PROFORMA FOR ANNUAL REPORT OF KVKS, 2017-18

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail/Website
	Office	FAX	
Krishi Vigyan Kendra, Balek P.O-Roing, District-Lower Dibang Valley	-	-	kvkldv@gmail.com www.kvkbalek.nic.in

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

Address	Telephone		E mail
	Office	FAX	
Directorate of agriculture Govt. Arunachal Pradesh Naharlagun- 791110	0360-2244252	0360-2351774	Osd_kvk@yahoo.in

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. T. J Ramesha	03803-223669	9436836352	fishcotj@yahoo.co.in

1.4. Year of sanction:2004

1.5. Staff Position (As on 31st March, 2018)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category
1	Senior Scientist & Head	Dr. T.J.Ramesha	Programme Coordinator	Aquaculture	15600-39100 (PB-3)	35,250	10/12/08	Temporary	OBC
2	Subject Matter Specialist	Smti.Toktel Boko	SMS(PP)	Plant Pathology	15600-39100 (PB-3)	26600	11/11/05	Temporary	ST
3	Subject Matter Specialist	Miss..Monika Panggam	SMS(Agronomy)	Agronomy	15600-39100 (PB-3)	24350	28/11/08	Temporary	ST
4	Subject Matter Specialist	Mrs.Nanang Tamut	SMS (Home Science)	Home Science	15600-39100 (PB-3)	22280	19 /9/11	Temporary	ST
5	Subject Matter Specialist	Mr.Jimmy Mize	SMS (Fisheries)	Aquaculture	15600-39100 (PB-3)	22280	2/10/11	Temporary	ST
6	Subject Matter Specialist	Mr.V.K.Pandey	SMS(Hort.)	Horticulture	15600-39100 (PB-3)	22280	2/10/11	Temporary	General
7	Subject Matter Specialist	Dr. Dipankar Hazarika	SMS (A.Sc.)	Animal Sicence	15600-39100 (PB-3)	22280	31/01/13	Temporary	OBC
8	Programme Assistant	Sangey Chom Thungon	Programme Assistant	Agri&Allied	9300-34800 (PB-2)	9300	21/04/2017	Temporary	ST
9	Farm Manager	Mr. Lining Tamut	Farm Manager	Agriculture	9300-34800 (PB-2)	15210	02/12/08	Temporary	ST
10	Programme Assistant	Aka Kalung	Programme Assistant	Computer science	9300-34800 (PB-2)	15210	01/12/08	Temporary	ST
11	Accountant / Superintendent	Mr.Sangam. Linggi	Assistant	Commerce	9300-34800 (PB-2)	15210	25/11/08	Temporary	ST
12	Stenographer	Smti.Aja Bomjen	Steno-Grade-III	Arts	5200-20200 (PB-1)	11440	21/11/08	Temporary	ST
13	Driver	Mr.G.S. Tamang	Driver(Jeep)	Matriculation	5200-20200 (PB-1)	10200	23/06/06	Temporary	SC
14	Driver	Mr.Getem Moyong	Driver(Tractor)	ITI	5200-20200 (PB-1)	10200	23/06/06	Temporary	ST

15	Supporting staff	Smti.Minbyak Lego	Peon	PUC	4440-7440 (PB-1S)	7910	10/04/07	Temporary	ST
16	Supporting staff	Mr. T.Panggam	Chowkider	NA	4440-7440 (PB-1S)	7190	02/04/07	Temporary	ST
	Total	**16**							

1.6. **a. Total land with KVK (in ha)** : 7.12

b. Total cultivable land with KVK (in ha): 5.25

c. Total cultivated land (in ha): 3.2

S. No.	**Item**	**Area (ha)**
1	Under Buildings (Administrative building+ Farmers' Hostel+ Staff Quarters)	565
2.	Under Demonstration Units	1117.8 mtrs
3.	Under Crops (Cereals, pulses, oilseeds etc.)	-
4.	Under vegetables	400 mtrs
5.	Orchard/Agro-forestry	0.1
6.	**Others** • Rain Water Harvesting	350 sq.mtr(875 cu.mtr)

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		565	42.51 lakhs	16.10.2011	-	Completed
2.	Farmers Hostel	-	-	-	-	-	-	-
3.	Staff Quarters (6)	-	-	100.84	NA	-	-	-
4.	Demonstration Units (2)	ICAR	18/01/12(Fishery) 120/4.12(Poultry)	160	12 lakhs	16.10.2011	-	Completed
5	Fencing	ICAR	-	1292 m	15 lakhs	16.10.2011	-	Completed

B) Vehicles

Type of vehicle	Regd. No.	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Bolero Mahindra Max DI	AR-16/ A0242	25/3/2017	800000	1237	Good
Jeep	AR-16/	17/3/2006	501372	23204 Km	Condemned

Mahindra Maxx Mahindra & Mahindra	3793				
Tractor 275 DI Mahindra & Mahindra	AR-16/ 3791	22/3/2006	500000	95335 km	Bad/Condemnable
Tractor 575 DI Mahindra & Mahindra	A/F	22/2/10	869494	5310 km	Good
Power Tiller V.S.T	A/F	22/2/10	155000	NA	Good

C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Computer Desktop -2Nos.	2010	45063	Good
Computer Desktop	2006		Unserviceable
Laptop	2010	48672	Good
Almirah (Big)	2010	17000	Good
Printer HP	2010	28887	Good

Printer Cannon	2010	7400	Good
Xerox Machine	2010	99,788	Unserviceable
Fax Machine	2009	24,825	Unserviceable
Almirah(Medium) 4Nos.	2009	15,000	Unserviceable
Table(Big)-2Nos.	2010	6500	Good
Table (Medium)-6 Nos.	2010	3500	Good
Chair-5 Nos.	2010	2500	Good
Plastic Chair-10 Nos.	2010	540	Good
Revolving Chair	2010	15000	Good
Rice Drum Seeder	2009	3500	Good
Stabilizer- 3 Nos.	2009	6500	Good
Soil testing kit-1 No.	2009	-	Bad
Conoweeder-2 Nos.	2009	-	Good
Typewriter-1 No.	2009	-	Good
Digital Camera-1 No.	2010	19990	Bad
LCD Projector-1 No.	2010	99225	Good
Mini Soil Lab(Mridaparikshak)	2016	95000	Good

Mini Soil Lab(Mridaparikshak)	2017	90300	Good
V SAT and Accessories	2017	Provided under N.E Project of Ministry Of Electronics and Information Technology,New Delhi	Installed at office and services are available

1.8. A). Details SAC meeting* conducted in the year 2017-18

Sl. No.	Date	Name and Designation of Participants	Salient Recommendations	Action taken on last SAC recommendation
1		Mr.Jyothish.K Senior Field Officer,Spices Board	Organise Exposure Visit for spice growers	•
2		Mrs.Toktil.Modi -Agriculture Development Officer	Promotion of quality groundnut seeds production at the locality to meet potential demand	• Established five vermicomposting units at villages namely koronu,yibuk,kebali and balek villages for organic farming • Established three community fish smoking kiln at Keraa-aati,rukmo and jia villages. • Demonstration on groundnut was undertaken at uropaha,jia , abali and bolung villages.
3		Mr.Jatan Pulu -Organic Farmer		
			Evaluation of high yielding varieties of buck wheat	

			Evaluation trial on High yielding varieties of sesamum	
			On farm trial on Arhar and Daincha as intercrop in Ginger has to be initiated	
4		Mrs.Minoorti Pait -Horticulture Development Officer	Production of quality planting materials at the centre	
			Establishment of vermicomposting unit at the centre for supply of earthworms to farmers	
			Trial on biological approach of controlling shoot and fruit borer through Intercropping with coriander has to be popularized at grass root level.	
5		Mr.Tokmen Perme -Farm Innovator,Jia Village	Production and supply of poultry birds at the centre	

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

2. DETAILS OF DISTRICT

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

Sl. No	Farming system/enterprises
1.	Agriculture – Horticulture
2.	Agriculture - Animal Husbandry
3.	Agriculture – Horticulture - Animal Husbandry
	Agriculture - Animal Husbandry –Fishery

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

Sl. No	Agro-climatic Zone	Characteristics
1	Sub – tropical Plain Zone	The Climate is characterized by hot summer and moderately cool winter. The mean annual rainfall varies from 2590 – 3390mm and it exceeds PET greater part of the year and soil remains dry only for a month or so. Mean annual soil temperature is 22^0 C or higher.
2	Mid tropical Hill Zone	The climate is characterized by mild summer and moderate to severe winter. The mean annual rainfall ranges between 2000 to 5000 mm and it exceeds PET for most part of the year. The mean annual soil temperature varies from 18 to 22^0C.

2.3 Soil type/s

Sl. No	Soil type	Characteristics	Area in ha
1	Soils of undulating upland	Moderately shallow to deep, dell drained, loamy or coarse loamy in texture with moderate to severe erosion hazards. The soils are strongly to moderately acidic in nature (pH 4.5 to 7.2), rice in organic matter (0.8 to 5.2% organic carbon) which decline sharply with depth. CEC is low to medium 93.5 to 23.3 $CmolP^{+}kg^{-1}$). Base saturation is very low to medium. Appreciable amount of Al^{3+} is observed.	4715
2	Soils of gentle slopes	Deep, well to imperfectly drained, fine/ fine loamy/ coarse loamy or coarse silty with moderate erosion and slight to moderate flood hazard. Soils are moderately to slightly acidic (pH 4.6-5.8) and moderate to high in organic matter content (1.3-3.7% organic carbon).	11779
3	Soils of level to nearly level	Deep, well to moderately well drained, coarse loamy to coarse silty with moderate flood hazard. Soils on channel bars are moderately shallow, excessively drained and sandy in texture. Soils are slightly acidic to alkaline in nature (pH 5.5-8.4), high	7073

	flood plain	in base saturation	

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

Sl. No	Crop	Area (ha)	Production (ton)	Productivity (Qtl /ha)
1	Paddy	11560	13872	12
2	Maize	9500	12350	13
3	Millet	1620	1296	8
4	Wheat	290	435	15
5	Pulses	980	882	9
6	Oilseeds	5420	5149	9.5
7	Potato	390	3120	80
8	Ginger	3015	24120	80
9	Turmeric	100	750	75
10	Sugarcane	100	1000	100
11	Vegetables	780	1950	25
12	Chilly	100	110	11
13	Orange	NA	NA	NA
14	Pineapple	NA	NA	NA

2.5. Weather data

Month	**Rainfall (mm)**	**Temperature ^{0} C**		**Relative Humidity (%)**
		Maximum	**Minimum**	
April	314.20	32	14	68.2
May	662.13	35	16	75.1
June	721.15	36	21	78.2
July	628.92	38	23	79.1
August	526.75	39	19	72.5
September	416.2.27	38	26	83.1

October	296.34	34	16	81.1
November	765.21	26	14	76.6
December	393.33	22	7	74.8
January	32.85	24	9	72.6
February	96.38	25	10	74.4
March	25.67	29	14	77.6

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

Category	Population	Production	Productivity
Cattle			
Crossbred	**360**	**3672 lts**	**-**
Indigenous	**22979**	**13788 lts**	**-**
Buffalo	**2163**	**3245 lts**	**-**
Sheep			
Crossbred	**15680**	**109760 kgs**	**-**
Indigenous			
Goats	**4078**	**163120kgs**	**-**
Pigs	**9687**	**290610 kgs**	**-**
Crossbred			
Indigenous			

Rabbits			
Poultry			
Hens	**21813**	**1090700 Nos**	-
Desi	**53908**	**808620 Kgs**	**-**
Improved	**14118**	**28236 Kgs**	**-**
Ducks	**8636**	**17272 Kgs**	**-**
Turkey and others			

Category	**Area**	**Production**	**Productivity**
Fish			
Marine			
Inland	**47.9 ha**	**17 Tonnes**	**300 kgs/ha**
Prawn			

Note: Pl. provide the appropriate Unit against each enterprise

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

Sl. No.	**Taluk/ Eleka**	**Name of the block**	**Name of the village**	**Major crops & enterprises**	**Major problem identified**	**Identified thrust area**
1	Lower Dibang Valley	Roing-Koronu	Midland	Rice, Rapeseed, Ginger, Maize, Poultry	Low Production, Pest & Diseases	Diversified Farming (Mushroom, Poultry)

