ANNUAL PROGRESS REPORT OF KVK,TAWANG FOR 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
	Office	FAX	
KRISHI VIGYAN KENDRA, CHANGBU VILLAGE, TAWANG, DISTRICT-TAWANG, P.) PIN 790 104	09485235364		kvktawang123@gmail.com

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

Address	Telephone		E mail
	Office	FAX	
DIRECTORATE OF AGRICULTURE, GOVT. OF ARUNACHAL PRADESH, NAHARALAGUN, DISTRICT-PAPUMPARE, P.) PIN 790 104	03602244252	03602244252	kvkosd@yahoo.co.in

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr.D.S.Chhonkar	-	09485235364	Chhonkards123@gmail.com

1.4. Year of sanction: 2008

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 (SC/ST/ OBC/ Others)
1	Senior Scientist and Head	Dr.D.S.Chhonkar	Senior scientist and head	Agronomy	37400-67000		26 .06. 2009	Temporary	Others
2	Subject Matter Specialist	Mr. C.K. Singh	SMS (Agronomy)	Agronomy	15600-39100	25840	10-12-08	Temporary	Others
3	Subject Matter Specialist	Ms. Lakshmipriya Borah	SMS(Plant Protection)	Entomology	15600-39100	25840	19-9-11	Temporary	OBC
4	Subject Matter Specialist	Ms. Danima Ering	SMS (Animal Scientce)	Animal Science	15600-39100	21000	24.04.2017	Temporary	ST
5	Subject Matter Specialist	Ms. Dorjee Yodon Thungon	SMS (Home Science)	Home Science	15600-39100	21000	27.04.2017	Temporary	ST

6	Programme Assistant	Ms. Lovin Mingki	P A (Soil Sc.)	Soil Sc.	9300-34800		12-02-13	Temporary	ST
7	Computer Programmer	Ms. K D. Komu	P. A.(Comp.)	PGDCA	9300-34800		25-11-08	Temporary	ST
8	Farm Manager	Mr.SonamTsering Khumu	Farm Manager	B.Sc (Agri)	9300-34800		05-02-13	Temporary	ST
9	Accountant / Superintendent	Mr. Koj Richo	Assistant	M.COM	9300-34800		02-12-08	Temporary	ST
10	Stenographer	Ms. J. Wangmo	Stenographer		5200-20400		24.06.09	Temporary	ST
11	Driver	Mr. Lham Dorjee	Driver		5200-20400		18-8-09	Temporary	ST
12	Driver	Mr. Tashi Dorjee	Driver		5200-20400		18-8-09	Temporary	ST
13	Supporting staff	Mr. Tashi Dawa	Chowkidar		4440-7400		18-8-09	Temporary	ST
14	Supporting staff	Ms. Tashi Pema	Peon		4440-7400		18-8-09	Temporary	ST
	Total	**14**							

1.6. a. Total land with KVK (in ha) :**7 .0 ha**

b. Total cultivable land with KVK (in ha): 6.929

c. Total cultivated land (in ha): NA

S. No.	**Item**	**Area (ha)**
1	Under Buildings (Administrative building+ Farmers' Hostel+ Staff Quarters)	0.055
2.	Under Demonstration Units	0.016
3.	Under Crops (Cereals, pulses, oilseeds etc.)	NA
4.	Under vegetables	NA
5.	Orchard/Agro-forestry	NA
6.	Others (specify)	NA

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		31 Dec. 2012	326.84 sq m	88.0 Lac		223.16	NA
2.	Farmers Hostel							
3.	Staff Quarters (6)							
4.	Demonstration Units (2)		31 Dec. 2012		12.0 Lac			
5	Fencing		31 Dec. 2012		15.0 Lac			

B) Vehicles

Type of vehicle	Regd. No.	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
TATA Sumo Victa	AR 03/1778	2010	4,95,669	44182 as on 30/04/14	Not in good condition
Tractor	-	2016	10,00,000	20 hrs	Running

C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Power Tiller	2010	2,03,000	Not running without implements
Fax Machine	2010	93,735	Running in good condition
Photocopier	2010	24,825	Running in good condition
LCD Projector	2010	99,788	Running in good condition
Digital Camera	2010	19,990	Running in good condition
Computer with accessories(Desk Top)	2009-10	45,063	Running in good condition
Computer(Lap Top)	2010	48,672	Running in good condition
Furniture	2010	2,00000	Running in good condition
Almiraha & Furniture	2011-12	200000	Running in good condition
Inverter	2013	23,000	Running in good condition

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

Sl.No	Date	Name & Designation of Participants	Salient Recommendation	Action taken on last recommendation
1	08.12.18	Dr. Prithviraj Chakravarty, Principal Scientist & acting Director ICAR, NRC-Yak, Dirang, West Kameng Bomdila	Chairperson Dr. P Chakravarty suggested for Bull exchange programme and AI technique for improving the breed and performance of the animals.	
2		Sri Tashi Dorjee, Executive (AIR)		
3		Mr. M. C. Adak, DFDO, Tawang	He requested to provide some technologies to rear and conserve the indigenous fish species. He also seeked for scientific and expert help from KVK for further work in his department.	
4		Mr. Tashi Nungnu, BM SBI Tawang		
5		Mr. K. B Kayastha, ADO, Tawang	He adviced to do some fermers friendly work beyond the mandated activities of KVK, if possible to get better output from the farmers keeping in view the topographical and weather condition of the region .	
6		Dr. Tsering Drema. I/C DVO, Tawang		
7		Sri Lham Norbu, P.O CDPO's office		
8		Tomding Tsewang,Farmer		
9		Toka Lama,Farmer		
10		Sri. Rinchin Norbu, Chairman LNCS		
11		Smti. Tsering Drema, ADI		
12		Smti. Chano Lowang, ADTH		
16		Dr D.S.Chhonkar, P.C,KVK,Tawang		

Proceeding of Scientific Advisory committee meeting of KVK, Tawang, 8th Dec 2017

The Scientific Advisory Committee Meeting of KVK, Tawang 2018-19 was conducted on dated 8th Dec 2017 at Zomkhang Hall, Tawang. The meeting was chaired by Dr Prithviraj Chakravarty, Principal Scientist and acting Director ICAR, NRC-Yak, Dirang, District West Kameng. Members of different line departments, NGO and farmers also participated in the meeting.

Outlining the themes and objectives of the SAC meeting, Dr. D. S. Chhonkar, Senior Scientist & Head, KVK, Tawang stated the mandated activities of KVK to transfer the technologies from lab to farm. Progress report of 2017-18 and Action plan 2018-19 of KVK, Tawang were presented by him before the members.

