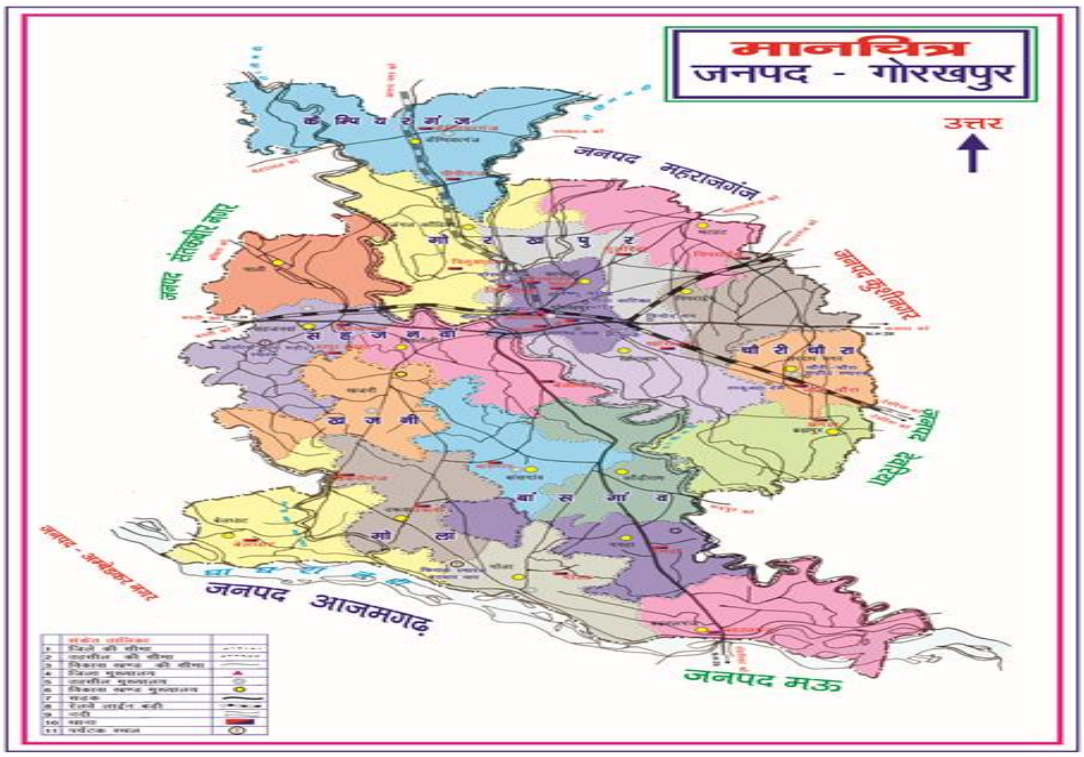
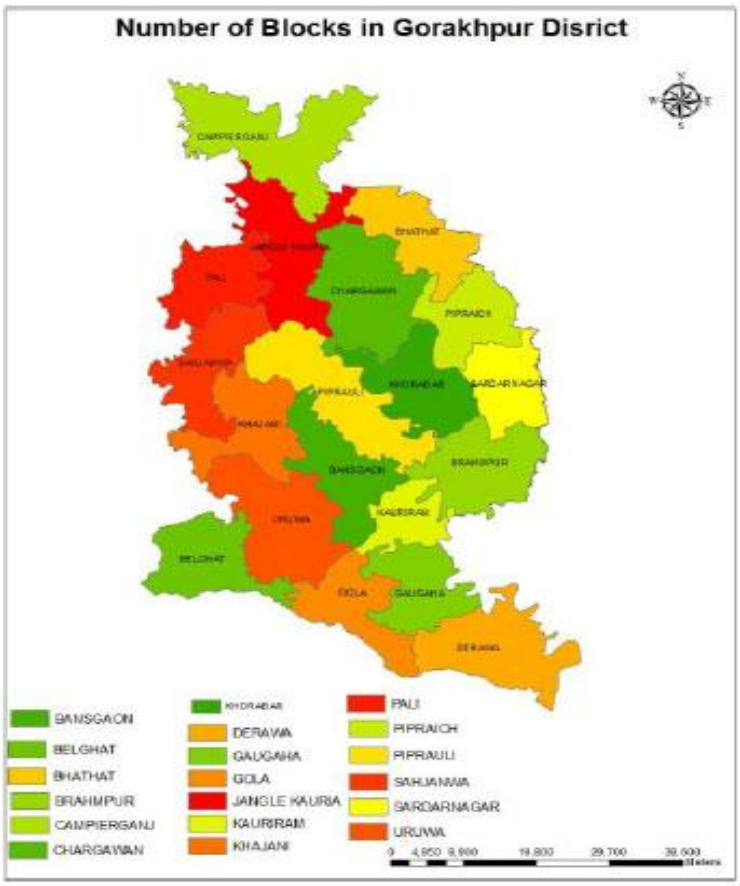
Mahayogi Gorakhnath Krishi Vigyan Kendra
Chaukmafi (Peppeganj) Jangal Kaudia,
Gorakhpur-273165 (UP)

Action Plan

2020-21

Submitted
in
Mid-Term Review Workshop of KVKs
To be held at
ICAR-ATARI, Kanpur, Uttar Pradesh
Dated: 25-26 Nov., 2019





Operational Area of the MGKVK, Gorakhpur

Tehsil		Block
1.	Campierganj	Jungle Kaudia
2.	Campierganj	Campierganj
3.	Sadar	Bhathat
4.	Sahjanwa	Pali
5.	Sadar	Chargawan
6.	Sadar	Pipraich
7.	Chauri Chaura	Sadar Nagar
8.	Sadar	Khorabar
9	Sahjanwa	Sahjanwa

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DETAILS OF ACTION PLAN

(April, 2020 to March, 2021)

KVK: Gorakhpur-II

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E-mail	Website
	Office	Fax		
MahayogiGorakhnath Krishi Vigyan Kendra, Chauk Mafi (Peppeganj), JangalKaudia, Gorakhpur, (U.P.)	0551-2255453 2255454	0551-2255455	gorakhpurkvk2@gmail.com	www.mgkvk.in

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

Address	Telephone		E-mail
	Office	FAX	
Guru GorakshnathSewaSanthan, Sri Gorakhnath Mandir, Gorakhpur	**0551-2255453, 54**	**0551-2255455**	gorakhpurkvk2@gmail.com

1.2.b. Status of KVK website: Yes

1.2.c. No. of Visitors (Hits) to your KVK website (as on today):

1.2.d Status of ICT lab at your KVK :

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

Name	Telephone / Contact		
	Residence	Mobile	E-mail
Dr. Rajendra Pratap Singh	-	9532460717 9648448405	gorakhpurkvk2@gmail.com

1.4. Year of sanction:2016

1.5. Staff Position**(As on 31 May-2017)**

Sl. No.	Sanctioned Post	Name of the Incumbent	Designation	Discipline	Pay Scale (Rs.)	Grade Pay	Present Basic Pay	Date of Joining	Permanent / Temporary	Cat.	Mobile	E-mail	Photo
1.	Sr. Scientist and Head	Dr. Rajendra Pratap Singh	Sr. Scientist and Head	Plant Pathology	37400-67000	9000	-	26/05/2017	Temporary	Others	9648448405 9532460717	rpskvk.22@gmail.com	
2.	SMS	Dr. Vivek Pratap Singh	SMS	Animal Science	15600-39100	5400		31.07.2017	Temporary		9415745095	vpslpm@gmail.com	
3.	SMS	Dr. Ajit Kumar Srivastava	SMS	Horticulture	15600-39100	5400		01.08.2017	Temporary		8787264166	ajiticar@gmail.com	
4.	SMS	Dr. Rahul Kumar Singh	SMS	Agril. Extension	15600-39100	5400		01.08.2017	Temporary		9454054072	rahulrrext91@gmail.com	

5.	SMS	Mr. Avanish Kumar Singh	SMS	Agronomy	15600-39100	5400		01.08.2017	Temporary		9792099943	avanishsinghicar@gmail.com	
6.	SMS	Mr. Sandeep Prakash Upadhyay	SMS	SMS- Soil Science	15600-39100	5400		01.08.2017	Temporary		9690475529	sandeepupadhyay383@gmail.com	
7.	Programme Assistant (Computer)	Gaurav Kumar Singh	Programme Assistant	Computer	9300-34800	4200		14.08.2017	Temporary		9838674999	vishengaurav@gmail.com	
8.	Programme Assistant (Lab. Tech.)	Jitendra Kumar Singh	Programme Assistant	Lab. Technician	9300-34800	4200		14.08.2018	Temporary		9956912021	jitendra.s273158@gmail.com	
9.	Farm Manager	Ashish Kumar Singh	Programme Assistant	Farm Manager	9300-34800	4200		14.08.2018	Temporary		7752941868	ashishksingh1994@gmail.com	
10.	Assistant	Shubham Pandey	Assistant	Assistant	9300-34800	4200		14.08.2018	Temporary		7752941868	luckywatson123@gmail.com	

11.	Driver-cum-Mechanic	Sanjay Kumar Yadav	Driver-cum-Mechanic	Driver	5200-20200	2000		14.08.2018	Temporary		9415853387	sanjayyadavmgkvk@gmail.com	
12.	Driver-cum-Mechanic	Dinesh Rao	Driver-cum-Mechanic	Driver	5200-20200	2000		14.08.2018	Temporary		9695713464	dineshgkp1991@gmail.com	
13.	Supporting staff Grade-I	Jai Prakash Singh	Supporting Staaf Grade-I	Skilled Supporting Staaf	5200-20200	1800		14.08.2018	Temporary		8545003001	jaiprakashsingh1005@gmail.com	
14.	Supporting staff Grade-I	Abhimanyu Kumar Verma	Supporting Staff Grade-I	Skilled Supporting Staff	5200-20200	1800		14.08.2018	Temporary		9918989802	abhimanyuverma0808@gmail.com	

1.6. Total land with KVK (in ha): 20.056 ha

S. No.	Item	Area (ha)
1	Under Buildings	550 sqm. (0.055 ha)
2.	Under Demonstration Units	1.0
3.	Under Crops	12
4.	Orchard/Agro-forestry	2
5.	Under fodder excellence center	-
6	Others (specify)	5
Total		**20.055 ha**

1.7. Infrastructural Development: to be develop

A) Buildings

SN	Name of building	Source of funding	Stage						Required New	Needs renovation
			Complete			Incomplete				
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction		
1.	Administrative Building	ICAR						Completed		
2.	Farmers Hostel	ICAR						Under construction		
3.	Staff Quarters	ICAR						Type I & IV Completed		
4.	Demonstration Units	ICAR								
5	Fencing	ICAR								
6	Rain Water harvesting system	-								
7	Threshing floor	ICAR								
8	Farm go-down	ICAR								
9	Irrigation channel	ICAR								
10	Integrated Farming System	ICAR								

B) Vehicles (As on 21 Nov., 2019)

Type of vehicle	Year of purchase	Cost (Rs. Lakh)	Total kms Run	Present status	Required replacement
Tractor (UP-53 CL-5201)	2017	9.55	600	Good Condition	-
Motorcycle	-	-	-	-	-
Motorcycle	-	-	-	-	-
Jeep (Mahindra Bolero) UP53 AG 1220	2019	6.50981	8300	Good Condition	-

