

ACTION PLAN

(April 2018 to March 2019)

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	
IISR, Raebareli Road, Lucknow	Office- 0522 2480735, 2480736	FAX 0522 248738	kvklucknow@gmail.com iisrlko@sancharnet.in

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

Address	Telephone		E-mail
	Office	FAX	
IISR, Raebareli Road, Lucknow	0522 22998036	0522 2480738	iisrlko@sancharnet.in

1.3. Name of the Head / In charge with phone & mobile No

Name	Telephone / Contact		
	Residence	Mobile	E-mail
Dr. S.N. Singh		9415152102	sugarcane171@gmail.com

1.4. Year of sanction: 1999

1.5. Staff Position

Sl. No.	Designation	Name of the incumbent	Discipline	Highest degree	Pay Scale (Present Basic Pay + Grade Pay)	Date of Joining	Permanent / Temporary	Category
1.	In-charge /Head	Dr.S.N. Singh	Agronomy	Ph.D.	Rs.37400-67000GPR-10000	14.12.2000	Permanent	Others
2.	SMS	Dr.Veenika Singh	Home Science	Ph.D.	Rs. 15600-39100GP.6600	29.8.05	Permanent	Others
3.	SMS	Dr.Deepak Rai	Plant Protection	Ph.D.	Rs. 15600-39100GP.6600	03.9.05	Permanent	Others
4.	SMS	Dr. Viveka Nand Singh	Horticulture	Ph.D.	Rs. 15600-39100 GP.5400	07.03.11	Permanent	Others
5.	SMS	Dr. Rakesh Kumar Singh	Animal Science	Ph.D.	Rs.15600-39100 GP.5400	19.3.97	Permanent	Others
6.	SMS	Dr. Yogendra Pratap Singh	Ag.Extension	Ph.D.	Rs. 15600-39100 GP.5400	01.01.16	Permanent	Others
7.	SMS	Vacant						
8.	SMS							
9.	Programme Assistant							
10.	Assistant							
11.	Computer Programmer							
12.	Farm Manager							
13.	Stenographer	Dehrendra Pratap Singh	Stenographer	B.Sc.	5200-20200 GP.2400	16.9.10	Permanent	OBC
14.	Driver	Kulpreet Singh	Driver	B.Com.	5200-20200 GP.2000	10.9.10	Permanent	Others
15.	Driver	Sambhu Kumar	Driver	10 th	5200-20200 GP.2000	10.9.10	Permanent	OBC
16.	Supporting staff	Anoop chand Kol	SSS	B.A.	5200-20200 GP.1800	16.9.10	Permanent	OBC
17.	Supporting staff	Santosh kumar	SSS	12 th	5200-20200 GP.1800	10.9.10	Permanent	OBC

1.6. Total land with KVK (in ha):

S. No.	Item	Area (ha)
1	Under Buildings	0.30ha.
2.	Under Demonstration Units	0.15ha.
3.	Under Crops	0.50ha.
4.	Orchard/Agro-forestry	1.00ha.
5.	Under fodder excellence centre	0.02 ha.
6.	Others (Integrated Farming System)	1.00 ha.
Total		2.97ha.

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	16.8.11	550m ²	73.50			Good
2.	Farmers Hostel	Proposal for estimate and work plan is under process with CPWD						
3.	Staff Quarters (6)							
4.	Demonstration Units (2)	ICAR	2005		1.8 lakh			Completed
5	Fencing							
6	Rain Water harvesting system							
7	Threshing floor							
8	Farm godown							

2. DETAILS OF DISTRICT

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

S. No	Farming system/enterprise
1.	Agricultural crop: Irrigated - wheat, paddy, sugarcane, mentha, fieldpea, mustard Rainfed - urd, arhar, gram and groundnut
2.	Fruit crops: mango, banana, guava and papaya. Vegetable crop: potato, brinjal, okra, vegetable pea, cabbage, Floriculture: Gladiolus, marrigold, rose
3.	Animal husbandry: Cow, buffaloes and goat

2.2 Description of agro ecological situations (based on soil and topography)

S. No	Agro ecological situation	Characteristics
1.	AES-I	Sandy loam, loam and silty loam soil, irrigated through borewell. Major crops mango and other horticultural crops. dairy is the major subsidiary occupation.
2.	AES-II	Silty loam and silty clay soil is existing this AES and mainly irrigated through borewell and canal. Main crops are paddy and mentha
3.	AES-III	Loamy sand and loamy soils in main dominated soil, irrigation facility is poor, mainly rainfed area and some areas are covered through borewell
4	AES-IV	Silty clay loam, silty loam and loamy soil is predominant. Irrigated through borewell. Diversified crops are being cultivated i.e. paddy, wheat, pulses, oilseeds, vegetables, fruits and flowers.