District Fisheries Development Officer, Mr M.C.Adak requested to provide some technologies to rear and conserve the indigeneous fish species. He seeked for scientific and expert help from KVK for future work in his dept. Shri. K.B Kayastha, ADO Tawang advised to do some farmers friendly work beyond the mandated activities of KVK, if possible to get better output from the farmers keeping in view the topographical and weather conditions of the region which is a bottleneck in most of the developmental works.

Chairperson Dr. P Chakravarty,in his speech problems faced in the region on yak/cattle viz, inbreeding in the herd using the same bull for breeding which adversely affects productive and reproductive performance of yak; feed/nutritional crises of the animals in winter causing almost 30% decrease in its body weight. He further suggested for bull exchange programme and AI technique in improving the breed and performance of the animals. He further desired that collaborative programmes with ICAR, NRC-Yak may be taken up for cattle and yak towards benefitting farmers for which the institute will extend its full support and cooperation.

(D. S. Chhonkar)
Member secretary, SAC, Meeting

(Prithviraj Chakravarty)
Chairperson, SAC Meeting

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+Animal Husbandry+Pisciculture+Forestry
2.	Agriculture+ Horticulture+Animal Husbandry+ Forestry

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

Sl. No	Agro-climatic Zone	Characteristics
	Eastern Himalayan Region (Zone II) Sub region-: Higher Himalayan region(Alpine) High altitudes mountainous belt from 6000 ft to 1100 ft (Temperate Alpine zone) Sub-Mountainous area.	Snow Covered Himalayan Peaks from 11,000 feet to 22,000 feet which mostly includes bare mountains and are mostly uninhabited. It contains plateau and narrow valley and is sparsely populated. Tropical to cool climate throughout the year. It ranges from 3000 ft to 6000 ft which covers valleys and slpoes. Sub-Tropical climate with hot humid summer and moderately cool climate.

2.3 Soil type/s

Sl. No	Soil type	Characteristics	Area in ha
	Sandy skeletal/loamy/fine loamy texture	Rocky and loamy skeletal with medium to deep depth.	7596

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

Sl. No	Crop	Area (ha)	Production (ton)	Productivity (Qtl /ha)
1.	Rice	760	11780	15.5
2.	Maize	695	6997	10.06
3.	Wheat	860	8991	10.45
4.	Finger Millet	1000	1000	10
5.	Burley	205	2134	10.41
6.	Buck Wheat	90	900	10
7.	Oil Seeds	155	1350	8.70
8	Pulses	152	1243	8.10
9.	Chilly	70	1540	22
10.	Garlic	15	375	25
11.	Ginger	26	650	25
12.	Turmeric	14	308	22
13.	Other Spices	08	84	10.5

2.5. Weather data

Month	Rainfall (mm)	Temperature ^{0} C		Relative Humidity (%)
		Maximum	Minimum	
October	3.30	22.52	4.53	80.19
November	0.41	17.48	0.13	80.13
December	Snowfall(4mm)	13.53	-1.87	80.61
January	Snowfall (6 mm)	17.24	-2.18	74.92
February	Snowfall (10 mm)	11.25	-2.89	71.56
March	3.21	11.78	2.31	80.15

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

Category	Population	Production	Productivity
Cattle			
Crossbred	**1211**	**--**	**--**
Indigenous	**10882**	**53900 ltrs milk,1395 qtls meat**	**1.5 lt/cow/day**
Buffalo	**7490**	**--**	**--**
Sheep			

Crossbred	**655**	**--**	**--**
Indigenous	**6760**	**1500 kg meat**	**4 kg/sheep**
Goats	**2389**	**5328 kg meat**	**3.5 kg/goat**
Pigs	**1015**		
Crossbred	**149**	**--**	**--**
Indigenous	**866**	**6000kg**	**6 kg/pig**
Rabbits	**--**	**--**	**--**
Poultry			
Hens	**947**		
Desi	**3320**	**14409kg**	**1.25 kg/hen**
Improved		**--**	**--**
Ducks	**133**	**--**	**--**
Turkey and others	**8**	**--**	**--**

Category	**Area**	**Production**	**Productivity**
Fish	**140.85 ha**	**21517 kg**	**153 kg/ha**
Marine	**--**	**--**	**--**
Inland	**--**	**--**	**--**
Prawn	**--**	**--**	**--**

Scampi	--	--	--
Shrimp	--	--	--

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.	Tawang	Kitpi	Kitpi, Shernup,&Audung	Paddy (Transplanted)	1. Traditional mixed cropping 2. Poor soil fertility & lack of knowledge about fertility management. 3. Attack of stem borer, gall midge , gandhi bug, leaf folder, and leaf roller 4. Poor yield of local varieties 5. Lack of irrigation facility 6.Loss of nutrient through water erosion 7. Attack of khaira,Stem rot,blast and bacterial leaf blight 8. Infestation of wild animals	1. Scientific cropping system 2. INM package 3. Varietal intervention 4. IPM against major pests and disease. 5. Scientific crop management 6. Spraying of water soluble fertilizer. 7. Application of organic manure 8. Soil acidity management

2.	Lumla	Lumla	Poito	,Pea,Soyabean,Finger millet,Groundnut	1. Traditional management 2. Poor soil fertility & lack of knowledge about fertility management. 3. Attack stem borer and top borer 4. Lack of awareness aboutmaize based cropping system 5. Lack of irrigation facility 6.Loss of nutrient through water erosion 7. Poor yield of local variety 8. Acidity of soil	1. Scientific cropping systems 2. INM package 3. IPM against major pests. 4. Scientific crop management 6. Spraying of water soluble fertilizer. 7. Application of organic manure 8. Varietal intervention 9. Soil acidity management
3.	Tawang	Lumla	Lumla,Sherbang	Paddy,Pea,Soyabean,Finger millet,Black gram,Groundnut	1. Traditional management 2. Poor yield of local varieties 3. Acidity of soil 4. Loss of nutrient through water erosion 5. Attack of Bihar hairy caterpillar and tobacco caterpillar 6. Attack of seedling rot and rust.	1. Scientific production technology 2. INM package 3. Varietal intervention 4. Soil acidity management 5. Spraying of water solublefertilizer 6. IPM against major pests. 7. Application of organic manure

4.	Tawang	Tawang	Audung,Soma	Blackgram	1. Traditional management 2. Poor soil fertility & lack of knowledge about fertility management. 3. Poor yield of local varieties 4. Acidity of soil 5. Lack of irrigation facility 7. Loss of nutrient through water erosion	1. Scientific production technology 2. INM package 3. Varietal intervention 4. Soil acidity management 5. IPM against major pest and disease 6. Scientific crop management 7.Application of organic manure
5.	Tawang	Kitpi	Kitpi, Shernup, Audung	Brinjal	1 Poor soil fertility & lack of knowledge about fertility management. 2. Poor yield of local varieties 3. Lack of irrigation facility 4.Loss of nutrient through water erosion 5. Attack of bacterial blight 6. Acidity of soil.	1. Scientific cropping system 2. INM package 3. Varietal intervention 4. IPM against major pests and disease. 5. Scientific crop management 6. Spraying of water soluble fertilizer. 7. Application of organic manure 8. Soil acidity management.