2	Lower Dibang Valley	Roing-Koronu	Meka	Rice, Rapeseed, Ginger, Maize,	Irrigation, Pest & Diseases	Cropping System (Rice-Legume,)
3	Lower Dibang Valley	Roing-Koronu	Jia	Rice, Rapeseed, Ginger, Maize, Piggery, Poultry, Dairy	Low Yield, Weed Menace	Weed Management, Diversified Farming (Mushroom, Livestock Rearing)
4	Lower Dibang Valley	Roing-Koronu	Bolung	Rice, Rapeseed, Ginger, Maize, Duck, Piggery	Low Yield, Weed Menace, Pest & Diseases	Weed Management, Diversified Farming (IFS)
5	Lower Dibang Valley	Roing-Koronu	Rayang	Rice, Ginger, Citrus, Vegetables	Pest & Diseases	Nursery Management for Vegetables
6	Lower Dibang Valley	Roing-Koronu	Injonu	Citrus, Maize, Rapeseed, Vegetables	Weed, Pest & Diseases	Nursery Management for Vegetables
7	Lower Dibang Valley	Roing-Koronu	Simari	Citrus, Ginger, Vegetables	Low yield, pest & diseases	Introduction of improved varieties
8	Lower Dibang Valley	Roing-Koronu	Kangkong	Rice, Rapessed, Potato, Maize, Poultry	Low Producion, Pest & Diseases	Introduction of Disease Tolerant Varieties, Poultry rearing
9	Lower Dibang Valley	Roing-Koronu	Iduli	Rice, Maize, Rapeseed	Low Yield, Pest & Diseases	Diversified Farming(Fisheries)
10	Lower Dibang Valley	Roing-Koronu	Kebali	Millets, Rice, Maize, Rapeseed	Low Yield, Pest & Diseases	Diversified Farming (Fisheries)
11	Lower Dibang Valley	Roing-Koronu	Iphingo	Millets, Rice, Maize, Rapeseed, Citrus, Pineapple	Low Yield, Pest & Diseases	Diversified Farming (Fisheries)
12	Lower Dibang Valley	Roing-Koronu	Rukmo	Rice, Maize, Rapeseed, Pears, Pineapple	Low Yield, Pest & Diseases	Diversified Farming (Fisheries)

13	Lower Dibang Valley	Roing-Koronu	Balek	Rice, Maize, Rapeseed, Jackfruit,Piggery, Poultry	Low production, Pest & Diseases	Diversified Farming (Livestock Rearing)
14	Lower Dibang Valley	Roing-Koronu	Agam Gite	Rice, Maize, Rapeseed, Jackfruit, Ginger, Bamboo Shoot	Low Yield, Pest & Diseases	Diversified Farming (Fisheries)
15	Lower Dibang Valley	Dambuk-Paglam	Dambuk	Rice, Maize,Orange Rapeseed, Jackfruit, Ginger, Bamboo shoot	Low Yield, Pest & Diseases	Diversified Farming (Livestock Rearing)
16	Lower Dibang Valley	Hunli-Desali	Hunli	Rice,Maize,Millet, Spice	Low Yield, Pest & Diseases	Introduction of High Yielding Varieties
17	Lower Dibang Valley	Roing-Koronu	Koronu	Rice, Maize,Orange Rapeseed, Jackfruit, Ginger, Bamboo shoot	Low Yield, Pest & Diseases	Diversified Farming (Livestock Rearing,Fisheries, Vermicomposting, Vegetable Production)

3. TECHNICAL ACHIEVEMENTS

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

Discipline	OFT (Technology Assessment and Refinement)				FLD (Oilseeds, Pulses, Maize, Other Crops/Enterprises)			
	Number of OFTs		Number of Farmers		Number of FLDs		Number of Farmers	
	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement

Agronomy	3	2	15	10	2	1	26	20
Plant Protection	3	2	6	6	2	2	6	6
Horticulture	3	3	9	9	4	5	4	5
Animal Science	2	2	6	6	2	2	6	6
Fisheries	2	2	2	2	2	2	33	39
Total	**13**	**11**	**38**	**33**	**12**	**12**	**75**	**76**

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	48	53	1306	1451	685	545	7932	5493
Rural youth	10	9	265	269				
Extn. Functionaries	8	6	97	115				
Total	66	68	1668	1835	685	545	7932	5493

Seed Production (ton.)	**Planting material (Nos. in lakh)**
5	**6**

Target	Achievement	Target	Achievement
13 tons	118.16 tons	30000 Nos	26020 Nos

Note: Target set during last Annual Zonal Workshop

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

Sl. No	Thrust area	Crop/ Enterprise	Identified problems	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Meat Production	Rabbit	Poor Meat production& high demand for quality meat	Backyard Rabbit Farming	-	Rabbit for Meat	-	Field visit, Diagnostic visit etc.	Distribution of Kits , Medicine etc.
2.	Feed Management	Dairy	Poor milk production due to feeding of nutritionally imbalanced diet	Productive performance of cattle fed upon with urea molasses treated paddy straw	-	Urea molasses treatment of Paddy Straw	-	Field visit, Diagnostic visit etc.	Urea, Plastic bag etc.
3.	Increase of poultry meat and egg production	Backyard Poultry (Vanaraja/ Kamrupa Breed)	Poor production potential of indigeneous poultry birds	-	Performance of improved poultry bird under backyard system of rearing	Scientific poultry production with improved birds	-	Field visit, Diagnostic visit	Poultry Chicks, Feed, Medicine etc.

4.	Promotion of green fodder cultivation during winter season	Fodder (Congo signal)	Scarcity of green fodder during winter season		Popularizing green fodder cultivation	Scientific cultivation of green fodder and its utilisation	-	Field visit, Diagnostic visit	Root slips and Stem cuts
5	Introduction of improved variety for high yield	Brinjal (Pant Samrat)	Low yield due to non availability of HYV	Varietal performance of Brinjal	-	Package of practices for cultivation of Brinjal	-	Field visit, Diagnostic visit	Seed
6	Introduction of improved variety for high yield	Cauliflower Variety (Pusa Deepali)	Low yield due to non availability of HYV	Varietal Performance of Cauliflower	-	Package of practices for cultivation of Cauliflower	-	Diagnostic visit, Field visit	Seed
7	Integrated Nutrient Management	Ginger	Low yield due to improper nutrient management	INM in Ginger	-	Production technology of Ginger	-	Diagnostic visit, Field visits	Seed
8	Integrated Crop Management	Orange	Low yield due to lack of Management,	-	INM in Orange Orchard	Production technology on Orange Orchard Management	-	Diagnostic Visit, Field visits	Biofertiliser, Medicine
9	Introduction of improved variety for high yield	Brinjal (Pant Samrat)	Low yield of existing local variety	-	Popularization of HYV of Brinjal	-	-	Diagnostic visit, Field visits	Seed

10	Integrated Nutrient Management	Cabbage(Var-Pusa Mukta)	Low yield due to improper nutrient management	-	Integrated Nutrient Management in Cabbage	-	-	Diagnostic visit, Field visit	Seed
11	Introduction of improved variety for high yield	Broccoli (Pusa Broccoli KTS-1)	Low yield of existing local variety	-	Popularization of HYV of Broccoli	-	-	Field visit, Diagnostic Visit	Seed
12	Introduction of improved variety for high yield	Banana (Variety-Dwarf Cavendish)	Low yield of existing local variety	-	Popularization of HYV of Banana	Production technology on Banana	-	Field visit, Diagnostic visit	Planting Material
13	Integrated Crop Management	Orange	Low yield due to lack of Management,	-	Fruit drop control in Orange Orchard	Production technology on Orange Orchard Management	-	Field visit, Diagnostic visit	-
14	Disease management.	Groundnut	High incidence of Tikka disease.	Management of Tikka disease in Groundnut.		Management of Tikka disease in Groundnut by using Bordeaux mixture.			Copper Sulphate, Lime and seeds.

15	Pest management	Groundnut	Heavy infestation of Termites	Management of Termites in Groundnut.		Management of Termites through incorporating Mustard cake.			Seeds and Mustard Cake.
16	Disease management.	Tomato	High incidence of Bacterial wilt disease.	.	Management of Bacterial wilt problem in Tomato.	Management of Bacterial wilt disease in Tomato by treating the saplings with Pseudomonas fluorescens. and intercropping of French beans with Tomato.			Seeds, Bioagents.
17	Pest management	Brinjal	Heavy infestation of Fruit and Shoot Borer.		Management of Fruit and Shoot Borer in Brinjal.				Seeds, Biopesticides

18	Introduction of improved variety	1.Lentil 2.Pigeon pea	Non availability of improved seeds and lack of knowledge about the crop Non availability of improved seeds and lack of knowledge about the crop	1.Varietal performance of lentil (Var. IPL-316F/S) Varietal performance of pigeon pea (Variety. Type-7)	Popularization of improved variety of groundnut (Var.ICGS-76)	1.Scientific cultivation of groundnut production technology	Production technology of Rabi pulses	Personal contact, training and demonstration Personal contact, training and demonstration	Seeds Seeds

19	Introduction of improved variety	1.Lentil 2.Pigeon pea	Non availability of improved seeds and lack of knowledge about the crop Non availability of improved seeds and lack of knowledge about the crop	1.Varietal performance of lentil (Var. IPL-316F/S) Varietal performance of pigeon pea (Variety. Type-7)	Popularization of improved variety of groundnut (Var.ICGS-76)	1.Scientific cultivation of groundnut production technology	Production technology of Rabi pulses	Personal contact, training and demonstration Personal contact, training and demonstration	Seeds Seeds
20	Pond management	Fish (composite fish culture)	Poor production due to improper pond stocking and management	Composite fish culture	-	Composite fish culture	-	Field visit, method demonstration,	Distribution of ph paper, $KMnO_4$, Lime etc.

21	IFS Module	Integrated fish farming (fish-duck)	High production cost and less income returns	Fish cum duck integration	-	Fish cum duck integrated farming and its management	-	Field visit, Demonstration	Ducklings, Fish fingerlings, ,
22	Processing and value addition	Smoked fish production using COFISKI.	Poor quality smoked fish with conventional method	-	Processing of fish through community fish smoking kiln	Hygienic and quality smoked fish production using COFISKI.	-	Method demonstration , Field Visit	COFISKI, Heat sealing machine
23	IFS Module	Integrated fish farming (fish – pig)	High production cost and less income returns		Fish cum pig integration	Fish cum pig integrated farming and its management	-	Field visit, Diagnostic visit, Demonstration	Pig, Fish fingerlings,

3.1 Achievements on technologies assessed and refined during 2017-18

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

Thematic areas	Cereals	Oilseed2s	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation		5			4					9
Seed / Plant										

production										
Weed Management										
Integrated Crop Management						2				2
Integrated Nutrient Management					2	1				3
Integrated Farming System										
Mushroom cultivation										
Drudgery reduction										
Farm machineries										
Value addition										
Integrated Pest Management		1				1				1
Integrated Disease Management		1				1				1
Resource conservation technology										
Small Scale income generating enterprises										
TOTAL										**16**

A.2. **Abstract of the number of technologies refined* in respect of crops/enterprises: Not Applicable**

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation										
Seed / Plant production										
Weed Management										
Integrated Crop Management										
Integrated Nutrient Management										
Integrated Farming System										
Mushroom cultivation										
Drudgery reduction										
Farm machineries										
Post Harvest Technology										
Integrated Pest Management										
Integrated Disease Management										
Resource conservation technology										

Small Scale income generating enterprises										
TOTAL										

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

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitery	Fisheries	TOTAL
Evaluation of Breeds						1		1
Nutrition Management	1							1
Disease of Management								
Value Addition								
Production and Management		1						1
Feed and Fodder	1							1
Small Scale income generating enterprises								
TOTAL	**2**	**1**				**1**		**4**

A.4. Abstract on the number of technologies refined in respect of livestock / enterprises: Not Applicable

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitery	Fisheries	TOTAL
Evaluation of Breeds								
Nutrition Management								

Disease of Management								
Value Addition								
Production and Management								
Feed and Fodder								
Small Scale income generating enterprises								
TOTAL								