C) Equipment's& AV aids: to be purchase

Name of the equipment	Year of purchase	Cost (Rs)	Present status	Required replacement
Computer with UPS				
Lanser Printer (HP)				
Inkjet Printer (HP)				
Multi-Functional (HP)				
Electronic Balance				
LCD Multimedia Projector				
Over Head Projector				
Slide Projector				
Photocopier				
Multifunctional (Sharp)				
Raised Bed Planter				
Tractor Trolley	2017	2.55	Good	
Power Thresher				
Power Sprayer				
Zero-till seed drill-ferti Machine				
Camera (Digital Audio Sony)				
Generator				
Raised Bed Planter				

Soil Testing Machine	2017	2,02,960	Good	
GPS Receiver				
Biometric Attendance System				
Desktop Computer				
Laptop Computer				
Laser Printer				
MFP Laser Based				

1.8) Details of SAC meetings to be conducted in the year

SN	Meeting	Date
1.	**Scientific Advisory Committee**	

2. DETAILS OF DISTRICT

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

S. No	Farming system/enterprise
1.	Crop Production + Livestock
2.	Crop Production + Poultry
3.	Crop Production + Fisheries
4.	Crop Production + Vegetable Production

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

Gorakhpur falls under north eastern plain zone. It comes under terai area.

a) Soil types

S. No	Agro-ecological situation	Characteristics	Area (ha)
1.	AES-1	Soil Type-Sandy loam	160952
2.	AES-2	Soil Type-Silty loam, Khadar Soil	121714
3.	AES-3	Soil Type-Clay Loam	52651

b) Topography

S. No	Agro ecological situation	Characteristics
1.	AES-1 (Sandy loam)	Poor water holding capacity
2.	AES-2 (Silty loam, Khadar Soil)	Medium water holding capacity
3.	AES-3 (Clay Loam)	Good water holding capacity

2.4. Area, Production and Productivity of major crops cultivated in the district (2015-16)

S. No	Crop	Area (thousand ha)	Production (thousandton)	Productivity (Qtl /ha)
A	FIELD CROPS INCLUDING OIL SEEDS AND PULSES			
1.	Paddy	152497	202895	15.26
2.	Maize	3299	4281	12.98
3.	Jowar	27	37	13.70
4.	Bajra	369	-617	16.72
5.	Arhar	8659	4978	5.75
6.	Urd	24	09	3.73
7.	Moong	02	01	2.77

8.	Ground Nut	2547	1508	5.92
9.	Til	75	12	1.62
10.	Wheat	190499	448884	23.89
11.	Barley	708	1388	19.60
12.	Gram	668	544	8.15
13.	Pea	2766	3587	12.97
14.	Lentil	2275	2067	9.08
15.	Mustard	3492	2373	6.80
16.	Linseed	47	02	4.20
17.	Sugarcane	3955	209034	528.53
B	**FRUITS**			
1.	Banana	6600	264000	40.00
2.	Mango	5500	38500	07.00
3.	Guava	1550	15500	10.00
4.	Litchi	200	13000	06.50
5.	Jamun	100	500	05.00
6.	Papaya	50	500	10.00
7.	Jackfruit	40	360	09.00
8.	Citrus	20	160	08.00
C	**VEGETABLES**			
1.	Potato	5000	125490	250.90

2.5 Weather Data (2017-18):

Month	**Rainfall (mm)**	**Temperature(^{0}C)**		**Humidity (%)**	
		Max	**Min**	**Max**	**Min**

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

Category	Population	Production	Productivity
Cattle			
Crossbred			
Indigenous			
Buffalo			
Sheep			
Crossbred			
Indigenous			
Goats			
Pigs			
Crossbred			
Indigenous			
Rabbits	-		
Poultry			
Hens (Desi)			
Cock (Desi)			
Improved			
Ducks			
Turkey and others			

Category	Area	Production	Productivity
Fish			
Marine			
Inland			
Prawn			
Scampi			
Shrimp			

2.7 Details of Operational Area / Villages

SN	Taluka	Name of the block	Name of the village	Major crops & enterprises	Major problem identified
1.	Campierganj	Jungle Kaudia	Chauk Mafi, Badhyachouk, Madaha, Rajabari, Ranganadiha, Majhauna	Rice, Wheat, Arhar, Mustard, Gram, Potato, Tomato, Bitter Gourd, Cucumber, Pumpkin, Ridge Gourd & Cattle	Low Yield, Anestrus and malnutrition in animal, weed infestation, pod-borer in pea, chick pea, Pigeon pea, soil erosion
2.	Campierganj	Campierganj	Atkawa, Mithouri, Kalyanpur	Rice, Wheat, Arhar, Mustard, Gram, Potato, Tomato, Cucumber, Pumpkin, Banana, Mango	Introduction of HYV, Integrated Nutrient Management, Integrated Disease Management, less use of organic manure
3.	Sadar	Bhathat	Sishare	Gram, Potato, Tomato, Bottle Gourd, Cucumber, Pumpkin	Integrated Disease Management, Resource Conservation Technology, Integrated Weed Management, Seed production technology
4.	Sahjanwa	Pali	Urwa, Bhaksa, Musthafabad	Rice, Wheat, Arhar, Mustard, Gram, Potato, Tomato, Ridge Gourd, Banana, Mango, Cattle	Introduction of HYV, integrated disease/pest management, integrated nutrient management, less use of bio-fertilizer
5.	Sadar	Chargawan	Bisunpur, Jangalaurahi	Wheat, Arhar, Mustard, Gram, Potato, Tomato, Bottle Gourd, Cucumber, Pumpkin, Ridge Gourd, Banana, Mango	Integrated Nutrient Management, Integrated Pest Management, Maintenance of Old Orchard, less use of bio-fertilizer

6.	Sadar	Pipraich		Arhar, Mustard, Gram, Potato, Tomato, Bottle Gourd, Cucumber, Pumpkin, Ridge Gourd, Banana, Mango, Buffalo	Kitchen gardening for production of nutritional food by women farmers, less use of organic manure
7.	Chauri Chaura	Sadar Nagar		Rice, Wheat, Arhar, Mustard, Gram, Potato, Tomato, Bottle Gourd, Cucumber, Pumpkin, Ridge Gourd, Banana, Mango, Cow	Raising productivity of livestock by upgrading the genetic potential by artificial insemination and use of mineral mixture, proper feeding and management
8.	Sadar	Khorabar		Rice, Wheat, Arhar, Mustard, Gram, Potato, Tomato, tree plantation, Mango, goat	Post-Harvest management of food grain seed, fruits, vegetables, milk and milk products, less use of organic manure
9	Sahjanwa	Sahjanwa		Rice, Wheat, Arhar, Mustard, Gram, Potato, Tomato, Pumpkin, Ridge Gourd, Banana, Mango, Buffalo, cow	Raising productivity of livestock by upgrading the genetic potential by artificial insemination, disease and parasitic control, proper feeding and management, less use of organic manure

Priority Thrust Areas:

SN	Crop/Enterprise	Thrust area
1	Crop Production	Production Technology for kharif, rabi and zaid crop.Improved Production Technology through mechanization
2	RCT	Promotion of resource conservation technology
3	Entrepreneurship	Entrepreneurship development in rural youth
4	Drudgery reduction	Drudgery reductiontechnology and Drudgery reducing farm implements among farm women
5	Horticultural crops	Promotion of high value horticultural crop, Quality seed/planting material production
6	Live stock	Raising productivity of livestock, upgrading genetic potential through artificial insemination, use of mineral mixture, disease and parasitic control, proper feeding and management
7	Organic inputs production	NADEP and Vermi-composting
8	IPM	Promotion of Integrated Pest Management strategies for safe food production and environment protection
9	INM	Promotion of site specific nutrient management through INM for sustainable soil health
11	Kitchen Gardening	Nutritional security through kitchen gardening

3.TECHNICAL PROGRAMME

3. A. Details of targeted mandatory activities by KVK during 2020-21

OFT (1)		FLD (2)	
No. of OFTs	**No. of Farmers**	**Area(ha)**	**Number of farmers**
20	**92**	**47.0015**	**425**

Training (3)		Extension Activities (4)	
No. of Courses	**No. of Participants**	**No. of activities**	**No. of participants**
114	**2105**	**1024**	**7565**

Seed Production (Qtl.) (5)	Planting material (Nos.) (6)	Fish seed prod.(nos) (7)	Soil Samples analyze/No. of Cards (8)
403	**20000**	**200**	**500/3000**

Development of Soil Health Cards(Nos) (9)	Quality seed distributed (q) (10)	No of saplings distributed (11)	No of fingelings distributed (Nos) (12)	No of livestock & poultry strains distributed (Nos) (13)
3000	-		-	-

3. B. Abstract of interventions to be undertaken

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Ext. activities	Supply of seeds, planting materials etc.
1	Productivity enhancement	**Pigeon pea**	Low yield of Pigeon pea due to use of old and mix variety	Assessment of yield performance of Pigeon pea through HYV	Promotion of high yielding variety for yield maximization	-Raised bed and skip method of sowing in pigeon pea. - Intercropping technique in pigeon pea for higher income		01	NA-2 (Seed)
2	Productivity enhancement	**Chick pea**	Low yield of chick pea due to severe infestation of wilt and pod borer	Assessment of IPM module in chick pea under rice-wheat production system	Promotion of high yielding chickpea variety for yield maximization	-Raised bed sowing in chickpea for higher production -Pod borer management in gram for yield intensification - Intercropping technique in chick pea for higher income	Seed production technique of chickpea	-	Seed, neem based insecticide, Trichoderma powder, carbendazim, emamectin benzoate of methomyl
3	Productivity enhancement	**Paddy**	Low yield of paddy due to false smut	Assessment of false smut management in paddy Assessment of Zinc with biofertilizer for enhancing nutrient use efficiency in paddy for yield maximization	Production potential establishment of paddy	-Techniques of rice cultivation SRI method -Disease management in paddy crop for higher returns Site specific nutrient management in paddy & use of bio-fertilizer - Smart nitrogen management in paddy through leaf colour chart - Use of balanced dose of chemical fertilizer and bio-fertilizer in paddy	Integrated nutrient management in paddy for increasing nutrient use efficiency	-	Fungicide; Zinc sulphate/ Micronutrient (foliar spray)Biofertilizer, seed
4	Productivity enhancement	**Wheat**	Low yield of wheat due No use of RCT		Production potential establishment of wheat	- Wheat + Sugarcane: an innovative approach for doubling income of farmers - INM in wheat for higher production & returns - Enhancing wheat production through furrow irrigation Raised bed technology -INM in wheat	Seed production technology of wheat		Seed+ Zero tillage machine