6.	Tawang	Tawang	Lamberdung	Cabbage	1. Traditional management 2. Poor soil fertility & lack of knowledge about fertility management. 3. Attack stem borer and top borer 5. Lack of irrigation facility 6.Loss of nutrient through water erosion 7. Poor yield of local variety 8. Acidity of soil	1. Scientific cropping systems 2. INM package 3. IPM against major pests. 4. Scientific crop management 6. Spraying of water soluble fertilizer. 7. Application of organic manure 8. Varietal intervention 9. Soil acidity management
7.	Tawang	Zemithang Dudunghar	Namtsering	Paddy (Transplanted)	. Traditional mixed cropping 2. Poor soil fertility & lack of knowledge about fertility management. 3. Attack of stem borer, gall midge , gandhi bug, leaf folder, and leaf roller 4. Poor yield of local varieties 5. Lack of irrigation facility 6.Loss of nutrient through water erosion 7. Attack of khaira,Stem rot,blast and bacterial leaf blight 1. 8. Acidity of soil.	1. Scientific cropping system 2. INM package 3. Varietal intervention 4. IPM against major pests and disease. 5. Scientific crop management 6. Spraying of water soluble fertilizer. 7. Application of organic manure 8. Soil acidity management

8.	Tawang	Zemithang Dudunghar	Lumtsang,Bleting,Yusur	Groundnut	1. Traditional management 2. Poor soil fertility & lack of knowledge about fertility management. 3. Poor yield of local varieties 4. Acidity of soil 5. Lack of irrigation facility 7. Loss of nutrient through water erosion	1. Scientific production technology 2. INM package 3. Varietal intervention 4. Soil acidity management 5. IPM against major pest and disease 6. Scientific crop management 7.Application of organic manure
9.	Tawang	Kitpi	Kitpi, Soma	Farm women	Labourous and time consuming by traditional method	Introduction of maize sheller among farm women Light weight and low cost metal maize sheller for drudgery reduction
10.	Tawang	Tawang	Khrimethang , Lemberdung & Changbu	Farm women	Lack of awareness on complementary food	Assessment of nutritional status of children by anthropometry, Introduction of Assam Mix- Rice flour (70 g.) Green Gram flour (20g) Sesame (5 g) and Ground nut (5 g), 2-3 meals per day @2-3 tablespoonful per feed i.e. 1 tablespoonful – 5g.

11.	Tawang	Kitpi	Kitpi	Cattle	Non availability of green fodder due to extreme winter	Complete feed block (CFB) as a feed supplement in lactating cattle. Lactating cattle @ 10-11 blocks/day (300-400kg),each block@1.7kg
12.	Tawang	Tawang & Zemithang Dudunghar	Lemberdung, Lumla & Namtsering	Poultry	Lesser production by local poultry strain	Introduction of 'Vanaraja'as backyard poultry rearing. Brooding of day old chick for 21 days, vaccination of the chicks.

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	03	03	10	09	04	04	39	40
Plant	03	03	08	08	03	03	40	40

Protection								
Home Science	02	02	07	07	01	01	06	06
Animal Science	02	Ongoing	13	Ongoing	-	-	-	-
Total	10	08	38	24	08	08	85	85

Note: Target must be as set during last Action Plan Workshop

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

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

Note: Target must be as set during last Action Plan Workshop

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

Sl. No	Thrust area	Crop/ Enterprise	Identified problems	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.

1	Varietal evaluation	Paddy-Pea	Low yield of local variety	Varietal evaluation of Paddy var.Ranjit		Scientific cultivation of Paddy			Seed
2	Varietal evaluation	Maize-Potato	Low yield of local variety	Varietal evaluation of Maize var. HQPM-1		Scientific cultivation of Maize			Seed
3	Varietal evaluation	Green gram-Wheat	Low yield of local variety	Varietal evaluation of Green gram var.Pratap		Scientific cultivation of Green gram			Seed
4	Varietal evaluation	Potato Potato-Cole crop	Low yield of local variety	Varietal evaluation of Potato var. Kufri kanchan		Scientific cultivation of Potato			Seed

5	Pest management	Cauliflower Vegetables-Rice	Low yield due to infestation of insect-pests	**Bio- intensive package to control the pests of cole crops.**		IPM in Cole crops	Major pest and diseases of vegetables in Tawang dist and their eco-friendly managem ent	Field visit,Diagn ostic visit,Leafle t pulication	Seeds,Plant protection materials like stickers,bio-pesticides etc.
6	Disease management	Apple	Low yield due to apple scab disease	**Management of Scab disease in Apple**		Management of Scab disease in apple	-	Field visit,Diagn ostic visit	Plant protection materials
7	IPM	Potato Potato-vegetables	Low yield due to different pests	**Management of cut worm *Agrotis ipsilon* in potato**		Major pests and diseases of potato and their management	-	Field visit,Diagn ostic visit	Plant protection materials

8	Nutritional diet for children/ Pregnant women	Children	Lack of awareness on complementary food	**Assessment of nutritional status of children by anthropometry.** Introduction of Assam Mix- Rice flour (70 g.) Green Gram flour (20g) Sesame (5 g) and Ground nut (5 g), 2-3 meals per day @2-3 tablespoonful per feed i.e. 1 tablespoonful – 5g.		Complementary food and feeding technique – Assam mix	Complementary food and feeding technique – Assam mix		**Assam Mix -** Rice flour (70 g.) Green Gram flour (20g) Sesame (5 g) and Ground nut (5 g), 2-3 meals per day @2-3 tablespoonful per feed i.e. 1 tablespoonful – 5g.
9	Energy saving tools/ devices	Farm women	Labourous and time consuming by traditional method	**Introduction of maize sheller among farm women.** Light weight and low cost metal maize sheller for drudgery reduction					Maize Sheller

