to excessive rainfall resulting in delay in sowing.	Evaluation of Blackgram var. Sonkush under late sown condition.					

5			Some varieties are not performing well in comparison to Blackgram var. Telimah	Evaluation of Farmer's variety of Blackgram					Seed
6	Crop Production	Rape & Mustard	Long duration mustard cultivation is a problem due to pre –monsoon shower	Performance of new short duration mustard variety NRCHB 101 in Sivasagar district	Demonstration on short duration mustard Variety PM-26 in Sivasagar district	Improved technology for oilseed production (1)		Field day:1	Seed, Fertilizer, Pesticide
7			Non availability of high yielding late sown variety of toria with farmers'		Popularization of Toria var. TS-67 under late sown condition			Seed, Fertilizer, Pesticide	
8		Buckwheat	Monocropping leads to less profit		Performance of buckwheat in rice fallow area as an alternate cereal			Field Day:1	Seed, Fertilizer, Pesticide
9		Millet	Most of the rice areas are remain fallow after harvesting of Sali paddy where other crops don't perform well other than cereal		Popularization of millet crop in Sivasagar District.				Seed, Fertilizer, Pesticide

10		Strawberry	Non availability of good quality planting material	Performance of Strawberry var. Sweet Charlie and Early Dawn in Sivasagar district	-	-	-	-	Distributed 360 nos. of runner Rs.25/runner @ 180 runner/farmer
11	Cropping sequence	Rice-Toria-Pulse	Cropping intensity of Sivasagar district is very less (only 134%, Source: CRIDA)	Evaluation of suitability of rice-toria-pulse cropping sequence under rainfed condition of Demow block					Seed, Fertilizer, Pesticide
12	Integrated crop management	Castor	<i>Eri</i> silk production is decreasing in Sivasagar due to non availability of improved castor variety	Evaluation of high foliage production castor variety in Sivasagar district.					Seed, Fertilizer, Pesticide
13		Maize	Maize cultivation is very limited in Sivasagar district.		Popularization of maize crop in Sivasagar district as an alternative cereals.		Recent advances in Agronomy with special reference to Sivasagar district (3)		Seed, Fertilizer, Pesticide
14					Demonstration on improved cultivation technology of maize			Seed, Fertilizer, Pesticide	
15		Linseed	Monocropping leads to less profit		Popularization of linseed crop in Sivasagar district in rice fallow areas				Seed, Fertilizer, Pesticide

16	Crop production	Sesamum			CFLD on Sesamum Var. Kaliabor Local				Seed, Vermicompost, Bio fertilizer
17		Toria			CFLD on Toria Var. TS-67		Production of Toria (1 no.)		Seed, Vermicompost, Bio fertilizer
18	Integrated crop management	Kharif Greengram (NFSM)	Non-availability of HY green gram variety		CFLD on kharif pulse greengram	Scientific production technology of kharif pulses(1)			Seed, Vermicompost, Bio fertilizer
19		Kharif Blackgram (NFSM)	Non availability of high yielding variety of blackgram		CFLD on kharif pulse blackgram				
20		Lentil (NFSM)	Lentil area is very limited Non-availability of HY Lentil variety		CFLD on rabi pulse crop lentil	Scientific production technology of rabi pulse lentil(1)			
21		Field pea (NFSM)	Non-availability of HY field pea variety		CFLD on rabi pulse crop field pea	Scientific production technology of rabi pulse field pea(1)			
22		Summer Greengram (NFSM)	Lack of knowledge of cultivation of summer green gram		CFLD on summer pulse greengram	Scientific production technology of summer pulse crop(1)			

23		Summer Blackgram (NFSM)	Lack of knowledge of cultivation of summer black gram		CFLD on summer pulse blackgram				Seed, Vermicompost, Bio fertilizer
24	IWM	Brinjal	The production and productivity of brinjal was low due to high weed problem	Integrated weed management in brinjal		-	-	-	Distributed 1333no. of seedling @Rs.1.5/seedling among the 3 farmers
25	Fertility management	Paddy	Low rice production		Zinc fertilization in winter paddy	-	-	Field visit, demonstration	Seed, fertilizer
26	Micronutrient management	Paddy	Deficiency of boron in lowland rice results in spikelet sterility	Boron for correction of spikelet sterility in lowland rice	-	-	-	Field visit, demonstration	Seed, fertilizer
27	Production of organic inputs	<i>Azolla</i>	Low organic input production		<i>Azolla</i> cultivation in homestead	<i>Azolla</i> cultivation in homestead	-	Field visit, demonstration	<i>Azolla</i> , polythene sheets
28	Organic farming	Hot Chilli	Low yield of organic hot chilli	Organic package for Hot Chilli	-	-	-	Field visit, demonstration	Seed, organic fertilizer
29	Production of organic inputs	Vermicompost	Low organic input production		Vermicompost production using low cost unit	-	-	Field visit, demonstration	Earthworm, low cost unit

30	Fruit production	Apple ber	Low popularity		Popularization of Apple ber/Thailand ber in Sivasagar District	-	-	-	Distribution of 83nos of grafted seedling @Rs. 60/plant@41 plant / farmer
31	Spice production	Blackpepper	Non scientific management of bari system		Introduction of blackpepper in homestead garden	-	-	-	Distributed 250nos. of cuttings @20/plant among 20 number of farmers
32	Vegetable production	Potato			Cultivation of HYV Potato in Sivasagar district				Potato tubers & fertilizers
33		Garden Pea			Cultivation of HYV of Garden Pea in Sivasagar district				Seed & fertilizers
34		French bean			Cultivation of HYV of French bean in Sivasagar district				Seed & fertilizers
35	Household food security by kitchen gardening and nutrition gardening	Nutrition garden	Prevalence of malnourishment s due to less intake of fresh vegetables		Nutrition gardening for Nutritional security at households.	Nutrition education for rural mothers	-	Field days	Vegetable seeds and sapling ,fruit plants cuttings,fertilizer s and bio fertilizers,turmeric and potato tubers

36	Nutrition gardening	Nutrition garden	Less use of GLV and other vegetables in mid day meals of the schools	-	Nutrition gardening for nutritional security at school premises	Nutritional security of children by establishing Nutrition garden at school premises	Nutritional security of children by establishing Nutrition garden at school premises	Field day	Vegetable seeds and sapling ,fruit plants cuttings, fertilizers and bio fertilizers, turmeric and potato tubers, high value horticultural fruits and vegetable sapling
37	Designing and development for high nutrient efficiency diet	Millet	Lack of utilization of millet crop in preparing Nutrient dense food with low glycemic index		Popularization of nutrient rich product ,mix flour roti	Hands on training on design & development of low/minimum cost diet	-	-	Millet flour, Gram flour and wheat flour and oil
38	Value addition	Grape fruit (Bar tenga) and Elephant foot yam	No commercial utilization of Grape fruit (Bar tenga) abundantly available in Sivasagar district	Preservative activity of locally available Grape fruit (Bar tenga) <i>Citrus grandis</i> in preserving Elephant foot yam, ulkachu (Amorphophallus)					Grape fruit, Elephant foot yam, mustard oil, food grade bottle

39	Women and child care	Supplementary food	High price of commercially available supplementary food for infants and babies	Testing of rice based supplementary food with vegetables					Rice, green gram, groundnut, sesame and carrot,	
40	Breed introduction	Pig,	Poor growth rate of local pig	Evaluation of HDK75 pig under agroclimatic condition of Sivasagar		-	-	-	Supplied 5 nos of HDK75 piglets	
41		Turkey	Less variation of meat	Evaluation of turkey in Sivasagar district		-	-	-	Distributed 100 nos of Turkey chicks @ 10 chicks/farmers	
42		Poultry	Poor production performance of local birds		Rearing of dual purpose of poultry Vanaraja		-	-	-	Distributed 980 nos of Vanaraja chicks @ 15 chicks/farmers
43		Duck	Poor production performance of local duck		Rearing of Broiler duck Var. White Pekin		-	-	-	Distributed 100 nos of Ducklings @ 10 duckling /farmers
44		Pig	Non availability of improve quality piglets		Production of improve quality of Piglets.		-	-	-	Construction of pig shed, Distributed 6 nos. of piglets along with feeds

45	Extension Network utilization	Vegetable	Lack of information on the relative effectiveness of existing extension channels	Relative efficiency of the extension networks (from where the farmers get information) utilized by the vegetable growers of Sivasagar district					
46	Marketing	Muga Silkworm	Decreasing interest of the farmers towards muga silk worm rearing	Profitability in muga rearing for different marketing channel in Sivasagar district					
47	Problem and prospects of Muga silkworm rearing	Muga Silkworm	Decreasing area under Som cultivation					Survey	
48	Financial management	All crops	Lack of awareness about financial management in farm level		Farm Records and account Keeping	Farm records and account keeping (4 nos.)	Financial management (3 nos.)		Provision of booklet on farm records under FLD
49	Entrepreneurship development	Oyster Mushroom	Lack of knowledge on scientific cultivation of edible mushroom			Entrepreneurship development (1 no.)			
50	Women empowerment					Income generating activities for economic empowerment of women SHGs (3 nos.)			