5	Productivity enhancement	**Green gram**	Low yield in Green gram due to use of imbalance dose of fertilizer	Assessment of efficient use of fertilizer with bio-fertilizer in green gram	-	-Cultural pest management practices in summer pulses for higher returns - Use of biofertilizer for enhancing nutrient use efficiency in pulse crop	-	-	Biofertilizer
6	Varietal evaluation of oilseed crop	**Mustard**	Low yield of mustard due to improper nutrient management	-	Production potential establishment of mustard		-	01	HYV Giriraj(seed)
7	Integrated Crop Management	**Onion**	Low yield in Onion due to use of unidentified variety	-	Assessment of efficient use of HYV for Higher income	Intercropping of garlic and onion crop with sugarcane for doubling income	Production technology of kharif onion crop	-	Seedling
8	Varietal evaluation	**Tomato**	Low yield in tomato due to use of low yielding variety	Assessment of efficient use of Ferrrous Ammonium Sulphate with HVY for yield maximization.	-	Use of drip irrigation for efficient use of water in tomato/chilli crop for higher monetary returns	-	-	Seed &Ferrrous Ammonium Sulphate
9	Varietal evaluation rcropping	**Vegetable Pea**	Less profitable due to grown old variety.	Yield performance of vegetable pea thru high yielding variety					Vegetable seed
10	Varietal evaluation	**Bittergourd**	Take more profit with Machan system		Promotion of Machan system for Bitter gourd	-Use of trellis system in Bottlegourd&Bittergourd production for higher income - INM in cucurbitaceous crop for income generation - Off season seedling of Bottle gourd, Bitter gourd & Cucumber production for maximizing the monetary returns - INM in cucurbitaceous crop			Seed
	Introduction	**Marigold**			Promotion of flower crop	Scientific cultivation of marigold for income generation	Scientific cultivation of Marigold crop		Seedling
11	Fodder management	**Berseem**	Low yield and improper fodder management	-	Establishment of production potential through HYV fodder variety	Preparation of balance ration for milch animal	-		Seed
12	Fodder management	**Sorghum**	Low yield and improper fodder		Establishment of production potential	Green fodder production technology			Seed

			management		through HYV fodder variety				
13	Nutrient management	**Buffalo**	Low milk and income due to conventional ration feeding	Assessment of Bye pass protein on milk production in dairy buffalo					Bye pass protein
14	Drudgery reduction	**Drudgery reduction**	Drudgery reduction through improved agricultural equipment	Assesment of Urea Broadcaster	-	Un-Uniform spray of urea, excess consumption of time, money & energy			Urea Broadcaster
15	Promotion of Kitchen Garden	**Kitchen Garden**	Lack of food security	-	Establishment of Kitchen Garden	Method to develop Kitchen Garden	-	-	Seeds, Plants, Sapplings
16	Value addition	**Solar Energy**	Wastage of seasonal vegetables & fruits	Low cost of vegitable & fruits (when in excess) in season	Promotion of solar tent dryer –FAO food model	Awareness towards value addition of fruits & vegetables through solar energy	-	-	Solar tent dryer
17	ICT Tools	**ICT Tools**	Lack of knowledge and interest	Testing of Audio-visual aids training module in Gorakhpur district	Promotion of Vermi Compost	Awareness towards human and soil health	-	-	Eisenia fetida
18	Nutrient management	**Cow**	Low milk yield and infestation of internal parasites	-	Promotion of mineral mixture and de-wormer for increasing milk production	-	-	-	Mineral Mixture and De-wormer
19	Promotion of organic cultivation	**Paddy Wheat**	High input cost	Assessment of efficient of Jivamrit Khad		Awareness towards organic cultivation	-	-	-
20	Promotion of Pulse based nutrients	**Poshak Laddo**	Low health status of Farmwomen	Assessment of Poshak Laddooto improve health status of farmwomen	-	-	-	-	Poshak Laddoo

3.1 Technologies to be assessed and refined

A.1 Abstract on the number of technologies to be assessed in respect of **crops**

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	Other	TOTAL
Varietal Evaluation	1				1						2
Seed / Plant production											
Weed Management		1									1
Integrated Crop Management					1						1
Integrated Nutrient Management	3		1		2					2	8
Integrated Farming System											
Mushroom cultivation											
Drudgery reduction		1									1
Farm machineries	1										1
Value addition											
Integrated Pest Management					1						1
Integrated Disease Management	1					1					2
Resource conservation technology											
Small Scale income generating enterprises											
ITK											
ICTs										1	1
TOTAL	**6**	**2**	**1**		**5**	**1**				**3**	**18**

A.2. Abstract on the number of technologies to be refined in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Kitchen garden	Tuber Crops	TOTAL
Varietal Evaluation										
Seed / Plant production										
Weed Management										
Integrated Crop Management										
Integrated Nutrient Management										
Integrated Farming System										
Mushroom cultivation										
Drudgery reduction										
Farm machineries										
Post Harvest Technology										

A.3. Abstract on the number of technologies to be assessed in respect of livestock / enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Wormi culture	Fisheries	TOTAL
Evaluation of Breeds								
Nutrition Management	2							2
Disease of Management								
TOTAL	**2**							**2**

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

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

3.1 Details of ON FARM TRIALS (Based on soil test analysis)

OFT-1 (PP)

Particulars	Contents
Title	Assessment of false smut management in paddy
Problem diagnosed	False smut has recently become an important disease in paddy and substantially yield loss
Micro farming situation	Sandy loam, low water-holding capacity, imbalance use of fertilizer, mini-deep tube well, low productivity
Details of technology identified for solution	T1-Farmers practice (No control measure adopted/improper use of fungicides) T2-Integrated approach: (i) Keep the field clean/free from weeds especially barnyard grass (*Echinochlooacrusgalli*) and *Digitariamarginata* (ii) Remove infected panicle carefully (iii) Spraying of Tebuconazole 50% + Trifloxystrobin 25%WG @ 0.75ml/liter of water during panicle initiation (booting stage)
No. of farmers	04
Replications	04
Area	1000 sqm
Critical inputs	Fungicide, Herbicide
Production system	Paddy-Wheat-Mung bean
Source of technology	IARI and PAU
Total Cost	Rs. 4000- (Approx.)
Observation to be recorded	No. of infected panicle/hill, No. of infected panicle/m2, Average yield (q/ha)
Reaction of the farmers	Acceptability/ compatibility of technology

OFT-2(PP)

Particulars	Contents
Title	Assessment of IPM strategies for fruit fly management in bitter gourd
Problem diagnosed	Fruit fly (*Bactrocera cucurbitae*) is a major biotic stress in the region and it causes serious losses in yield and quality of fruits.
Micro farming situation	Sandy loam, low in organic matter, low water-holding capacity, imbalance use of fertilizer, engine operated tube well, low productivity
Details of technology identified for solution	T1-Farmers practice (Improper use of Pesticides) T2-: IPM strategies (i) Installation of pheromone trap @ 25/ha at flower initiation and replacement of lure @ 40-45 days interval (ii) Bait spray with Malathion 20 ml+20liter water+500 g molasses randomly @ 250 plant/ha (iii) Application of neem-based products containing 1500 ppm@ 3 litre/ ha
No. of farmers	04
Replications	04
Area	4000 sqm
Critical inputs	Trap with lure, Neem based insecticides, Bait etc.
Production system	Bitter gourd-late wheat-Cucumber
Source of technology	IIVR, Varanasi
Total Cost	Rs. 5000/- (Approx.)
Observation to be recorded	No. of affected plant/10 m^2, No. of infected fruit/plant, pest infestation %, Average yield (q/ha)
Reaction of the farmers	Acceptability/ compatibility of technology

OFT-3(PP)

Particulars	Contents
Title	Assessment of wilt management strategies in banana
Problem diagnosed	Banana production is seriously threatened by Fusarium wilt, a disease caused by the soil-borne fungus *Fusarium oxysporum f. sp. Cubense* and causes in yield reduction up to 50%-70%.
Micro farming situation	Sandy loam, low in organic matter, low water-holding capacity, imbalance use of fertilizer, engine operated tube well, low productivity
Details of technology identified for solution	T1-Farmers practice (Improper use of management) T2-: IDM strategies (i) Use tissue culture plant (ii) ICAR-Fusicont (Bio formulation) 500g + 10 liter water soil drenching before 2-3days of transplanting (iii) 100 kg FYM/Vermicompost + 4 kg ICAR-Fusicont-use 100-200g/pit at transplanting (iv) ICAR-Fusicont (@ 50g/liter water) use 500ml/plant as soil drenching at 3^{rd}, 5^{th}, 8^{th}, 10^{th} and 12^{th} month DAT
No. of farmers	05
Replications	05
Area	5000 sqm
Critical inputs	ICAR-Fusicont etc
Production system	Banana+paddy-rabi vegetables
Source of technology	Central Soil Salinity Research Institute, Regional Research Station Lucknow
Total Cost	Rs. 5000/- (Approx.)
Observation to be recorded	No. of affected plant/10 m^2, No. of infected fruit/plant, pest infestation %, Average yield (q/ha)
Reaction of the farmers	Acceptability/ compatibility of technology

OFT-4**(HS)**

Particulars	**Contents**
Title	Assessment of drumstick leaf powder as remedy of low hemoglobin level among adolescent girls
Problem diagnosed	Low hemoglobin level among adolescent girls
Micro situation	-
Details of technology identified for solution	T_1- Prevailing Practices (no use of Aonla& drum stick leaf Powder) T_2- Iron supplement as AonlaPowder (10g/day) T_3- Drum stick leaf Powder (10g/day)
No. of farmers	9
Replications	9
Critical inputs	Drum stick powder, aonla powder
Source of technology	Ayurved College, Sardar Shahar, Rajsthan
Total Cost	Rs. 3000/- (Approx)
Observation to be recorded	Pre-and post blood test
Reaction of the farmers	• Acceptability of technology to farmers • Increased hemoglobin label

OFT-5**(HS)**

Particulars	**Contents**
Title	Assessment of groundnut decorticator (sitting type) for drudgery reduction
Problem diagnosed	High consumption of time and labour cost in de-husking groundnut of groundnut
Possible Solution	Use of groundnut decorticator for drudgery reduction
Farming situation	Irrigated
Details of technology identified for solution	T_1- Prevailing Practices T_2-Use of groundnut decorticator
No. of farmers	03
Replications	03
Critical inputs	groundnut decorticator
Production system and thematic area	Location specific drudgery reduction
Source of technology	CIAE, Bhopal
Total Cost	Rs. 7000/- (Approx)
Observation to be recorded	Technical: Time and tool factor Economical: Cost of labour and C:B ratio Social: Acceptability of farmers
Reaction of the farmers	Acceptability of technology among farmers Compatibility in the existing cropping system

OFT-6**(HS)**

Particulars	**Contents**
Title	Assessment of Poshak-Ladoo to improve health of farm women
Problem diagnosed	Relatively low weight
Possible Solution	Use of Poshak Ladoo (Wheat,Peanut-Floor,Groundnut)
Farming situation	--
Details of technology identified for solution	T_1- Prevailing Practice T_2-Intake of Poshak Ladoo
No. of farmers	06
Replications	06
Critical inputs	Poshak Ladoo
Production system and thematic area	Poor health status of farm women
Source of technology	--
Total Cost	Rs. 8000/- (Approx)
Observation to be recorded	Weight & Hb Level
Reaction of the farmers	Acceptability of technology among farmers Availability of Nutrients with local available crops.