10		Poultry	Lesser production by local poultry strain	**Introduction of 'Vanaraja'as backyard poultry rearing.** Brooding of day old chick for 21 days, vaccination of the chicks					Vanaraja Chicks
11.		Cattle	Non availability of green fodder due to extreme winter	**Complete feed block (CFB) as a feed supplement in lactating cattle.** Lactating cattle @ 10-11 blocks/day (300-400kg),each block@1.7kg					Complete feed block (CFB)

3.1 Achievements on technologies assessed and refined during 2017-18

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation	02		01						01	04
Seed / Plant production										
Weed Management										
Integrated Crop Management										
Integrated Nutrient Management										
Integrated Farming System										
Mushroom cultivation										
Cropping sequence										
Farm machineries	1									01
Value addition										
Integrated Pest Management					01				01	02

Integrated Disease Management						01				01
Nutrition										01
Small Scale income generating enterprises										
TOTAL										09

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

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

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

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

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

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)
01	**Varietal evaluation of paddy var.Ranjit**	Low yield of local variety	Scientific cultivation of Ranjit	Rainfed	03	i. Paddy Plant height 93 m. ii. No. of effective tillers/m^2-218 iii. No.of panicle/m^2-218 iv. Grain/panicle-85 v. 1000-grain weight 22 gm.	Farmers are interested for adopt ion of new variety of paddy	Technology is suitable for the District	2:1
02	**Varietal evaluation of Maize var.HQPM-1**	Low yield of local variety	Scientific cultivation of HQPM-1	Rainfed	04	i. Plant height(cm)-132 ii. Cob/plant-1.5 iii. Length of cob(cm)-17	Farmers are interested for adopt ion of new variety of	Technology is suitable for the District	2.5:1

						iv. 1000-grain weight(gm)-212	Maize		
03	**Varietal evaluation of Green gram Var.Pratap**	Low yield of local variety	Scientific cultivation of Pratap	Rainfed	03	i. Plant height(cm)-42 ii. Branches/plant-07 iii. Pod/plant-17 iv. Seed/pod-5.0 v. 100-Seed weight (gm)-4	Farmers are interested for adopt ion of new variety of Green gram	Technology is suitable for the District	3.2:1
04	**Varietal evaluation of Potato var.Kufri kanchan**	Low yield of local variety	Scientific cultivation of Kufri kanchan	Rainfed	02	1.Plant height-(Cm.)-27 2.No. of stem/hill-(03) 3.No. of tuber/hill-14 4.Tuber yield/hill(55gm.)	Farmers are interested for adopt ion of new variety of Potato	Technology is suitable for the District	2.5:1
05	**Bio-intensive package to control the pests of**	Low yield due to infestation of various	1. Physical collection of larvae of *lepidopteran* pests.	Rainfed	03	1.Pre-treatment count of insects= 24 2. Post-treatment	Farmers are interested to adopt this technology	Technology is suitable for the District	2.6:1

	cole crops	insect pests	2. Yellow sticky traps 3. Release of *Trichogramma chilonis* *4.*Spray Bt (Dipel)1kg/ha at 15 days interval from 30 DAT			count of insects=2 3. Population of natural enemies before treatment =7 4.Population of NE after treatment=5 5. Yield (q/ha)= 140			
06	**Management of Scab disease in Apple**	Low yield due to aaple scab	Captan 600gm/ 200 lit at green tip stage, Bavistin 100gm/ 200lit at petal fall stage and Diathane M-45 600 gm/200 lit of water at walnut stage	Rainfed	02	% of infected plants =4% (Mean of observation taken in 10 days interval) Infestation of other pest =6% Yield=38 q/ha	Farmers are interested to adopt this technology	Technology is suitable for the District	2.6 :1
07	**Management of cut worm *Agrotis ipsilon* in potato**	Low yield due to cut worm	1- Soil application of imidacloprid 17.8 SL @ 48 g a.i/ha at the time of sowing. 2- One spray of NSKE 5ml/lit @15 DAS.	Rainfed	03	% hulm cut=4 ii. % tuber damage = 7 iii. yield=141	Farmers are interested to adopt this technology	Technology is suitable for the District	2.8 :1

8	**Introduction of maize sheller among farm women**	Labourous and time consuming by traditional method.	Light weight and low cost metal maize sheller for drudgery reduction	-	04	Technology :- 1. Ease of shelling 2. Efficiency 3. Acceptability of technology 4. Spread over effect	The farmwomen found it more accessible than the traditional method. Farmers are interested to adopt this technology.	Technology is suitable for the District	-
9	**Assessment of nutritional status of children by anthropometry**	Lack of awareness on complementary food.	Introduction of Assam Mix- Rice flour (70 g.) Green Gram flour (20g) Sesame (5 g) and Ground nut (5 g), 2-3 meals per day @2-3 tablespoonful per feed i.e. 1 tablespoonful – 5g.	-	03	**Technology :-** 1. Body weight 2. Height 3. Head circumference 4. Beneficiary reaction	Farmers are interested to adopt this technology as these complementary foods were palatable for the baby.	Technology is suitable for the District	-
10	**Complete feed block (CFB) as a**	Non availability of green fodder	Lactating cattle @ 10-11 blocks/day (300-	-	03	**Technology :-** 1. Quantity of	ongoing	ongoing	ongoing

	feed supplement in lactating cattle.	due to extreme winter	400kg),each block@1.7kg			milk produced 2. Quality of milk 3. Body weight of animal			
11.	**Introduction of 'Vanaraja'as backyard poultry rearing.**	Lesser production by local poultry strain	Brooding of day old chick for 21 days, vaccination of the chicks	-	03	**Technology :-** 1. Age at first lay 2. Body weight at 1st lay. 3. No of eggs per year. 4. Annual body weight gain 5. Mortality rate(%) 6. Disease incidence (%)	Ongoing	Ongoing	Ongoing

Field crops – ton/ha, * for horticultural crops -= kg/t/ha, * milk and meat – litres or kg/animal, * for mushroom and vermi compost 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 2016-17 and recommended for large scale adoption in the district

Sl. No	Crop/ Enterprise	Technology demonstrated	Horizontal spread of technology		
			No. of villages	No. of farmers	Area in ha
01	Maize-Pea	Varietal performance of Maize var. RCM-76	05	15	10
02	Soyabean-Wheat	Varietal performance of Soyabean var. Js-335	04	12	08
03	Paddy-pea	Varietal performance of Paddy var. CAU-R	05	12	10
04	Potato-vegetables	Varietal Performance of potato Var. Kufri kanchan	02	08	02
05	Rice Vegetables - Rice	**Management of stem borer in rice:** 6-8 releases of *Trichogramma japonicum* @ 50,000/ha/week in the form of trichocards,starting from 30 days after transplanting.	05	10	07
06	Chilli Chilli-Pea	**Management of fruit rot disease in chilli:** Seed treatment with Captan @2g/kg seeds before sowing.	03	12	1.0