2.3 Soil types

Sl. No	Soil type	Characteristics	Area (ha)
1	Loamy soil	Porous, aerated and high water& nutrient retention capacity as well as sticky in nature	17304
2	Sandy loam	Porous, Well aerated and medium water holding capacity	22970
3	Silt loam	Porous, Well aerated and high water holding capacity	99301
4	Loam	Porous, aerated and high water& nutrient retention capacity as well as sticky in nature	28352
5	Silt clay loam	Porous, aerated and high water & nutrient retention capacity as well as sticky in nature	18357
6	Clay loam	Highly porous, well aerated and high water &nutrient retention capacity as well as sticky in nature	8725
7	Silt clay	Highly porous, well aerated and high water &nutrient retention capacity as well as sticky in nature	4526
		Total	199715

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

S. No	Crop	Area (ha)	Production (mt)	Productivity (Qtl /ha)
A	FIELD CROPS INCLUDING OIL SEEDS AND PULSES			
Kharif				
1	Paddy	52020	935200	20.42
2	Maize	112	27790	10.99
3	Bajra	1501	13790	14.68
4	Jowar	2116	14240	12.04
5	Coarse Grain	821	330	8.32
6	Urd	9342	30800	3.92
7	Moong	114	290	4.39
8	Arhar	795	28940	8.06
9	Groundnut	94	1150	8.56
10	Til	796	2110	1.95
Rabi				
1	Wheat	81884	194437	27.31
2	Jau (Barley)	190	534	18.97
3	Gram	1010	2090	11.93
4	Pea	767	3712	7.86
5	Lentil	1777	323	8.27
6	Rai /Masturd	4005	2242	10.43
7	Alsi	1	4	4.5
B	Horticultural Crops			
1	Mango	22000	2000000	10
2	Guava	550	11000	20
3	Banana and papaya	135	2800	30
4	Potato	4396	7232.30	164.52
	Vegetable Pea	2547	1655.60	65.0
6.	Bottel Gourd	1500	15000	10
7.	Pumpkin	900	30000	30
8.	Bitter Gourd	1500	22500	15
9.	Onion	3000	61750	20
10.	Cauliflower/ cabbage	825	24750	30
11.	Chilli	200	500	25

2.5 Priority/ Thrust Areas

S.N.	Thrust area
1.	Maintenance of soil productivity through crop residue management, green manuring, biofertilizer, vermicomposting.
2.	Maintenance of soil productivity through integrated nutrient management in paddy-wheat rotation
3.	Quality seed production
4.	Diversification of cereal based farming system with incorporation of Fodder, oilseed, pulses and horticultural crops
5.	Balance use of fertilizers with popularizing bio-fertilizer & seed treatment.
6.	Commercial green fodder production and fodder seed production.
7.	Integrated pest management in horticultural crops.
8.	Improving the nutritional status of school going children and farm women.
9.	Improving health of potato seed stocks at farmers field, using seed plot technique
10.	Introduction of processing varieties of potato for quality aspects (Chips, French fries and Aloo ki bhujia & papar)
11.	Improving health of mango orchard and quality parameters
12.	Introduction of high yielding varieties of vegetable pea and okra
13.	Drudgery reduction in farm women using small and improved agricultural equipments.
14.	Value addition and processing of fruits and vegetables.
15.	Integrated cattle management in milch animals through Vaccination against H.S., B.Q. , FMD. Diseases ,deworming and supplementation of mineral mixture.

3 .TECHNICAL PROGRAMME

3. A. Details of targeted mandatory activities by KVK during 2018-19:

OFT		FLD			
No. of OFTs	No. of Farmers	Crops		Livestock	
		Area (ha)	No. of Farmers	No. of unit	No. of Farmers
8	33	60	364	415 (FarmFamilies)	2050(Animals)
Training		Extension Activities			
No. of Courses	No. of Participants	No. of activities		No. of participants	
100	1960	635		4000	
Vegetables Planting material (Nos.) 50000		Hybrid Napier 3000 root slips			

3.1 ON FARM TRIALS

OFT-1

Particulars	Contents
Title	Integrated nutrient management in potato
Problem diagnosed	Excess and imbalance use of plant nutrient without soil test
Micro farming situation	Irrigated
Details of technology identified for solution	T1- Farmers Practices (250:172:180 kg/ha NPK without soil test) T2- Soil test based dose of NPK Zn + Green Manuring
No. of farmer	5
Replication	4
Critical inputs	Fertilizer and Dhaincha seed
Production system	Integrated nutrient management
Source of technology	ICAR-CPRI, Shimla
Total Cost	Rs. 10000/-
Observation to be recorded	Soil testing, yield and C:B ratio
Reaction of the farmers	Technology acceptability/rejection

OFT-2

Particulars	Contents
Title	Intercropping in mango orchard
Problem diagnosed	<i>Farmers generally grow mango as sole crop which have not used interspace between mango trees</i>
Micro farming situation	Irrigated
Details of technology identified for solution	T ₁ -Farmers Practices T ₂ - Mango Orchard + Elephant foot yam/Colocasia/Turmeric
No. of farmers	5
Replications	4
Critical inputs	Planting material of intercrops
Production system	Integrated crop management
Source of technology	ICAR-CISH, Lucknow
Total Cost	Rs.20000/-
Observation to be recorded	Yield of intercrops, mango and B:C ratio
Reaction of the farmers	Technology acceptability/rejection

OFT-3

Particulars	Contents
Title	Increase self life of potato at house hold level.
Problem diagnosed	Small and marginal farmers of Lucknow district generally store potato at house hold level but they have not store at long time due to rotting in summer.