A.5. Results of On Farm Testing

Sl. No.	Title of OFT	Problem Diagnosed	Name of Technology Assessed	Crop/Cropping system/ Enterprise	No. of Trials	Results of Assessment/ Refined (Data on the parameter should be provided)	Feedback from the farmer	Feedback to the Researcher	B.C . Ratio (if applicable)
1.	Backyard Rabbit Farming	Poor meat production & high demand for quality meat	Performance of Rabbit under backyard system	Rabbit (New Zealand White / Soviet Chinchilla)	2	Growth rate: Avg 1.2 Kg in 3 months Mortality rate : 20% (Due to extreme cold)	Ongoing		NA
2.	Enrichment of paddy staw through Urea molasses treatment	Poor milk production due to feeding of nutritionally imbalanced diet	Productive performance of cattle fed upon urea molasses treated paddy straw	Dairy	2	Milk Yield: Demo:11.5 litter/cow/day Local check: 10.5 litter/cow/day	Good palatability and Increased food intake		1.67 **:** 1
3.	Varietal Performance of Cauliflower	Low productivity due to non availability of HYV	Varietal Evaluation	Cauliflower *(Pusa Deepali*)	**3**	**Demo. Plot** 1.Days to emerging curds- 70 days 2.Curd Weight (gm)-450 3.Harvesting time-90days	Higher production and good consumer preference	Non availability of HYV and Inputs in the vicinity	

						4.Yield (q/ha)-145 **Farmer Practices** 1.Days to emerging curds- 85 days 2.Curd Weight (gm)-250 3.Harvesting time-105 days 4.Yield (qt/ha)-80			
4.	Integrated Nutrient Management in Ginger	Low Yield due to improper nutrient management	INM in Ginger Treatment: T1:No Fertilizer input T2:FYM+Vermicompost+Biofertilizer T3:Farmer practice	Ginger **(Variety-Nadia)**	3	**Demo. Plot** 1.Plant Height-Avg-68cm2.No. of tillers/plant-Avg-12 3.No. of leaves/plant-Avg-172 4.Rhizome Yield/ha – Avg-90 q/ha **Farmer Practice** 1.Plant Height(cm)-92 2.No. of tillers/plant-8 3.No. of leaves/plant-210 4. RhizomeYield (qt/ha)-35	Higher production and good consumer preference	Development of Organic Based Nutrient Mixture	
5.	Varietal Performance of	Low productivity due to non	Varietal Evaluation	Brinjal Pant Samrat)	3	**Trial is ongoing** Demo. Plot	Good growth	-	

	Brinjal	availability of HYV				Plant Height(cm)-61 2.No.of fruit/plant-12 3.Fruit weight (gm)-730 4.Yield (qt/ha)-205 **Farmer Practice** 1.Plant Height(cm)-75 2.No.of fruits/plant-8 3.Fruit weight (gm)- 165. Yield (qt/ha)-80			
6.	Integrated Nutrient Management in Mandarin Orange	Low Yield due to improper nutrient management	INM in Orange Orchard Treatment: T1:No Fertilizer input T2:FYM+Vermicompost+Biofertilizer + T3:Farmer practice	Mandarin Orange	2	Trial is ongoing Demo.Plot 1.Fruit length (cm)- 2.Fruit width (cm)- 3.No.of fruit/plant- 4.Yield /plant (kg)- 5.B:C Ratio- Farmer Practice: 1.Fruit length (cm)- 2.Fruit width (cm)- 3.No. of fruit/plant Yield/plant-	Crop is established well	Development of Organic Based Nutrient Mixture	

						B:C Ratio-			
7	Management of Tikka disease in Groundnut.	Severe incidence of Cercospora leaf spot.	Disease management by using Bordeaux Mixture	Groundnut	3	i)No. of infected plants – 0% ii)Yield – 18qt/ha	Easy and effective ways of managing the disease.	Development of disease resistant variety	6:1
8	Management of Termites in Groundnut.	Severe infestation of Termites.	Management of Termites by incorporating Mustard cake during land preparation.	Groundnut	3	i)No. of infested plant – 5% ii)Yield qt/ha – 17.5qt/ha	Cost effective as local farm resources are utilized.	Development of mite .resistant variety	5.8:1
9	**Varietal performance of lentil**	**Lack of awareness on improved variety**	**Technology** **lentil (Var. IPL-316F/S) Treatment Seed inoculation with *Rhizobium* and PSB each @50g/ kg seed and application of lime @ 2 tonnes/ha before 15-20 days of sowing**	**Lentil**	**3**	**Technology** • **Time of Sowing: Mid of November** • **Germination (%): 100%** • **Plant height(cm): 30 cm** • **No. of Pods/Plant:20-30** • **Yield q/ha: 10.2** • **Net return**	**Farmers were very impressed by the yield performance and interested in taking up the new technology**		**1.16 :1**

						Rs/ha: Rs 61400/-			
10	**Varietal performance of pigeon pea**	**Inadequate nutrient management**	**Technology** **(Variety. Type-7)** **Treatment** **Seed inoculation with *Rhizobium* and PSB each @50g/ kg seed and application of lime @ 2 tonnes/ha before 15-20 days of sowing**	**Arhar**	**3**	**Technology** • **Time of Sowing : Mid of November** • **Germination (%) : 100%** • **Plant height (cm):150 till date.** • **No. of seeds/pod: 5** • **Yield q/ha: 15.02** • **Net return Rs/ha: Rs 210140/-**	**Higher production and Good consumer preference**		**Technology** **1.04:1**
11	Composite fish culture	Poor production and growth performance due to	Composite culture under semi intensive culture condition	Fish (IMC, exotic)	2	Yield : 2800 kg/ha Avg wt. : 480g Mortality: 15% Disease/pest: nil	Better growth performance and better stock health		1.6:1

		improper management							
12	Integrated fish farming (fish cum duck)	High production cost and less income returns	Integration of *khakhi campbell* duck breed with semi intensive fish culture.	Fish – duck integration	2	Yield /unit area:2900kg/ha Avg. wt of fish at harvest:520g Fish Mortality: 20% Egg production: 7000 (approx)	Better production output Duck is more compatible with fish	Unavailability of duck variety such as *khaki Campbell* which is a good layer as compared to local breed	1.7 : 1

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

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

3.2 Achievements of Frontline Demonstrations during 2017-18

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

List of technologies demonstrated during previous year and popularized during 2017-18 and recommended for large scale adoption in the district

Sl. No	Crop/ Enterprise	Technology demonstrated	Horizontal spread of technology		
			No. of villages	No. of farmers	Area in ha

1	Mandarin orange	Fruit drop control in orange orchard	2	2	2
2	Tomato	Management of Bacterial wilt disease in Tomato.	3	3	1
3.	Brinjal	Management of Fruit and Shoot borer	3	3	1
4	**Groundnut**	**Popularization of improved variety of groundnut (Var.ICGS-76)**	**3**	**10**	**1**

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

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)**		
												N	**P**	**K**
					Proposed	**Actual**	**SC/ST**	**Others**	**Total**	**-**				
1.	Brinjal	Crop Production	Popularization of HYV of Brinjal (Pant	Rabi, 2017-	1	0.5	1	-	1	-	Irrigated	-	-	-

			Samrat)	2018										
2.	Cabbage	Integrated Nutrient Management	INM in Cabbage (FYM: 200 q/ha+ Vermicompost10 q/ha +25 kg Biofertilizer)	Rabi 2017-2018	1	1	2		2	-	Irrigated	-	-	-
3.	Broccoli	Crop Production	Popularization of HYV of Broccoli (Pusa Broccoli KTS-1)	Rabi-2017-2018	1	1	1		1	Unavailability of planting material	Irrigated	-	-	-
4.	Banana	Crop Production	Popularization of HYV of Banana	Kharif-2017-2018	2	2	2		2		Irrigated	-	-	-
5.	Mandarin Orange	Integrated Crop Management	Management of Fruit Drop in Mandarin Orange	Rabi, 2017	1	1	1		1	-	Rainfed	-	-	-
6.	Tomato	Biological control of wilt disease in Tomato.	Management of Bacterial wilt disease in Tomato.	Winter 2017-18	1	1	1		3		Rainfed			
7.	Brinjal	Management of fruit and shoot	Management of Fruit and Shoot Borer in Brinjal.	Winter 2017-18	1	1	1		3		Rainfed			

		borer in Brinjal by using Trap crop.												
8	Ground nut	Varietal evaluation	Popularization of improved variety of groundnut (Var.ICGS-76)	Rabi 2017	3	2	10	0	10	NA	Rainfed	-	-	-

c. Performance of FLD on Crops

Sl. No.	Crop	Thematic area	Area (ha.)	Avg. yield (Q/ha.)		% increase in Avg. yield	Additional data on demo. yield (Q/ha.)		Data on parameters other than yield, e.g., disease incidence, pest incidence etc.		Econ. of demo. (Rs./ha.)				Econ. of check (Rs./Ha.)			
				Demo.	Check		H*	L*	Demo	Local	GC**	GR**	NR**	BCR**	GC	GR	NR	BCR
1.	Tomato	Biological control of Bacterial wilt disease in tomato.	1	210	165	45%	210	165	i)Infection%=0.05% ii)No. of fruits/plant=30 iii)yield =210qt/	i)Infection%=25% ii)No. of fruits/plant=16 iii)yield =165qt/	5000`	12600	7600	1.5:1	5000	12600	7600	1.5:1

									ha	**ha**							
2.	Brinjal	Management of Fruit and shoot borer in Brinjal by intercropping Coriander as Trap crop.	1	250	177	73	250	177	i)Pest incidence=0.01 % ii)No. of fruits/plant=20 iii)yield=250qt/ha	i)pest incidence=10% ii)No.of fruits/plant=9 iii)Yield=177qt/ha	10000	25000	15000	1.5:1	10000	25000	15000	1.5:1
1.	**Brinjal** (Pant Samrat)	**Crop Production**	**1**	**180q/ha**	**70q/ha**	60	188q/ha	172q/ha	Plant height(cm)-66,No.of fruit/plant-10,Fruit weight/plant-530g/plant,Yield qt/ha-180	Plant height(cm)-78,No.of fruit/plant-6,Fruit weight/plant-165g/plant,Yield qt/ha-72-	24000	90000	66000	2.75:1	14000	35000	21000	1.57:1
2.	Cabbage (Pusa Mukta)	Integrated Nutrients Management	1	310q/ha	105q/ha	66	320q/ha	300q/ha	Average days to emerge Heads-76,Average Heads Wt(gm)8	Average days to emerge Heads-82,Average Heads Wt(gm)4	35000	155000	120000	3.42:1	15000	42000	27000	1.8:1

									00,Harvesting time-90 days,Average yield q/ha-310	00,Harvesting time-120 days,Average yield q/ha-105								
3.	Mandarin Orange	Integrated Crop Management	1	34kg fruits/plant	20kg fruit/plant	41	42kg	26kg	Fruit length (cm)-5.2,Fruit width (cm)-6cm,No. of fruit/plant-300,Yield/plant-34kg	Fruit length (cm)-4.1,Fruit width (cm)-5.2cm,No.of fruit/plant-260,Yield/plant-20kg	40000	140250	100250	2.50:1	25000	60000	35000	1.4:1
4	**Groundnut**	**Varietal evaluation**	**2**	**2.8**	-	-	**2.81**	**2.76**	**NA**	**NA**	**10000**	**42000**	**32000**	**1.31:1**	-	-	-	-
5	Broccoli	Crop Production	1					Trial incomplet due to unavailability seed										
6	Banana	Crop Production	1								Trial is on going							

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

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

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

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

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

d. Extension and Training activities under FLD on Crops

Sl.No.	Activity	No. of activities organized	Date	Number of participants			Remarks
				Gen	SC/ST	Total	
1	Field days						
2	Farmers Training	4	15/10/17,22/12/2017,5/1/2018, 15/10/2017		77	77	
3	Media coverage						
4	Training for extension functionaries						
5	Any Other						
	Total						

e. Details of FLD on Enterprises :Not Applicable

(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 farmer	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	Meat and egg production	Performance of Kamrupa poultry bird under backyard farming	3	3	70	Egg Production: 100/Yr	Egg Production: 70/Yr	30%	Avg. Egg Weight 42g	Avg. Egg Weight 38g	4000	8260	4260	2:1	3800	5820	2020	1.5:1	
							Avg. Body Weight gain/yr: Male 2.3 Kg, Female: 1.3 Kg	Avg. Body Weight gain/yr: Male 1.7 Kg, Female: 1Kg	Male Body wt: 26% Female Body wt: 23%											
							Mortality : 5%	Mortality : 10%	50											