Agronomy	OFT on different rice varieties for management of waterlogged situation in Mothadangan area.	Water logging is a major problem for rice cultivation in Mothadangan area	OFT on different rice varieties for management of waterlogged situation in Mothadangan area. Technology: Sowing time: June Transplanting time: July Seed Rate: 40 kg/ha Fertilizer : 60:20:40 NPK kg/ha Check variety: Sailahi	Rice fallow	5 (Mothadangan Area)	Podumoni: Date of sowing: 17.5.18 Date of transplanting: 30.6.18 Date of flood: 25.7.18-20.8.18 Plant Height(cm): 153.20 Days to 50% flowering: 15.10.18 Length of panicle: 23.50 cm Effective grain per panicle: 262 Date of harvesting: 20.11.18 Yield(t/ha): 2.0 Gross cost(Rs./ha) : 25113 Gross Return(Rs./ha) : 26000 Net Return(Rs./ha) : 887 B:C ratio: 1.04 Other varieties did not survive (Including check)	Farmers are satisfied with the performance of the variety Podumoni even after water logging for a period of more than 1 month	Occurance of flood is not predictable. So Bao paddy varieties will be more suitable.	1.04
	Evaluation of suitability of rice-toria-pulse cropping sequence under rainfed condition of Demow block	Cropping intensity of Sivasagar district is very less (only 134%, Source: CRIDA)	Evaluation of suitability of rice-toria-pulse cropping sequence under rainfed condition of Demow block Technology: Rice Var. Naveen , Toria Var. TS-67, Greengram Var. Sonai Check: Monocrop	Rice fallow	3 (Garukhuti)	Rice: Date of sowing : 9.7.18 Date of harvesting : 13.11.18 1 st top dressing: 25.8.18 2 nd top dressing: nil Effective Tillers : 18-20 Effective Grains/panicle: 260-280 Yield(t/ha): 4.2 B:C ratio: 1.51 Toria: Date of sowing: 24.11.18 Date of harvesting : 26.2.19 Height of the plant (cm) : 110 No of branch/plant :4-6 No of siliquae/plant 90-110 No of seeds/siliquae : 18-20 Yield (q/ha): 7.1 Net return (Rs./ha) : 2374 B:C ratio : 1.09 Rice equivalent yield of toria :6.38 t/ha	Farmers' are satisfied with the performance of the rice-toria cropping sequence. But harvesting of greengram can not be carried out due to excessive rainfall and germination of the matured pod occur in field itself.	The performance of the cropping sequence is found to be good. The sequence is possible but sowing of greengram should be done in the 3 rd week of February to avoid loss due to pre-monsoon shower	OFT Rice:1.51 Toria: 1.09 B:C ratio of Rice equivalent yield of toria : 2.30 s Check:1.73

						<p>Greengram: Date of sowing: 15/3/19</p> <p>Monocrop (Ranjit):Date of sowing : 17.6.18 Date of harvesting : 20.11.18 1st top dressing: 31.8.18 2nd top dressing: 25.9.18 Effective Tillers : 18-22 Effective Grains/panicle: 350-380 Yield(t/ha): 4.8 B:C ratio: 1.73</p>			
Evaluation of Blackgram var. Sonkush under late sown condition .	Cultivation of kharif pulses is a major problem due to excessive rainfall resulting in delay in sowing.	Evaluation of Blackgram var. Sonkush during <i>rabi</i> season Technology: Var. Sonkush (Can be delayed upto 30 th September) Check: Local	Fallow	1(Nitaipukhuri)	Sowing date: 1 st October. Results: Crop fail	At the initial stage after germination growth is good. But later on growth slows down . Even flowering and pod formation also not occur.	Upto July rainfall is more than 300 mm/month. From August onwards rainfall is limited even the no of rainy days is within 0-5 days/month. The crop may fail due to moisture stress during branching and flowering time.	nil	
Evaluation of Farmer's variety of Blackgram	Some varieties are not performing well in comparison to Blackgram var. Telimah	Evaluation of Farmer's variety of Blackgram Technology: Var. Telimah	Fallow areas	1(Garukhuti)	Sowing date: 23 rd September Results: Crop fail	At the initial stage after germination growth is good. But later on growth slows down . Even flowering and pod formation	Upto July rainfall is more than 300 mm/month. From August onwards rainfall is limited even the no of rainy days is within 0-5 days/month. The crop may	nil	

							also not occur.	fail due to moisture stress during branching and flowering time.	
	Performance of new short duration mustard variety NRCHB 101 in Sivasagar district	Long duration mustard cultivation is a problem due to pre – monsoon shower	Performance of new short duration mustard variety NRCHB 101 in Sivasagar district Technology: VAR: NRCHB 101 Duration : 105 days , Yield: 17.32 q/ha DOS: Mid Oct-Mid Nov Check: PM-26	Rice fallow	3(Garuk huti, Dicial, Gotonga)	OFT: DOS: 18.11.18 DOH: 5.3.19 Plant height (cm): 185.00 No of branch: 10-15 No of siliqua/plant: 448 No of seeds/siliqua : 12-13 Yield (q/ha): 14.20 Check: DOS: 18.11.18 DOH: 7.3.19 Plant height (cm): 160.00 No of branch: 8-12 No of siliqua/plant: 265 No of seeds/siliqua : 16 Yield (q/ha): 10.50	Farmers' are satisfied with the performance of both the variety. But from the production point of view they prefer NRCHB 101 variety .	The yield is found to be high in NRCHB 101 variety. And the return is found to be more in on farm testing variety. Farmers' prefer this variety more than check variety.	OFT: 2.18 Check: 1.61
	Evaluation of high foliage production castor variety in Sivasagar district.	<i>Eri</i> silk production is decreasing in Sivasagar due to non availability of improved castor variety	Evaluation of high foliage production castor variety in Sivasagar district. Technology: Variety: NBR-1 Sowing time: March-April Fertilizer level:90:40:20 kg NPK/ha (1 st dose), 30kg/ha N (2 nd dose) Spacing: 1m x 1m	Fallow land	10	Date of sowing: 15.3.19-21.3.19			Ongoing
Horticulture	Performance of Strawberry var.	Non availability of suitable variety	Variety : Sweet Charlie and Early Dawn Planting time:	Strawberry	2	1. Plant height (cm): SC=10.75, ED=13.35 2. Leaves number: SC=10.33, ED=11.30	Farmers are satisfied but they find little difficulty	1.Mortality : 30-35% (higher in early dawn variety)	

	Sweet Charlie and Early Dawn in Sivasagar district		October-November, Propagating materials: Runners, Fertilizer dose: N=100kg, P ₂ O ₅ =60kg, K ₂ O=140kg/ha, Land preparation: Treatment: Outer leaves should be striped off and roots of the runners should be washed and treated with Carbendazim(0.2%).			3. Initiation of flower (Days): SC=35.45, ED=32.92 4. Fruit length at maturity (cm): SC=3.45, ED=3.33 5. Days taken to full maturity after fruit set: SC=33.34, ED=30.38 6. No. of fruit per plant: SC=14.50, ED=12.00 7. Fruit weight (g): SC=12.25, ED=13.60 8. Yield per plant (g): SC=142.34, ED=140.35 SC- Sweet Charlie ED- Early Dawn	in growing and time consuming and postharvest loss was very fast	2. Morphological character are better in case of early dawn and fruit quality was better in case of Sweet Charlie	
	Integrated weed management in brinjal	High weed problem	Application of pre-emergence herbicide(0-3 days after planting) Pendimethalin @1.5 lit/ha followed by hand weeding 35 days after planting	Brinjal	03	1. Plant height (cm): Control (120 DAT)= 10.75 Treated (120 DAT)= 13.35 2. Fruit per plant (no.): Control (120 DAT)= 5.65 Treated (120 DAT)= 8.26 3. Fruit yield (gm / plant): Control (120 DAT)= 418.70 Treated (120 DAT)= 787.50 Fresh weight of weed (g/m ²) At 60 DAS: Control=470.25 Treated=100.26	Weed problem was reduced	-	-
Soil Science	Boron for correction of spikelet sterility in lowland	Deficiency of boron in lowland rice results in spikelet sterility	Spraying of 0.40 ppm Boron at anthesis stage	Rice monocrop	5	1. Yield(t/ha): Demo:4.75 Check: 3.82 2. Plant height (cm) Demo: 152 Check: 167 3. % reduction in chaffy grains Demo: 62.4%	Farmers are satisfied with the technology and eager to adopt it		Demo: 1.68 Check: 1.47

	rice					4. Available B (ppm) Demo: 0.48 Check: 0.41			
	Organic package for Hot Chilli	Low yield of organic hot chilli	Application of enriched compost @ 10t/ha+biofertilizer (<i>Azospirillum</i> and PSB)	Hot Chilli	3	ON GOING			
Animal Science	Evaluation of turkey in sivasagar district	-	Broad breasted white/broad breasted bronze	Poultry (Turkey)	5	Avg. body wt:4.5 kg at 8 months of age Egg production: Started at 8 months Mortality: 20%	Satisfied with the growth rate of bird.		Ongoing
	Evaluation of HDK75 pig under agroclimatic condition sivasagar district	-	HDK75 Pigs	Pig	3	Started in the month of March	-	-	Ongoing
Agril Economics.	Relative efficiency of the extension networks (from where the farmers get information) utilized	-	Extension networks	Vegetables	100	<p>1. 69% of the vegetable growers obtained information from private and mass media whereas the rest 31% obtained information from all the sources like public, private and mass media.</p> <p>2. Among the regular use extension networks 51% of the farmers obtained information from input dealers whereas 47%, 23%, 14% and 5 % of the farmers obtained information regularly from radio, KVK, Newspaper and Farm magazines.</p> <p>3. 68% and 46% of the sample vegetable growers often obtained information from fallow farmers and newspaper.</p> <p>4. 100%, 76%, 70%, 49%, 44% and 22% of the sample farmers never obtained information from Research station, Farm magazine, TV, State dept., KVK and Newspaper.</p>			

	by the vegetable growers of Sivasagar district					
	Profitability in muga rearing for different marketing channel in Sivasagar district	-	Marketing channel	Muga silkworm	100	1. Four marketing channels were identified i) Producer - producer as seed ii) Producer – weaver-consumer as silk yarn iii) Producer – traders- weaver-consumer as cocoon iv) Producer – traders-weaver-consumer as silk yarn **

****Result of OFT on Profitability in muga rearing for different marketing channel in Sivasagar district (Agril. Economics)**

Marketing channel	Gross Income (Rs./1000 DFL)	Price spread (Rs./1000 DFL)
I.	4000.00	0
II.	5000.00	10000.00
III.	2500.00	12500.00
IV.	5000.00	10000.00