Micro farming situation	Irrigated
Details of technology identified for solution	T ₁ -Farmers Practices-Storage of potato in gunny bag/in heap. T ₂ - Spray of growth regulator(CIPC)
No. of farmers	3
Replications	3
Critical inputs	Growth regulator(CIPC)
Production system	ICAR-CPRI, Shimla
Source of technology	Rs.3000.00
Total Cost	Percent reduction in rotting, Self life(days) Production (q/ha) and C:B ratio

OFT-4

Particulars	Contents
Title	Effect of CSIR-Bio in potato crop.
Problem diagnosed	Injudicious use of inorganic fertilizer in potato crop, which reduces soil fertility and degrade microbial consortia present in soil.
Micro farming situation	Irrigation
Details of technology identified for solution	T ₁ -Farmers Practices- Injudicious use of inorganic fertilizer T ₂ - Use of CSIR-Bio
No. of farmers	3
Replications	CSIR-Bio
Critical inputs	Integrated crop management
Production system	ICAR-CSSRI, Karnal
Source of technology	Rs. 4000.00
Total Cost	1. Yield and C:B ratio
Observation to be recorded	Technology acceptability/rejection
Reaction of the farmers	Effect of CSIR-Bio in potato crop.

OFT-5

Particulars	Contents
Title	Management of stem borer in mango crop
Problem diagnosed	Incidence of stem borer in mango check their growth and also reduce yield
Micro farming situation	Irrigated
Details of technology identified for solution	T ₁ - Farmers Practices-No management T ₂ - Painting of sealer cum healer
No. of farmers	3
Critical inputs	sealer cum healer chemical
Source of technology	ICAR-Indian Institute of Horticultural Research, Bangaluru
Total Cost	2000.0
Observation to be recorded	1. Yield and C:B ratio, 2.Perscent incidence of stem borer
Reaction of the farmers	Technology acceptability/rejection

OFT-6

Particulars	Contents
Title	Use of hand wheel hoe for weed management.
Problem diagnosed	Farm women / farmers have weeding through hoe due to which reduction in drudgery.
Micro farming situation	Irrigated
Details of technology identified for solution	T ₁ - Farmer Practice-Use of hoe for weeding T ₂ - Use of hand wheel hoe for weeding
No. of farmers	3
Replications	Hand wheel hoe
Critical inputs	Drudgery Reduction
Production system	ICAR-CIAE, Bhopal
Source of technology	Rs.6000.00
Total Cost	Use of hand wheel hoe for weed management.

OFT-7

Particulars	Contents
Title	Performance evaluation of milk production through by pass protein supplementation to lactating cows.
Problem diagnosed	Protein deficiencies in lactating cows may increase the incidence of silent heat and lower conception rate while at the same time decreasing feed intake and milk production.
Micro farming situation	Irrigated
Details of technology identified for solution	T ₁ - Farmers Practices - locally available ration T ₂ Readymade cattle feed T ₃ - Protected protein
Stage of animal	Post calving stage
No. of farmers	05
Critical inputs	Cattle feed , protected protein
Production system	Dairy farm Management
Source of technology	IVRI, Izzatnagar
Total Cost	3000=00 approximate
Experimental period	120 days
Observation to be recorded	1.Milk production 2.Estrus cycle 3.Cost saving & quantity saving on concentrate feeding
Reaction of the farmers	Technology acceptability / rejection

OFT-8

Particulars	Contents
Title	Performance of UMMB supplementation to maintain milk yield in cows.
Problem diagnosed	Animals fed on poor quality crop residues, deficient in nitrogen, minerals and vitamins due to that infertility and low milk yield problems occurs.
Micro farming situation	Irrigated
Details of technology identified for solution	T ₁ - Farmers Practices - locally available ration T ₂ Readymade cattle feed T ₃ - UMMB
Stage of animal	Lactating cows (on 2 nd or 3 rd calving)
No. of farmers	05
Critical inputs	Wheat bran, Molasses, ,Cement, Mineral Mixture, Common salt and Vitamin A & D ₃
Production system	Dairy farm Management
Source of technology	IVRI, Izzatnagar
Total Cost	8000=00 approximate
Experimental period	120 days
Observation to be recorded	Milk production Conception rate Estrus cycle
Reaction of the farmers	Technology acceptability / rejection

3.2 Frontline Demonstrations

- A. Details of FLDs to be organized (Information is to be furnished in the following **three tables** for each category i.e. cereals, horticultural crops, oilseeds and pulses commercial crops.)

3.2.1. Oilseeds and pulses

Sl. No.	Crop/variety	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/demonstration	Parameters identified Yield/Profit/Other technological parameters
1.	Mustard	ICM	Performance of improved variety-Jagriti/Pitambari	Seed, Fertilizer, And Sulfur	Rabi 2018-19	3	15	Yield/Profit/Other technological parameters
2.	Mustard	IPM	Spray of Thayomethoxam 25WG for the	Insecticide-Thayomethoxam 25WG(0.2gm./lit.)	Rabi 2018-19	2	5	Yield/Profit/Other technological parameters

			management of aphid					
3.	Field pea	ICM	Performance of improved variety-KPMR-0522/IPF4-9/IPF5-19	Seed and Fertilizer	Rabi 2018-19	5	20	Yield/Profit/Other technological parameters
4.	Pegion pea	IPM	Management of pod borer	Biopesticide- <i>Bacillus thurengensis</i> (BT)1.0gm/l t.	Kharif 2018	2	5	Yield/Profit/Other technological parameters