2.	Forage Crops	Feed and Fodder	Popularization of forage crops	2	2	1ha	Yield: 800 q/ha	Yield: 300 q/ha	62.5%	-	-	5000	10000	5000	2:1	-	-	-	-	

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

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

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

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

(iii) Fisheries

Sl. No.	Category, e.g. Common carp, ornamental fish etc.	Thematic area	Name of Technology	No. of farmers	No. of units	No. of fish/ fingerlings	Major Performance parameters / indicators		% change in the parameter	Other parameters (if any)		Econ. of demo. (Rs./Ha.)				Econ. of check (Rs./Ha.)				Remarks
							Demo	Check		Demo	Check	GC**	GR**	NR**	BCR**	GC	GR	NR	BCR	
1	Smoked fish	Processing and value addition	Smoked fish production using COFISKI	30	3	20 kg per operation	**Product colour and texture :** Light golden	Black carbon coating Texture Too dry and	----	---	-----	5800	13000	7200	2.2:1	5800	10000	4200	1.7:1	Cost effective and environmetal friendly technology for

							colour , Firm and dry flesh **Product preparation time:** 5-6 hour **Shelf life of product:** 2-3 weeks **Consumer preference :** Preferred more as final product has better appeal	brittle 1 week 1 month (approx) Preferred less due to uneven product quality											income generation avenue for farm women

2.	Fish-pig	IFS Module	Integrated fish farming (fish-pig)	3	3	4	Fish Yield : 2950 kg/ha Mortality: 10% Avg. wt of fish at harvest: 380 g	Fish Yield : 1700 kg/ha Mortality: 10% Avg. wt of fish at harvest: 300 g	64.7%	--	--	337480	590000	252520	1.7:1	275910	340000	64090	1.2:1	Higher production per unit area with less input cost

***** 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: Not Applicable

Sl. No.																			**Remarks**
						Demo	**Check**												

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

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

(v) Farm Implements and Machinery: Not Applicable

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

f. Performance of FLD on Crop Hybrids: Not Applicable

Sl. No.	Crop	Name of hybrids	Area (ha.)	No. of farmers	Avg. yield (Q/ha.)	% increase in Avg. yield	Additional data on demo. yield (Q/ha.)	Econ. of demo. (Rs./Ha.)	Econ. of check (Rs./Ha.)

					Demo.	Check		H*	L*	GC**	GR**	NR**	BCR **	GC	GR	NR	BCR

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

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

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

3.3. Achievements on Training

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

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

I. Crop Production																							
Weed Management																							
Resource Conservation Technologies																							
Cropping Systems																							
Crop Diversification	4	-	4	-	-	-	-	-	-	35	-	63	-	97	-	35	-	63	-	97			
Integrated Farming																							
Water management																							
Seed production																							
Nursery management																							
Integrated Crop Management																							
Fodder production																							
Production of organic inputs	9	-	9	-	-	-	-	-	-	67	-	161	-	230	-	67	-	161	-	230			

II. Horticulture																						
a) Vegetable Crops																						
Production of low volume and high value crops	1		1							4		31		35			4		31		35	
Off-season vegetables																						
Nursery raising																						
Exotic vegetables like Broccoli																						
Export potential vegetables																						
Grading and standardization																						
Protective cultivation (Green Houses, Shade Net etc.)																						
b) Fruits																						
Training and Pruning																						
Layout and Management of Orchards																						

Cultivation of Fruit																						
Management of young plants/orchards	1		1							4		8		12		4		8		12		12
Rejuvenation of old orchards																						
Export potential fruits																						
Micro irrigation systems of orchards																						
Plant propagation techniques																						
c) Ornamental Plants																						
Nursery Management																						
Management of potted plants																						
Export potential of ornamental plants																						
Propagation techniques of Ornamental																						

Plants																						
d) Plantation crops																						
Production and Management technology																						
Processing and value addition																						
e) Tuber crops																						
Production and Management technology																						
Processing and value addition																						
f) Spices																						
Production and Management technology	2		2								23		101		124			23		101		124
Processing and value addition																						
g) Medicinal and Aromatic Plants																						
Nursery management																						
Production and management																						

technology																						
Post harvest technology and value addition																						
III Soil Health and Fertility Management																						
Soil fertility management																						
Soil and Water Conservation																						
Integrated Nutrient Management																						
Production and use of organic inputs	9	-	9	-	-	-	-	-	-	67	-	161	-	230	-	67	-	161	-	230		
Management of Problematic soils																						
Micro nutrient deficiency in crops																						
Nutrient Use Efficiency																						
Soil and Water Testing	6		6							39		86		125		39		86		125		125

IV Livestock Production and Management																						
Dairy Management																						
Poultry Management																						
Piggery Management																						
Rabbit Management																						
Disease Management																						
Feed management	1	-	1	-	-	-	-	-	-	4	-	8	-	12	-	4	-	8	-	12	-	12
Production of quality animal products																						
V Home Science/Women empowerment																						
Household food security by kitchen gardening and nutrition gardening																						

Design and development of low/minimum cost diet																						
Designing and development for high nutrient efficiency diet																						
Minimization of nutrient loss in processing																						
Gender mainstreaming through SHGs																						
Storage loss minimization techniques																						
Value addition																						
Income generation activities for empowerment of rural Women																						
Location specific drudgery reduction technologies																						

Rural Crafts																					
Women and child care																					
VI Agril. Engineering																					
Installation and maintenance of micro irrigation systems																					
Use of Plastics in farming practices																					
Production of small tools and implements																					
Repair and maintenance of farm machinery and implements																					
Small scale processing and value addition																					
Post Harvest Technology																					
VII Plant Protection																					
Integrated Pest Management																					

Integrated Disease Management																						
Bio-control of pests and diseases		2	2								48		85		133		48		85		133	133
Production of bio control agents and bio pesticides																						
VIII Fisheries																						
Integrated fish farming																						
Carp breeding and hatchery management																						
Carp fry and fingerling rearing																						
Composite fish culture																						
Hatchery management and culture of freshwater prawn																						
Breeding and culture of																						

ornamental fishes																						
Portable plastic carp hatchery																						
Pen culture of fish and prawn																						
Shrimp farming																						
Edible oyster farming																						
Pearl culture																						
Fish processing and value addition	1		1									30		30				30		30		30
IX Production of Inputs at site																						
Seed Production																						
Planting material production																						
Bio-agents production																						
Bio-pesticides production																						
Bio-fertilizer production	1	-	1	-	-	-	-	-	-	5	-	10	-	15	-	5	-	10	-	15		

Vermi-compost production	8	-	8	-	-	-	-	-	-	67	-	161	-	230	-	67	-	161	-	230		
Organic manures production	9	-	9	-	-	-	-	-	-	67	-	161	-	230	-	67	-	161	-	230		
Production of fry and fingerlings																						
Production of Bee-colonies and wax sheets																						
Small tools and implements																						
Production of livestock feed and fodder																						
Production of Fish feed																						
X Capacity Building and Group Dynamics																						
Leadership development																						
Group dynamics																						
Formation and Management of SHGs																						

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

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

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

		Off*		Male		Female		Total		Male		Female		Total		Male		Female		Total		I
				Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	
I. Crop Production																						
Weed Management																						
Resource Conservation Technologies																						
Cropping Systems																						
Crop Diversification	3	-	3	-	-	-	-	-	-	17	-	17	-	34	-	17	-	17	-	34	-	
Integrated Farming																						
Water management																						
Seed production																						
Nursery management																						
Integrated Crop Management																						
Fodder																						

production																							
Production of organic inputs	7	-	7	-	-	-	-	-	-	79	-	55	-	129	-	79	-	55	-	129	-		
II. Horticulture																							
a) Vegetable Crops																							
Production of low volume and high value crops	2		2							7		23		30				7		23		30	
Off-season vegetables																							
Nursery raising																							
Exotic vegetables like Broccoli	1		1								-		12	-	12			-	-	12		12	
Export potential vegetables																							
Grading and standardization																							
Protective cultivation (Green Houses, Shade Net etc.)																							
b) Fruits																							
Training and																							

Pruning																						
Layout and Management of Orchards																						
Cultivation of Fruit																						
Management of young plants/orchards	1		1							1		19		20				1		19		20
Rejuvenation of old orchards																						
Export potential fruits																						
Micro irrigation systems of orchards																						
Plant propagation techniques																						
c) Ornamental Plants																						
Nursery Management																						
Management of potted plants																						
Export potential of ornamental																						

plants																						
Propagation techniques of Ornamental Plants																						
d) Plantation crops																						
Production and Management technology	1		1							-		12		12				-		12		12
Processing and value addition																						
e) Tuber crops																						
Production and Management technology																						
Processing and value addition																						
f) Spices																						
Production and Management technology																						
Processing and value addition																						
g) Medicinal and Aromatic Plants																						

Nursery management																						
Production and management technology																						
Post harvest technology and value addition																						
III Soil Health and Fertility Management																						
Soil fertility management																						
Soil and Water Conservation																						
Integrated Nutrient Management																						
Production and use of organic inputs	7	-	7	-	-	-	-	-	-	79	-	55	-	129	-	79	-	55	-	129	-	
Management of Problematic soils																						
Micro nutrient deficiency in crops																						

Nutrient Use Efficiency																						
Soil and Water Testing	13	-	13	-	-	-	-	-	-	129	-	121	-	250	-	129	-	121	-	250	-	250
IV Livestock Production and Management																						
Dairy Management																						
Poultry Management	2	-	2	-	-	-	-	-	-	1	-	33	-	34	-	1	-	33	-	34	-	34
Piggery Management	2	-	2	-	-	-	-	-	-	10	-	17	-	27	-	10	-	17	-	27	-	27
Rabbit Management																						
Disease Management																						
Feed management	2	-	2	-	-	-	-	-	-	2	-	18	-	20	-	2	-	18	-	20	-	20
Production of quality animal products																						
V Home Science/Women empowerment																						
Household food security by kitchen gardening and																						

nutrition gardening																						
Design and development of low/minimum cost diet																						
Designing and development for high nutrient efficiency diet																						
Minimization of nutrient loss in processing																						
Gender mainstreaming through SHGs																						
Storage loss minimization techniques																						
Value addition																						
Income generation activities for empowerment of rural Women																						
Location specific drudgery	1	-	1	-	-	-	-	-	-	5	-	10	-	15	-	5	-	10	-	15	-	

reduction technologies																					
Rural Crafts																					
Women and child care																					
VI Agril. Engineering																					
Installation and maintenance of micro irrigation systems																					
Use of Plastics in farming practices																					
Production of small tools and implements																					
Repair and maintenance of farm machinery and implements																					
Small scale processing and value addition																					
Post Harvest Technology																					
VII Plant Protection																					

Integrated Pest Management																						
Integrated Disease Management																						
Bio-control of pests and diseases	4									37		30		67		37		30		67		67
Production of bio control agents and bio pesticides																						
VIII Fisheries																						
Integrated fish farming	2		2							20		8		28		20		8		28		28
Carp breeding and hatchery management																						
Carp fry and fingerling rearing	1		1							20				20		20				20		20
Composite fish culture	1		1							18		1		19		18		1		19		19
Hatchery management and culture of freshwater prawn																						

Breeding and culture of ornamental fishes																						
Portable plastic carp hatchery																						
Pen culture of fish and prawn																						
Shrimp farming																						
Edible oyster farming																						
Pearl culture																						
Fish processing and value addition																						
Pond management	3		3							65		16		81		65		16		65		65
IX Production of Inputs at site																						
Seed Production																						
Planting material production																						
Bio-agents production																						

Bio-pesticides production																						
Bio-fertilizer production																						
Vermi-compost production	3	-	3	-	-	-	-	-	-	14	-	20	-	34	-	14	-	20	-	34	-	
Organic manures production	4	-	4	-	-	-	-	-	-	50	-	35	-	85	-	50	-	35	-	85	-	
Production of fry and fingerlings																						
Production of Bee-colonies and wax sheets																						
Small tools and implements																						
Production of livestock feed and fodder																						
Production of Fish feed																						
X Capacity Building and Group Dynamics																						
Leadership development																						
Group dynamics																						

Formation and Management of SHGs																						
Mobilization of social capital																						
Entrepreneurial development of farmers/youths																						
WTO and IPR issues																						
XI Agro-forestry																						
Production technologies																						
Nursery management																						
Integrated Farming Systems																						
TOTAL																						
(B) RURAL YOUTH																						
3.3.3. Achievements on Training <u>Rural Youth</u> in <u>On Campus</u> including <u>Sponsored On Campus</u> Training Programmes																						