Results of On Farm Testing: Community Science

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)
						Technology	Locally prepared baby food			
1	Testing of rice based supplementary food with vegetables	High price of commercially available supplementa	Testing of rice based supplementary food with vegetables-	Supplementary food	03	Acceptability level :In 5-Point hedonic scale (Infant –below 1 year and babies – 1 to 2 years)	Acceptability level: 90% Storage quality: Good	Mothers are seems to be happy and recommend er that the	Carrots become crispy after sun drying	4.5 (without Food grade bottle at

		ry food for infant and babies	Supplementary food 100 gm= Roasted rice flour 70 gm + Roasted green gram flour 20 gm+ roasted and grinded ground nut 5 gm + carrot dried powder 5 gm (carrot powder was provided separately and mix with the other ingredients at the time of cooking @ 1 gm /feed) Source : ICMR guidelines 2011			* Like a lot 90% * Dislike slightly 5% * Dislike a lot 5% Storage quality:Good condition after 2 months Organoleptic evaluation by mothers scored 7.7 in 9 point scale shows good condition of the product after 2 months Nutritive value: Rich in carbohydrate,protein ,fats and vitamins and fibre	condition for 15 days only Organoleptic evaluation by mothers scored 3 in 9 point scale after 1month and 7.7 after 15 days shows good condition of the product Nutritive value: carbohydrate rich .Less amount of protein if milk is added.	technology will provide nutritious foods to their children	followed by blanching ,Sun drying without blanching powder can be prepared.	home scale level) 1.96 (With food grade bottle for commercial purpose)
2	Preservative activity of locally available Grape fruit(Bar tenga) <i>Citrus grandis</i> in preserving Elephant foot yam,ulkachu (Amorphophalls)	No commercial utilization of Grape fruit (Bar tenga) abundantly available in Sivasagar district	Preservative activity of locally available Grape fruit(Bar tenga) <i>Citrus grandis</i> in preserving Elephant foot yam,ulkachu (Amorphophalls) Source : innovative idea Technology details: T1=100g Elephant foot yam with 100 ml Grape fruit juice T2=100g Elephant foot	Grape fruit (<i>Citrus grandis</i>) <i>Bar tenga</i>	03	Sample T1 containing 100% Grape fruit juice and Sample T2 containing 80% G.F .juice as preservative showed effective preservative properties for retaining shelf-life of the product in terms of its sensory properties throughout its storage life for three months .* The taste of the product is sour in taste	Check sample C1 containing 100% Assam lemon juice and C2 containing 80% Assam lemon juice as preservative showed effective preservative properties for retaining shelf-life of the product in terms of its sensory	Farm women are seems to interested in adopting the technology so that they can utilize grape fruit and also assam lemon in preserving elephant foot yam.	-	3.33 (and 5 if Bar tenga and Elephant foot yam is from farmer's own garden)

		<p>yam with 80 ml juice T3=100g Elephant foot yam with 60 ml juice</p> <p>Preparation: Boiled and mesh the Elephant foot yam>Sundrye for 2 hrs>Heat oi(30ml/100g)>Add Spice>Add meshed elephant foot yam>Add the grape fruit juice and cook for pickle thickness >cooled and stored in Food grade bottle. *Exposure to Sun is needed occasionally in sunny days.</p>				<p>properties throughout its storage life for three months. .*</p> <p>The taste of the product is sour in taste</p>			
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Results in details for Preservative activity of locally available Grape fruit (Bar tenga) *Citrus grandis* in preserving Elephant foot yam, ulkachu (Amorphophalls):

Table 1: Sensory test results using hedonic 9 point scale evaluation sheet for sample **T1 (100g elephant foot yam with 100ml grape fruit juice):**

Sample No.	Months wise test								
	After one month storage			After two months storage			After three months storage		
	Colour	Texture/ Crispiness	Overall acceptability	Colour	Texture/ Crispiness	Overall acceptability	Colour	Texture/ Crispiness	Overall acceptability
T1(100 % Conc.)	little low acceptable	Good texture	Acceptable (Sour in test)	little low acceptable	Good texture	acceptable	little low acceptable	Good texture	acceptable

Table 2: Sensory test results using hedonic 9 point scale evaluation sheet for sample **Check sample, C1=(100g elephant foot yam with 100ml Assam lemon juice):**

Sample No.	Months wise test								
	After one month storage			After two months storage			After three months storage		
	Colour	Texture/ Crispiness	Overall acceptability	Colour	Texture/ Crispiness	Overall acceptability	Colour	Texture/ Crispiness	Overall acceptability
C1(100% Conc.)	little low acceptable	Good texture	Acceptable (Sour in test)	little low acceptable	Good texture	acceptable	little low acceptable	Good texture	acceptable

Table 3: Sensory test results using hedonic 9 point scale evaluation sheet for sample **T2:(100g elephant foot yam with 80ml grape fruit juice)**

Sample No.	Months wise test								
	After one month storage			After two months storage1			After three months storage		
	Colour	Texture/ Crispiness	Overall acceptability	Colour	Texture/ Crispiness	Overall acceptability	Colour	Texture/ Crispiness	Overall acceptability
T2(80% Conc.)	good	Good texture	acceptable	good	Good texture	acceptable	good	Good texture	acceptable level

Table 4: Sensory test results using hedonic 9 point scale evaluation sheet for Check sample **C2:(100g elephant foot yam with 80ml Assam lemon juice)**

Sample No.	Months wise test								
	After one month storage			After two months storage1			After three months storage		
	Colour	Texture/ Crispiness	Overall acceptability	Colour	Texture/ Crispiness	Overall acceptability	Colour	Texture/ Crispiness	Overall acceptability
C2(80% Conc.)	good	Good texture	acceptable	good	Good texture	acceptable	good	Good texture	acceptable

Table 5: Sensory test results using hedonic 9 point scale evaluation sheet for **sample T3:100g elephant foot yam with 60ml grape fruit juice**

Sample No.	Months wise test								
	After one month storage			After two months storage			After three months storage		
	Colour	Texture/ Crispiness	Overall acceptability	Colour	Texture/ Crispiness	Overall acceptability	Colour	Texture/ Crispiness	Overall acceptability
T3(60% Conc.)	good	Good texture	acceptable	good	Good texture	Decline in acceptable level	Little good	Decline in texture	Decline in acceptable level

Table 6: Sensory test results using hedonic 9 point scale evaluation sheet for **Check sample C3:100g elephant foot yam with 60ml Assam lemon juice**

Sample No.	Months wise test								
	After one month storage			After two months storage			After three months storage		
	Colour	Texture/ Crispiness	Overall acceptability	Colour	Texture/ Crispiness	Overall acceptability	Colour	Texture/ Crispiness	Overall acceptability
C3(60% Conc.)	good	Good texture	acceptable	good	Good texture	Decline in acceptable level	Little good	Decline in texture	Decline in acceptable level

Conclusion:

Sample T1 containing 100% Grape fruit juice as preservative showed effective preservative properties for retaining shelf-life of the product in terms of its sensory properties throughout its storage life for three months.* The taste of the product is sour in taste.

Check sample C1 containing 100% Assam lemon juice as preservative showed effective preservative properties for retaining shelf-life of the product in terms of its sensory properties throughout its storage life for three months. . * The taste of the product is sour in taste.

Sample T2 and C2 (Check)containing 80% Grape fruit juice and 80% Assam lemon juice as preservative showed effective preservative properties for retaining shelf-life of the product in terms of its sensory properties throughout its storage life for three months.* The taste of the product is sour in taste.

Sample T3 containing 60 % grape fruit juice and sample C3 containing 60% Assam lemon juice as preservative showed effective preservative properties for retaining shelf-life of the product in terms of its sensory properties throughout its storage life for one month only. The taste of the product is acceptable i.e not sour in taste.

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

3.2 Achievements of Frontline Demonstrations during 2018-19

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

List of technologies demonstrated during previous year and popularized during 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.	Paddy	Variety Sharboni	7	117	41.73
2.	Toria	Variety TS-67	15	615	400
3.	Vermicompost	Low cost vermicompost	5	75	-
4.	<u>Azolla</u>	Azolla production in homestead	2	60	-

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

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

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement	Farming situation (Rainfed/Irrigated, Soil type, altitude, etc)	Status of soil (Kg/ha)			
					Proposed	Actual	SC/ST	Others	Total			N	P	K	
1	Paddy	Varietal trial	Paddy hybrid var. Arize 6444 gold	Kharif, 2018	0.13	0.13	-	1	1	nil	Rainfed				
2			Paddy var. Naveen	Rabi, 2018	3	3	19	-	19	1	nil	Rainfed			
3			Millet	Foxtail millet var. Local	Rabi, 2018	2	2	-	4	4	nil	Rainfed			
4			Buckwheat	Buckwheat var. Local	Rabi, 2018	1	1	-	2	2	nil	Rainfed			
5	Mustard	Crop productio	Mustard var. PM-26	Rabi, 2018	5	5	-	7	7	nil	Rainfed				

6	Toria	n	Toria var. TS-67	Rabi, 2018	13.33	13.33	18	-	18	nil	Rainfed			
7	Paddy	Seed Production	Var. Ranjit Sub-1	Kharif, 2018	3	3	-	16	16	nil	Rainfed			
8	Linseed		Linseed var. T-397	Rabi, 2018	3	3	4	-	4	4	nil	Rainfed		
9	Maize	Integrated crop management	Variety NMH-3662	Rabi, 2018	3	3	20	-	20	nil	Rainfed			
10	Maize		Variety NMH-3662	Rabi, 2018	4	4	-	10	10	nil	Rainfed			
11	Kharif Blackgram		Variety SBC-40+Seed treatment with Rhizobium & PSB @50gm/kg of seed+Vermicompost@1.5t/ha	Kharif, 2018	10	10	17	6	23	nil	Rainfed			
12	Kharif Greengram		Variety SGC-20+Seed treatment with Rhizobium & PSB @50gm/kg of seed+Vermicompost@1.5t/ha	Kharif, 2018	10	10	20	9	29	nil	Rainfed			
13	Rabi Field pea		Variety Aman+Seed treatment with Rhizobium & PSB @50gm/kg of seed+Vermicompost @1.5t/ha	Rabi, 2018	10	10	4	56	60	nil	Rainfed			
14	Rabi Lentil	Variety HUL-57+Seed treatment with Rhizobium & PSB @50gm/kg of seed+Vermicompost@1.5t/ha	Rabi, 2018	10	10	-	25	25	nil	Rainfed				

15	Summer Blackgram		Variety PU-31+Seed treatment with Rhizobium & PSB @50gm/kg of seed+Vermicompost@1.5t/ha	Summer, 2019	10	10	-	27	27	nil	Rainfed			
16	Summer Greengram		Variety SGC-16+Seed treatment with Rhizobium & PSB @50gm/kg of seed+Vermicompost@1.5t/ha	Summer, 2019	10	10	-	29		nil	Rainfed			
17	Apple ber	popularization	Spacing:4x4 Planting time: July-August	April-June 2019	0.13	0.13	-	2	2	- started aril 2019	Rainfed/sandy loam			
18	Blackpepper	Varietal evaluation	Var. Panniyur-1	April-June 2019	0.20	0.20	-	20	20	-	Rainfed/sandy loam			
19	Potato	do	Var. Kufrijyoti	Oct-Feb 2018-19	0.80	0.80	10		10	-	Rainfed			
20	French bean	do	Var. Anupama	Oct-Feb 2018-19	0.80	0.80	10		10	-	Rainfed			
21	Pea	do	Var. Arkel	Oct-Feb 2018-19	0.80	0.80	10		10	-	Rainfed			
22	Sesamum (NMOOP)	Crop production	Sesamum variety Koliabor Local	Kharif, 2018	10	10	6	4	10	-	Rainfed	-	-	-
23	Toria (NMOOP)	Crop production	Toria variety TS-67	Rabi, 2018	30	30	8	16	24	-	Rainfed	-	-	-