3.2.2 Other than oilseeds and pulses

Sl. No.	Crop/variety	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/demonstration	Parameters identified Yield/Profit/Other technological parameters
1.	Paddy	ICM	Performance of improved variety	Seed Fertilizer & micro nutrient	Kharif 2018	7	15	Yield/Profit/Other technological parameters
2.	Paddy	IPM	Pheromone traps with Flubenzamide24 WG(0.4 gm/lit.) for the management of stem borer	Pheromone traps and Spray of Flubenzamide24 WG	Kharif 2018	4	10	Yield/Profit/Other technological parameters
3.	Wheat	ICM	Performance of improved	Seed and fertilizer	Rabi 2018-19	5	10	Yield/Profit/Other technological parameters

3.2.3 Horticultural crop

Sl. No.	Crop/variety	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/demonstration	Parameters identified Yield/Profit/Other technological parameters
1.	Banana	ICM	Popularization of Banana Shakthi (Micronutrient Mixture)	Banana Shakthi	2018-19	1	5	Yield/Profit/ Other technological parameters
2.	Cowpea	ICM	Popularization of Improved Variety (Kashi Nidhi)	Seed	Kharif 2018-19	1	5	Yield/Profit/ Other technological parameters
3.	Banana	ICM	Popularization of Bunch cover	Bunch covering polythene	2018-19	1	5	Yield/Profit/ Other technological parameters

4.	Onion	ICM	Popularization of Kharif onion(Bhima Shakti/ Agrifound dark red)	Seed	Kharif 2018-19	1	5	Yield/Profit/ Other technological parameters
5.	Vegetable pea	ICM	Popularization of improved variety (Kashi Uday)	Seed	Rabi 2018-19	1	5	Yield/Profit/ Other technological parameters
6.	Tomato	ICM	Popularization of hybrid variety (Arka Rakshak)	Seed	Rabi 2018-19	1	10	Yield/Profit/ Other technological parameters
7.	Broccoli	Exotic vegetable	Popularization of exotic vegetable	Seed	Rabi 2018-19	1	5	Yield/Profit/ Other technological parameters
8.	Red Cabbage	Exotic vegetable	Popularization of exotic vegetable	Seed	Rabi 2018-19	0.5	5	Yield/Profit/ Other technological parameters
9.	Pak Choi	Exotic vegetable	Popularization of exotic vegetable	Seed	Rabi 2018-19	0.5	5	Yield/Profit/ Other technological parameters
10.	Iceberg	Exotic vegetable	Popularization of exotic vegetable	Seed	Rabi 2018-19	0.5	5	Yield/Profit/ Other technological parameters
11.	Lettuce	Exotic vegetable	Popularization of exotic vegetable	Seed	Rabi 2018-19	0.5	5	Yield/Profit/ Other technological parameters
12.	Onion	ICM	Popularization of improved variety (Bhima Kiran/ Agrifound Light Red)	Seed	Rabi 2018-19	1	10	Yield/Profit/ Other technological parameters
13.	Potato	IPM	IPM	Aciphate 75 SP (1.0 gm/lit.) & Propineb 70 WP (4gm./lit.)	Rabi 2018-19	2	5	Yield/Profit/ Other technological parameters
14.	Mango	IPM	Mgt. of leaf Webber	Lamda Cyhalothrin 5 EC (1 ml/lit)	Kharif 2018	2	5	Yield/Profit/ Other technological parameters
15.		IPM	Mgt. of fruit fly	Fruit fly traps	Kharif 2018	2	5	Yield/Profit/ Other technological parameters
16.	Cucurbits	IPM	Management of fruit fly(10/ha.) through fruit fly trap	Fruit Fly Traps	Zaid 2019	2	5	Yield/Profit/ Other technological parameters

3.2.4 Fodder crops

Sl. No.	Crop/ variety	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified Yield/Profit/Other technological parameters
1.	Sweet sorghum	Feed & fodder	Performance of improved variety CSH22SS	Seed	Kharif 2018	5	14	Yield/Profit/Other technological parameters
2.	Sugarbeet	Feed & fodder	Performance of improved (LS-6)	Seed	Rabi 2018-19	2	15	Yield/Profit/Other technological parameters
3.	Berseem	Feed & fodder	Performance of improved variety JHB-146, BB1,2	Seed and <i>Rhizobium</i> culture	Rabi 2018-19	10	50	Yield/Profit/Other technological parameters
4	Production of perennial grasses	Feed & fodder	Performance of improved variety Naipayar/Dhawalo	Slips of different grasses	Kharif 2018	1	25	Availability round the year

3.2.5 FLD on Other enterprises

Category	Name of the technology demonstrated	No. of Farmer	No. of units	Major parameters	
				Demo	Check
Value Addition	Value addition of mango pickle	10	10		
	Value addition of mango powder	10	10		
Apiculture	Use of pollen collector	5	5	Yield	-

3.2.6 FLD on Women Empowerment

Category	Name of technology	No. of demonstrations	Name of observations	Demonstration	Check
Rug making	Use of waist material for rug making	10	Time Utilization Waist material utilization No. of items prepared		