OFT-7 (AS)

Particulars	**Contents**
Title	Assessment of bye pass protein on milk production in dairy buffalo
Problem diagnosed	Low milk and income due to conventional ration feeding
Farming situation	Buffalo/ Mixed Farming
Details of technology identified for solution	T_1- Farmers Practice use of choker & cakes (conventional feed) T_2- Use of Bye- Pass protein @ 50 gm per animal per day after calving for three month
No. of farmers/Animals	05
Replications	05
Duration	90 days
Critical inputs	Bye- Pass protein feed
Production system and thematic area	Dairy Nutrient management
Source of technology	IVRI IZatnagar, Bareily, Karnal
Total Cost	Rs 10000.00/-
Observation to be recorded	• Milk Yield • % increases in milk production • BC ratio
Reaction of the farmers	Acceptability & compatibility

OFT-8(AS)

Particulars	Contents
Title	Assessment of azolla feeding as green fodder on milk production in dairy cow
Problem diagnosed	Low milk production from cow due to unavailability of green fodder
Farming situation	Mixed farming
Details of technology identified for solution	T_1- Farmers Practice (feeding wheat and paddy straw without supplementation of green fodder) T_2- Use of Azolla @ 1 Kg. per animal per day with existing fodder.
No. of farmers	5
Replications	5
Duration	60 days
Critical inputs	Azolla and polythene sheet
Production system and thematic area	Feed management
Source of technology	NDRI Karnal
Total Cost	Rs 10000.00/-
Observation to be recorded	• Milk Yield • % increases in milk production • BC ratio
Reaction of the farmers	Acceptability & compatibility

OFT-9 (Agro)

Particulars	Contents
Title	Assessment of post emergence herbicide (Imazethapyr 10 % SL) for weed management in Groundnut
Problem diagnosed	Low yield due to weed infestation
Micro farming situation	Sandy loam, Irrigated
Details of technology identified for solution	T_1-Farmers practices (only one hand weeding) T_2- Imazethapyr 10 % SL @ 1 liter/ha @ 20 DAS + one hand weeding at 45-50 DAS
No. of farmers	05
Replications	05
Area	5000 sqm
Critical inputs	Imazethapyr
Production system	Groundnut-Wheat/Potato; Pigeon pea+Groundnut
Source of technology	IIWR, Jabalpur, MP
Total Cost	Rs. 3000- (Approx.)
Observation to be recorded	Weed infestation/sqm, dry weight, grain yield, B.C. ratio
Reaction of the farmers	Acceptability of technology among farmers Compatibility in the existing cropping system

OFT-10(Agro)

Particulars	Contents
Title	Assessment of newly released wheat variety DBW 187
Problem diagnosed	Low yield of wheat due to use of continuous use HD 2967 wheat variety.
Micro farming situation	Sandy loam, low water-holding capacity, imbalance use of fertilizer, mini-deep tube well, low productivity
Details of technology identified for solution	T_1-farmers Practice (HD 2967) T_2-DBW 187
No. of farmers	05
Replications	05
Area	5000 sqm
Critical inputs	Seed
Production system	Rice-Wheat
Source of technology	IIWBR, Karnal, Haryana
Total Cost	Rs. 7000/- (Approx)
Observation to be recorded	Plant height (cm), No. of tillers, Panicle length, spikelets, grain/plant, Grain yield, B:C ratio
Reaction of the farmers	Acceptability of technology to farmers

OFT-11(Agro)

Particulars	Contents
Title	Assessment of wheat sowing with ferti-seed drill
Problem diagnosed	Low yield of wheat due to use of broadcasting method of sowing with higher seed rate.
Micro farming situation	Sandy loam, low water-holding capacity, imbalance use of fertilizer, engine operated tube well, low productivity
Details of technology identified for solution	T_1-farmers Practice (broadcasting method of sowing with higher seed rate @ 160kg/ha) T_2- Sowing with ferti-seed drill (seed rate 100 kg/ha)
No. of farmers	05
Replications	05
Area	5000 sqm
Critical inputs	Seed drill machine
Production system	Rice-Wheat
Source of technology	NDUAT, Ayodhya
Total Cost	Rs. 5000/- (Approx)
Observation to be recorded	Plant height (cm), No. of tillers, Panicle length, spikelets, grain/plant, Grain yield, B:C ratio
Reaction of the farmers	Acceptability of technology to farmers

OFT-12(Hort)

Particulars	Contents
Title	Assessment of plant growth hormone in chilli.
Problem diagnosed	Low yield of chili due to flower drop.
Micro farming situation	Sandy loam, low water holding capacity, imbalance use of fertilizer, tube well, low productivity
Details of technology identified for solution	T1:- Farmers practice T2:- HYV (Kashi Anmol/ Azad Mirch-1) with Napthlene Acetic Acid (NAA) @ 10 ppm during flowering, 2nd spray 20-30 days later / Chlormequat Chloride (Lehoshin) @ 1 ml per ltr. of water during flowering stage and 2nd spray 20-30 days later..
No. of farmers	05
Replications	05
Area	5000 sqm
Critical inputs	Seed & Napthlene Acetic Acid (NAA) / Chlormequat Chloride (Lehoshin)
Production system	Cucurbits – Chili
Source of technology	IIVR, Varanasi
Total Cost	Rs. 5000.00 (Approx)
Observation to be recorded	Date of 1st Flowering, Date of 50% Flowering, Yield (q/ha), No. of fruits/plant, % increase in yield, BCR
Reaction of the farmers	Acceptability of technology to farmers

OFT-13 (Hort)

Particulars	Contents
Title	**Assessment of HYV of vegetable pea variety Kashi Nandini**
Problem diagnosed	Low yield of vegetable pea.
Micro farming situation	Sandy loam, low water holding capacity, imbalance use of fertilizer, tube well, low productivity
Details of technology identified for solution	T1:- Farmers practice (Arkil) T2:- HYV (Kashi nandini)
No. of farmers	05
Replications	05
Area	5000 sqm
Critical inputs	Seed
Production system	Cucurbits-vegetable pea
Source of technology	IIVR, Varanasi
Total Cost	Rs. 5000.00 (Approx)
Observation to be recorded	Yield (q/ha), No. of pod/plant, no. of ovule/pod, % increase in yield, BCR
Reaction of the farmers	Acceptability of technology to farmers

OFT-14 (Hort.)

Particulars	Contents
Title	Assessment of Ferrrous Ammonium Sulphate with recommended dose of fertilizer in tomato.
Problem diagnosed	Low yield of tomato due less nutrient management
Micro farming situation	Sandy loam, low water holding capacity, imbalance use of fertilizer, tube well, low productivity
Details of technology identified for solution	T1:- Farmers practice (No use of micro nutrient) T2:- HYV (hybrid-Kashi Adarsh) + NPK(120:50:40) on soil test basis and spray of FAS (Ferrous Ammonium Sulphate) @ 20ppm at 30 & 45 DAT
No. of farmers	04
Replications	04
Area	4000 sqm
Critical inputs	Seed &Ferrous Ammonium Sulphate
Production system	Cucurbits-Tomato
Source of technology	IIVR, Varanasi
Total Cost	Rs. 5000.00 (Approx)
Observation to be recorded	Yield (q/ha), No. of fruits/plant, % increase in yield, BCR
Reaction of the farmers	Acceptability of technology to farmers

OFT-15 (Agri. Ext.)

Particulars	Contents
Title	Testing of Audio-visual aids training module in Gorakhpur district
Problem diagnosed	Lack of knowledge and interest
Details of technology identified for solution	T_1- Training without using visual aids (Lecture mode only) T_2- Training using visual aids T_3- Training using audio aids T_4- Training using audio-visual aids
No. of farmers	20
Replications	5
Critical inputs	Training
Production system and thematic area	Knowledge and adoption of technological know-how
Source of technology	GBPUA&T, Pantnagar
Total Cost	Rs 8000.00/-
Observation to be recorded	• Knowledge • Adoption • Attitude
Reaction of the farmers	Acceptability & compatibility

OFT-16 (Agri. Ext.)

Particulars	Contents
Title	Assessment of bio fertilizer on productivity of wheat
Problem diagnosed	Use of high cost of chemical fertilizer
Possible Solution	Use of Jivamrit khaad
Micro farming situation	Sandy loam, low water holding capacity, imbalance use of fertilizer, tube well, low productivity
Details of technology identified for solution	T_1- Farmer Practice (farmer's having use of Chemical fertilizer) T_2-Application of Jivamrit khad @ 200 ltr per acre with irrigation. T3-T2+Recommended dose of fertilizer 120:60:40 :: N:P:K kg per ha
No. of farmers	05
Replications	05
Critical inputs	200 Ltr. Drum with 2Kg Gud and 1 Kg besan @per farmer
Production system and thematic area	Paddy – wheat
Source of technology	ZBNF
Total Cost	Rs. 8000/- (Approx)
Observation to be recorded	Yield and economics
Reaction of the farmers	Acceptability of technology among farmers. Compatibility in the existing cropping system.

OFT-17 (SS)

Particulars	Contents
Title	Assessment of bio-fertilizer on productivity of chick pea
Problem diagnosed	Low yield in chickpea due to use of imbalance dose of fertilizer
Micro farming situation	Sandy loam, imbalance use of fertilizer, low productivity, irrigated
Details of technology identified for solution	T1-Farmers practice (imbalanced fertilizer and no use of bio-fertilizer) T2-15:40:20:20::N:P:K:S kg/ha (Farmers share) + PSB and *Rhizobium* @ 500 mL/ha
No. of farmers	03
Replications	03
Area	6000 sqm
Critical inputs	Bio Fertilizer
Production system	Rice-wheat
Source of technology	AICRP on major nutrients
Total Cost	Rs. 4000/- (Approx.)
Observation to be recorded	Plant height, Nodule number, nodule weight, Yield (q/ha.), % increase in yield, BC Ratio
Reaction of the farmers	Acceptability of technology among farmers Compatibility in the existing cropping system

OFT-18 (SS)

Particulars	Contents
Title	Assessment of yield and economics in paddy.
Problem diagnosed	Low yield paddy due to use of imbalance dose of fertilizer
Micro farming situation	Sandy loam, imbalance use of fertilizer, low productivity, irrigated
Details of technology identified for solution	T1-Farmers practice (imbalanced fertilizer and no use of bio-fertilizer) T2-60:60:40:25::N:P:K:Zn kg/ha (Farmers share) + green manuring

	(Dhaincha) + *Azotobacter* @ 500 mL/ha
No. of farmers	03
Replications	03
Area	6000 sqm
Critical inputs	Biofertilizer, seed
Production system	Rice-wheat
Source of technology	AICRP on major nutrients
Total Cost	Rs. 6000/- (Approx.)
Observation to be recorded	Number of tillers/plant, plant height, number of grains/spike, BCR,% increase in yield, yield (q/ha.),
Reaction of the farmers	Acceptability of technology among farmers Compatibility in the existing cropping system

OFT-19 (SS)

Particulars	**Contents**
Title	Assessment of crop residue management in wheat for yield maximization.
Problem diagnosed	Low yield of wheat due to use of imbalance dose of fertilizer
Micro farming situation	Sandy loam, imbalance use of fertilizer, low productivity, irrigated
Details of technology identified for solution	T1-Farmers practice (imbalanced fertilizer and no use of bio-fertilizer) T2-90:45:30::N:P:K kg/ha – 75 % (Farmers share) + Crop residue management by waste decomposer (@2.5 Kg. per acer + 50Kg FYM before 15 days)
No. of farmers	03
Replications	03
Area	6000 sqm
Critical inputs	Waste decomposer
Production system	Rice-wheat
Source of technology	AICRP on major nutrients
Total Cost	Rs. 6000/- (Approx.)
Observation to be recorded	Number of tillers/plant, plant height, number of grains/spike, BCR,% increase in yield, yield (q/ha.)
Reaction of the farmers	Acceptability of technology among farmers Compatibility in the existing cropping system