		Spray the crop with 2kg of Indofil M-45 in 625 ltr water/ ha at 10 days interval.			
07	Cabbage Potato-Cabbage	**IPM in cabbage:** Yellow stickers,Summer ploughing, Spray with Neem pesticide at every 10 days interval from 30 DAT.	04	10	1.0
08	Kitchen gardening	**Nutritional Gardening** Cabbage, Radish,Carrot & Broccoli	05	06	0.5

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

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

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement	Farming situation (Rainfed/ Irrigated, Soil type, altitude, etc)	Status of soil (Kg/ha)		
												N	P	K
					Proposed	Actual	SC/ST	Others	Total					
1	Maize	Varietal	Scientific	Kharif,	10	10	15	-	15		Rainfe			

.		performance	cultivation of Maize var.RCM-76	2017							d			
2.	Soyabean	Varietal performance	Scientific cultivation of Soyabean var.Js-335	Kharif 2017	08	08	12	-	12		Rainfed			
3	Paddy	Varietal performance	Scientific cultivation of Paddy var. RCM-1	Kharif 2017	10	10	12	-	12					
4	potato	Varietal performance	Scientific cultivation of Potato var. Kufri kanchan	Rabi 2018	02	02	08	-	08					
3	Rice	Biological control	**Management of stem borer in rice:** **6-8 releases of *Trichogramma japonicum* @ 50,000/ha/week in the form of trichocards,starting from 30 days after transplanting**	Kharif, 2017	10	10	10	-	10		Rain fed			
4	Cabbage	Disease management	**IPM in cabbage:** Yellow	Kharif, 2017	02	02	15	-	15		Rain fed			

			stickers,Summer ploughing, Spray with Neem pesticide at every 10 days interval from 30 DAT.											
5	Chilli	Disease management	**Management of fruit rot disease in chilli:** Seed treatment with Captan @2g/kg seeds before sowing. Spray the crop with 2kg of Indofil M-45 in 625 ltr water/ ha at 10 days interval.	Kharif, 2017	02	02	15	-	15		Rain fed			
6	**Kitchen garden**	**Nutritional Gardening** Cabbage Radish Carrot Broccoli		2017 April – October	0.5	0.5	06	-	06		Rain fed			

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	Maize	Varietal performance	10	31.0	23.0	35	32	30			42,000	93,000	51,000	2.2:1	38,000	69,000	31,000	1.8:1
2	Soyabean	Varietal performance	08	22.0	16.0	38	23	21			40,500	1,21,500	81,000	3.0:1	34,500	72,000	34,500	2.0:1
3	Paddy	Varietal performance	10	39.0	29.0	34.0	40	38			36,000	70,002	34002	1.9:1	32,000	52,200	20,200	1.6:1

4	**potato**	Varietal performance	02	**Ongoing**													
5	**Paddy**	Management of Stem Borer in rice	07	**37**	**26**	**42.3**	**39**	**35**			**48,000**	**91,200**	**43,200**	**1.9:1**	**32,000**	**51,200**	**20,200**	**1.6:1**
6	**Cabbage**	IPM in cabbage	02	**255**	**180**	**41.6**	**260**	**251**			**90,000**	**2,52,000**	**1,62,000**	**2.8:1**	**53,000**	**1,00,700**	**47,700**	**1.9:1**
7	**Chilli**	Management of fruit rot disease in chilli	02	**86.5**	**60**	**44.1**	**86.5**	**84.0**			**85,000**	**2,21,000**	**1,36,000**	**2.6:1**	**68,000**	**1,22,400**	**54,400**	**1.8:1**
7	**Kitchen Gardening**	Nutritional Gardening	0.5	185	138	34	190	180			50,000	167,000	117,000	3.3:1	34,00**0**	74,800	40,800	2.2:1

a. Extension and Training activities under FLD on Crops: Field day

e. Details of FLD on Enterprises :NA

(i) Farm Implements

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

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

(ii) Livestock Enterprises:

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

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

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

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

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

(iii) Fisheries:NA

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

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

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

(iv) Other enterprises:NA

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

***** 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:NA

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:NA

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):NIL

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

Thematic area	No. of Courses/ prg.			Participants																		Grand Total
				General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
	Off	Sp Off*	Total	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	
I. Crop Production																						
Weed Management	01	-	01							18	-	27	-	45	-	18	-	27	-	45	-	45
Resource Conservation Technologies																						
Cropping Systems																						
Crop Diversification																						

Integrated Farming																						
Water management																						
Seed production	1	-	1							22	-	42	-	64	-	22	-	42	-	64	-	64
Nursery management	1	-	1							12	-	19	-	31	-	12	-	19	-	31	-	31
Integrated Crop Management																						
Fodder production	1	-	1							10	-	22	-	32	-	10	-	22	-	32	-	32
Production of organic inputs	1	-	1							74	-	64	-	138	-	74	-	64	-	138	-	138
II. Horticulture																						
a) Vegetable Crops																						
Production of low volume and high value crops																						
Off-season vegetables																						
Nursery																						

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

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

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

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

Management of Problematic soils																						
Micro nutrient deficiency in crops																						
Nutrient Use Efficiency																						
Soil and Water Testing																						
VII Plant Protection																						
Integrated Pest Management	1	-	1							48	-	46	-	94	-	48	-	46	-	94	-	94
Integrated Disease Management	1	-	1							20	-	19	-	39	-	20	-	19	-	39	-	39
Bio-control of pests and diseases	1	-	1							15	-	25	-	40	-	15	-	25	-	40	-	40
Rodent pest management																						
Chemical control	1	-	1							14	-	10	-	24	-	14	-	10	-	24	-	24

Organic farming	1	-	1							41	-	30	-	71	-	41	-	30	-	71	-	71
Plant protection in fruit	5	-	5							138	-	130	-	268	-	138	-	130	-	268	-	268
X Capacity Building and Group Dynamics																						
Leadership development																						
Group dynamics																						
Formation and Management of SHGs																						
Mobilization of social capital																						
Entrepreneurial development of farmers/youths	1	-	1							48	-	67	-	115	-	48	-	67	-	115	-	115
WTO and IPR issues																						
IV Livestock Production and Management																						