B. Extension and Training activities under FLD

Sl. No.	Activity	No. of activities To be organize	Month	Number of Participants
1	Field days	2	Aug. and Feb.	50
2	Farmers Training	3	July, Oct. & Dec.	60
3	Media coverage			
4	Training for extension functionaries			

C. Details of FLD on Enterprises

(i) Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical input	Performance parameters / Indicators
Vaccination		250	1000	Raksha Tribac vaccine	Incidence of diseases
Deworming in lactating animals		250	1000	Albendazole	Increase in milk yield
Production of UMMB		5	50	UMM & vet.'s	Increase in milk yield
Area Specific Mineral Mixture		50	150	Mineral Mixture	Increase in milk yield

Training (Including the sponsored and FLD training programmes):

A) ON Campus

Thematic Area	No. of Courses	No. of Participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women								
I. Crop Production								
Integrated cropping system								
Seed production								
Nursery management								
Water management								
II. Horticulture								
a) Vegetable Crops								
Prod. of low volume and high value crops								
Nursery raising								
Protected cultivation								
b) Fruits								
Layout and management of orchard								
III. Livestock Production and Management								
Dairy management								
Disease management								
Feed management								
Production of quality animal products								
IV. Home Science/Women empowerment								
Rural craft								
Storage loss minimization techniques								
Value addition								
V. Plant Protection								
Integrated Pest Management								
Integrated Disease Management								
Bio control of pest and diseases								
VI. Capacity Building and Group Dynamics/ Agril. Extn.								
Formation and management of SHGs								
Group dynamics								
Importance of planning of crops								
TOTAL(A)								
(B) RURAL YOUTH								
Seed production								
Training and pruning of orchard								
Mushroom production								
Poultry production								
Sheep and goat rearing								
Value addition								
Employment generation								
Income generation								
TOTAL(B)								
(C) Extension Personnel								
Cropping Systems	1	15		15	5		5	20
Integrated Pest Management	1	15		15	5		5	20
Mushroom production								
Rejuvenation of old orchard								
Protected cultivation technology								
Formation and management of SHGs								
Information networking among farmers								
Management in farm animals								
Livestock feed and fodder production	1	15		15	5		5	20
Women and child care	1		15	15		5	5	20
Entrepreneurship	1	15		15	5		5	20
TOTAL(C)	4	60	15	75	20	5	25	100
TOTAL(C)	4	60	15	75	20	5	25	100
TOTAL(A+B+C)								

OFF Campus:

Thematic Area	No. of Courses	No. of Participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women								
I. Crop Production								
Cropping systems								
Weed Management								
Seed production								
Resource Conservation Technologies								
Irrigation/Micro Irrigation								
Integrated Nutrient Management								
Integrated Crop Management	3	45	-	45	15	-	15	60
Nursery management								
Water management								
Others								
Total	3	45	-	45	15	-	15	60
II. Soil Health and Fertility Mng.								
Soil and water testing								
	1	15		15	5		5	20
Others								
Total	1	15		15	5		5	20
III. Horticulture								
a) Vegetable Crops								
Prod. of low volume and high value crops	2	30	-	30	10	-	10	40
Off season vegetables	1	15		15	5		5	20
Nursery raising	1	15		15	5		5	20
Protected cultivation	1	15		15	5		5	20
Exotic vegetables	1	15		15	5		5	20
Others	4	60		60	20		20	80
b) Fruits								
Layout and management of orchard	1	15		15	5		5	20
Cultivation of fruit	1	15		15	5		5	20
Management of young plants/ orchards	1	15		15	5		5	20
Others	2	30	-	30	10	-	10	40
c) Ornamental Plants								
Nursery Management								
Management of potted plant								
Others	2	30	-	30	10	-	10	40
d) Tuber Crops								
Production and management technology	1	15		15	5		5	20
Processing and value addition								
e) Spices								
Production and management technology	1	15		15	5		5	20
Processing and value addition								
Other								
f) Medicinal and aromatic plants								
Nursery Management								
Production and management technology	1	15		15	5		5	20
Total	20	300		300	100		100	400
IV. Livestock Production and Management								
Dairy Management	2	30	-	30	10	-	10	40
Piggery Management	1	15		15	5		5	20
Disease Management	7	105	-	105	35	-	35	140
Feed & fodder technology	4	60	-	60	20	-	20	80
Animal Nutrition Management	4	60		60	20		20	80
Production of quality animal products								
other	1	15		15	5		5	20
Total	19	285		285	95		95	380
V. Home Science/Women empowerment								
Rural craft								