24	Rice	Fertility management	Application of Zinc as basal @ 25	Kharif 2018	2	2	0	5	5		Rainfed	351	167	127
25	Azolla	Production of organic inputs	<i>Azolla sp. carolinia</i>	Year round	30	30	0	30	30					
26	All crops	Financial management	Farm Records and account Keeping	Year round	4 village	4 village	0	100	100	-	-	-	-	-

c. Performance of FLD on Crops

Sl. No.	Crop	Thematic area	Area (ha.)	Avg. yield (Q/ha.)		% increase in Avg. yield	Additional data on demo. yield (Q/ha.)		Data on parameters other than yield, e.g., disease incidence, pest incidence etc.		Econ. of demo. (Rs./ha.)				Econ. of check (Rs./Ha.)			
				Demo.	Check		H*	L*			GC**	GR**	NR**	BCR**	GC	GR	NR	BCR
							Demo	Local										
1	Rice hybrid	Varietal trial	0.13	64.84	39.5	64.15	65.47	64.20	nil	nil	30813	87534	56721	2.8	30813	51350	20537	1.7
2	Paddy var. Naveen		3	ONGOING														
3	Foxtail millet		2	ONGOING														
4	Buckwheat		1	7.86	nil	100	8.91	6.80	nil	nil	14307	27500	13203	1.92	nil	nil	nil	nil
5	Mustard	Crop production	5	11.2	6.56	70.73	12.35	10.05	nil	nil	26026	44800	18774	1.72	23400	26240	2840	1.12
6	Toriya		13.33	9.65	nil	100	10.74	8.56	nil	nil	26026	38600	12574	1.48	nil	nil	nil	nil
7	Paddy	Seed Production	3	48.0	nil	100	49.0	6.0	nil	nil	36113	62400	26287	1.73	nil	nil	nil	nil
8	Linsseed		3	7.23	nil	100	8.34	6.11	Nil	nil	26126	72300	46174	2.65	nil	nil	nil	nil

9	Mai ze	Integr ated crop maan agem ent	3	Ongoing														
10	Mai ze		4	Ongoing														
11	Kha rif Bla ckgr am		10	2.925	0.8	265.63	4.25	1.6	nil	nil	27504	20475	-7029	0.74	4220	5660	1380	1.33
12	Kha rif Gre eng ram		10	5.7	5.5	3.64	7.1	4.3	nil	nil	27504	37050	9546	1.35	25400	35750	10350	1.41
13	Rab i Fiel d pea		10	7.65	nil	100	8.19	7.11	nil	Nil	31400	38233.33	6833.33	1.21	nil	nil	nil	nil
14	Rab i Len til		10	6.24	nil	100	7.11	5.36	nil	nil	30650	37420	6770	1.22	nil	nil	nil	nil
15	Summ er Blackg ram		10	7.89	nil	100	8.68	7.10	nil	nil	27504	47340	19836	1.72	nil	nil	nil	nil
16	Summ er Green kgram		10	8.10	nil	100	9.39	6.78	nil	nil	27504	52650	25146	1.91	nil	nil	nil	nil
17	Apple ber	Populari azation	0.13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Ongoi ng
18	Blackp epper	Varietal evaluatio n	0.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Ongoi ng
19	Potato	Do	0.80	91	80	13.75	-	-	-	Red ant infesta tion	50,000	182000	132000	1:3.64	45,000	160000	115000	1:3.5

20	French bean	Do	0.80	86	70	22.85	-	-	-	Aphid attack	50,000	172000	122000	1:3.4	45,000	140000	95000	1:3.1
21	Pea	Do	0.80	25	20	25.00	-	-	-	Leaf miner	50,000	75000	25000	1:1.5	45,000	60000	15000	1:1.3
22	Sesamum (NMO OP)	Crop production	10	5.68	NA	-	7	4	Nil	-	15985	56500	40515	3.53	-	-	-	-
23	Toria (NMO OP)	Crop production	30	8.81	4.50	95	11.25	5	Nil	Nil	15365	29073	13708	1.89	14365	18562	2596	1.29
24	Rice	Fertility management	2	5.12	3.98		5.4	4.7	-	-	31262	51630	20368	1.65	25767	37742	11975	1.46
25	Azolla	Production of organic inputs	30	15kg/harvest/20 days	-	--	-	-	-	-	-	-	-	-	-	-	-	-
26	All crops	Financial management	4	1. 62% of the farmers are maintaining records 2. The attitude of 44% of the farmers changing to maintain the record														

*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		
				Gen	SC/ST	Total
1	Field days	5	14.11.18, 26.11.18, 28.02.19, 22.03.19, 26.03.19	141	0	141
2	Farmers Training	6	02.08.18, 14.08.18, 09.10.18, 10.10.18, 11.12.18, 25.01.19	132	2	134
3	Media coverage	1	01.12.18			
	Total	12		273	2	275

e. Details of FLD on Enterprises

(i) Farm Implements

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

* Field efficiency, labour saving etc.

(ii) Livestock Enterprises

Sl. No.	Enterprise/ Category (e.g., Dairy, Poultry etc.)	Thematic area	Name of Technology	No. of farmers	No. of units	No. of animals, poultry birds etc.	Major Performance parameters / indicators		% change in the parameter	Other parameters (if any)		Econ. of demo. (Rs./Ha.)				Econ. of check (Rs./Ha.)				Remarks
							Demo	Check		Demo	Check	GC*	GR*	NR*	BCR*	GC	GR	NR	BCR	
1	Poultry	Breed introduction	Vanaraja poultry	20	20	10	ongoing	ongoing												Started in 1 st week of Feb, 19
2	Duck	Breed introduction	White pekin	10	10	10	Body wt. 1.5 mont hs: 1.100 kg	Body wt. 1.5 mont hs: 0.600 kg												Started in 2 nd week of Feb, 19

** GC- Gross Cost, GR- Gross Return, NR- Net Return, BCR- Benefit-Cost Ratio, Produce Sale Price must be as per MSP or Registered Marketing Society

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

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

(iii) Fisheries

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

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

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

(iv) Other enterprises

Sl. No.	Category/Enterprise	Thematic area	Name of Technology	No. of farmers	No. of units	Major Performance parameters / indicators		% change in the parameter	Other parameters (if any)		Econ. of demo. (Rs./Ha.)				Econ. of check (Rs./Ha.)				Remarks
						Demo	Check		Demo	Check	GC*	GR*	NR*	BCR*	GC	GR	NR	BCR	
1	Mushroom	Mushroom production	Income generation through oyster mushroom cultivation	50	50	Gross income, Yield, B:C ratio	-	-	-	-	1260/unit	12000/unit	10740/unit	9.52	-	-	-	-	

2	Vermicompost	Organic matter production	Production of vermicompost using low cost unit	30	30	Yield: 20kg per harvest	-	-			170	600	430	3.52	-	-	-	-		
3	Azolla	Organic matter production	Azolla cultivation in home stead	30	30	Yield: 15kg per harvest														
4	Nutrition garden	Nutrition gardening	Nutrition gardening for nutritional security at school premises Technology Details :Year round production of vegetables	1 school (No. of students 217)	01	Production : 1.8q/200m ² Vegetables in the mid day meal: 30g/student/mid meal	Production: Absence of Nutrition garden Vegetables in the mid day meal: 10g/student/mid meal	Production: 180 Vegetables in mid meal: 200	Practical knowledge of vegetable cultivation, fertilizer application ,organic manure etc.	Theory knowledge from books	Rs.80,000	Rs.225000	Rs.145000	2.8	Kharif vegetables are in the garden					

5	Nutrition gardening	House hold food security by kitchen gardening and nutrition gardening	Nutrition gardening for Nutritional security at household. Technology: Year round production of vegetables	29	07	Production : 3.44q/200 ^m 2 Daily consumption of vegetables:1.5kg/day/family	Production: Average50kg in bari Daily consumption of vegetables:500g/day/family	Production: 588 Daily consumption: 200	Knowledge on good agricultural practices+ Balance diet	Traditional knowledge	Rs.125000	Rs.344000	Rs.219000	2.7	Turmeric,ginger,lemons and other fruit plants are in the garden and Kharif vegetable are also in the garden				
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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
1	Paddy	Arize 6444 gold	0.13	1	64.84	39.5	64.15	65.47	64.20	30813	87534	56721	2.8	30813	51350	20537	1.7

*H-Highest recorded yield, L- Lowest recorded yield, ** GC- Gross Cost, GR- Gross Return, NR- Net Return, BCR- Benefit-Cost Ratio

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

3.3. Achievements on Training

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

Thematic area	No. of Courses/ prog			Participants																Grand Total (x + y)		
	On-Campus (1)	Sponsored* (2)	Total (1+2)	General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female			Total	
				On (4)	Sp. On (5)	On (6)	Sp. On (7)	On (a=4+6)	Sp. On (b=5+7)	On (8)	Sp. On (9)	On (10)	Sp. On (11)	On (c=8+10)	Sp. On (d=9+11)	On (4+8)	Sp. On (5+9)	On (6+10)	Sp. On (7+11)		On (x=a+c)	Sp. On (y=b+d)
I. Crop Production																						
Weed Management																						
II. Horticulture																						
a) Vegetable Crops																						
Production of low volume and high value crops																						
b) Fruits																						

Training and Pruning																					
c) Ornamental Plants																					
Nursery Management																					
d) Plantation crops																					
Production and Management technology																					
e) Tuber crops																					
Production and Management technology																					
f) Spices																					
Production and Management technology																					
g) Medicinal and Aromatic Plants																					
Nursery management																					
III Soil Health and Fertility Management																					
Soil fertility management																					
Soil and Water Testing																					
IV Livestock Production and Management																					
Dairy Management																					
V Home Science/Women empowerment																					
Household food security by kitchen gardening and nutrition gardening																					
VI Agril. Engineering																					
Installation and maintenance of micro irrigation systems																					
VII Plant Protection																					