Dairy Management	2	-	2							26	-	13	-	39	-	26	-	13	-	39	-	39
Poultry Management	1	-	1							6	-	18	-	24	-	6	-	18	-	24	-	24
Piggery Management																						
Rabbit Management																						
Disease Management	2	-	2							46	-	9	-	55	-	46	-	9	-	55	-	55
Feed management	4	-	4							57	-	37	-	94	-	57	-	37	-	94	-	94
Production of quality animal products	1	-	1							13	-	0	-	13	-	13	-	0	-	13	-	13
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	3	-	3							37	-	67	-	104	-	37	-	67	-	104	-	104
Value addition	5	-	5							48	-	87	-	135	-	48	-	87	-	135	-	135
Income generation activities for empowerment of rural Women																					
Location specific drudgery																					

reduction technologies																						
Rural Crafts																						
Women and child care	3	-	3							22	-	46	-	68	-	22	-	46	-	68	-	68

(B) RURAL YOUTH

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

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

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

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

Thematic area	No. of Courses/ Prog.			Participants																		Grand Total
				General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
	Off	Sp Off	Total	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	Off	Sp Off*	
Mushroom Production	1	-	1							20	-	14	-	34	-	20	-	14	-	34	-	34
Bee-keeping																						

Integrated farming																					
Seed production																					
Production of organic inputs																					
Integrated Farming																					
Planting material production																					
Vermi-culture	1	-	1							20	-	14	-	34	-	20	-	14	-	34	-	34
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	1	-	1							20	-	14	-	34	-	20	-	14	-	34	-	34
Production of quality animal products																						
Dairying	1	-	1							13	-	-	-	13	-	13	-	-	-	13	-	13
Sheep and goat rearing																						
Quail farming																						
Piggery																						
Rabbit farming																						
Poultry production																						
Ornamental fisheries																						
Para vets																						

Para extension workers																					
Composite fish culture																					
Freshwater prawn culture																					
Shrimp farming																					
Pearl culture																					
Cold water fisheries																					
Fish harvest and processing technology																					
Fry and fingerling rearing																					
Small scale processing																					
Post Harvest Technology																					
Tailoring and Stitching																					

Rural Crafts																						
TOTAL	4		4							73		42		115		73		42		115		115

C. Extension Personnel

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

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

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

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

Thematic area	**No. of Courses/ prog.**			**Participants**																		**Grand Total**
				General						**SC/ST**						**Total**						
				Male		**Female**		**Total**		**Male**		**Female**		**Total**		**Male**		**Female**		**Total**		
	ON	**Sp ON***	**Total**	**ON**	**Sp ON***	**ON**	**Sp ON***	**ON**	**Sp ON***	**ON**	**Sp ON***	**ON f**	**Sp ON***	**ON**	**Sp ON***	**ON**	**Sp v***	**ON**	**Sp ON***	**ON**	**Sp ON***	
Productivity enhancement in field crops																						
Integrated Pest Management	1	-	1	5	-	1	-	6	-	10	-	8	-	18	-	18	-	9	-	24	-	24

Integrated Disease management	1	-	1	4	-	1	-	5	-	10	-	5	-	15	-	14	-	6	-	21	-	21
Crop production	2	-	2	8	-	1	-	9	-	13	-	6	-	19	-	21	-	7	-	28	-	28
Capacity building																						
Formation and Management of SHGs																						
Group Dynamics and farmers organization																						
Information networking among farmers																						
Capacity building for ICT application	2	-	2	10	-	2	-	12	-	24	-	12	-	36	-	34	-	14	-	48	-	48
Care and																						

maintenance of farm machinery and implements																						
WTO and IPR issues																						
Management in farm animals																						
Livestock feed and fodder production	1	-	1							25	-	-	-	25	-	25	-	-	-	25	-	25
Household food security																						
Women and Child care	2	-	2							19	-	31	-	50	-	19	-	31	-	50	-	50
Low cost and nutrient efficient diet designing																						
Production and use of																						

organic inputs																					
Gender mainstreaming through SHGs																					
TOTAL	9		9	27		5		32		101		62		163		101		62		163		163

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 Extension Personnel :

Discipline	Area of training	Title of the training programme	Date (From – to)	Duration in days	Venue	General participants			SC/ST			Grand Total		
						M	F	T	M	F	T	M	F	T
Agronomy	Crop production	Scientific cultivation of Kharif pulse	20.7.2017	One day	KVK office	3		3	3	2	5	6	2	8
		Scientific cultivation of Maize crop	4.8.2017	One day	Do	5	1	6	10	4	14	15	5	20
Plant Protectio	IPM	Major pest and disease of vegetables in Tawang district and	25.7.2017	One day	Do	5	1	6	10	8	18	15	09	24

n		their management												
	IDM	Major pest and disease of fruit crops in Tawang district and their management	20.9.2017	One day	do	4	1	5	10	5	15	15	6	21
Agri.Extension	**Extension method**	Oyster mushroom production technology	5.9.2017	One day	Do	5	1	6	14	8	22	19	9	28
		Entrepreneur ship development in agriculture	4.8.2017	One day	Do	5	1	6	10	4	14	15	5	20
Home Science	Food and Nutrition	Nutrition & health care for adolescence.	23.03.2018	One day	KVK Office				10	15	25	10	15	25
		Complementary food & feeding technique – Assam mix.	26.03.2018	One day	KVK Office				09	16	25	09	16	25

Animal Science	Fodder management	Highland Pastures and their management for Betterment of Livestock Productivity	23.04.2018	One day	KVK Office				25	25	25			25

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

Discipline	Area of training	Title of the training programme	Date (From – to)	Duration in days	Venue	General participants			SC/ST			Grand Total		
						M	F	T	M	F	T	M	F	T
Agronomy	Weed Management	Integrated Weed Management in Maize	14.4.17	One day	Kitpi				10	13	23	10	13	23
	Weed Management	Integrated Weed Management in Potato	22.05.17	One day	changprong				08	14	22	08	14	22S
	Seed Production	Seed Production of Wheat	20.7.17	One day	sernup				09	12	21	09	12	21
		Seed Production	2.8.17	One day	Khinmey				13	30	33	13	30	33

		of Potato												
	Fodder Production	Fodder Production of Berseem	14.8.17	One day	Changprong				10	22	32	10	22	32
	Nursery Management	Scientific method of raising paddy seedlings	08.10.16 7	Noe days	Urgeling				12	19	31	12	19	31
	Production of Organic Inputs	Production Of Organic Manure	12.11.17	One day	Thanga				8	12	20	8	12	20
	Production of Organic Inputs	Production & use of Vermicompost	15.10.17	One day	Namtsering				14	19	33	14	19	33
	Production of Organic Inputs	Production Of Organic Manure	20.12.17	One day	damgin				10	08	18	10	08	18
	Production of Organic Inputs	Production & use of Vermicompost	24.01.18	one day	Yusur				20	13	33	20	13	33
	Production of organic manure	Production and use of vermicompost	12.3.18	One day	Khinmey				22	12	34	22	12	34
Plant Protection	IPM	IPM in vegetables	13/4/17	One day	Kitpi				12	11	23	12	11	23