OFT-20 (SS)

Particulars	**Contents**
Title	Assessment of micronutrient boron and zinc on productivity of tomato.
Problem diagnosed	Low yield of tomato due to no use of micronutrient fertilizer
Micro farming situation	Sandy loam, imbalance use of fertilizer, low productivity, irrigated
Details of technology identified for solution	T1-Farmers practice (imbalanced fertilizer and no use of bio-fertilizer) T2-120:80:50::N:P:K kg/ha (Farmers share) + 25 Kg/ha ZnSo4 + 10 Kg/ha Borax
No. of farmers	03
Replications	03

Area	6000 sqm
Critical inputs	ZnSO4 + Borax
Production system	Rice-wheat-vegetables
Source of technology	AICRP on major nutrients
Total Cost	Rs. 6000/- (Approx.)
Observation to be recorded	Plant height, Days to first flowering, Days to first fruit, No. of fruits/plant, yield, % increase in yield and B C ratio
Reaction of the farmers	Acceptability of technology among farmers Compatibility in the existing cropping system

3.2 Frontline Demonstrations

A. Details of FLDs to be organized (Based on soil test analysis)

SN	Crop/ Variety	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)/ No.	No. of farmers/ demos	Parameters identified Yield/Profit/Other technological parameters	Budget required (Rs)
1.	Mustard (SS)	Nutrient management	Paddy-Mustard Var. Pusavijay + Sulphur (30kg/ha) + Intercropping with sugarcane	Sulphur	Rabi-2020	2.0	14	Plants height, No. of branches, No. of siliquae, Pod length, Grain yield and B.C. ratio	7000
2.	Paddy (Agro)	Varietal evaluation	HYV-Co-51and Sanbha Sub-1 (Transplanting with paddy Transplanter)-Sugarcane + Mustard	Seed	Kharif 2020	20.0	120	No. of tillers/hill, Grain yield and B.C. ratio	40000
3.	Cucumber (SS)	Integrated Nutrient management	Cucumber-Paddy-Wheat 60:40:40::N:P:K + Vermicompost @ 5 ton/ha	Vermicompost	Zaid 2020	1.0	10	Days to first flowering, Days to first fruit, No. of fruits/plant, yield and B.C. ratio	6000
4.	Onion (Horti)	Varietal evaluative	Agrifound Light Red/ Agrifound Dark Red	Seedling	Rabi-2020	1.0	10	Yield, B:C ratio, % increase in yield	5000
5.	Bitttergourd (Horti)	Machan cultivation	Machan cultivation with HYV (Kashi Urvashi)-wheat-Mung bean	Seed	Kharif-2020	0.5	10	Yield, net return, B:C ratio	5000

6.	Marigold (Horti)	Crop Introduction	Paddy-Marigold Var. Pusa Narange	Seedling	Rabi-2020	0.5	10	Plant height , date of 1st flowering, date of 50% flowering, No. of flowers per plant, yield per plant, net return, B:C ratio,	10000
7.	Chickpea (SS)	Nutrient management in chick pea	Paddy-Chickpea var. GNG-1581+Balance dose of fertilizer (12:40:30:30:10:: N:P:K:S:B) Kg/ha + intercropping with coriander-Mung bean	Fertilizer (Farmers share), Borax, 10kg/ha	Rabi-2020	2.5	10	Yield (q/ha), no. of seeds/pod, plant height, no. of pods/plant	7000
8.	Berseem (AS)	Feed &Fodder	Berseem var. BB-2-Paddy	Seed + Rhizobium	Rabi 2020	4.0	30	Fodder yield (q/ha)	20000
9.	Sorghum (AS)	Feed &Fodder	Pusa Chari-615-wheat-mung bean	Seed	Summer & Kharif -2020	4.0	30	Fodder yield (q/ha)	13000
10.	Seasonal vegetables (Horti)	Low nutritional status	Kitchen garden	Seeds, saplings & Plants	Rabi & Kharif	100 no. (0.5 ha)	100	Nutritional level, consumption and savings of vegetables/family	14000
11.	Urea Broadcaster (HS)	Drudgery Reduction	Urea Broadcaster	Broadcasting Machine	Rabi and Kharif 2020	--	2	Drudgery Reduction, Time, Labour saving	8000

12.	Paddy (SS)	Integrated Nutrient management	Paddy + Balanced dose of fertilizer and use of ZnSO4 and (N:P:K:::100: 40:40 farmers share) + 33% mono ZnSo4 foliar spray of 0.5%- + Azotobacter @500 mL/ha, soil and seed treatment, Wheat-Mung bean	Zinc sulphate+ Azotobacter biofertilizer	Kharif 2020	1.0	10	No. of tillers/hill, Grain yield and B.C. ratio	3000
13.	Vermi Compost (Agri Ext.)	Promotion of Organic manure	Vermicompost unit development	*Eisenia fetida/Eudrilus eugeniae*	Kharif 2020	.0015	05 (15kg)	Yield, Cost reduction, net return, B:C ratio	7500
14.	Mineral Mixture and De-wormer (AS)	Promotion of mineral mixture and de-wormer	mineral mixture and de-wormer	mineral mixture and de-wormer	Kharif 2020		50	Milk production, increase milk prodction, B:C ration	30000
						47.0015	**425**		

B. Extension and Training activities under FLD

SN	Activity	No. of activities	Month	Number of participants
1	**Field days**			
	(a) Chick Pea	1	March,21	40
	(b) Mustard	2	Feb,21	80
	(c) Paddy	1	Oct, 20	40
	(e) Pigeon pea	3	Mar, 21	120
	(f) Berseem	1	Mar, 21	40
2	**Farmers Training**			
	(a) Paddy			
	(b) Pigeon pea	1	June, 20	25
	(c) Chick Pea	1	Oct, 20	20
	(d) Mustard	1	Oct, 20	25
	(e) Berseem	1	Oct,-20	25
3	Media coverage	25		Mass
4	Training for extension functionaries			

C. Details of FLD on Enterprises

(i) Farm Implements:

Name of the implement	Crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / Indicators	*Data on parameter in relation to technology demonstrated	
							Demon.	Local check
Ferti-Seed drill Machine	Wheat	Rabi 2020-21	14	10	Seed+ Ferti-Seed drill machine	Labour reduction (Man days) Cost reduction (Rs./ha)		

(ii) Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical input	Performance parameters / Indicators	Budget required (Rs)

3.3 Training (Including the sponsored and FLD training programmes):

A) ON Campus (PF)

Thematic Area	No. of Courses	No. of Participants						
		Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women								
I Crop Production								
Weed Management								
Resource Conservation Technologies	3	54	0	54	6	0	6	60
Cropping Systems								
Crop Diversification	1	18	0	18	2	0	2	20
Integrated Farming								
Water management								
Seed production								
Nursery management								
Integrated Crop Management	2	36	0	36	4	0	4	40
Fodder production								
Production of organic inputs								
Total	**6**	**108**	**0**	**108**	**12**	**0**	**12**	**120**
II Horticulture								
a) Vegetable Crops								
Production of low volume and high value crops	04	56	10	66	11	3	14	80
Off-season vegetables								
Nursery raising	01	12	3	15	3	2	5	20
Exotic vegetables like Broccoli								
Export potential vegetables								
Grading and standardization								
Protective cultivation (Green Houses, Shade Net etc.)								
Total	**05**	**68**	**13**	**81**	**14**	**5**	**19**	**100**
b) Fruits								
Training and Pruning								
Layout and Management of Orchards								
Cultivation of Fruit								
Management of young plants/orchards								
Rejuvenation of old orchards								
Export potential fruits								
Micro irrigation systems of orchards								
Plant propagation techniques								
c) Ornamental Plants								
Nursery Management								
Management of potted plants								
Export potential of ornamental plants								
Propagation techniques of Ornamental Plants								
d) Plantation crops								
Production and Management technology								
Processing and value addition								
e) Tuber crops								
Production and Management technology								
Processing and value addition								
f) Spices								
Production and Management technology								
Processing and value addition								
g) Medicinal and Aromatic Plants								
Nursery management								
Production and management technology								
Post harvest technology and value addition								
III Soil Health and Fertility Management								
Soil fertility management								
Soil and Water Conservation								
Integrated Nutrient Management	2	36	0	36	4	0	4	40
Production and use of organic inputs								
Management of Problematic soils								
Micro nutrient deficiency in crops								
Nutrient Use Efficiency	2	36	0	36	4	0	4	40
Soil and Water Testing	1	18	0	18	2	0	2	20
Total	**5**	**90**	**0**	**90**	**10**	**0**	**10**	**100**
IV Livestock Production and Management								
Dairy Management								
Poultry Management								
Piggery Management								

Rabbit Management/goat								
Disease Management	1	18	0	18	2	0	2	20
Feed management	3	54	0	54	6	0	6	60
Production of quality animal products								
Total	**4**	**72**	**0**	**72**	**8**	**0**	**8**	**80**
V Home Science/Women empowerment								
Household food security by kitchen gardening and nutrition gardening	1	0	10	10	0	5	5	15
Design and development of low/minimum cost diet								
Designing and development for high nutrient efficiency diet								
Minimization of nutrient loss in processing								
Gender mainstreaming through SHGs								
Storage loss minimization techniques								
Value addition								
Income generation activities for empowerment of rural Women								
Location specific drudgery reduction technologies								
Rural Crafts								
Women and child care	1	0	10	10	0	5	5	15
Post Harvest Management	1	0	10	10	0	5	5	15
Total	**3**	**0**	**30**	**30**	**0**	**15**	**15**	**45**
VI Agril. Engineering								
Installation and maintenance of micro irrigation systems								
Use of Plastics in farming practices								
Production of small tools and implements								
Repair and maintenance of farm machinery and implements								
Small scale processing and value addition								
Post Harvest Technology								
VII Plant Protection								
Integrated Pest Management	2	30	4	34	4	2	6	40
Integrated Disease Management	1	15	2	17	2	1	3	20
Bio-control of pests and diseases								
Production of bio control agents and bio pesticides								
Total	**3**	**45**	**6**	**51**	**6**	**3**	**9**	**60**
VIII Fisheries								
Integrated fish farming								
Carp breeding and hatchery management								
Carp fry and fingerling rearing								
Composite fish culture								
Hatchery management and culture of freshwater prawn								
Breeding and culture of ornamental fishes								
Portable plastic carp hatchery								
Pen culture of fish and prawn								
Shrimp farming								
Edible oyster farming								
Pearl culture								
Fish processing and value addition								
IX Production of Inputs at site								
Seed Production								
Planting material production								
Bio-agents production								
Bio-pesticides production								
Bio-fertilizer production								
Vermi-compost production								
Organic manures production								
Production of fry and fingerlings								
Production of Bee-colonies and wax sheets								
Small tools and implements								
Production of livestock feed and fodder								
Production of Fish feed								
X Capacity Building and Group Dynamics								
Leadership development	1	18	0	18	2	0	2	20
Group dynamics								
Formation and Management of SHGs	1	18	0	18	2	0	2	20
Mobilization of social capital	1	18	0	18	2	0	2	20
Entrepreneurial development of farmers/youths	1	18	0	18	2	0	2	20
WTO and IPR issues	2	36	0	36	4	0	4	40
Total	**6**	**108**	**0**	**108**	**12**	**0**	**12**	**120**
XI Agro-forestry								
Production technologies								
Nursery management								
Integrated Farming Systems								