Integrated Pest Management																						
VIII Fisheries																						
Integrated fish farming																						
IX Production of Inputs at site																						
Seed Production																						
X Capacity Building and Group Dynamics																						
Leadership development																						
Income generation activities for empowerment of rural Women	1	0	1	0	0	11	0	11	0	0	0	0	0	0	0	0	0	11	0	11	0	11
XI Agro-forestry																						
Production technologies																						
TOTAL	1	0	1	0	0	11	0	11	0	0	0	0	0	0	0	0	0	11	0	11	0	11

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

Thematic area	No. of Courses/ prg.			Participants																		Grand Total	
	Off	Sp Off*	Total	General						SC/ST						Total							
				Male		Female		Total		Male		Female		Total		Male		Female		Total			
				Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*		
I. Crop Production																							
Seed production	3	0	3	65	0	68	0	133	0	8	0	1	0	9	0	133	0	9	0	14	2	0	142
Integrated Crop Management	3	0	3	47	0	22	0	69	0	13	0	2	0	15	0	60	0	24	0	84	0	84	84

II. Horticulture																						
a) Vegetable Crops																						
Production of low volume and high value crops	1	-	1	04	-	21		25			-	-	-	-	-	04	-	21	-	25	-	25
b) Fruits																						
Training and Pruning																						
c) Ornamental Plants																						
Propagation techniques of Ornamental Plants	1	-	1	19	-	05	-	24	-	1	-	-	-	1	-	20	-	05	-	25	-	25
d) Plantation crops																						
Processing and value addition																						
e) Tuber crops																						
Processing and value addition																						
f) Spices																						
Production and Management technology	1		1	-	-	-	-	-	-	24	-	02	-	-	-	24	-	02	-	26	-	26
g) Medicinal and Aromatic Plants																						
Nursery management																						
III Soil Health and Fertility Management																						

					*		*				*		*							*		
Productivity enhancement in field crops	3	0	3	63	0	6	0	69		6	0	0	0	6	0	75	0	6	0	81	0	81
Integrated Nutrient management	1	-	1	15		-	-	15	-	2	-	1	-	3		17	-	1	-	18	-	18
Management in farm animals	02	-	02	35	-	-	-	35	-	05	-	-	-	05	-	40	-	-	-	40	-	40
Household food security	1	-	1	20	-	4	-	24	-	4	-	-	-	4	-	24	-	4	-	28	-	28
Women and Child care	1	-	1	-	-	22	-	22	-	-	-	6	-	6	-	-	-	28	-	28	-	28
Financial management	1	0	1	26	0	5	0	31	0	1	0	0	0	1	0	27	0	5	0	32	0	32
TOTAL	9	0	9	159	0	37	0	196	0	18	0	7	0	25	0	183	0	44	0	227	0	227

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
Agril. Economics	Women Empowerment	Mushroom cultivation	24.02.19	1	KVK Campuses	Farm women	0	11	11	0	0	0	0	11	11

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

Discipline	Area of training	Title of the training programme	Date (From – to)	Duration in days	Venue	Please specify Beneficiary group (Farmer & Farm women/ RY/ EP and NGO Personnel)	General participants			SC/ST			Grand Total		
							M	F	T	M	F	T	M	F	T
Agronomy	Crop production	Agronomic practices of main field to assured potential production of Sali paddy	23.07.18	1	Santak Nagao n	Farmer & Farm women	17	6	23	1	1	2	18	8	26
		Agronomic practices of main field to assured potential production of Sali paddy	25.07.18	1	Phulani bari	Farmer & Farm women	13	3	16	12	0	12	25	3	28
		Agronomic practices of main field to assured potential production of Sali paddy	27.07.18	1	SDAO, Nazira	Farmer & Farm women	17	13	30	0	0	0	17	13	30
	Productivity enhancement in field crops	Recent advances in Agronomy with special reference to Sivasagar District	03.10.18	1	DAO, Sivasagar	Extension personnel	26	3	29	3	0	3	29	3	32

		Recent advances in Agronomy with special reference to Sivasagar District	24.12.18	1	DAO, Charai deor	Extension personnel	17	3	22	1	0	1	18	5	23
		Recent advances in Agronomy with special reference to Sivasagar District	14.02.19	1	SDAO, Nazira	Extension personnel	18	0	18	2	0	2	20	0	20
	Seed production	Improved technology for oilseed production	15.11.18	1	Rajabari GP office	Rural Youth	18	0	18	7	0	7	25	0	25
		Scientific production technology of Kharif pulse crop Blackgram(NFSM)	30.08.18	1	Phulani bari	Farmer & Farm women	18	2	20	5	0	5	23	2	25
		Scientific production technology of rabi pulse crop Field pea(NFSM)	19.12.18	1	Holomari	Farmer & Farm women	4	26	30	3	1	4	7	27	34

		Scientific production technology of rabi pulse crop Lentil(NFSM)	19.12.18	1	Holomari	Farmer & Farm women	17	13	30	0	0	0	17	13	30
		Scientific production technology of summer pulse crop greengram(NFSM)	29.03.19	1	Bokabil	Farmer & Farm women	26	27	53	0	0	0	26	27	53
Horticulture	Production technology	Production technology on bhoot jolokia	02.10.18	1	Demow	Farmer and farm women	25	10	35	0	0	0	25	10	35
		Production technology of tomato and cabbage	15.11.18		Moran	Extension personnel	15			10	25	0	0	0	15
	Production technology	Production technology of rabi vegetables	21.12.18 22.12.18 24.12.18	3	Moran, Holmari	Farmer & Farm women	4	21	25	0	0	0	4	21	25
		Production technology of Orchid flower	20.03.19 21.03.19	2	Dikhowmukh	Farmer	19	5	24	1	0	1	20	5	25
		Blackpeeper cultivation in homestead garden	09.03.19	1	Nitaipukhuri Ahom Pathar	RY	0	0	0	24	2	26	24	2	26

Soil Science	Organic matter production	Azolla cultivation in homestead	25.01.19	1	Hahchara	PF	1	24	25	-	-	-	1	24	25
	Soil testing	Soil testing and its importance	05.02.19	1	Kohargoon	PF	1	24	25	-	-	-	1	24	25
	Management of problematic soil	Management of problematic soil	14.03.19	1	Rupahimukh	PF	23	2	25	-	-	-	23	2	25
	Micro nutrient	Micronutrient deficiency in crops	16.03.19	1	Demow	PF	-	-	-	5	20	25	5	20	25
Animal Science	Poultry management	Layer poultry Farming as Backyard system	28.01.19	1	Hahchara	Farmers & Farmwomen	03	22	25	-	-	-	03	22	25
	Poultry management	Backyard poultry farming	11.02.19	1	Nazira	Farmwomen	-	38	38	-	04	04	-	42	42
	Goat management	Scientific management of goat	01.02.19	1	Charing	Farmers & Farmwomen	25	2	27	01	-	01	28	-	28
	Livestock & Poultry management	Recent advances in Livestock & poultry management	26.12.18 & 27.12.18	1 day each	DVO Office, Sivasaagar	Extension Personnel	35	-	35	05	-	05	40	-	40

Community Science	Value addition	Hands on training on Preparation of Jam and Jelly	29.06.18	01	Chetia goan, Sivasa gar	Farm women	-	26	26	-	-	-	-	26	26
	Location specific drudgery reduction technologies	Location specific drudgery reduction technologies for increasing work efficiency	10.08.18 11.08.18	02	Patar goan	Farm women	-	26	26	-	-	-	-	26	26
	Women and child care	Reproductive health care of adolescent girls	18.09.18	01	Mahila Sangha , Vekuri chapori	RY	-	33	33	-	-	-	-	33	33
	Nutrition gardening	Nutritional Security of children by establishing Nutrition garden at school premises	12.10.18	01	Nazira H.S. School	EF	20	4	24	4	-	4	24	4	28
	Women and child care	Stimulatory play materials for early childhood education	24.10.18 25.10.18	02	ICDS office ,Sivasa gar (u)	EF	-	22	22	-	6	6	-	28	28

	Design and development of low/minimum cost diet	Hands on training on design & development of low minimum cost diet	11.01.19	01	Phulpansiga	Farm women	6	19	25	-	-	-	6	19	25
	Household food security by kitchen gardening and nutrition gardening	Nutrition education for rural mothers	12.03.19	01	Dolebagan, Chharaideo	Farm women	-	25	25	-	-	-	-	25	25
	Location specific drudgery reduction technologies	Hands on training on location specific drudgery reduction technologies for increasing work efficiency	13.04.9	01	Haripara Ali	Farm women	-	-	-	9	16	25	9	16	25
Agril. Economics	Financial Management	Farm records and account keeping	02.08.18	1	Phulpansiga	Farmer & Farm women	24	2	26	0	0	0	24	2	26
		Financial Management	08.08.18	1	DAO, Sivasagar	EP	26	5	31	1	0	1	27	5	32

		Farm records and account keeping	14.08.18	1	Tengapukhuri	Farmer & Farm women	14	11	25	0	0	0	14	11	25
	Women Empowerment	Income generating activities for economic empowerment of women SHGs	28.08.18, 31.08.18, 04.09.18,	3	Harkina, Geleky	Farm women	0	27	27	0	0	0	0	27	27
	Women Empowerment	Income generating activities for economic empowerment of women SHGs	26.09.18, 27.09.18, 28.09.18	3	Bamunbari, Charaideo	Farm women	0	26	26	0	0	0	0	26	26
	Financial Management	Farm records and account keeping	09.10.18	1	Harkina	Farmer & Farm women	18	5	23	0	0	0	18	5	23
	Financial Management	Farm records and account keeping	10.10.18	1	Lahon Gaon	Farmer & Farm women	0	23	23	0	0	0	0	23	23
	Oilseed production	Scientific production of Rapeseed and Mustard	11.12.18	1	Bokota	Farmer & Farm women	7	3	10	2	0	2	9	3	12
	Entrepreneurship development	Entrepreneurship development	28.01.19, 30.01.19	2	Phulani bari	RY	21	4	25	0	0	0	21	4	25