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

Thematic area	No. of Courses/ Prog			Participants																		Grand Total (x + y)
				General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
	On (1)	Sp On* (2)	Total (1+2)	On (4)	Sp. On (5)	On (6)	Sp. On (7)	On (a= 4+6)	Sp. On (b= 5+7)	On (8)	Sp. On (9)	On (10)	Sp. On (11)	On (c= 8+10)	Sp. On (d= 9+11)	On (4+8)	Sp. On (5+9)	On (6+10)	Sp. On (7+11)	On (x= a +c)	Sp. On (y= b +d)	
Mushroom Production	1	1	2								24	10	16	10	40		24	10	16	10	40	50
Bee-keeping																						
Integrated farming																						
Seed production																						
Production of organic inputs	5	-	5	-	-	-	-	-	-	56	-	109	-	167	-	56	-	109	-	167	-	
Integrated Farming																						
Planting material production																						
Vermi-culture	5	-	5	-	-	-	-	-	-	56	-	109	-	167	-	56	-	109	-	167	-	
Sericulture																						

Protected cultivation of vegetable crops																						
Commercial fruit production																						
Repair and maintenance of farm machinery and implements																						
Nursery Management of Horticulture crops																						
Training and pruning of orchards																						
Value addition																						
Production of quality animal products																						
Dairying																						
Sheep and goat rearing																						
Quail farming																						
Piggery																						

Rabbit farming	-	1	1	-	-	-	-	-	-	-	-	-	15	-	15	-	-	-	15	-	15	15
Poultry production																						
Ornamental fisheries																						
Para vets																						
Para extension workers																						
Composite fish culture																						
Freshwater prawn culture																						
Shrimp farming																						
Pearl culture																						
Cold water fisheries																						
Fish harvest and processing technology																						
Fry and fingerling rearing	1		1							12				12		12				12		12
Small scale processing																						

Post Harvest Technology																						
Tailoring and Stitching																						
Rural Crafts																						
TOTAL																						

3.3.4. Achievements on Training of Rural Youth in Off Campus including Sponsored Off Campus Training Programmes

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

Thematic area	No. of Courses/ Prog.			Participants																		Grand Total
				General						SC/ST						Total						
	Off	Sp Off	Total	Male		Female		Total		Male		Female		Total		Male		Female		Total		
				Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	
Mushroom Production																						
Bee-keeping																						
Integrated farming																						
Seed production																						
Production of	2	-	2	-	-	-	-	-	-	9	-	14	-	23	-	9	-	14	-	23	-	

organic inputs																						
Integrated Farming	1		1									12		12				12		12		12
Planting material production																						
Vermi-culture	2	-	2	-	-	-	-	-	-	9	-	14	-	23	-	9	-	14	-	23	-	
Sericulture																						
Protected cultivation of vegetable crops																						
Commercial fruit production																						
Repair and maintenance of farm machinery and implements																						
Nursery Management of Horticulture crops																						
Training and pruning of orchards																						
Value addition																						
Production of quality animal																						

products																						
Dairying																						
Sheep and goat rearing																						
Quail farming																						
Piggery																						
Rabbit farming																						
Poultry production																						
Ornamental fisheries																						
Para vets																						
Para extension workers																						
Composite fish culture																						
Freshwater prawn culture																						
Shrimp farming																						
Pearl culture																						
Cold water fisheries																						

Fish harvest and processing technology																						
Fry and fingerling rearing	1		1							10		6		16		10		6		16		16
Small scale processing																						
Post Harvest Technology																						
Tailoring and Stitching																						
Rural Crafts																						
TOTAL																						

C. Extension Personnel

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

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

Thematic area	No. of Courses/ prog			Participants																		Grand Total
				General						SC/ST						Total						(x + y)
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
	On (1)	Sp On* (2)	Total (1+2)	On	Sp. On	On	Sp. On	On (a=	Sp. On	On	Sp. On	On	Sp. On	On (c=	Sp. On	On	Sp. On	On	Sp. On	On (x= a	Sp. On	

				(4)	(5)	(6)	(7)	4+6)	(b= 5+7)	(8)	(9)	(10)	(11)	8+10)	(d= 9+11)	(4+8)	(5+9)	(6+10)	(7+11)	+c)	(y= b +d)	
Productivity enhancement in field crops	1	-	1	-	-	-	-	-	-	12	-	9	-	20	-	12	-	9	-	20	-	20
Integrated Pest Management	1		1							10				10		10				10		10
Integrated Nutrient management	1		1							10		6		16		10		6		16	-	16
Rejuvenation of old orchards																						
Protected cultivation technology																						
Formation and Management of SHGs																						
Group Dynamics and farmers organization																						
Information networking among farmers																						
Capacity building for ICT																						

application																						
Care and maintenance of farm machinery and implements																						
WTO and IPR issues																						
Management in farm animals	**1**	**-**	**1**	-	-	-	-	-	-	10	-	6	-	16	-	10	-	6	-	16	-	16
ivestock feed and fodder production																						
Household food security																						
Women and Child care																						
Low cost and nutrient efficient diet designing																						
Production and use of organic inputs																						
Gender mainstreaming through SHGs																						
Total																						

3.3.6. Achievements on Training of Extension Personnel in Off Campus including Sponsored Off Campus Training Programmes

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

Thematic area	No. of Courses/ prog.			Participants																		Grand Total
				General						SC/ST						Total						
	Off	Sp Off*	Total	Male		Female		Total		Male		Female		Total		Male		Female		Total		
				Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	
Productivity enhancement in field crops																						
Integrated Pest Management																						
Integrated Nutrient management																						
Rejuvenation of old orchards																						
Protected cultivation technology																						
Formation and Management of																						

SHGs																						
Group Dynamics and farmers organization																						
Information networking among farmers																						
Capacity building for ICT application																						
Care and maintenance of farm machinery and implements																						
WTO and IPR issues																						
Management in farm animals																						
Livestock feed and fodder production																						
Household food security																						
Women and Child care																						

Low cost and nutrient efficient diet designing																						
Production and use of organic inputs																						
Gender mainstreaming through SHGs																						
TOTAL																						

Note: Please furnish the details of above training programmes as <u>Annexure</u> 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
Animal Science	Meat production	Rabbit for meat	18/07/2017	1	KVK	RY	-	-	-	-	15	15	-	15	15
Animal Science	IFS	Integrated Farming System	25/07/2017	1	KVK	EP	-	-	-	10	6	16	10	6	16

Animal Science	Feed and Fodder management	Round the year fodder production	16/02/2018	1	KVK	Farmer & Farm women	-	-	-	4	8	12	4	8	12
Horticulture	Integrated Nutrient Management	Training on Nutrient Management in Organic Ginger production & managemenr practices	30/11/2017	1	KVK	Farmer & Farm Women					3	41	-	44	44
Horticulture	Production of low volume and high value crops	Nutrient Management in Organic Vegetable Production	22/12/2017	1	KVK	Farmer & Farm Women					4	31	-	35	35
Horticulture	Production of low volume and high value crops	Integrated Nutrient Management in Horticulture crops	216/02/2018	1	KVK	Farmer & Farm Women					4	8	-	12	12
Horticulture	Spice Production	Training on cultivation of Ginger & Turmeric & its Management Practices	31/01/2018	1	KVK	Farmer & Farm Women				20	60		20	60	80
Horticulture	Production and Manageme	Training Programme on Scientific	25/07/2017	1	KVK	Extension Personnel				10	6	16	10	6	16

	nt Technology	cultivation of Turmeric & Its Management													
Plant Protection	1.Mushroom Production Technology. 2.Oyster mushroom production technology 3.Biocontrol of pest and diseases in Ginger. 4. Integrated pest and disease management in Ginger and	Production Technology of Oyster Mushroom. Production technology of Oyster mushroom. Quality improvement training programme on Ginger. Production technology of	20/06/2017 18/7/2017 30/11/2017	1 1 1	KVK KVK, do Do	RY RY F&FW				24 12	10 16 41	10 40 53	24 12	10 16 41	10 40 53

	Turmeric. 5.Biological control of pest and diseases in Mandarin Orange	Turmeric and Ginger HRD programme on Integrated farming system for Extension functionaries.	30/01/2018 to 31/01/2018 25/07/2017	2 1	do	F&EW EF				36 10	44	80 10	36 10	44	80 10

Agronomy	**Crop management**	**Scientific cultivation of rabi pulse crop**	**22/12/2017**	**1**	**KVK**	**Farmer & Farm women**				**3**	**32**	**35**	**3**	**32**	**35**
Agronomy	**Crop management**	**Green manuring crop**	**25/7/2017**	**1**	**KVK**	**Farmer & Farm women/EP**				**12**	**9**	**20**	**12**	**9**	**20**
Agronomy	**Production of organic inputs**	**Production technology of Vermicomposting**	**14/8/2017**	**1**	**KVK**	**Farmer & Farm women**				**-**	**10**	**10**	**-**	**10**	**10**
Agronomy	**Crop management**	**Scientific cultivation of groundnut**	**27/6/2017**	**1**	**KVK**	**Farmer & Farm women**				**8**	**3**	**11**	**8**	**3**	**11**
Agronomy	**Production of organic inputs**	**vermicomposting**	**14/7/2017**	**1**	**KVK**	**Farmer & Farm women**				**11**	**42**	**53**	**11**	**42**	**53**
Agronomy	**Production of organic inputs**	**Vermicomposting**	**30/11/2017**	**1**	**KVK**	**Farmer & Farm women**				**11**	**42**	**53**	**11**	**42**	**53**

Agronomy	**Production of organic inputs**	**Vermicomposting**	**30/01/2018 to 31/01/2018**	**2**	**KVK**	**Farmer & Farm women& RY**				**36**	**44**	**80**	**36**	**44**	**80**
Agronomy	**Production of organic inputs**	**Vermicomposting & Azolla production technology**	**21/06/2017**	**1**	**KVK**	**Farmer & Farm women& RY**				**5**	**10**	**15**	**5**	**10**	**15**
Agronomy	**Production of organic inputs**	**Vermicomposting**	**18/7/2017**	**1**	**KVK**	**Farmer & Farm women& RY**				**6**	**4**	**10**	**6**	**4**	**10**
Agronomy	**Production of organic inputs**	**Vermicomposting**	**20/6/2017**	**1**	**KVK**	**Farmer & Farm women& RY**				**6**	**10**	**18**	**6**	**10**	**18**
Agronomy	**Production of organic inputs**	**Vermicomposting**	**18/11/2017**	**1**	**KVK**	**Farmer & Farm women& RY**				**3**	**41**	**44**	**3**	**41**	**44**

Agronomy	**Crop management**	**Production technology of pulses**	**29/12/2017**	**1**	**KVK**	**Farmer & Farm women**				**12**	**19**	**31**	**12**	**19**	**31**
Fishery Science	Integrated Farming System	Capacity building on Integrated fish farming and On farm feed formulation for fish	25/07/2017	1	KVK	EP	-	-	-	10	6	16	10	6	16
Fishery Science	Fish processing and value addition	Skill based training on preparation of smoked fish using CoFiSKi	18/07/2018	1	KVK	Farmer & Farm Women	-	-	-	-	30	30	-	30	30

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

Discipline	Area of trainin	Title of the training	Date (From	Duration in	Venue	Please specify Beneficiary group (Farmer & Farm women/ RY/ EP and	General participants	SC/ST	Grand Total

	g	programme	– to)	days		NGO Personnel)	M	F	T	M	F	T	M	F	T
Animal Science	Feed and Fodder	Fodder production technology	11/07 2017	1	Rukmo	Farmer & Farm Women	-	-	-	-	8	8	-	8	8
Animal Science	Meat producti on	Care and management of piggery	25/09/ 2017	1	Rukmo	Farmer & Farm Women	-	-	-	7	4	11	7	4	11
Animal Science	Meat producti on	On farm feed formulation for piggery	11/10/ 2017	1	Chidu	Farmer & Farm Women	-	-	-	3	13	16	3	13	16
Animal Science	Poultry Manage ment	Backyard poultry farming	24/10/ 2017	1	Koronu	Farmer & Farm Women	-	-	-	-	14	14	-	14	14
Animal Science	Poultry Manage ment	Backyard poultry farming	5/1/20 18	1	Denlo	Farmer & Farm Women	-	-	-	1	19	20	1	19	20
Animal Science	Feed and fodder manage ment	Urea molasses treatment of paddy straw	16/03/ 2018	1	Jia	Farmer & Farm Women	-	-	-	2	10	12	2	10	12
Horticulture	Produc tion and Manag ement Techn	Organic Vegetable Production & its Management	11/10/ 2017	1	Kebali	Farmer & Farm Women				7	11	18	7	11	18

	ology														
Horticulture	Production and Management Technology	Package and practices for Organic Vegetable cultivation & its Management	15/10/2017	1	Koronu	Farm Women				-	12	12		12	12
Horticulture	Production and Management Technology	Capacity building programme on Scientific cultivation practices of Cauliflower	23/10/2017	1	Koronu	Farm Women				-	12	12	-	12	12
Horticulture	Nutrient Management in Organic Farming	Integrated Nutrient Management in Organic Farming for Horticultural Crops	5/01/2018	1	Denlo	RY				1	19	20	1	19	20
Horticulture	INM in Horticulture	Integrated Nutrient Management in Organic	16/03/2018	1	Jia	FW				2	10	12	2	10	12