Household food security by kitchen gardening and nutrition gardening	2	-	30	30	-	10	10	40
Design and development of low/ minimum cost diet								
Designing and development for high nutrient efficiency diet	3	-	45	45	-	15	15	60
Storage loss minimization techniques	3	-	45	45	-	15	15	60
Location specific drudgery reduction technologies	1							
Value addition	5	-	75	75	-	25	25	100
Women & Child Care	3	-	45	45	-	15	15	60
Drudgery Reduction	1	-	15	15	-	5	5	20
Food Adulteration	1	-	15	15	-	5	5	20
others	1	-	15	15	-	5	5	20
Total	20	-	300	300	-	100	100	400
VI. Plant Protection								
Integrated Pest Management	14	210	-	210	70	-	70	280
Integrated Disease Management	4	60	-	60	20	-	20	80
Bio control of pest and diseases								
others	2	30	-	30	10	-	10	40
Total	20	300		300	100		100	400
VII. Production of Inputs at site								
Seed Production								
Vermicompost Production	1	15	-	15	5	-	5	20
Biopesticides Production								
Capacity Building								
Group Dynamics	3	45	-	45	15	-	15	60
Entrepreneurship	4	60	-	60	20	-	20	80
Skill Development	2	30	-	30	10	-	10	40
Total	9	135	-	135	45	-	45	180
TOTAL(A)	92	1080	300	1380	360	100	460	1840
(B) RURAL YOUTH								
Seed production								
Training and pruning of orchard								
Mushroom production	1	15	-	15	5	-	5	20
Vermi compost	1	15	-	15	5	-	5	20
Sheep and goat rearing								
Value addition								
Employment generation								
Income generation	2	15	15	30	5	5	10	40
TOTAL(B)	4	45	15	60	15	5	20	80
(C) Extension Personnel								
Productivity enhancement in field crops								
Integrated Pest Management								
Mushroom production								
Rejuvenation of old orchard								
Livestock feed and fodder production								
Women and child care								
TOTAL(A+B+C)	96	1125	315	1440	375	105	480	1920

B) Consolidated table (ON and OFF Campus)

Thematic Area	No. of Courses	No. of Participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women								
I. Crop Production								
Cropping systems								
Weed Management								
Seed production								
Resource Conservation Technologies								
Irrigation/Micro Irrigation								
Integrated Nutrient Management								
Integrated Crop Management	3	45	-	45	15	-	15	60

Nursery management								
Water management								
Others								
Total	3	45	-	45	15	-	15	60
II. Soil Health and Fertility Mng.								
Soil and water testing								
	1	15		15	5		5	20
Others								
Total	1	15		15	5		5	20
III. Horticulture								
a) Vegetable Crops								
Prod. of low volume and high value crops	2	30	-	30	10	-	10	40
Off season vegetables	1	15		15	5		5	20
Nursery raising	1	15		15	5		5	20
Protected cultivation	1	15		15	5		5	20
Exotic vegetables	1	15		15	5		5	20
Others	4	60		60	20		20	80
b) Fruits								
Layout and management of orchard	1	15		15	5		5	20
Cultivation of fruit	1	15		15	5		5	20
Management of young plants/ orchards	1	15		15	5		5	20
Others	2	30	-	30	10	-	10	40
c) Ornamental Plants								
Nursery Management								
Management of potted plant								
Others	2	30	-	30	10	-	10	40
d)Tuber Crops								
Production and management technology	1	15		15	5		5	20
Processing and value addition								
Other								
e) Spices								
Production and management technology	1	15		15	5		5	20
Processing and value addition								
Other								
f) Meditational and aromatic plants								
Nursery Management								
Production and management technology	1	15		15	5		5	20
Total	20	300		300	100		100	400
IV. Livestock Production and Management								
Dairy Management	3	40	-	40	20	-	20	60
Piggery Management	1	15		15	5		5	20
Disease Management	7	105	-	105	35	-	35	140
Feed & fodder technology	4	60	-	60	20	-	20	80
Animal Nutrition Management	4	60		60	20		20	80
Production of quality animal products								
other	1	15		15	5		5	20
Total	20	205		205	195		195	400
V. Home Science/Women empowerment								
Rural craft								
Household food security by kitchen gardening and nutrition gardening	2	-	30	30	-	10	10	40
Design and development of low/ minimum cost diet								
Designing and development for high nutrient efficiency diet	3	-	45	45	-	15	15	60
Storage loss minimization techniques	3	-	45	45	-	15	15	60
Location specific drudgery reduction technologies	1							
Value addition	5	-	75	75	-	25	25	100
Women & Child Care	3	-	45	45	-	15	15	60
Drudgery Reduction	1	-	15	15	-	5	5	20
Food Adulteration	1	-	15	15	-	5	5	20
others	1	-	15	15	-	5	5	20

Total	20	-	300	300	-	100	100	400
VI. Plant Protection								
Integrated Pest Management	14	210	-	210	70	-	70	280
Integrated Disease Management	4	60	-	60	20	-	20	80
Bio control of pest and diseases								
others	2	30	-	30	10	-	10	40
Total	20	300		300	100		100	400
VII. Production of Inputs at site								
Seed Production								
Vermicompost Production	1	15	-	15	5	-	5	20
Biopesticides Production								
Capacity Building								
Group Dynamics	3	45	-	45	15	-	15	60
Entrepreneurship	4	60	-	60	20	-	20	80
Skill Development	2	30	-	30	10	-	10	40
Total	9	135	-	135	45	-	45	180
TOTAL(A)	92	1080	300	1380	360	100	460	1840
(B) RURAL YOUTH								
Seed production								
Training and pruning of orchard								
Mushroom production	1	10	-	10	-	-	-	10
Poultry production	1	10	-	10	-	-	-	10
Sheep and goat rearing								
Value addition								
Employment generation								
Income generation	2	10	10	20	-	-	-	10
TOTAL(B)	4	30	10	40	-	-	-	30
(C) Extension Personnel								
Cropping Systems	1	15		15	5		5	20
Integrated Pest Management	1	15		15	5		5	20
Mushroom production								
Rejuvenation of old orchard								
Protected cultivation technology								
Formation and management of SHGs								
Information networking among farmers								
Management in farm animals								
Livestock feed and fodder production	1	15		15	5		5	20
Women and child care	1		15	15		5	5	20
TOTAL(C)	4	45	15	60	15	5	20	80
TOTAL(A+B+C)	100	1155	325	1480	375	105	480	1960