Tailoring and Stitching	9/11/2018 to 16/11/2018	07	Tailoring	Vocational training on Infant and children garment making	-	20	20	-	-	-	-	20	20	Making garments	02	02	12.000/year	-
Carpet Making	25.02.19-01.03.19	5	Carpet making	Carpet making	0	5	5	0	23	23	0	28	28	Carpet making	1	5	10000.00	No
Carpet Making	02.03.19-06.03.19	5	Carpet making	Carpet making	1	10	11	3	21	24	4	31	35	Carpet making	2	10	12000.00	No

*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		
Off	FW	19.09.18	1	Soil Science	vermicompost	Vermicompost production technology	-	45	45	-	5	5	-	50	50	Pra bah NGO	
Total							-	45	45	-	5	5	-	50	50		

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 2018-19

Sl. No.	Extension Activity	Topic	Date and duration	No. of activities	Participants											
					General (1)			SC/ST (2)			Extension Officials (3)			Grand Total (1+2)		
					M	F	T	M	F	T	M	F	T	M	F	T
1	Advisory services	Mushroom cultivation, Vermicompost, Piggery, Dairy, Goatery, SHC, Paddy, Value addition, Poultry, Summer vegetable production, Rabi vegetables, Papaya, Assam Lemon		40	210	71	281	78	25	103	11	5	16	299	101	400
2	Diagnostic visit	Pest and disease in orange, Paddy, Dairy, Poultry, Papaya, Coconut,	28.08.18, 17.09.18, 11.10.18, 23.11.18, 25.11.18, 10.12.18, 12.12.18, 05.01.19, 07.01.19, 12.02.19	10	10	9	19	5	3	8	0	0	0	15	12	27
3	Field day	Popularization of rice hybrid in Assam	14.11.18	1	23	27	50	0	0	0	0	0	0	23	27	50
		Submergence tolerant paddy var. Ranjit Sub-1	26.11.18	1	27	4	31	0	0	0	0	0	0	27	4	31
		Short duration mustard var. PM-26	28.02.19	1	26	14	40	0	0	0	0	0	0	26	14	40
		Nutrition Garden	22.03.19	1	0	20	20	0	0	0	0	0	0	0	20	20
4	Kishan Mela		16.12.18-17.12.18	1	365	585	950	240	320	560	110	80	190	715	985	1700
5	Film show			5	15	81	96	20	25	45	0	0	0	35	106	141
6	Exhibition		15.05.18-	1	375	525	900	200	250	450	120	30	150	695	805	1500

			17.05.18													
7	Scientists visit to farmers fields			30	215	15	230	51	0	51	0	0	0	266	66	332
8	Ex-trainee Sammelan		01.01.19	1	19	35	54	0	0	0	0	0	0	19	35	54
9	Farmers seminar/ workshop	Doubling farmers income by 2022	23.06.18	1	83	7	90	0	0	0	10	1	11	93	8	101
10	Method demonstration	Preparation of pickle, Jam & Jelly	29.06.18	1	0	26	26	0	0	0	0	0	0	0	26	26
		Preparation of pickle, Jam & Jelly	03.07.18	1	0	33	33	0	0	0	0	0	0	0	33	33
		Preparation of pickle, Jam & Jelly	04.07.18	1	8	25	33	0	0	0	0	0	0	8	25	33
		Preparation of pickle, Jam & Jelly	05.07.18	1	11	9	20	0	0	0	0	0	0	11	9	20
		Preparation of pickle, Jam & Jelly	06.07.18	1	10	20	30	0	0	0	0	0	0	10	20	30
		Line transplanting of paddy	14.07.18	1	0	21	21	0	0	0	0	0	0	0	21	21
		Line transplanting of paddy	18.07.18	1	8	3	11	0	0	0	0	0	0	8	3	11
		Line transplanting of paddy	26.07.18	1	3	11	14	0	0	0	0	0	0	3	11	14
		Mushroom production	28.08.18	1	0	27	27	0	0	0	0	0	0	0	27	27
		Vermicompost production	28.08.18	1	0	27	27	0	0	0	0	0	0	0	27	27
		Mushroom production	26.09.18	1	0	26	26	0	0	0	0	0	0	0	26	26
		Vermicompost production	26.09.18	1	0	26	26	0	0	0	0	0	0	0	26	26
		Vermicompost production	20.12.18	1	0	0	0	11	0	11	0	0	0	11	0	11
		Mushroom production	24.01.19	1	0	0	0	2	7	9	0	0	0	2	7	9
Mushroom production	30.01.19	1	21	4	25	0	0	0	0	0	0	21	4	25		
Soil sample collection	14.03.19	1	23	2	25	-	-	-	-	-	-	23	2	25		

		economic benefit of farmers														
		Agricultural advisories	1 st week of February, 19													
		Agricultural advisories	2 nd week of February, 19													
		Agricultural advisories	3 rd week of February, 19													
		Discussion with women farmers and Scientist of Community Science	06.03.19													
18	Soil health camp		28.3.19	1	32	8	40	-	-	-	-	-	-	32	8	40
19	Awareness programme	PCRA	26.10.18	1	27	22	49	0	0	0	6	2	8	33	24	57
		Post Flood contingency measures	21.08.18	1	20	11	31	0	0	0	0	3	3	20	14	34
		Optimal infant and young child feeding practices and better child health	16.09.18	1	6	130	136	6	24	30	2	5	7	14	159	173
		Role of mothers in teaching hygienic practices to their children	21.09.18	1	0	113	113	0	11	11	1	2	3	1	126	127
		Technological awareness programme for SHGs	11.10.18	1	0	75	75	0	1	1	7	1	8	7	84	91
20	Lecture delivered as resource person	Edible Mushroom production	08.05.18	1	8	13	21	1	0	1	4	1	5	13	14	27
		Book keeping	15.05.18	1	0	15	15	0	8	8	1	1	2	1	24	25
		Book keeping	16.05.18	1	2	11	13	0	0	0	2	1	3	4	12	16
		Plant protection measures in Sali paddy	20.08.18	1	27	5	32	0	0	0	3	1	4	30	6	36

		Training on tools & techniques in microbiological study	7.9.18	1	15	17	32	-	-	-	-	-	-	15	17	32
		Vermicompost production technology	19.9.18	1	-	50	50	-	-	-	-	-	-	-	50	50
		Mushroom production and its preservation	12.10.18	1	0	27	27	0	2	2	1	3	4	1	32	33
		Vermicompost production technology	2.11.18	1	-	42	42	-	-	-	-	-	-	-	42	42
		Integrated pest management in horticultural crop	29.11.18	1	0	0	0	0	0	0	20	10	30	20	10	30
		Organic farming & biofertilizer production	14.2.19	1	10	8	18	-	-	-	-	-	-	10	8	18
		Vermicompost production technology	16.2.19	1	-	22	22	2	-	-	2	-	-	22	2	24
		Oilseed production	16.02.19	1	4	0	4	16	4	20	0	1	1	20	5	25
		Vermicompost production technology & IFS	25.3.19	1	12	32	44	-	-	-	-	-	-	12	32	44
21	PRA		03.10.18	1	1	0	1	16	23	39	0	0	0	17	23	40
22	Farmer-Scientist interaction	Farmer-Scientist interaction by AIR, Jorhat	22.05.18	1	12	20	32	0	0	0	5	3	8	17	23	40
		Agriculture Enterprises	03.10.18	1	0	1	1	7	22	29	0	0	0	7	23	30
23	Survey	Problems and prospects of Muga Silkworm rearing at Sivasagar district of Assam		1	100	0	100	0	0	0	0	0	0	100	0	100
		Mid term review at DFI village Phulpanichiga		1	85	1	86	0	0	0	0	0	0	85	1	86
24	Celebration of Golden Jubilee			1	22	23	45	2	5	7	0	0	0	24	28	52
25	Webcasting	PM interaction with farmers	20.06.18	1	65	77	142	4	0	4	12	2	14	80	79	159

		Interaction of PM with women SHGs and Women farmers	12.07.18	1	2	41	43	0	0	0	2	2	4	4	45	49	
		Inauguration of PM Kisan Samman Nidhi Scheme	28.02.19	1	64	103	167	30	25	55	0	0	0	94	128	222	
26	Winter/ Summer School attended	Summer school on doubling farmers income: technology intervention in agriculture at MPUAT, Rajashtan	07.09.18-27.09.18														
		Winter school on action research for making farmers equal partners in organized food retail at BHU, Varanashi	02.11.18-22.11.18														
Grand Total					173	2181	2824	5005	738	810	1546	333	168	499	3269	3842	7111

3.5 Production and supply of Technological products during 2018-19

A. SEED MATERIALS

Major group/class	Crop	Variety	Quantity (qt)	Value (Rs.)	Number of recipient/ beneficiaries		
					General	SC/ST	Total
CEREALS	Paddy	Ranjit	24.3	92340.00			
		Swarna Sub-1	3.65	13870.00			
		Joha (Black)	0.23	874.00			
OILSEEDS	Toria	TS-67	3.65	34675.00			
	Sesamum	Kaliabor Local	0.19	3420.00			
PULSES							
VEGETABLES							

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

Sl. No.	Major group/class	Quantity (ton.)	Value (Rs.)	Number of recipient/ beneficiaries		
				General	SC/ST	Total
1	CEREALS	2.82	107084.00			
2	OILSEEDS	0.38	38095.00			
3	PULSES					
4	VEGETABLES					
5	FLOWER CROPS					
6	OTHERS					
TOTAL		3.2	145179.00			

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

Major group/class	Crop	Variety	Numbers	Value (Rs.)	Number of recipient beneficiaries		
					General	SC/ST	Total
Fruits	Citrus	Assam Lemon	2000 nos.	60000.00			
Spices	Blackpepper	Panniyur	1000 nos.	20000.00			
VEGETABLES							
Forest Spp.							
Plantation crops							
Medicinal plants							
OTHERS (Pl. Specify)							

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

Sl. No.	Major group/class	Numbers	Value (Rs.)	Number of recipient beneficiaries		
				General	SC/ST	Total
1	Fruits	2000 nos.	60000.00			
2	Spices	1000 nos.	20000.00			
3	Ornamental Plants					
4	VEGETABLES					
5	Forest Spp.					
6	Medicinal plants					
7	Plantation crops					
8	Mushroom	26 Kgs	4160.00			
TOTAL		3000 nos. & 26 Kgs	84160.00			

C. Production of Bio-Products during 2018-19

Major group/class	Product Name	Species	Quantity		Value (Rs.)	Number of Recipient /beneficiaries		
			No	(qt)		General	SC/ST	Total
BIOAGENTS								
BIOFERTILIZERS								
1. Vermicompost				4.29	3432.00			
BIO PESTICIDES								