XII Others (Pl. Specify)								
GT (PF)	32	491	49	540	62	23	85	625
TOTAL								
(B) RURAL YOUTH								
Mushroom Production	01	7	-	7	2	1	3	10
Bee-keeping								
Integrated farming								
Seed production (Hort/Agron)	02	23	02	25	05	-	05	30
Production of organic inputs (SS)	02	30	0	30	0	0	0	30
Integrated Farming (Medicinal)								
Planting material production	1	04	-	04	1	-	1	05
Vermi-culture (SS)								
Sericulture								
Protected cultivation of vegetable crops								
Commercial fruit production								
Repair and maintenance of farm machinery and implements								
Nursery Management of Horticulture crops								
Training and pruning of orchards								
Value addition								
Production of quality animal products								
Dairying	02	30	0	30	0	0	0	30
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	1	10	0	10	5	0	5	15
Post Harvest Technology	1	0	10	10	0	5	5	15
Tailoring and Stitching								
Rural Crafts	1	0	10	10	0	5	5	15
TOTAL	**11**	**104**	**22**	**126**	**13**	**11**	**24**	**150**
(C) Extension Personnel								
Productivity enhancement in field crops(Agro)	02	30	0	30	0	0	0	30
Integrated Disease Management (PP)	1	15	0	15	0	0	0	15
Integrated Pest Management(PP)	1	15	0	15	0	0	0	15
Integrated Nutrient management (SS)	04	60	0	60	0	0	0	60
Integrated Crop Management	04	53	0	53	5	2	7	60
Cultivation of fruit								
Rejuvenation of old orchards								
Off-Season Vegetable Production								
Protected cultivation technology (Hort)								
Formation and Management of SHGs								
Group Dynamics and farmers organization								
Information networking among farmers	04	60	0	60	0	0	0	60
Capacity building for ICT application								
Care and maintenance of farm machinery and implements								
WTO and IPR issues								
Management in farm animals	01	15	0	15	0	0	0	15
Livestock feed and fodder production								
Household food security	01	15	0	15	0	0	0	20
Women and Child care (HS)								
Low cost and nutrient efficient diet designing (HS)	01	15	0	15	0	0	0	20
Production and use of organic inputs (SS)								
Gender mainstreaming through SHGs								
Feed Management (AS)								
Disease Management(AS)	01	15	0	15	0	0	0	15
Bio-control of pest and diseases								
Soil and Water Testing								

Management of problematic soil								
Micronutrient Deficiency in Crop								
TOTAL	**20**	**293**	**0**	**293**	**7**	**0**	**7**	**300**
G. Total PF+RY+EF	**63**	**888**	**71**	**959**	**82**	**34**	**116**	**1075**

B) OFF Campus (PF)

Thematic Area	No. of Courses	No. of Participants						
		Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women								
I Crop Production								
Weed Management	1	15	2	17	2	1	3	20
Resource Conservation Technologies	2	30	4	34	4	2	6	40
Cropping Systems								
Crop Diversification	1	15	2	17	2	1	3	20
Integrated Farming								
Water management								
Seed production								
Nursery management								
Integrated Crop Management	3	45	6	51	6	3	9	60
Fodder production								
Production of organic inputs								
Total	7	105	14	119	14	7	21	140
II Horticulture								
a) Vegetable Crops								
Production of low volume and high value crops	2	30	4	34	4	2	6	40
Off-season vegetables	1	15	2	17	2	1	3	20
Nursery raising	1	15	2	17	2	1	3	20
Exotic vegetables like Broccoli								
Export potential vegetables								
Grading and standardization								
Protective cultivation (Green Houses, Shade Net etc.)								
b) Fruits								
Training and Pruning								
Layout and Management of Orchards								
Cultivation of Fruit	3	45	6	51	6	3	9	60
Management of young plants/orchards								
Rejuvenation of old orchards								
Export potential fruits								
Micro irrigation systems of orchards								
Plant propagation techniques								
c) Ornamental Plants								
Nursery Management								
Management of potted plants								
Export potential of ornamental plants								
Propagation techniques of Ornamental Plants								
d) Plantation crops								
Production and Management technology								
Processing and value addition								
e) Tuber crops								
Production and Management technology								
Processing and value addition								
f) Spices								
Production and Management technology								
Processing and value addition								
g) Medicinal and Aromatic Plants								
Nursery management								
Production and management technology								
Post harvest technology and value addition								
Total	**7**	**105**	**14**	**119**	**14**	**7**	**21**	**140**
III Soil Health and Fertility Management								
Soil fertility management								
Soil and Water Conservation								
Integrated Nutrient Management	02	30	04	34	4	2	06	40
Production and use of organic inputs	03	45	06	51	6	3	09	60
Management of Problematic soils								
Micro nutrient deficiency in crops								

Nutrient Use Efficiency	02	30	04	34	4	2	06	40
Soil and Water Testing	01	15	02	17	2	1	03	20
Total	**08**	**120**	**16**	**136**	**16**	**8**	**24**	**160**
IV Livestock Production and Management								
Dairy Management	01	15	2	17	2	1	3	20
Poultry Management								
Piggery Management								
Rabbit Management /goat								
Disease Management	04	60	8	68	8	4	12	80
Feed management	03	45	6	51	6	3	9	60
Production of quality animal products								
Total	**8**	**120**	**16**	**136**	**16**	**8**	**24**	**160**
V Home Science/Women empowerment								
Household food security by kitchen gardening and nutrition gardening								
Design and development of low/minimum cost diet	1	0	15	15	0	5	5	20
Designing and development for high nutrient efficiency diet								
Minimization of nutrient loss in processing								
Gender mainstreaming through SHGs	1	0	15	15	0	5	5	20
Storage loss minimization techniques	1	0	15	15	0	5	5	20
Value addition	3	0	45	45	0	15	15	60
Income generation activities for empowerment of rural Women	2	0	30	30	0	10	10	40
Location specific drudgery reduction technologies	1	0	15	15	0	5	5	20
Rural Crafts								
Women and child care								
Total	**9**	**0**	**135**	**135**	**0**	**45**	**45**	**180**
VI Agril. Engineering								
Installation and maintenance of micro irrigation systems								
Use of Plastics in farming practices								
Production of small tools and implements								
Repair and maintenance of farm machinery and implements								
Small scale processing and value addition								
Post Harvest Technology								
VII Plant Protection								
Integrated Pest Management	1	15	2	17	2	1	3	20
Integrated Disease Management	2	30	4	34	4	2	6	40
Bio-control of pests and diseases	1	15	2	17	2	1	3	20
Production of bio control agents and bio pesticides								
Total	**4**	**60**	**8**	**68**	**8**	**4**	**12**	**80**
VIII Fisheries								
Integrated fish farming								
Carp breeding and hatchery management								
Carp fry and fingerling rearing								
Composite fish culture								
Hatchery management and culture of freshwater prawn								
Breeding and culture of ornamental fishes								
Portable plastic carp hatchery								
Pen culture of fish and prawn								
Fish processing and value addition								
IX Production of Inputs at site								
Seed Production								
Planting material production (Horti.)								
Bio-pesticides production								
Vermi-compost production (Horti.)								
Organic manures production (A.S.)								
Production of fry and fingerlings								
Production of Bee-colonies and wax sheets								
Small tools and implements								
Production of livestock feed and fodder								
Production of Fish feed								
X Capacity Building and Group Dynamics								
Leadership development	1	18	0	18	2	0	2	20
Group dynamics								
Formation and Management of SHGs	1	18	0	18	2	0	2	20

Mobilization of social capital	3	54	0	54	6	0	6	60
Entrepreneurial development of farmers/youths	1	18	0	18	2	0	2	20
WTO and IPR issues	2	36	0	36	4	0	4	40
Total	**8**	**144**	**0**	**144**	**16**	**0**	**16**	**160**
XI Agro-forestry								
Production technologies								
Nursery management								
Integrated Farming Systems (Agro)								
XII Others (Pl. Specify)								
TOTAL	51	654	203	857	84	79	163	1020

C) Consolidated table (ON and OFF Campus)

Thematic Area	No. of Courses	No. of Participants						
		Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women								
I Crop Production								
Weed Management	1	15	2	17	2	1	3	20
Resource Conservation Technologies	5	84	4	88	10	2	12	100
Cropping Systems								
Crop Diversification	2	33	2	35	4	1	5	40
Integrated Farming								
Water management								
Seed production								
Nursery management								
Integrated Crop Management	5	81	6	87	10	3	13	100
Fodder production								
Production of organic inputs								
Total	**13**	**213**	**14**	**227**	**26**	**7**	**33**	**260**
II Horticulture								
a) Vegetable Crops								
Production of low volume and high value crops	6	86	14	100	15	5	20	120
Off-season vegetables	1	15	2	17	2	1	3	20
Nursery raising	2	27	5	32	5	3	8	40
Exotic vegetables like Broccoli								
Export potential vegetables								
Grading and standardization								
Protective cultivation (Green Houses, Shade Net etc.)								
b) Fruits								
Training and Pruning								
Layout and Management of Orchards								
Cultivation of Fruit	3	45	6	51	6	3	9	60
Management of young plants/orchards								
Rejuvenation of old orchards								
Export potential fruits								
Micro irrigation systems of orchards								
Plant propagation techniques								
c) Ornamental Plants								
Nursery Management								
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								
Total	**12**	**173**	**27**	**200**	**28**	**12**	**40**	**240**
III Soil Health and Fertility Management								
Soil fertility management								