Details of training programmes (April 2018 to March 2019)

(1) Farmers & Farm women

Home Science

Title of the training programme	Duration in days	Venue (Of f / On Campus)	Number of participants			Number of SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Management of kitchen gardening	1	Off Campus	15	-	15	5	-	5	20
Method of preservation	1	Off Campus	15	-	15	5	-	5	20
Drudgery reduction in farm women through application of improved agriculture implements	1	Off Campus	15	-	15	5	-	5	20
Value added product of tomato	1	Off Campus	15	-	15	5	-	5	20
Preparation of mango	1	Off Campus	15	-	15	5	-	5	20

squash									
Health & Sanitation	1	Off Campus	15	-	15	5	-	5	20
Immunization of child	1	Off Campus	15	-	15	5	-	5	20
Balance diet for children	1	Off Campus	15	-	15	5	-	5	20
Balance diet for lactating women	1	Off Campus	15	-	15	5	-	5	20
Immunization of child	1	Off Campus	15	-	15	5	-	5	20
Sanitation and Health	1	Off Campus	15	-	15	5	-	5	20
Scientific storage of paddy	1	Off Campus	15	-	15	5	-	5	20
Methods for preparation of weaning foods	1	Off Campus	15	-	15	5	-	5	20
Food adulteration	1	Off Campus	15	-	15	5	-	5	20
Balance diet for children	1	Off Campus	15	-	15	5	-	5	20
Cause and cure of nutritional deficiency diseases	1	Off Campus	15	-	15	5	-	5	20
Value added product of potato	1	Off Campus	15	-	15	5	-	5	20
Precautions in use of chemical	1	Off Campus	15	-	15	5	-	5	20
Value addition of lemon	1	Off Campus	15	-	15	5	-	5	20
Management of kitchen garden	1	Off Campus	15	-	15	5	-	5	20

(1) Farmers & Farm women

Horticulture

Title of the training programme	Duration in days	Venue (Off / On Campus)	Number of participants			Number of SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Scientific cultivation of cauliflower	1	Off Campus	15	-	15	5	-	5	20
Vegetable nursery management	1	Off Campus	15	-	15	5	-	5	20
Seed production technology of potato (Seed Plot Technique)	1	Off Campus	15	-	15	5	-	5	20
Intercropping of Elephant foot Yam in mango orchard	1	Off Campus	15	-	15	5	-	5	20
Integrated nutrient management in vegetables	1	Off Campus	15	-	15	5	-	5	20
Protected cultivation of high value vegetables	1	Off Campus	15	-	15	5	-	5	20

Off season cultivation of cucurbits	1	Off Campus	15	-	15	5	-	5	20
Scientific cultivation of papaya	1	Off Campus	15	-	15	5	-	5	20
INM in banana	1	Off Campus	15	-	15	5	-	5	20
Commercial cultivation of vegetable pea	1	Off Campus	15	-	15	5	-	5	20
Commercial cultivation of okra	1	Off Campus	15	-	15	5	-	5	20
Commercial cultivation of marigold	1	Off Campus	15	-	15	5	-	5	20
Commercial cultivation of gladiolus	1	Off Campus	15	-	15	5	-	5	20
Scientific cultivation of onion and garlic	1	Off Campus	15	-	15	5	-	5	20
Canopy management of mango orchard	1	Off Campus	15	-	15	5	-	5	20
Commercial cultivation of exotic vegetables	1	Off Campus	15	-	15	5	-	5	20
Mulching in vegetable crops	1	Off Campus	15	-	15	5	-	5	20
Micro irrigation in vegetable crops	1	Off Campus	15	-	15	5	-	5	20
Cultivation of medicinal and aromatic crops	1	Off Campus	15	-	15	5	-	5	20
HDP of Guava orchard	1	Off Campus	15	-	15	5	-	5	20

(1) Farmers & Farm women

Plant Protection

Title of the training programme	Duration in days	Venue (Of f / On Campus)	Number of participants			Number of SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
IPM in okra	1	Off Campus	15	-	15	5	-	5	20
Soil Solarization for healthy nursery	1	Off Campus	15	-	15	5	-	5	20
IPM in tomato	1	Off Campus	15	-	15	5	-	5	20
Management of fruit fly in mango	1	Off Campus	15	-	15	5	-	5	20
IPM in urd & lentil	1	Off Campus	15	-	15	5	-	5	20
INM in paddy crop	1	Off Campus	15	-	15	5	-	5	20