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

Sl. No.	Product Name	Species	Quantity		Value (Rs.)	Number of Recipient beneficiaries		Total number of Recipient beneficiaries
			Nos	(kg)		General	SC/ST	
1	BIOAGENTS							
2	BIO FERTILIZERS	Vermicompost		429	3432.00			
3	BIO PESTICIDE							
	TOTAL			429	3432.00			

D. Production of livestock during 2018-19

Sl. No.	Type of livestock	Breed	Quantity		Value (Rs.)	Number of Recipient beneficiaries		
			(Nos)	Kgs		General	SC/ST	Total
1	Cattle/ Dairy							
2	Goat	Beetal Cross breed	01 05		40000.00			
3	Piggery	T&D Hampshire	49		147000.00			
4	Poultry	Layer Quail Turkey Pekin Duck Khaki Campbell	50 40 12 20 50					
5	Fisheries	Catla Rohu Mrigal	1 lakh					
6	Eggs	Muscovy Vanaraja BV 300 Khaki Campbell Kamrupa	1344		8064.00			
		Turkey	54		1620.00			
		Quail	490		1960.00			

D1. SUMMARY of production of livestock during 2018-19

Sl. No.	Livestock category	Breed	Quantity		Value (Rs.)	Number of Recipient beneficiaries		Total number of Recipient beneficiaries
			Nos	(kg)		General	SC/ST	
1	CATTLE							
2	SHEEP & GOAT	Beetal Cross breed	01 05		40000.00			

3	POULTRY	Layer Quail Turkey Pekin Duck Khaki Campbell	50 40 12 20 50					
4.	PIGGERY	T&D Hampshire	49		147000.00			
5	FISHERIES	Catla Rohu Mrigal	1 lakh					
6	OTHERS (Pl. specify)							
	TOTAL							

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

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

(B) Articles/ Literature developed/published

Item	Title /and Name of Journal	Authors name	Number of copies
Research papers			
1.	Saikia T, Bora, K.C. and Gogoi, H. (2018).Production and marketing pattern of banana in Nagaon district of Assam. <i>Agriculture Update, Vol.13(2):197-`202</i>	Mrs. T. Saikia	
2.	Saikia T, Bora, K.C. and Gogoi, H. (2018).Economic analysis of post harvest lost of banana in Nagaon district of Assam. <i>International Research Journal of Agricultural Economics and Statistics, Vol.9(2):341-345</i>	Mrs. T. Saikia	
Technical Report			
1.			
Popular articles	Sashya Rakhat Narji Fulor Bhumika/ Asom Aditya, 01.01.19	S. Dihingia	
	Vermi whispers in Tinsukia/ Agriculture Today, July, 2018	A. Bordoloi	
Technical bulletins			
Extension bulletins	Kechu har prastut pranali	Dr. A. Bordoloi, Dr. P. Handique	500
	Kechu har prastutkoron aru prayugbidhi	Mr. R.J.Bora,	Anonymous
	Dhan khetit kothiyar jatan	Mr. R.J.Bora, Miss P Dutta	Anonymous
TOTAL			

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

(C) Details of Electronic Media Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number produced
1	CD	Participatory video making on Vermicompost production by SHG members	10

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. SUCCESS STORIES OF 3 FARM WOMEN

Name of the Farm Women : Mrs. Purabi Konwar

Mrs. Susmita Konwar

Mrs. Lipika Konwar

• **Name of SHG** : **Matri SHG, Bengmuria, Konwar**

• **Year of Linkage with KVK, Sivasagar** : **2011**

• **Major Activities of the Group** :

- Traditional Assamese jalpan preparation,
- Vermicompost production
- Mushroom production
- Poultry and weaving



Major achievements area wise(From April 2018 till March 2019)

SI No.	Area	Production	Sale price	Sale details		Income (Rs.)
				Within Sivasagar district	Outside Sivasagar	
1	Vermicompost	46.5 q	Rs.800/q	Within Sivasagar		37200.00
2	Vermi worm	6000 no.	Rs.2/worm			12000.00
2	Mushroom	37.5kg	Rs.200/kg			7500.00
3	Egg (Vanraja/ local)	2160 nos	Rs.8/egg			17280.00
4	Poultry	14 nos (35kg)	Rs.230/kg			8050.00
5	Endi shawl	5 nos	Rs.1000/stall			5000.00
6	Magh bihu Special Sale of Traditional recepies					
a.	Til pitha	7200 nos	Rs.5/pc	Within Sivasagar Supplied to a Shop "KALYANI" Balighat	Jorhat, Guwahati	36000.00
b.	Coconut laddu/til laddu/Poka mithoi	3100 nos	Rs.5/pc			15500.00
c.	Hurom (Ghiu Bora)	30 kg	Rs.250/kg			7500.00
d.	Kumal Chaul	1.58q	Rs.80/kg			12640.00
e.	Handah	37 kg	Rs.100/kg			3700.00
Total sale from-april18 to January 19						162,370.00

Gross income : Rs. 162,370

Profit : Rs.81185.00

2. Impact of vocational training on Value Addition of Fruits and vegetables

- Name of the farm Women & address :
Mrs. Ranjana Phukan
Mrs. Rita Chetia
Vill. Hahsora Chetia Goan
P.O .Hahsora,kujibali
- Year of Linkage with KVK,Sivasagar : 2014
- Major Activities of the Group :
 - Value addition of fruits and vegetables
 - Value addition of rice
 - Mushroom
 - Vermi compost
 - Vegetables production



Selling of products



Value Addition of Fruits and vegetables



Major achievements area wise(From April 2018 till January 2019)

SI No.	Area	Production	Sale price	Sale details		Income (Rs.)
				Within Sivasagar	Outside Sivasagar	
1	Pickle	1.66 q	Rs.200/kg	Within Sivasagar district (Aidew market + Local market)and in different exhibitions		33,200.00
2.	Jam and Jelly	0.73 q	Rs.150/500gm bottle			10950.00
3.	Squash	112 bottles	Rs.110/bottle		Tinsukia, Dibrugarh	12320.00
4	Til pitha	2200 nos	Rs.5/ps			11000.00
5	Kumal Chaul	50kg	Rs.100/kg			5000.00
6	Joha Rice	1.24q	Rs.4500/q			5580.00
7	Vegetables	66 kg	Rs.40kg			2640.00
8	Mushroom	45 kg	Rs.200/kg			9000.00
9	Vermicompost	50 q	RS.800/q			40,000.00
Total sale in 2018-19						129690.00

(Rs.One lakh twenty nine thousand six hundred ninety only)

Gross income : Rs. 129690.00

Profit :Rs.103752

3. SUCCESS STORY OF AN WOMEN SHG FOR LIVELIHOOD GENERATION

- Name of the Self Help Group & Proper address :
 Hahsora Madyam Chetia Goan Swayangshewi Mohila Gut
 Vill. Hahsora Chetia Goan
 P.O .Hahsora,kujibali
 Pin. 785701
- Year of establishment :30/05/2002 (Registration no. SD/BD/12)
- Major Activities of the SHG :Goatery, iggery,Poultry,Mushroom,Vermicompost, value addition of rice, fruits and vegetables,
 Bakery and vegetables production
- Total No. of Members with specialization : 11 Nos

Goatery	: 4 nos
Piggery	: 4 nos
Poultry	: 4 nos
Value addition of fruits and vegetables	: 03nos
Value addition of rice	:11 nos
Bakery	:01
- Future Plans/Programmes :Opening a sale unit at Sivasagar town with the help of NABARD
- Total Gross income (from 2014-2018)/Profit : Rs. 1627620.00
 Profit : Rs.1302096.00
- They sell their product in different exhibitions organized by different institutions and in Mela's all over Assam.
- Rural mart proposal is submitted to NABARD





4. Success story of an unemployed rural youth

Mr. Anil Mohan of Bokota area of Sivasagar district was in search of an income generating activity since his graduation. He came to the contact of KVK, Sivasagar during July, 2018. He was advised to adopt various agriculture based income generating activities like mushroom production, vermicompost production etc. By discussing with the KVK person he became interested to produce mushroom. In his request KVK, Sivasagar arranged to supply mushroom spawn and polythene bags. During the period of September, 2018 to March, 2019 Mr. Anil Mohan sold 4 quintals of fresh Oyster mushroom from his own production. His gross income was Rs. 80000.00 and gross cost was Rs. 5000.00. At the same time he also encouraged a lot of women farmers and rural youth in his locality to grow mushroom. Presently about 25 women farmers and 15 nos. of rural youth of the locality are growing mushroom.



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

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

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK
1.	Pulses	Storage of blackgram/greengram seed with ash of husk of blackgram against stored grain pest.	As the bruchids are the major problems for storing of pulses
2.	Rice	Clipping of rice seedling tips before transplanting	To check the spreading of stem borer eggs lay in the nursery beds.
3.	Rice	Placing of bamboo perch in the rice field soon after transplanting	Mainly for perching of predatory birds to catch and eat the prevailing insect in the rice field.
4.	Rice	Double transplanting	Less pest infestation
5.	Rice	Use of Pumello at tillering stage	For stem borer management.
6.	Rice	Hanging of dead/rotten frogs and crabs in the rice field.	To attract rice Gandhi bug to the rotten/dead animals and thereby escapes the rice crop.
7.	Rice/seed storage	Application of dried <i>Mahaneem</i> leaves & Mango leaves in seed storage	Against rice moth & rice weevil
8.	Livestock	Hot fomentation of Tapioca on inflamated area in case of pig.	To reduce muscle pain in pig.
9.	Potato seed storage	Use of elephant apple in storage	Against potato tuber moth
10.	Mango	Use of smoke at the time of flowering	To control stone weevil
11.	Banana	Use of "Sonaru" leaves	For ripening purpose
12.	Potato	Use of naphthalene balls	Against insect pest of potato in storage
13.	Rodent	Use of Crab in rat hole	For controlling of rodents
14.	Brinjal	Use of ash	For management of fruit & shoot borer

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

- Identification of courses for farmers/farm women: PRA, Group Discussion
- Rural Youth: PRA, Group Discussion
- Extension personnel: Discussion

3.11 Field activities

- i. Number of villages adopted: 5
- ii. No. of farm families selected: 150
- iii. No. of survey/PRA conducted: 4

3.12. Activities of Soil and Water Testing

Status of establishment of Lab : NA

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

Sl. No	Name of the Equipment			Qty.	Cost
	S&WT lab	Mini lab/ Mridaparikshak	Manufacturer		
1					
2					
3					

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

Details	No. of Samples analysed	No. of Farmers	No. of Villages	Amount (In Rupees) realized
Soil Samples	500	500	18	
Water Samples				
Plant Samples				
Petiole Samples				
Total				

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

- a. No. of SHCs prepared: 225

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./Farmer)	After (Rs./Farmer)
Carpet Making	62	24	0.00	11333.00
Mushroom production	315	31.75	20000.00	35000.00
Vermicompost	615	70	-	16,000/unit (2m x 1m x 1m)
Rice var Ranjit as Sali rice	450	85	5087.00/ha	26287.00/ha
Toria var TS-67 for late sowing	534	80	3974/ha	17,971/ha
Dual purpose poultry breed Vanaraja	600	67	19,600/100 birds	40,000/100 birds

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

4.2. Cases of large scale adoption

Technology: Oyster Mushroom Production

No. of new mushroom growing village during 2018-19 : 10 nos.