	Crops	Farming for Horticultural Crops													
Plant Protection	1.IPM	Pest and disease management in Groundnut.	12/10/ 2017	1	Bolung	F&FW				6	5	11	6	5	11
	2.IPM	Management of fruit flies in orange orchard by using traps.								5	7	12	5	7	12
	3.Bioc ontrol	Biological control of pest and diseases in orange.	17/10/ 2017	1	Samak	F&FW				6	4	10	6	4	10
	4.Bioc ontrol	Biological control of pest and diseases in Ginger	18/10/ 2017	1	samak	F&FW				6	4	10	6	4	10

			16/03/2018	1	Parbuk	F&FW				22	14	36	22	14	36
Soil Science	Soil health management	Soil fertility management practices	27/9/17	1	koronu	Farm women					25	25		25	25
Soil Science	Soil and Water testing	Soil and Water testing	2/11/2017	1	Yibuk	Farmers				6	-	6	6	-	6
Soil Science	Soil health management	Soil and Water testing	1/9/2017	1	Horupahar	Farmers				24	-	24	24	-	24

Soil Science	Soil health management	Soil and Water testing	10/1/2018		Jia	Farmers and Farm Women				19	42	61	42	19	61
Soil Science	Soil health management	Soil and Water testing	11/1/2018		Denlo	Farmers and Farm Women					11	11		11	11
Soil Science	Soil health management	Soil and Water testing	6/10/2017		Rukmo	Farmers and Farm Women				8	4	12	8	4	12
Agronomy	**Production of organic inputs**	**Vermicomposting**	**15/10/2017**	**1**	**koronu**	**Farmer & Farm women& RY**				**1**	**12**	**13**	**1**	**12**	**13**
Agronomy	**Drudgery reduction**	**Demonstration on women friendly tools wheel hoe ,rake & paddy seed row seeder,**	**14/6/2017**	**1**	**Kebali**	**Farmer & Farm women**				**5**	**10**	**15**	**5**	**10**	**15**

Agronomy	**Production of organic inputs**	**Vermicomposting**	**4/9/2017**	**1**	**Simari**	**Farmer & Farm women**				**5**	**6**	**11**	**5**	**6**	**11**
Agronomy	**Production of organic inputs**	**Composting**	**8/8/2017**	**1**	**Bolung**	**Farmer & Farm women**				**10**	**2**	**12**	**10**	**2**	**12**
Agronomy	**Crop management**	**Scientific cultivation of groundnut**	**21/8/2017**	**1**	**Balek**	**Farmer & Farm women**				**6**	**4**	**10**	**6**	**4**	**10**
Agronomy	**Crop management**	**Scientific cultivation of groundnut**	**21/8/2017**	**1**	**Horupahar**	**Farmer & Farm women**				**6**	**8**	**14**	**6**	**8**	**14**
Agronomy	**Crop management**	**Scientific cultivation of groundnut**	**18/8/2017**	**1**	**Bolung**	**Farmer & Farm women**				**5**	**5**	**10**	**5**	**5**	**10**
Agronomy	**Production of**	**Composting**	**17/10/2017** **10/1/**	**3**	**Bolung** **Jia**	**Farmer & Farm women**				**10** **10**	**2** **15**	**12** **25**	**10** **10**	**2** **15**	**12** **10**

	organic inputs		**2018 27/2 2018**		**Parbuk**					**30**	**16**	**46**	**30**	**16**	**46**
Agronomy	**Production of organic inputs**	**Vermicomposting**	**26/3/2018**	**1**	**New Abali**	**Farmer & Farm women/RY**				**8**	**2**	**10**	**8**	**2**	**10**
Fishery Science	Composite fish culture	Composite fish culture under semi-intensive system	05/07/2017	1	KVK	Farmer & Farm Women	-	-	-	18	1	19	18	1	19
Fishery Science	Integrated Fish farming	Integrated fish farming (fish-duck)	10/07/2017	1	KVK	Farmer & Farm Women	-	-	-	20	8	28	20	8	28
Fishery Science	Carp seed rearing	Carp seed rearing and rearing pond management	19/07/2017	1	KVK	RY				12	-	12	12	-	12

Fishery science	Pond manuring	Natural food production in fish farming	22/08/2017	1	Bolung	Farmer & Farm Women				15	-	15	15	-	15
Fishery Science	Fish Pond management	Prestock- and post stock management of fish pond	21/11/2017	1	Bolung	Farmer& farm women	-	-	-	25	8	33	25	8	33
Fishery Science	Fish Pond management	Lime and Fertiliser Application in fish ponds	22/11/2017	1	Bolung	Farmer & Farm Women	-	-	-	25	8	33	25	8	33
Fishery science	Carp seed rearing	Carp seed rearing and rearing pond management	23/11/2017	1	Bolung	Farmer & Farm Women				20	-	20	20	-	20

(D) Vocational training programmes for Rural Youth : Not Applicable

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

*training title should specify the major technology /skill transferred

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

On/ Off/ Vocational	Beneficiary group (F/ FW/ RY/ EP)	Date (From-To)	Duration (days)	Discipline	Area of training	Title	No. of Participants									Sponsoring Agency	Amount of fund received (Rs.)
							General			SC/ST			Total				
							M	F	T	M	F	T	M	F	T		
On	RY	18/07/2018	1	Animal Science	Meat Production	Rabbit for meat	-	-	-	-	15	15	-	15	15	ICDS	Expenditure borne by organization

On	F & FW	30/01/2018-31/01/2018	1	Horticulture	Production and Management	Production Technology of Turmeric & Ginger	-	-	-	20	60	80	20	60	80	MIDH	Expenditure borne by organisation
On	F & FW	30/11/2017	1	Horticulture	Organic Ginger Production & Management	Quality Improvement Programme on Ginger	-	-	-	3	41	44	3	41	44	Spices Board India	Expenditure borne by organisation

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

Sl. No.	Extension Activity	Topic	Date and duration	No. of activities	Participants											
					General (1)			SC/ST (2)			Extension Officials (3)			Grand Total (1+2)		
					M	F	T	M	F	T	M	F	T	M	F	T
1.	Advisory services	Agriculture &Allied	April-16 to March-17	209	-	-	-	179	56	235	-	-	-	179	56	235
2.	Diagnostic visit			61	-	-	-	52	17	69	-	-	-	52	17	69
3.	Field day															
4.	Group Discussion			3	-	-	-	11	6	17	-	-	-	11	6	17
5.	Kishan Gosthi															

	Kishan Mela			1	-	-	-	4	31	35	-	-	-	4	31	35
6.	Film show			8	-	-	-	154	192	346	-	-	-	154	192	346
7.	SHG formation															
8.	Exhibition			3	-	-	-	1140	610	1750	-	-	-	1140	610	1750
9.	Scientists visit to farmers fields			76	-	-	-	73	32	105	-	-	-	73	32	105
10.	Plant/ Animal Health camp															
11.	Farm science club															
12.	Ex-trainee Sammelan															
13.	Farmers seminar/ workshop															
14.	Method demonstration	Agriculture &Allied		20				146	95	241	-	-	-	146	95	241
15.	Celebration of important days	-	-	5	-	-	-	1154	618	1772	-	-	-	1154	618	1772
16.	Exposure visits	-	-	2	-	-	-	15	3	18	-	-	-	15	3	18
17.	Electronic media (CD/DVD)															
18.	Extension literature															
19.	Newspaper coverage			10												
20.	Popular articles															
21.	Radio talk															
22.	TV talk															
23.	Training manual															
24.	Soil health camp			11	-	-	-	107	114	124	-	-		107	114	124

25.	Awareness camp	Soil sampling collection		6				32	48	80				32	48	80
26.	Lecture delivered as resource person			26	-	-	-	214	247	461	3	32	35	217	279	496
27.	PRA	socio-economic impacts of climate change		4				20	35	55				20	35	55
28.	Farmer-Scientist interaction		17th March 2018	1	-	-	-	-	35	35	-	-	-	-	35	35
29.	Soil test campaign			6				32	48	80				32	48	80
30.	Mahila Mandal Convener meet															
31.	Any other Farmers visit to kvk			97				77	20	97	-		-	77	20	97
32.	Group meetings			**4**				10	30	40	-	-	-	10	30	40
33.	**Critical Input supply**	**Mineral mixture, Vegetable seeds, Shed Nets, Vermibag, Micronutrients and Farmers friendly Agriculture tools etc.**		**30**				105	146	251		-	-	105	146	251
	Grand Total			**583**												**5846**

3.5 Production and supply of Technological products during 2017-18

A. SEED MATERIALS

Major group/class	Crop	Variety	Quantity (qt)	Value (Rs.)	Number of recipient/ beneficiaries		
					General	SC/ST	Total
CEREALS							
OILSEEDS	Groundnut	ICGS-76	6.3 tons			13	13
VEGETABLES	Seasonal Vegetables	HYV	100.34 tons			159	159
	Saplings	HYV	5000 Seedlings			5	5
PULSES	Lentil	IPL-316F/S	1.02tonns	-	-	5	5
	Arhar	Type 7	1.50 tons			5	5
FLOWER CROPS							
OTHERS (Specify)							

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

Sl. No.	Major group/class	Quantity (ton.)	Value (Rs.)	Number of recipient/ beneficiaries		
				General	SC/ST	Total
1	CEREALS					
2	OILSEEDS	6.3 tonnes			13	13
3	PULSES	2.52 tonnes			**10**	**10**
4	VEGETABLES	100.34 tonnes			164	164
5	FLOWER CROPS					
6	OTHERS (Spices)	**9 tonnes**			**3**	**3**
TOTAL		**118.16 ton**			**190**	**190**

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

Major group/class	Crop	Variety	Numbers (In Lakh)	Value (Rs.)	Number of recipient beneficiaries		
					General	SC/ST	Total
Fruits	**Banana**	**Tissue Culture**	**1020 Nos.**			**20**	**20**
Spices	**Ginger**	**Nadia**	**9 tons**			**3**	**3**

Ornamental Plants							
VEGETABLES	Seasonal	HYV	5000 Seedlings			5	5
Forest Spp.							
Plantation crops							
Medicinal plants							
OTHERS (Forage Crops)	Forage crops	Hybrid Napier, Guinea, Setaria	20000 root slips and stem cuts		-	40	40

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

Sl. No.	Major group/class	Numbers (In Lakh)	Value (Rs.)	Number of recipient beneficiaries		
				General	SC/ST	Total
1	Fruits	1020 Nos.			20	20
2	Spices					
3	Ornamental Plants					
4	VEGETABLES	5000 Seedlings			5	5
5	Forest Spp.					
6	Medicinal plants					
7	Plantation crops					
8	OTHERS (Forage Crops)	20000 root slips and stem cuts	-	-	40	40
TOTAL		26020 Nos.			65	65

C. Production of Bio-Products during 2017-18

Major group/class	Product Name	Species	Quantity		Value (Rs.)	Number of Recipient /beneficiaries		
			No	(qt)		General	SC/ST	Total
BIOAGENTS	VAM			100kg	-		-	-

BIOFERTILIZERS	**Azolla**	***Azolla Caroliniana***		**120kg**	**1200**		**120**	**120**
BIO PESTICIDES								
Total				**148 kg**	**1200**		**120**	**120**