Wilt management in pigeon pea	1	Off Campus	15	-	15	5	-	5	20
Pest Management of vegetable nursery	1	Off Campus	15	-	15	5	-	5	20
Use of bioagents for disease management in vegetable crop	1	Off Campus	15	-	15	5	-	5	20
IPM in brinjal crop	1	Off Campus	15	-	15	5	-	5	20
Pod borer management in pigeonpea	1	Off Campus	15	-	15	5	-	5	20
IPM in paddy crop	1	Off Campus	15	-	15	5	-	5	20
Disease management in vegetable pea	1	Off Campus	15	-	15	5	-	5	20
IPM in mustard crop	1	Off Campus	15	-	15	5	-	5	20
IPM in cole crop	1	Off Campus	15	-	15	5	-	5	20
IPM in potato crop	1	Off Campus	15	-	15	5	-	5	20
IDM in onion and garlic	1	Off Campus	15	-	15	5	-	5	20
IPM in mango	1	Off Campus	15	-	15	5	-	5	20
IPM in banana	1	Off Campus	15	-	15	5	-	5	20
Management of fruit fly in cucurbits	1	Off Campus	15	-	15	5	-	5	20

Live Stock:

Balance ration for lactating animal	1	Off Campus	15	-	15	5	-	5	20
Management of HS & FMD disease in livestock	1	Off Campus	15	-	15	5	-	5	20
Production of sugar rich green fodder throughout the year	1	Off Campus	15	-	15	5	-	5	20
Preparation of silage from hybrid napier	1	Off Campus	15	-	15	5	-	5	20
Management for dairy establishment	1	Off Campus	15	-	15	5	-	5	20
Production of perennial grasses	1	Off Campus	15	-	15	5	-	5	20
Management of mastitis disease in milch animal	1	Off Campus	15	-	15	5	-	5	20
Balance diet for lactating women	1	Off Campus	15	-	15	5	-	5	20
Production and management of green fodder round the year	1	Off Campus	15	-	15	5	-	5	20
Goat farming for small and marginal farmer	1	Off Campus	15	-	15	5	-	5	20
Management of mortality in buffalo calf	1	Off Campus	15	-	15	5	-	5	20
Vermicompost production	1	Off	15	-	15	5	-	5	20

through different crop residues		Campus							
Preparation of hay and silage in scarcity period	1	Off Campus	15	-	15	5	-	5	20
Management of milk production	1	Off Campus	15	-	15	5	-	5	20
Pig farming for small farmers	1	Off Campus	15	-	15	5	-	5	20
Fodder crop rotation for availability of green fodder round the year	1	Off Campus	15	-	15	5	-	5	20
Management of infertility in dairy animal	1	Off Campus	15	-	15	5	-	5	20
Management of ecto and endo parasite in dairy animal	1	Off Campus	15	-	15	5	-	5	20
Balance ration for lactating animal	1	Off Campus	15	-	15	5	-	5	20
Management of infertility in dairy animal	1	On Campus	15	-	15	5	-	5	20

(2) Vocational training programmes for Rural Youth

Crop / Enterprise	Identified Thrust Area	Training title*	Duration (days)	No. of Participants			SC/ST participants			Grand Total
				M	F	Total	M	F	Total	
UMMB	UMMB	Establishment of vermicompost unit and their management	6	7	-	7	3	-	3	10
Mushroom Production	Mushroom	Production of button mushroom	5	6	-	6	4	-	4	10
Horticultural crops	Seed Production	Commercial nursery production	5	7	-	7	3	-	3	10
Income Generation		Traditional Embroidery	5	-	6	6	-	4	4	10

iii) Training programme for extension functionaries

Clientele	Title of the training programme	Duration in days	Venue (Of f / On Campus)	Number of participants			Number of SC/ST			Grand Total
				Male	Female	Total	Male	Female	Total	
Aaganwari worker	Nutritional management of children	1	On Campus	-	14	14	-	6	6	20
ADO agri./BTM	IPM in important crop	1	On Campus	16	-	16	4	-	4	20
Live Stocks Extension Officers	Production of green fodder throughout the year	1	On Campus	14	-	14	6	-	6	20
Horticulture Inspector/	Horticulture based	1	On Campus	14	-	14	6	-	6	20

BTM	integrated farming system									
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3.4. Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	4									
Kisan Ghosthi	4									
Kisan Mela	1									
Film Show	20									
Method Demonstrations	5									
Group meetings	3									
Newspaper coverage	10									
Radio talks	5									
TV talks	5									
Popular articles	8									
Advisory Services	120									
Scientific visit to farmers field	150									
Farmers visit to KVK	300									
Self Help Group Conveners meetings	1									
Animal health /vaccination camp	1									
Total	635									

3.5 Target for Production and supply of Technological products April 2018 to March 2019

Seed

Sl. No	Crop	Variety*	Qty targeted (q)	Season
A	Cereals			
1	Wheat			
D	Vegetables			
1	Potato			
2	Vegetable Pea			
3	Cole Crop			
E	Fodder Crops			
1	Sorghum	CSH22SS	25.0	Kharif
2	Barseem	BB-2	35.0	Rabi
3	Hy. Naipayar		30.0	Round the year
4	Dhawaloo		25.0	Round the year

Planting materials : 50000

Hybrid napier root slips : 3000

3.6. Literature to be Developed/Published

(A) KVK News Letter (Date of start, Periodicity, number of copies to be published etc.)- Yet to be come

(B) Literature to be developed /published

Item	Number of copies
Research papers	4
Technical reports	5
Technical bulletins	2
Popular articles	8
TOTAL	19