	IDM	Pests and disease management in vegetables	22/5/17	One day	Changprong				10	12	24	10	12	22
	IPM	IPM in vegetables	16/5/17	One day	Kitpi				13	15	28	13	15	28
	IPM	IPM in fruits	19/7/17	One day	Shernup				15	10	25	15	10	25
	IDM	IDM in fruits	3/8/17	One day	Khimney				10	07	17	10	07	17
	Biological control	Management of rice pests.	9/8/17	One day	Audung				7	13	20	7	13	20
	Chemical control	Preparation of pesticidal solution	10/8/17	One day	Teli				14	10	24	14	10	24
	IPM	IPM in cole crops	21/8/17	One day	Lemberdung				8	10	18	8	10	18
	Biological control	Bio -control of insects crop pests	10/10/17	One day	Maidung				8	12	20	8	12	20
	Organic farming	Management of Stem borer in rice	12/10/17	One day	Shernup				16	14	30	16	14	30

	Organic farming	Management of tomato wilt using biopesticides	7/11/17	One day	Namet				25	16	41	25	16	41
	Training for Rural Youth	Protected cultivation for entrepreneurship development	16/3/18	One day	Khinmey				16	14	30	16	14	30
Agri.Extension	Entrepreneurial development of farmers	Agripeneurship through production of Biopesticide	24.4.17	One day	Teli				12	17	29	12	17	29
	Entrepreneurial development of farmers	Agripeneurship through production of Biopesticide	12.05.17	One day	Poito				11	16	27	11	16	27
	Entrepeneurial development of farmers	Enterpenership development through SHG	16.06.17	One day	Khinmey				13	16	29	13	16	29
	Entrepreneurial development of farmers	Enterpenership development through SHG	10.07.17	One day	Gyanghar				12	18	30	12	18	30
		Food processing from locally Available	2 June,17	One day	Kitpi				15	10	25	15	10	25

Home Science		resources												
	Value addition	Value addition and nutritional value of milk	17 July,17	One day	Kitpi				10	13	23	10	13	23
		Training on value addition of garlic and plum.	02–08–17	One day	Khinmey				07	18	25	07	18	25
		Training on value addition of plum.	8-08-17	One day	Khinmey				05	17	22	05	17	22
	Storgae technique	Training on storage technique of paddy.	09-08-17	One day	Audung				10	18	28	10	18	28
		Training on storage technique of paddy.	08–09–17	One day	Namtsering				16	19	35	16	19	35
	Health and hygiene	Training on hygiene and sanitation.	14-09-17	One day	Kharteng				10	15	25	10	15	25
	Storgae technique	Storage technique of paddy.	07th Nov'17	One day	Namet				11	30	41	11	30	41
	Food and Nutrition	Nutritional diet for school going children.	18th Nov'17	One day	Soma				07	06	13	07	06	13
		Nutritional diet for school going	21th	One day	Damgin				05	25	30	05	25	30

		children.	Dec'17											
	Value Addition	Value addition and preservation technique for radish.	04th Jan,18	One day	Gispu				11	29	40	11	29	40
	Food and Nutrition	Nutrition & health care for adolescence	16th March 18	One day	Khinmey				09	25	34	09	25	34
Animal Science	Cattle management	Dairy management and clean milk production	17th July 17	One day	Kitpi				21	1	22	21	1	22
	Poultry Rearing	Backyard poultry farming and their benefits.	10th August ' 17	One day	Teli				6	18	24	6	18	24
	Disease management	Disease management in livestock	21st August '17	One day	Namtsering				25	5	30	25	5	30
	Feeding management	Livestock feed and fodder production.	20th September'17	One day	kitpi				18	12	30	18	12	30
		Livestock feed and fodder production	10th October'17	One day	Maidung				5	10	15	5	10	15

	Cattle management	Scientific rearing of cattle	12th Oct'17	One day	Shernup				5	12	17	5	12	17
	Disease management	Control of parasites in live stock.	7th Nov'17	One day	Namet				21	4	25	21	4	25
	Feed	Importance of concentrate feeds in cattle.	18th Nov'17	One day	Soma				22	7	29	22	7	29
	Feed	Winter mitigation of feed and fodder for cattel.	13th Dec'17	One day	Kitpi				12	8	20	12	8	20
	Value addition of milk	Training on milk by-products for farmers	24th Jan'18	One day	Teli				13		13	13		13

(D) Vocational training programmes for Rural Youth :NIL

Crop / Enterprise	Date	Durati	Area of	Traini	No. of Participants	Impact of training in terms of Self employment after	Whether

	(From – To)	on (days	training	ng title*	General			SC/ST			Total			training				Sponsored by external funding agencies (Please Specify with amount of fund in Rs.)
					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):NIL

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

							M	F	T	M	F	T	M	F	T		
Total																	

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

Sl. No.	Extension Activity	Topic	Date and duration	No. of activities	Participants											
					General (1)			SC/ST (2)			Extension Officials (3)			Grand Total (1+2)		
					M	F	T	M	F	T	M	F	T	M	F	T
1.	**Advisory services**		**Apr 17– Mar 18**	**35**				**12**	**23**					**12**	**23**	**35**
2.	Diagnostic visit		**Apr 17– Mar 18**	**87**				**393**	**389**					**393**	**389**	**682**
3.	Field day		**Sept,Oct**	**04**				**135**	**147**					**135**	**147**	**282**
4.	Group Discussion		**Apr 17– Mar 18**	**70**				**250**	**270**					**250**	**270**	**520**
5.	Kishan Gosthi		**April18-Nov.18**	**08**				**35**	**54**					**35**	**54**	**89**
	Kishan Mela															
6.	Film show		**Apr 17– Mar 18**	**09**				**54**	**52**					**54**	**52**	**106**
7.	SHG formation		**Sep,**	**01**				**-**	**18**							**18**
8.	Exhibition		**Aug**	**01**												**Mass**