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

Sl. No.	Product Name	Species	Quantity		Value (Rs.)	Number of Recipient beneficiaries		Total number of Recipient beneficiaries
			Nos	(kg)		General	SC/ST	
1	BIOAGENTS	**VAM**		**100kg**				
2	BIO FERTILIZERS	***Azolla Caroliniana***		**120kg**	**1200**		**120**	**120**
3	BIO PESTICIDE							
	TOTAL			220 kg	1200		120	120

D. Production of livestock during 2017-18:

Sl. No.	Type of livestock	Breed	Quantity		Value (Rs.)	Number of Recipient beneficiaries		
			(Nos)	Kgs		General	SC/ST	Total
1	**Cattle/ Dairy**							
2	**Goat**							
3	**Piggery**							
4	**Poultry**	Vanaraja	50	97.5	17550	-	5	5
5	**Fisheries**							
6	**Others (**Fodder)	Hybrid Napier, Guinea, Congo Signal and Set aria	20000	-	-	-	40	40

D1. SUMMARY of production of livestock during 2017-18:

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

2	SHEEP & GOAT							
3	**Poultry**	Vanaraja	50	97.5	17550	-	5	5
4.	PIGGERY							
5	FISHERIES							
6	OTHERS (Pl. specify)	Hybrid Napier, Congo Signal and Set aria	20000	-	-	-	40	40
	TOTAL	-						

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

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

(B) Articles/ Literature developed/published

Item	Title /and Name of Journal	Authors name	Number of copies
Research papers			
1.	Jhum cultivation and its consequences on forest and environment in Eastern Himalayan tract of India: a participatory assessmen / Range management and Agroforestry	S.Paul,A.K.Tripathi,R.Roy Burman,M.Panggam, S.K.Ray, N.Kalita, R.Vanialduati &A.K Singh	
2.	Compandium of Naional Seminer on " Transforming Agriculture to doubling of farmers Income"	D. Hazarika, V.K. Pandey, T.J. Ramesha and J. Saikia	
Training manuals			

Technical Report			
Book/ Book Chapter			
Popular articles			
Technical bulletins			
Extension bulletins			
Newsletter			
Conference/ workshop proceedings			
Leaflets/folders			
e-publications			
Any other (Pl. specify)			
TOTAL			

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

(C) Details of Electronic Media Produced: Not Applicable

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

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

Improved method of Fish Smoking(COFISKI) brings wealth to tribal rural women

Situation Analysis/Problem statement

Mrs. Oimang lego is a farm woman from Jia-1 village of lower dibang valley district. she is also the president of SHG named LEDUM consisting of 10 members. Also cultivate commercial crops such as paddy, maize, ginger, mustard and sesame. The income generation from these crops are poor due to several problems like pest and diseases, use of traditional varieties, lack of storage facilities and poor marketing net works. Hence she sought fisheries sector as an financial support programme as immense demand is there in Lower Dibang Valley District due to dominant tribal population ,whose food habbit is non vegetarian in nature. Fish production in the district is very poor due to non adoption of scientific farming practices.

At present there is wide gap in production and supply besides having immense potential resources in the form of ponds, lakes and rivers(production: 200kgs/ha).These fisheries resources are untapped due to lack of knowledge on scientific practices and ineffective adoption.

But this demand at present is met through importing of fish from assam,west Bengal and Andhra Pradhesh.The tribal people consume fish in the form of boiled and smoked.Smoked fish is delicacy among tribal people, fishes (mahseer,trout and minor carps) from natural water bodies like rivers are preferred and it is prepared employing conventional method of placing fish in hanging wire meshed platform above fire earth place

The fish processed under this method is black in colour exhibiting poor quality product containing health hazardous chemicals(cancer causing elements) with poor keeping quality. Hence there is a need for availability of quality produce in the local market

Plan,implement and support

Dr.T.J.Ramesha ,Senior Scientist and Head,KVK,Lower Dibang Valley accompanied Mrs.Oimang Lego and other progressive farmers for participation in the workshop entitled ***North East regional workshop on technology transfer programme in NEH States held at ICAR,NRC on pig, Ranipool, Guwahati***,The objective of the programme was to facilitate face to face interaction between researchers,policy makers,fisheries department officials and other stakeholders involved in fisheries. She

interacted with Dr.T.K.Srinivas Gopal,Director,CIFT,Cochin and other scientists namely Dr.C.N.Ravishankar,the the Head of processing division ,Dr.Leela Edwin,Head,Fishing Gear Division and Dr.M.M.Prasad,Nodal Officer for TSP and NEH programmes for initiating entrepreneurship based activities for income generation in fish processing sector and self sustenance of the group.

Addition to this Mrs.Oimang Lego and her group members also actively participated in the skill based training programme entitled ***value addition for tribal farm women and fish farmers (from 1-3.11.2012***) organised by kvk under the sponsorship from CIFT,cochin . The training was imparted by Dr.P.K.Vijayan,Principal Scientist,CIFT and his team on preparation of value added products(fish cutlet, fish kabab.fish roll, fish pickle).During the training programme period itself she on trial basis products and used for domestic purpose.

KVK established COFISKI at its office premises during the year and has A total of 6 skill based training programme (8.3.2013 to 1.7. 2017) has been organised by KVK,Lower Dibang Valley benefitting 150 farmers/farmwomen/rural youths of the district and nearby district-Dibang Valley.

Another 3 days sponsored training cum demonstration programme from CIFT,Vizhag ,Andrapradesh ***entitled value added products and usage of sustainable fishing gear technologies organised from March 17-19 at Iduli and Jia villages***.Later started preparing ethnic value added products like bamboo shoot,pickle from vegetables and fish pickles on commercial basis using local plastic and containers to sell in local weekly market and exhibitions organised during important occasions (Republic day, Independence day).

Fig: Deputy Commissioner &Honorable MP visit to Community Fish Smoking Kiln Unit established at KVK

The locally available plastic container was used as packaging material for sale of product,due to this sale was very poor and income returns was very poor.Active SHGS of the district approached Dr.T.J.Ramesha,Senior Scientist and Head,KVK and expressed about the problems faced in marketing of their valued added products prepared from locally available fishes and other

commodities(fruits,vegetables etc.,) .

Realising this problem,KVK procured standing pouches from Dr.L.N.Murthy, scientist incharge of Regional office of Central Institute of Fisheries Technology, Cochin and distributed at free of

cost to active Farmer Club s established at Porbuk and Mayu villages and also to active SHGs established at Jia-1(LEDUM) and Midland (Agam Sirum) villages, with this attractive pouches more customers were attracted and they could earn more income.

Also ,KVK established community fish smoking kiln (COFISKI), the improved method of fish smoking unit at Mrs.Oimang Lego house for processing of smoked fish from her group and also from other SHGs of village. The unit is monitored by LEDUM SHG of Mrs.Oimang Lego,Jia village.

The member of LEDUM SHG put up a stall during Republic Day celebration on 26.1.2017 and displayed COFISKI smoked fish at their stall. Mr.Mukut Mithi,Honorable MP (Rajya Sabha),Mr.Deepak Sindhe,Deputy Commissioner,Mr.Mutchu Mithi,Honorable MLA-43-Roing Assembly Constituency,PRI members,farmers, farm women,rural youths and public visited the stall. Mr.Mukut Mithi,Honorable MP (Rajya **Sabha) lauded KVK,Lower Dibang Valley for very good initiative and also suggested to develop protype/manufacture COFISKI in locality for wider adoption of the technology.**

Output

Fig: Consumer purchasing smoked fish

Mrs.Oimang Lego and her group members for the first time smoke processed 30 kgs of small fishes (**In Adi Tribe it is called as Delungo Pung and its Scientific name is *Garra gotyla gotyla*)** through COFISKI established at their village. This method of smoking consumed less firewood(10 kgs and time (4 hrs).During June -2017 month she again smoked 3 kgs of fish and sold in local market. Mrs.Oimang Lego earned Rs.500 for smoke processing of 15 kgs of local fish brought from Mr.Starson Saring,Zilla Panchayat Member. Porbuk village.

Outcome

The quality of fish was enhanced with attractive golden yellow colour with better keeping quality and free from health hazardous chemicals (cancer causing element).This attractive colour of the product attracted the consumers and product was sold like hot cake in the local market situated at roing town and she could earn Rs.6000(sale price is 300 rupees /kg of fish) by spending Rs.3000 towards purchase

of fish,firewoods,plastic materials and labor wages .Big fish smoked traditionally is sold in bundles without packaging material and small fishes are packed in local plastic and sold in the local market and the problem with this product is black in colour with poor keeping quality .

Impact

The realisation of higher profit from fish farming changed his life style. Now for transportation purpose, he has switched over to four wheelers from two wheelers. He has put his small female child in good school established at town. Also he has renovated his old house situated at town.He has established COFISKI at his farm house for processing of his farm produced fish and would like to sell smoked fish in the market besides processing of fishes of fisher folks of the village. After observing success other neighbouring village fisher folks are also demanding for coracles as it is light in weight, easy to operate and having more life span.

Fig: selling smoked fish to consumer

The chairperson of the Jia village, farmer clubs from jia and bolung villages and Mr.Starson Saring,Zilla Panchayat Member. Porbuk village

are the interested farmers repeatedly

are also demanding as they have received information that a unit has been established at nearby village-Jia-1.

Other beneficiaries namely Mr.Hapi Mena-Anchal Samithi Member, keraa-aati village(adopted village under Saansad Aadarsh Gram Yojana by honourable MP-Mr.Mukut Mithi,43-Roing assembly constituency)and Mr.Okili Linggi-Anchal Samithi Member and active fisherfolk ,rukmo village established COFISKI in their respective villages for processing of fish Mrs.Oimang Lego has a plan to take up this entrepreneur on commercial scale and make supply to different districts of Arunachal Pradesh.To promote this activity KVK has procured good plastic packaging material along with sealing machine from CIFT ,Cochin and provided to the group.

.

Feed Back of consumers toward smoked fish(using improved method)

- Better quality and appearance of the product is good
- Attractive price and sold in local market like hot cakes
- No gastric and other stomach ailments

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

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	Rice	During Milking stage, use rotten crab in plastic panel trap @ 100 traps/ ha which attracts and controls (60%) Gundhi bugs effectively.	Gundhi Bug control
2	Grains	1) Storage Godom of 3ft hight and covered with the plate planks to prevent climbing 2) MRA are grinds into paste and mixed with the edible items. These are placed on the run way. The MRA are Colocasia type found in the ice covered areas. 3) Bow and Arrows 4) Grepa (Triangular shaped placed in the log in river/ streams. When rat pass it traps down. 5) Plate stone trap (Drapa).	Rodent menace (Martin Meme)
3	Pig	Smearing of whole body with lard, kerosene oil and ointment from mixture from garlic and mustard oil.	Control of Ecto parasitic infection (leech)
4	Ginger	1) Band placement of concentrated ashes without informing family members. 2) Spring onion locally called Aero Elompra are grind into paste and oils are extracted filtered & sprayed. 3) Collection and destruction of infected part.	Control of Ginger Rhizome rot
5	Grains	Sun dried before the full moon in the bamboo basket covered with *Ko Patta*	Storage moths Khapra beetle (Martin Meme)

		(local leaves).	
6	Grains	6) Storage Godoun of 3ft hight and covered with the plate planks to prevent climbing 7) MRA are grinds into paste and mixed with the edible items. These are placed on the run way. The MRA are Colocasia type found in the ice covered areas. 8) Bow and Arrows 9) Grepa (Triangular shaped placed in the log in river/ streams. When rat pass it traps down. 10) Plate stone trap (Drapa).	Rodent menace (Martin Meme)
7	All Agricultural crops	**Liquid Manure Preparation** 1) Any green plants are chopped into 2-4cm pieces mixed with fresh cow dung and water. It is let decomposed in the tank. Ready for use within 15-20 days 2) For spraying purpose farm, mustard cake or other wastes are let decomposed and filtered and required concentration is prepared for spray. This give best result.	Pest and disease control
8	All Agricultural crops	**Liquid Manure Preparation** 1) Extracting oils of any hot and highly pungent plants like citronella, Garlic, Onion, Ginger, Chlli, Neem leaves, Tobacco etc and spraying on the foliar part of the plants. 2) Well decompose pseudostem banana are mixed with the cow urine in 200 litres tank capacity. Within 15-20 days it is ready for application in the pest and disease infested field.	Pest and disease control
9	Rice	During melting stage, use rotten crab in plastic panel trap @ 100 traps/ ha which attracts and controls (60%) Gundhi bugs effectively.	Gundhi Bug control
10	Pig	**Feeding Pig through Bamboo Feeder** Made of local Bamboo- TAPUBA, 10-15 yrs old, felled down from own field by	Feeding Pigs

		cut opening the upper portion of the segmented stem is being used as pig feeder by the owner	
11	**Paddy**	**Use of dried fern leaves in granaries**	**For storage pests management**
12	**Paddy**	**In paddy field use of farmers put rinds of pumelo in standing water**	**For management of Caseworm infestation**
13	**Paddy**	**Use of dead frog and crop in paddy field**	**For management of gandhibug infestation**

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

- Identification of courses for farmers/farm women

Need based training courses are identified on the basis of farmers demand on specific subjects matter.