No. of farmers : 100 nos.

Mushroom spawn supplied during 2018-19 : 3 Quintals

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
1. District Agricultural Office	Implementation of ATMA programe and selection of participants
2. District Animal Husbandry & Veterinary Office	Joint implementation of programmes
3. District Fishery Development Office	Joint implementation of programmes
4. District Sericulture Office	Joint implementation of programmes
5. District Forest Office	Joint implementation of programmes
6. District Industry and Commerce Office	Joint implementation of programmes
7. DRDA	Joint implementation of programmes
8. Banking Organization	Contribution for infrastructural development
9. Krishak Nyas, SHAPE, SHINE, KBKUS, Prerona, KASS (NGO), NOIMIKHA NGO	Conducting training programmes and demonstration
10. NABARD	Sponsored training, SHG & JLG formation and management and other extension activities.
11. NIBIO, IWMI, NRRI, MS Swaminathan Foundation	Implementation of the project "Building Climate Resilience of small holders in Assam and Odisha"

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

5.2 List special programmes undertaken by the KVK, which have been financed by State Govt./Other Agencies during 2018-19

Name of the scheme	Activity	Date/ Month of initiation	Funding agency	Amount (Rs.)
TSP	Site selection, beneficiary selection, Technology Dissemination through FLD, Demonstration Unit, Agricultural equipments, IFS model, Training	April, 2018	ICAR	29,53,676.00

APART	Site selection, beneficiary selection, Technology Dissemination through FLD, Training, awareness programme, field day, field visit	June'2018	World Bank	22,50,045
CFLD Oilseed	Site selection, beneficiary selection, Input distribution, Training, field day, field visit	Aug'2018	NMOOP	2,30,000.00
CFLD Pulses	Site selection, beneficiary selection, Input distribution, Training, field day, field visit	Aug'2018	NFSM	5,40,000.00

World Bank Sponsored programme under APART

Sl. No.	Name of Demonstration	No. Of Demo	Area (Ha)	Yield	
				Average	Range
1.	Mini- kit (1 bigha/ farmer)	125	12.3	6.01	4.8- 7.13
2.	On Farm Adaptive Trial (20 kg/demo)	12	4.8	6.35	5.3- 7.5
3.	Cluster Demonstration (250 kg/demo)	15	75	6.06	5.9- 7.2
4.	Dealer's Network (10kg/ demo)	15	3.75	5.75	5.15- 6.0
5.	Head to Head (10kg/demo)	31	7.75	6.65	5.21- 6.90

6.	ICMD For transplanted rice (10kg/ha)	6	1.5	6.71	5.91- 7.33
7.	ICMD for transplanted rice –PQR (10kg/ha)	2	0.50	2.3	1.57- 2.41
8.	ICMD for Learning Centre (Transplanted rice)	3	3	6.21	4.2- 7.06
9.	ICMD for Learning Centre (transplanted PQR)	3	3	2.43	1.82- 2.54
10.	Wet DSR	2	2	6.43	5.91-6.90
11.	IPM superimpose in OFD	8		6.31	5.21- 7.05
12.	IPM superimpose in cluster	15		6.15	4.91- 7.25
		237	113.96		

Other Extension Activities:

Activity	Target (no.)	Achieved (no.)
Awareness meetings (1 day)	1	1
Quality seed production training (1 day)	2	2
Post Harvest Machinery Training		
Training and demo (clubbed together)	1	1
Rice Value Chain Machinery		
Demonstration on Rice Value Chain Machinery	1	1
2 Days trainings on post- harvest machinery	1	1

Awareness workshop in post harvest techno(one day)	1	0
Identification of Progressive Farmers	1	1
Trainings (Boro Season)		
Quality Seed Production training (1 day)	1	1
Rice Knowledge Bank Usage training	1	1
Agronomy Training		
Identification of progressive farmers and local dealers	1	1
	11	10

Front Line demonstration conducted under *rabi* season

Sl. No	Crop	Target		Achieved (ha.)	No. of beneficiaries	Location	Yield (q/ha.)
		Units	Area (ha.)				
1.	Toria var. TS-46	16	16	16	16	Gopalpur, 2 no. Gopalpur, Panbesa, Boliaghat, Haripara Ali	9.45 (9.07-10.12)

Participatory Seed Production of Toria (Var: TS-46)

Sl.No	Crop	Target		Achieved (ha.)	No. of beneficiaries	Location	Yield (q/ha.)
		Units	Area (ha.)				
1.	Toria	23	23	23	23	Gotonga, Rupohimukh, Nitaipukhri, Bokota	9.82 (9.23-10.57)

5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district Yes

Sl. No.	Programme	Nature of linkage	Remarks
1.	Demonstration programmes on Vegetables	Joint field visit, Monitoring	
2.	Demonstration on Hybrid paddy	Training, Ceremonial sowing, joint field visit, Monitoring	
3.	Upscaling of vermicompost units	Training, Demonstration, Joint field visit	
4.	Capacity building programmes on production of organic inputs, protected cultivation and rabi vegetables	Training	
5.	ATMA GB Meeting	Role as a Member	
6.	Awareness programme	As resource person	
7.	Training	As Resource person	
8.	APART	Beneficiary selection	

Any other									
Pulses									
Green gram									
Black gram									
Arhar									
Lentil									
Ay other									
Oilseeds									
Mustard	15/10/2018	20/01/2019	0.65	TS-67	FS	3.65		34675	
Soy bean									
Groundnut									
Sesamum	6/08/2018	8/10/2019	0.39	Koliabor Local	CS	0.19		3420	Germination poor due to heavy rainfall just after sowing
Fibers									
i.									
ii.									
Spices & Plantation crops									
i.									
ii.									
Floriculture									
i.									
ii.									
Fruits									
i.									
ii.									
Vegetables									
i.									
ii.									
a. Others (specify)									
i.									
ii.									

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

6.6. Utilization of hostel facilities (Month-Wise) during 2018-19

Accommodation available (No. of beds) :

Months	Title of the training course/Purpose of stay	Duration of Training	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
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	State Bank of India	AAU, Jorhat	
With KVK	SBI, ADB	Gargaon	1167147783
Revolving Fund	SBI, ADB	Gargaon	30709339138
APART	SBI, ADB	Gargaon	37877685903
PFMS	SBI, ADB	Gargaon	38322606516

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

Item	Released by ICAR/ZPD		Expenditure		Unspent balance as on 31 st March, 2018
	Year	Year	Year	Year	
Inputs					
Extension activities					
TA/DA/POL etc.					
TOTAL					

7.3 Utilization of KVK funds during the year 2018-19

S. No.	Particulars	Sanctioned (in Lakh)	Released (in Rs.)	Expenditure (in Rs.)
A. Recurring Contingencies				
1	Pay & Allowances	1.10		1,02,04,64

				2.00
2	Traveling allowances		2,50,000.00	2,35,947.00
3	Contingencies			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)		16,0000.00	14,12,466.00
B	POL, repair of vehicles, tractor and equipments			
C	Meals/refreshment for trainees			
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)			
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)			
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)			
G	Training of extension functionaries			
H	Maintenance of buildings			
I	Establishment of Soil, Plant & Water Testing Laboratory			
J	Library			
TOTAL (A)		1.10	1850000	1,18,53,055.00
B. Non-Recurring Contingencies				
1	Works			
2	Equipments including SWTL & Furniture			

3	Vehicle (Four wheeler/Two wheeler, please specify)			
4	Library (Purchase of assets like books & journals)			
TOTAL (B)				
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)				

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

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year
April 2016 to March 2017	116475.00	277067.00	188381.00	205161.00
April 2017 to March 2018	205161.00	148318.23	163857.50	189621.73
April 2018 to March 2019	189621.73	293356.25	237887.00	245090.98

Note: No KVK must leave this table blank

8.0 Please include information which has not been reflected above.

Findings of Survey on problems and prospects in Muga Silk worm rearing

1. The average income generation in the sample farms was found to be from Rs. 25000.00 to Rs. 5,00,000.00 per farmer.
2. The average employment generation in the sample farms was found to be from 300 man days to 540 man days per farm.
3. The major problems in muga silk worm rearing reported by the sample farmers were as follows:
 - a) ONGC
 - b) Brick fields

- c) Tea garden
- d) Environmental pollution
- e) Chemical application in crop production
- f) Aristocratic life style of assamese people.
- g) Labour intensive activity
- h) Lack of interest of assamese people for income generation.

8.1 Constraints

(a) **Administrative:**

- i) Shortage of labour force for maintaining demonstration unit/ instructional farm
- ii) Shortage of Fishery SMS for dissemination of fishery related technologies and also for running the carp fishery demonstration unit of KVK Farm

(b) **Financial:**

- i) TA for trainees for on campus training would encourage the farmers to attend the same.
- ii) Insufficient budget for meal & training material under training head

(c) **Technical:**

- (i) Heavy load shedding
- ii) Lack of high-speed internet connectivity.
- iii) Shortage of technical person for soil sample analysis

(d) **Physical:**

- i) Lack of well set up residential campus including staff Quarters with other facilities
- ii) Lack of well-equipped farmers' hostel for conducting on campus/vocational training programmes.
- iii) Replacement of old office vehicle required
- iv) Replacement of Drip irrigation, sprinkler irrigation facility to be created.

(Signature)