9.	Scientists visit to farmers fields		**Apr 17– Mar 18**	**97**				**170**	**198**					**170**	**198**	**368**
10.	Plant/ Animal Health camp	Animal Health Camp	**21st July'17** **25th March'18**	**2**				**12**	**1**	**31**						**31**
								12	**1**	**31**						**31**
11.	Farm science club															
12.	Ex-trainee Sammelan															
13.	Farmers seminar/ workshop															
14.	Method demonstration		**April,May**	**04**				**8**	**10**					**8**	**10**	**18**
15.	Celebration of important days		**Jan ,Aug**													**Mass**
16.	Exposure visits															
17.	Electronic media (CD/DVD)															
18.	Extension literature			**04**												**Mass**
19.	Newspaper coverage			**08**												**Mass**
20.	Popular articles		**April,May,June,August,Sept,Oct**	**08**												**Mass**
21.	Radio talk		**April,May,June,August,Sept,Oct**	**06**												**Mass**
22.	TV talk															
23.	Training manual															
24.	Soil health camp		**December**	**01**				**45**	**65**					**45**	**65**	**110**

25.	Awareness camp																
26.	Lecture delivered as resource person		**April,December,March**	**06**				**55**	**75**					**55**	**75**	**130**	
27.	PRA		**April,May,June,**	**10**				**110**	**130**					**110**	**130**	**240**	
28.	Farmer-Scientist interaction		**April,May,June,August,Sept,Oct**	**06**				**65**	**55**					**65**	**55**	**120**	
29.	Soil test campaign		**December**	**01**				**45**	**55**					**45**	**55**	**100**	
30.	Mahila Mandal Convener meet																
31.	Any other (Please specify)																
32.																	
	Grand Total			**818**				**1302**	**1428**					**1302**	**1428**	**2730**	

3.5 Production and supply of Technological products during 2017-18

A. SEED MATERIALS:NIL

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

B. Production of Planting Materials : Cabbage -1000 seedlings, Cauliflower-1500 seedlings, Broccoli-1000 seedlings.

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

C. Production of Bio-Products during 2017-18: Vermicompost-4.0 quintal

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

D. Production of livestock during 2017-18:NIL

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

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.):Periodicity –Annual, No of Copies-1000

(B) Articles/ Literature developed/published: Folder- 12, Technical bulletin-1,

Title of Folder:

1. Scientific cultivation of Rice
2. Complimentary food and feeding technique-Assam Mix
3. Major disease of forest plant in Tawang district and their management.
4. Eco friendly management of cabbage butterfly.

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

(C) Details of Electronic Media Produced:NIL

3.7. Success stories/Case studies, if any (two or three pages write-up on each case with suitable action photographs):

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

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	Vegetables	Application of soap water around the plant	To get rid of cut worm
2	Vegetables	Application of wood ash	To manage nursery pest
3	Potato	Apply cut banana@ periphery of the field	To control red ant

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

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

3.11 Field activities

i. Number of villages adopted-10

ii. No. of farm families selected-235

iii. No. of survey/PRA conducted-10

3.12. Activities of Soil and Water Testing Laboratory:NA

Status of establishment of Lab :

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

Sl. No	Name of the Equipment	Qty.	Cost
1			
2			
3			
Total			

3. Details of samples analyzed so far : No of sample analyzed 51
No of Survey:12 villages

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

3.14 Contingency planning for 2017-18

a. Crop based Contingency planning

Contingency (Drought/ Flood/ Cyclone/ Any other please specify)	Proposed Measure	Proposed Area (In ha.) to be covered	Number of beneficiaries proposed to be covered		
			General	SC/ST	Total
Drought	Paddy var:Satva, Basundhra	10		62	62
	Water harvesting	10		62	62
	Finger millets var: VL Mandua 146,	12		69	69
	-				

	Any other (Please specify)				

a. Livestock based Contingency planning :NA

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

4.0. IMPACT

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

Name of specific technology/skill transferred	**No. of participants**	**% of adoption**	**Change in income (Rs.)**	
			Before (Rs./Unit)	**After (Rs./Unit)**
Scientific cultivation of Groundnut	54	37	45,000	73,500
Scientific cultivation of Paddy	18	26	23,000	41,000

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

4.2. Cases of large scale adoption: Yield of new variety is higher due to adoption of Scientific method of cultivation.

(Please furnish detailed information for each case)

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

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Varietal evaluation of Paddy Var:CAU R1	05	65	7000/-	11000/-
Varietal evaluation of Maize Var:RCM-76	05	69	7700/-	12000/-

1.0. LINKAGES ESTABLISHED

5.1 Functional linkage with different organizations

Name of organization	Nature of linkage
ATMA	As a resource person

Ministry of Agriculture	Awareness programme

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

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

Name of the Programme	**Organization**
PPV&FRA	Ministry of Agriculture

5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district?

Sl. No.	**Programme**	**Nature of linkage**	**Remarks**
01	**Training**	**As a resource person**	

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

5.5 Nature of linkage with National Fisheries Development Board :NA

6. PERFORMANCE OF INFRASTRUCTURE IN KVK DURING 2017-18

6.1 Performance of demonstration units (other than instructional farm): NIL

6.2 Performance of instructional farm (Crops) including seed production: NIL

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

6.4 Performance of instructional farm (livestock and fisheries production) :NA

6.5 Rainwater Harvesting

Training programmes conducted by using Rainwater Harvesting Demonstration Unit:NA

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

Accommodation available (No. of beds) :NIL

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
30641369511	State bank of India	SBI, TAWANG	30641369511

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

7.3 Utilization of KVK funds during the year 2016 -17

S. No.	Particulars	Sanctioned (in Lakh)	Released (in Lakh)	Expenditure (in Lakh)
A. Recurring Contingencies				
1	**Pay & Allowances**	1,10,00,000/-	1,09,65,100/-	1,09,64,169/-
2	**Traveling allowances**	2,50,000/-	2,46,248/-	2,46,058/-
3	**Contingencies**	13,50,000/-	11,99,889.24	11,99,616/-
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)		**1,26,00,000/-**	**1,24,11,237/-**	**1,24,09,843/-**
B. Non-Recurring Contingencies				
1	**Works**			
2	**Equipments including SWTL & Furniture**			
3	**Vehicle** (Four wheeler/Two wheeler, please specify)			
4	**Library** (Purchase of assets like books & journals)			
TOTAL (B)				
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)		**1,26,00,000/-**	**1,24,11,237/-**	**1,24,09,843/-**

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
2015-16	1,08,447/	4,374/- Bank Interest	NIL	1,12,821/-
2016-17	1,12,821/-	5,740/- Bank Interest	NIL	1,18,561/-
2017-18	1,18,561/-	10,722/- Bank Interest & Revenue Generated	NIL	1,29,283/-

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- Administrative Building not completed (Half part completed)

(b) Financial- Financial position not sufficient.

(c) Technical- Not fulfill the Technical staffs post.

(Signature)
Sr. Scientist & Head