Soil and Water Conservation								
Integrated Nutrient Management	04	66	04	70	8	2	10	80
Production and use of organic inputs	03	45	06	51	6	3	09	60
Management of Problematic soils								
Micro nutrient deficiency in crops								
Nutrient Use Efficiency	04	66	04	70	8	2	10	80
Soil and Water Testing	02	33	02	35	4	1	05	40
Total	**13**	**210**	**16**	**226**	**26**	**8**	**34**	**260**
IV Livestock Production and Management								
Dairy Management	1	15	2	17	2	1	3	20
Poultry Management								
Piggery Management								
Rabbit Management/goat								
Disease Management	5	78	8	86	10	4	14	100
Feed management	6	99	6	105	12	3	15	120
Production of quality animal products								
Total	**12**	**192**	**16**	**208**	**24**	**08**	**32**	**240**
V Home Science/Women empowerment								
Household food security by kitchen gardening and nutrition gardening	1	0	10	10	0	5	5	15
Design and development of low/minimum cost diet	1	0	15	15	0	5	5	20
Designing and development for high nutrient efficiency diet								
Minimization of nutrient loss in processing								
Gender mainstreaming through SHGs	1	0	15	15	0	5	5	20
Storage loss minimization techniques	1	0	15	15	0	5	5	20
Value addition	3	0	45	45	0	15	15	60
Income generation activities for empowerment of rural Women	2	0	30	30	0	10	10	40
Location specific drudgery reduction technologies	1	0	15	15	0	5	5	20
Rural Crafts								
Women and child care	1	0	10	10	0	5	5	15
Post Harvest Management	1	0	10	10	0	5	5	15
Total	**12**	**0**	**165**	**165**	**0**	**60**	**60**	**225**
VI Agril. Engineering								
Installation and maintenance of micro irrigation systems								
Use of Plastics in farming practices								
Production of small tools and implements								
Repair and maintenance of farm machinery and implements								
Small scale processing and value addition								
Post Harvest Technology								
VII Plant Protection								
Integrated Pest Management	3	45	6	51	6	3	9	60
Integrated Disease Management	3	45	6	51	6	3	9	60
Bio-control of pests and diseases	1	15	2	17	2	1	3	20
Production of bio control agents and bio pesticides								
Total	**7**	**105**	**14**	**119**	**14**	**7**	**21**	**140**
VIII Fisheries								
Integrated fish farming								
Carp breeding and hatchery management								
Carp fry and fingerling rearing								
Composite fish culture								
Hatchery management and culture of freshwater prawn								
Breeding and culture of ornamental fishes								
Portable plastic carp hatchery								
Pen culture of fish and prawn								
Shrimp farming								
Edible oyster farming								
Pearl culture								
Fish processing and value addition								
IX Production of Inputs at site								
Seed Production								
Planting material production								
Bio-agents production								
Bio-pesticides production								
Bio-fertilizer production								
Vermi-compost production								
Organic manures production								
Production of fry and fingerlings								
Production of Bee-colonies and wax sheets								
Small tools and implements								
Production of livestock feed and fodder								

Production of Fish feed								
X Capacity Building and Group Dynamics								
Leadership development	2	36	0	36	4	0	4	40
Group dynamics	0	0	0	0	0	0	0	0
Formation and Management of SHGs	2	36	0	36	4	0	4	40
Mobilization of social capital	4	72	0	72	8	0	8	80
Entrepreneurial development of farmers/youths	2	36	0	36	4	0	4	40
WTO and IPR issues	4	72	0	72	8	0	8	80
Total	**14**	**252**	**0**	**252**	**28**	**0**	**28**	**280**
XI Agro-forestry								
Production technologies								
Nursery management								
Integrated Farming Systems								
XII Others (Pl. Specify)								
TOTAL								
(B) RURAL YOUTH								
Mushroom Production	01	7	-	7	2	1	3	10
Bee-keeping								
Integrated farming								
Seed production (Hort)	01	15	-	15	0	0	0	15
Seed production (Agro)	01	15	-	15	0	0	0	15
Production of organic inputs (SS)	02	30	0	30	0	0	0	30
Integrated Farming (Medicinal)								
Planting material production	1	04	-	04	1	-	1	05
Vermi-culture (SS)								
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 (Ext)								
Production of quality animal products								
Dairying (AS)	02	30	0	30	0	0	0	30
Sheep and goat rearing								
Quail farming								
Piggery								
Rabbit farming								
Poultry production (AS)								
Ornamental fisheries								
Para vets								
Para extension workers								
Shrimp farming								
Pearl culture								
Cold water fisheries								
Fish harvest and processing technology								
Fry and fingerling rearing								
Small scale processing (HS)	1	10	0	10	5	0	5	15
Post Harvest Technology	1	0	10	10	0	5	5	15
Tailoring and Stitching								
Rural Crafts (HS)	1	0	10	10	0	5	5	15
TOTAL	**11**	**104**	**22**	**126**	**13**	**11**	**24**	**150**
(C) Extension Personnel								
Productivity enhancement in field crops (Agro)	02	30	0	30	0	0	0	30
Integrated Disease Management (PP)	1	15	0	15	0	0	0	15
Integrated Pest Management (PP)	1	15	0	15	0	0	0	15
Integrated Nutrient management (SS)	04	60	0	60	0	0	0	60
Integrated Crop Management (Hort)	04	53	0	53	5	2	7	60
Cultivation of fruit								
Rejuvenation of old orchards								
Off-Season Vegetable Production								
Protected cultivation technology (Hort)								
Formation and Management of SHGs								
Group Dynamics and farmers organization(Ext)								
Information networking among farmers(Ext)	04	60	0	60	0	0	0	60
Capacity building for ICT application (Ext)								
Care and maintenance of farm machinery and implements								
WTO and IPR issues								

Management in farm animals	01	15	0	15	0	0	0	15
Livestock feed and fodder production								
Household food security (HS)	01	15	0	15	0	0	0	20
Women and Child care								
Low cost and nutrient efficient diet designing (HS)	01	15	0	15	0	0	0	20
Production and use of organic inputs (SS)								
Gender mainstreaming through SHGs								
Feed Management (AS)								
Disease Management (AS)	01	15	0	15	0	0	0	15
Bio-control of pest and diseases								
Soil and Water Testing								
Management of problematic soil								
Micronutrient Deficiency in Crop (SS)								
TOTAL	**20**	**293**	**-**	**293**	**7**	**-**	**7**	**300**
G. Total	114	1542	274	1816	166	113	279	2095

Details of training programmes attached in **Annexure -I**

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	6	200	25	225	15	-	15	215	25	240
Kisan Ghosthi	8	200	20	220	15	-	15	215	20	235
Kisan Mela	1	850	100	950	50	-	50	900	100	1000
Film Show	5	140	20	160	5	-	5	145	20	165
Method Demonstrations	6	120	10	130	-	-	-	120	10	130
Group meetings	2	-	30	30	-	5	5	-	35	35
Newspaper coverage	50	Mass								
Radio talks	10									
TV talks	20									
Popular articles	10									
Advisory Services	300	200	50	250	50	-	50	250	50	300
Scientific visit to farmers field	100	290	60	350	-	-	-	290	60	350
Farmers visit to KVK	300	425	75	500	-	-	-	425	75	500
Self Help Group Conveners meetings	2	15	5	20	-	-	-	15	5	20
Animal health /vaccination camp	2	50	10	60	-	-	-	50	10	60
Exhibition	1	850	100	950	50	-	50	900	100	1000
Lecture to be delivered as resource person	25	2500	-	2500	-	-	-	2500	-	2500
Extension literature	7	-	-	-	-	-	-	-	-	-
Diagnostic visit	150	300	20	320	-	-	-	300	20	320
Soil health camp	3	120	30	150	-	-	-	120	30	150
Soil test campaign	10	300	50	350	20	-	20	320	50	370
Celebration of important days	2	40	-	40	10	-	10	50	-	50
Farmers-Scientists interaction	4	140	-	140	-	-	-	140	-	140
SMS Advisory services	-	-	-	-	-	-	-	-	-	-
Total	1024	6740	605	7345	215	5	220	6955	610	7565

3.5 Target for Production and supply of Technological products (Apr'20 to Mar'21)

Seed Materials

Sl. No.	Crop	Variety*	Qty targeted(q)	Season	Area (ha)
A.	**CEREALS**				
	Rice	NDR-20165,HUR-105,Sambha Sub-1	140.00	Kharif-2020	05
	Wheat	HD-2967/DBW 187, DBW-252	140.00	Rabi-2020-21	05
B.	**OILSEEDS**				
	Mustard	Pitambari,RH-749, Giriraj	8.00	Rabi-2020-21	01
C.	**PULSES**				
	Chick Pea	GNG – 1581	10.00	Rabi-2020-21	01
	Pigeon Pea	IPA-203	15.00	Kharif-2020	02
D.	**VEGETABLES**				
	Potato	KufriKhyati,Kufri Sinduri,Kufari Lalima	80.00	Rabi-2020-21	1
E.	**FODDER CROPS**				
F.					
Total			403		15.0

Planting Materials:20000

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Papaya,Mango, Guava,Anvala, Ber, Bael, Jackfruit	Honey Dew, Pusa Dwarf,Gaurvajeet, Dashahari,Amrapali, Mallika,Gola,Narendra Beal	500
VEGETABLES	Tomato (summer+winter)	Kashi Amrit, Kashi Vishesh	16000
	Brinjal (Summer+Winter)	Kashi Sandesh,Pant Rituraj	
	Chilli	Kashi Anmol, Azad Mirch-1	
	Cole crops (Cauliflower+Cabbage)	Pant Subhra-1	
	Onion	ALR/ADR	
ORNAMENTAL CROPS	Marigold,Rose,Gladolus, **Calandula**	Pusa Narangi	3500
	Winter season annuals	**Calandula**	
Total (Nos)			20,000

Bio-products

SN	Product Name	Species	(kg)
Bio Fertilizers	Vermin compost + verms	*EiseniafetidaEudrimusEugeniae*	Compost-500kg Verms-30kg
Azola	--	Azola	100 Kg

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			Nos	Kg
Cattle				
SHEEP AND GOAT				
POULTRY				
FISHERIES		Common Carp,Rohu Carp, Catala Carp ,Slver Carp		200 Kg.
Others (Specify)				

3.6. Literature to be Developed/Published

(A) KVK News Letter : yes
Date of Start : 2020-21
Number of copies to be published : 200

(B) Literature to be developed/published

Item	Number of copies
Research papers	06
Technical reports	02
News letters	02
Technical bulletins	02
Popular articles	12
Extension literature	08
TOTAL	**32**

(C) Details of Electronic Media to be produced

SN	Type of media(CD/VCD/DVD/Audio-cassette)	Title of the programme	Number
1	Audio		

3.7. Success stories/Case studies to be identified for development as a case.(Nos):05

3.8. Indicate the specific training need analysis tools/methodology followed for

Group meeting, scientist farmers' interface, discussion with farmers, and request from governmental line department

- **Practicing Farmers**
- **Rural Youth**
- **In-Service Personnel**

3.9. Indicate the methodology for identifying OFTs/FLDs

For OFT :

i) Field level observations
ii) Farmer group discussions

For FLD :

i) New variety/technology
ii) Poor yield at farmers level

3.10 Field activities

i. Name of villages identified/adopted with block name (from which year) - 25 villages Block:- Campierganj (4-village), JangalKaudiya(7-village), Bhathat(1-village), Pali (3-village), Chargawan(3-village), Pipraich(3-village), Sardar Nagar (1-village), Khorabar(1-village) and Sahjanwan (02 Village)
ii. No. of farm families selected per village :100
iii. No. of survey/PRA conducted :05
iv. No. of technologies taken to the adopted villages
v. Name of the technologies found suitable by the farmers of the adopted villages: vi. Impact (production, income, employment, area/technological– horizontal/vertical)
vii. Constraints if any in the continued application of these improved technologies

3.11. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab : Soil Testing Lab established with 2 soil testing mini kit

1. Year of establishment : Soil Testing Lab establishment year is **2017**

2. List of equipment's purchased with amount: to be purchase

SN	Name of the Equipment	Qty	Cost(Rs)
1	Flame Photometer		
2	Digital pH meter		
3	Digital pH conductivity meter		
4.	Physical balance		
5.	Oven		
6.	Spectrophotometer attached with computer		
7.	Dispenser		
8.	Electronic Balance		
9.	Blender with lift off container		
10.	Double Distillation with auto cut		
11.	Hot Plate		
12.	Kjeldhal distillation		
13.	Shaking Machine		
14.	Water Deionizer		
15.	Fume Hood		
16.	Incubator		
17.	Ultra violet Tube		
18.	Soil Testing Kit	02	2,02,960.00
19.	Refrigerator		
20.	Gas Cylinder (LPG)		
21.	Regulator (LPG)		
22.	Gas Pipe		
Total			