- Rural Youth

Need based training courses are identified on the basis of scopes and income generating activities in the area and after interacting with youth organizations, SHGs, NGOs and farmer organizations

- Extension personnel

Need based training courses are identified after interacting with the extension functionaries of agriculture and allied departments.

3.11 Field activities

i. Number of villages adopted: 5

ii. No. of farm families selected: 500

iii. No. of survey/PRA conducted:8

3.12. Activities of Soil and Water Testing

Status of establishment of Lab : Established

1. Year of establishment : 2016
2. List of equipments purchased with amount :

Sl. No	Name of the Equipment			Qty.	Cost
	S&WT lab	Mini lab/ Mridaparikshak	Manufacturer		
1		**Mridaparikshak(Old Version)**	Nagarjuna Agrochemica PVT.Ltd.,Hyderabad	1	95000
2	-	**Mridaparikshak(New Version)**	Nagarjuna Agrochemica PVT.Ltd.,Hyderabad	1	90300
Total				2	**185300**

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

Details	No. of Samples analysed	No. of Farmers	No. of Villages	Amount (In Rupees) realized
Soil Samples	181	1200	11	
Water Samples				
Plant Samples				
Petiole Samples				
Total				

1. Details of Soil Health Cards (SHCs) (2017-18): World Soil Day Organised

- **a. No. of SHCs prepared: 200**
- **b. No. of farmers to whom SHCs were distributed: 181**
- **c. Name of the Major and Minor nutrients analysed: NPK, Boron, Copper, Iron, Sulphur, Mn, Zn**
- **d. No. of villages covered: 11**
- **e. Soil health card based nutrient management in different crops (pl. submit in brief in separate page)**

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

Message type	Crop		Livestock		Weather		Marketing		Awareness		Other Ent.		Total	
	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary
Text only	7	1144	6	1122					5	963	2	361	20	43590
Voice only														
Voice and Text both														
Total	7	1144	6	1122					5	963	2	361	20	43590

3.14 Contingency planning for 2017-18

a. Crop based Contingency planning

Contingency (Drought/ Flood/ Cyclone/ Any other please specify)	Proposed Measure	Proposed Area (In ha.) to be covered	Number of beneficiaries proposed to be covered		
			General	SC/ST	Total
	Introduction of new variety or crop				
Drought	Groundnut(ICGS-76)				
	Introduction of Resource Conservation Technologies				
	Introduction of Resource Conservation Technologies				
	Zero tillage in field crops	0.5		2	2
Flood	Mulching Technology				

	Distribution of seeds and planting materials				
	Seasonal vegetables (35 kgs)				
	Introduction of new variety or crop				
	Introduction of submergence toralent varieties like Jalashree and short duration rice varieties like Luit etc	**3**		**5**	**5**
	Distribution of seeds and planting materials Seed Production	1		2	2

a. Livestock based Contingency planning

Contingency (Drought/ Flood/ Cyclone/ Any other please specify)	**Number of birds/ animals to be distributed**	**No. of programmes to be undertaken**	**No. of camps to be organized**	**Proposed number of animals/ birds to be covered through camps**	**Number of beneficiaries proposed to be covered**		
					General	**SC/ST**	**Total**
Disease outbreak	1000 birds	5	5	500		50	50

4.0. IMPACT

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

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Fish farming (using fish Coracle for feed management))	**60**	**8.2**	**60000/unit**	**110000/unit**
Backyard Poultry Farming (Vanaraja/ Kamrupa bird)	115	76	2000/10 birds	3000/10 birds
Vermicompost	25	20	-	30000/Unit/Year
Mushroom Production	220	80	-	3000/Unit
IPM In mandarin orange	79	2	-	80% pest controlled (Trunk borer)
High yielding fodder production	52	27	-	10800/cow/year(10% increased in milk yield)
Azolla	250	25	-	700/2 sq mt area
Vegetable Production	210	60	-	28000/25 sq. m/yr
Value addition	110	35	-	2350/10 kg final product

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

4.2. Cases of large scale adoption : Not Applicable

(Please furnish detailed information for each case)

4.3 Details of impact analysis of KVK activities carried out during the reporting period

5.0. LINKAGES ESTABLISHED

5.1 Functional linkage with different organizations

Name of organization	Nature of linkage
1.CH&F , CAU Pasighat East Siang Arunachal Pradesh	Technical Support , Critical Input Supply, Training.
2.NABARD, Itanagar	Financial Assistance
3.Directorate of Agriculture, Naharlagun	Administrative Support and Farm Critical Input Supply.
4.AAU Jorhat	Training and Extension
5.NFDB, Hyderabad	Joint Implementation
6.Developmental Departments	Joint Implementation
7. Essomi foundation Trust ,Roing	Joint Implementation
8.IIHR,Bangalore	Technical support and Farm Critical Input Supply.
9. CAU ,Imphal	Technical support and Farm Critical Input Supply.
10.National Council of Rural Institutes, Hyderabad	Joint Implementation
11.CIFT,Cochin	Contribution received for infrastructural development
12.IIVR, Varanasi	Technical Support and Farm Critical Input Supply
13.ICAR,Basar	Joint Implementation
14.ICAR,Barapani	Technical support and Farm Critical Input Supply
15. UAS, Bangalore	Technical Support and Farm Critical Input Supply.

16. DGR, Junagadh	Joint implementation
17.CIPHET, Ludhiana	Joint implementation
18.CIAE, Bhopal	Joint implementation
19.Jindal Power Limited	Conducting Training and Demonstration
20.DRDA, Roing	Conducting Training and Demonstration
21.District Administration	Joint implementation
22.ICAR-National Research Centre on Banana,Trichy,Tamil Nadu	Joint Implementation
23.National Bureau of Plant Genetic Research,New Delhi	Joint Diagnostic Survey

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

5.2 List special programmes undertaken by the KVK, which have been financed by State Govt./Other Agencies during 2017-18

Name of the scheme	Activity	Date/ Month of initiation	Funding agency	Amount (Rs.)
Training programme	**Quarlity improvement training programme on ginger for women**	**30/11/2017**	**Spice board of India**	**Expenditure was incurred by sponsoring agency**
Skilled based training programme	**Feed and feeding strategies in aquaculture for tribal fisher folks**	**6/10/2017**	**ICAR-CIFE**	**Expenditure was incurred by sponsoring agency**

Awarness programme	**Awarness programme for farmers club**	**3/10/2017**	**NABARD**	**Expenditure was incurred by sponsoring agency**
HRD programme	**Capacity building programme in fisheries**	**July, 2017**	**NFDB, Hyderabad**	**Expenditure was incurred by sponsoring agency**
Skilled based training programme	**Production technology of Oyster Mushroom**	**18/07/2017**	**ICDS**	**Expenditure was incurred by sponsoring agency**

5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district Yes

Sl. No.	**Programme**	**Nature of linkage**	**Remarks**
1	**Farm Field School on Integrated Farming System**	**Financial Assistance**	Different components like vermicomposting unit,net house,duckkery fishery,mushroom has been maintained

5.4 Give details of programmes implemented under National Horticultural Mission: Not Applicable

S. No.	**Programme**	**Nature of linkage**	**Constraints if any**

5.5 Nature of linkage with National Fisheries Development Board

S. No.	Programme	Nature of linkage	Remarks

6. PERFORMANCE OF INFRASTRUCTURE IN KVK DURING 2017-18

6.1 Performance of demonstration units (other than instructional farm)

Sl. No.	Demo Unit	Year of estd.	Area	Details of production			Amount (Rs.)		Remarks
				Variety	Produce	Qty.	Cost of inputs	Gross income	
1	Azolla	2014	5 Sqmtr	*Azolla Caroliniana*	Inoculum	48 kg	-	-	Azolla innoculum provided to the farmer as training input
2	Polyhouse	2014	30 Sq mtr	Seasonable vegetable	Saplings	4000	-	-	Provided to the farmer as training input.
3	Fodder	2014	374 Sq.mtr	Hybrid Napier,Congo Signal,Setaria, Guinea	Root Slips and Cuttings	**20000 root slips and stem cuts**	-	-	Distributed to 40 farmers

4	Poultry		80 Sq.mtr	Vanaraja	Meat and Egg	**50 Nos.**	10000	-	Distributed to 5 farmers

6.2 Performance of instructional farm (Crops) including seed production

Name of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.	Cost of inputs	Gross income	
Cereals									
Rice									
Wheat									
Maize									
Any other									
Pulses									
Green gram									
Black gram									
Arhar									
Lentil	15/11/2017	14/02/2018	1	IPL-316F/S	seed	10.2 qt			
Ay other									

Oilseeds									
Mustard									
Soy bean									
Groundnut									
Any other									
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.,)

Sl. No.	Name of the Product	Qty	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
1	Azolla	48 kg	NA	NA	Azolla innoculum provided to the farmer on free of cost.

6.4 Performance of instructional farm (livestock and fisheries production)

Sl.	Name	Details of production	Amount (Rs.)	Remarks

No	of the animal / bird / aquatics	Breed/ species	Type of Produce	Qty.	Cost of inputs	Gross income	
1	Poultry	Vnaraja	Meat	97.5 kg	10000	-	Distributed to farmers

6.5 Rainwater Harvesting: Unit is established at our KVK Farm

Training programmes conducted by using Rainwater Harvesting Demonstration Unit

Date	Title of the training course	Client (PF/RY/EF)	No. of Courses	No. of Participants including SC/ST			No. of SC/ST Participants		
				Male	Female	Total	Male	Female	Total
30/1/2018 to 31/1/2018	Production technology of Turmeric and Ginger	PF	1	36	44	80	36	44	80

6.6. Utilization of hostel facilities (Month-Wise) during 2017-18:Not Applicable

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	Naharlagun	11362151457
With KVK	State Bank of India	Roing.	11362151457
Revolving Fund	State Bank of India	Roing.	11362158918

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

Item	Released by ICAR/ZPD		Expenditure		Unspent balance as on 31st March, 2015
	Year	Year	Year	Year	
Inputs					
Extension activities					

TA/DA/POL etc.					
TOTAL					

7.3 Utilization of KVK funds during the year 2017 -18

S. No.	Particulars	Sanctioned (in Lakh)	Released (in Lakh)	Expenditure (in Lakh)
A. Recurring Contingencies				
1	**Pay & Allowances**	1100000	1100000	10850311
2	**Traveling allowances**	250000	250000	220752
3	**Contingencies**	1350000	1277889	1271652
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)			
B	POL, repair of vehicles, tractor and equipments			
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)		12600000	12527889	12342715
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		21531.58	21531.58	Nil
GRAND TOTAL (A+B+C)		**12621531.58**	**12549420.58**	**12342715**

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

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year
April 2013 to March 2014	114944		800000	34,944/-

April 2014 to March 2015	34,944/-		**Nil**	34,944/-
April 2015 to March 2016	34944	Nil	20,000	14,944/-
April 2016 to March 2017	14944	6587.58	-	21531.58
April 2017 to March 2018	21531.58	Nil	Nil	21531.58

Note: No KVK must leave this table blank

8.0 Please include information which has not been reflected above.

(Write in detail)

8.1 Constraints

(a) Administrative

- No water supply
- No proper electricity connection
- Inadequate staff quarters
- Condemned tractors (Need to be replaced)

- Generator
- Office furnitures
- Meteorological Research station

(b) Financial

- Unavailability of fund for farm development

(c) Technical

- Inadequate numbers of Computers/Laptop for Subject Matter Specialists
- Uncertainty in power supply affecting on time submission of *information*
- Motor bicycles for Subject Matter Specialists

(Signature)
Sr. Scientist cum Head

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