3. Targets of samples for analysis:

Details	No. of Samples	No. of Farmers	No. of Villages	Amount to be realized
Soil Samples	500	3000	150	-
Water	0	0	0	-
Plant	250	250	70	-
Total	**750**	**3250**	**220**	

4.0 LINKAGES

4.1 Functional linkage with different organizations

SN	Name of Organization	Nature of Linkage
1.	Soil testing department	Trainers for training, assistance in soil testing lab of KVK, assistance in organizing Kisan Mela
2.	RTI	Training
3.	District Agriculture Department	Training, diagnostic survey, conducting in-service training programme, Food Security Mission
4.	District Horticulture Department	Training, Diagnostic survey, National Horticulture Mission
5.	IIVR Varanasi	Resource person for training, Diagnostic survey, cooperative vegetable seed linkage
6.	IFFCO Foundation	Training & demonstration
7.	KRIBHCO	Grading of seeds
8.	Deptt of Animal Husbandry	Vaccination, deworming and trainings
9.	NABARD	Participation in meeting and training
10.	Nehru Yuva Kendra	Training
11.	Extension Directorate, NDUA&T, FAIZABAD	Latest released varieties & guidance
12	PPL, Varanasi	Training
13	TATA Chemicals limited, Bombay	Training
14	Dhanuka, New Delhi	Kisan Mela
15.	Banks	Kisan Mela.
16.	CIMAP, Lucknow	Advisory Services
17	ATMA, Gorakhpur	Training, Member Governing Board, Advisory Services
18	DSR, Mau	Training, Seed Linkage
19	Mahindra Samridhi	Training, Soil Testing
20	IARI, New Delhi	Demonstration
21	NHM, New Delhi	Demonstration units, Training
22	IISR	Demonstration units, Training
23	ITC	Training
24	UP Food Preservation Dept.	Food Preservation
25	NRLM	SHG
26	Reliance	Advisary Services
27	Tata Dhanya	Training, Demonstration
28	Byer Crop Sciences	Training, Demonstration
29	Nuzivedu	Training, Demonstration
30	Dayal Feritlizer	Training, Demonstration

31	UPL	Training, Demonstration

4.2 Details of linkage with ATMA

a) Is ATMA implemented in your district (Yes/No) :Yes

Sl. No.	Programme	Nature of linkage	Remarks
1.	Training programme	Scientists as resource person	Attend programmes
2.	AES (Agro-Ecological situation)	Scientists of KVK visits trials conducted by ATMA	-
3.	Front Line Demonstration (FLD)	KVK's scientists visits demonstrations for supervision	-o

4.3 Give details of programme under National Horticulture Mission

SN	Programme	Nature of linkage

4.4 Nature of linkage with National Fisheries Development Board

SN	Programme	Nature of linkage

5.0 Utilization of Hostel facilities

SN	Programmes	No of days
1	-	-
2	-	-
4	-	-
Total		

6.0 Convergence with departments:Krishi Vigyan Kendra Gorakhpur is working in collaboration with ATMA towards agricultural development of district Gorakhpur. KVK Gorakhpur is also working with line departments in training, demonstration, planning etc.

7.0 Feedback of the farmers about the technologies demonstrated and assessed :

8.0 Feedback from the KVK Scientists (Subject wise) to the research institutions/universities:

Annexure-I

Training Programme

i) Farmers & Farm women (On Campus)

Date	Clientele (PF/RY/FW)	Title of the training programme	Duration in days	Number of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
Crop Production										
01-June-20	PF	Raised bed and skip method of sowing in pigeon pea	1	18	0	18	2	0	2	20
08-June-20	PF	Techniques of rice cultivation SRI method	1	18	0	18	2	0	2	20
08-Oct-20	PF	Intercropping techniques in autumn sugarcane crop for income generation	1	18	0	18	2	0	2	20
02-Nov-20	PF	Wheat + Sugarcane: an innovative approach for doubling income of farmers	1	18	0	18	2	0	2	20
28-Oct-20	PF	Raised bed sowing in chickpea for higher production	1	18	0	18	2	0	2	20
16-March-21	PF	Intercropping techniques in spring sugarcane crop for income generation	1	18	0	18	2	0	2	20
		Total	**6**	**108**	**0**	**108**	**12**	**0**	**12**	**120**
Horticulture										
11-April-20	PF	Plastic mulching for efficient use for weed management in Brinjal crop	1	10	5	15	3	2	5	20
15-May-20	PF	Use of trellis system in Bottlegourd & Bittergourd production for higher income	1	18	0	18	2	0	2	20
12-Sept.- 20	PF	Use of drip irrigation for efficient use of water in tomato/chilli crop for higher monetary returns	1	10	5	15	4	1	5	20
15-Oct.- 20	PF	Autumn sugarcane intercropping with gladiolus/ marigold/radish for doubling income	1	18	0	18	2	0	2	20
20-March-21	PF	Scientific farming of cucumber and capsicum in green house for doubling income	1	12	3	15	3	2	5	20
		Total	**05**	**68**	**13**	**81**	**14**	**5**	**19**	**100**
Livestock prod.										
11-Nov-2020	PF	Preparation of balance ration for milch animal	1	18	-	18	2	-	2	20
15-Jan.-2021	PF	Ideal animal husbandry for milk production & income generation	1	18	-	18	2	-	2	20
17-Feb-2021	PF	Important diseases of cattle and their control measures	1	18	-	18	2	-	2	20
25-Mar-2021	PF	Improvement of poor quality roughages like paddy & wheat straw	1	18	-	18	2	-	2	20
		Total	**4**	**72**	**-**	**72**	**8**	**-**	**8**	**80**
Home Sc.										
21-May-20	FW	Post-harvest management: preservation through different methods	1	0	15	15	0	5	5	20
22-Aug-20	FW	Child care and health: nutrient requirement and food preparation for different age group	1	0	15	15	0	5	5	20
6-Nov-20	FW	Production of seasonal vegetables to enhance health status	1	0	15	15	0	5	5	20
		Total	**3**	**0**	**45**	**45**	**0**	**15**	**15**	**60**
Plan protection										
10 June-20	PF	Cultural pest management practices in summer pulses for higher returns	1	15	2	17	2	1	3	20

25-Jul-20	PF	Disease management in paddy crop for higher returns	1	15	2	17	2	1	3	20
23-Oct-20	PF	Pod borer management in gram for yield intensification	1	15	2	17	2	1	3	20
		Total	**03**	**45**	**06**	**51**	**06**	**03**	**09**	**60**
Soil Health										
27-April-20	PF	Use of biofertilizer for enhancing nutrient use efficiency in pulse crop	1	18	0	18	2	0	2	20
04-June-20	PF	Importance of soil testing	1	18	0	18	2	0	2	20
13-July-20	PF	Site specific nutrient management in paddy & use of bio-fertilizer	1	18	0	18	2	0	2	20
18-Oct.- 20	PF	INM in wheat for higher production & returns	1	18	0	18	2	0	2	20
22-Feb-21	PF	INM in cucurbitaceous crop for income generation	1	18	0	18	2	0	2	20
		Total	**5**	**90**	**0**	**90**	**10**	**0**	**10**	**100**
Agri.Ext.										
04-April-20	PF	Awareness towards PMFBY for compensate crop losses	1	18	0	18	2	0	2	20
08-June-20	PF	Policy and programmes for doubling farm income	1	18	0	18	2	0	2	20
10-Aug.- 20	PF	Role of ICT in doubling the income of farmers	1	18	0	18	2	0	2	20
15-Oct.- 20	PF	Efficient marketing channels for enhancing the income of farm produce	1	18	0	18	2	0	2	20
06-Feb-21	PF	Awareness about need based and useful enterprise and their marketing through SHGs	1	18	0	18	2	0	2	20
08-March-21	PF	Need and importance of Agripreneurship	1	18	0	18	2	0	2	20
			6	**108**	**0**	**108**	**12**	**0**	**12**	**120**

i) Farmers & Farm women (Off Campus)

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
Crop Production										
11-Aug-20	PF	Intercropping technique in pigeon pea for higher income	1	15	2	17	2	1	3	20
26-Sept-20	PF	Smart nitrogen management in paddy through leaf colour chart	1	15	2	17	2	1	3	20
11-Oct-20	PF	Ring pit method of sugarcane planting for saving irrigation water	1	15	2	17	2	1	3	20
22-Oct- 20	PF	Irrigation scheduling at critical growth stages of sugarcane for yield enhancement and water saving	1	15	2	17	2	1	3	20
06-Nov,- 20	PF	Intercropping technique in chick pea for higher income	1	15	2	17	2	1	3	20
18-Nov,- 20	PF	Enhancing wheat production through furrow irrigation Raised bed technology	1	15	2	17	2	1	3	20
10-March-21	PF	Trash mulching in sugarcane ratoon for moisture conservation, controlling weeds and regulation of soil temperature	1	15	2	17	2	1	3	20
		Total	**7**	**105**	**14**	**119**	**14**	**7**	**21**	**140**
Horticulture										
20-April-20	PF	Use of plastics tray & polybag for	1	15	2	17	2	1	3	20

		seedling production for income generation								
06-June-20	PF	Intercropping of vegetables with Banana crop for doubling income	1	15	2	17	2	1	3	20
24-July-20	PF	Scientific cultivation of Papaya for income generation and nutritional security	1	15	2	17	2	1	3	20
10-Aug.- 20	PF	Intercropping of garlic and onion crop with sugarcane for doubling income	1	15	2	17	2	1	3	20
16-Dec.- 20	PF	Off season seedling of Bottle gourd, Bitter gourd & Cucumber production for maximizing the monetary returns	1	15	2	17	2	1	3	20
22-Jan.-21	PF	Production of healthy seedlings of brinjal &chilli through low tunnel system	1	15	2	17	2	1	3	20
11-Feb.-21	PF	Scientific cultivation of pointed gourd in place of Kundru for higher income	1	15	2	17	2	1	3	20
		Total	**7**	**105**	**14**	**119**	**14**	**7**	**21**	**140**
Live Stock Production.										
12-May-20	PF	Vaccination schedule for livestock	1	15	2	17	2	1	3	20
25-July-20	PF	Ideal animal husbandry through scientific method for income generation	1	15	2	17	2	1	3	20
14-August-20	PF	Care and management of heifer	1	15	2	17	2	1	3	20
23-Sept-20	PF	Control of sterility & infertility in farm animals	1	15	2	17	2	1	3	20
13-Dec-20	PF	Conserving fodder during scarcity (hay and silage making)	1	15	2	17	2	1	3	20
13-Jan-21	PF	Preparation of balance ration for milch animals through locally available feed ingredient	1	15	2	17	2	1	3	20
21-Feb-21	PF	Mastitis: its cause and prevention	1	15	2	17	2	1	3	20
16-Mar-21	PF	Scientific poultry farming for higher income	1	15	2	17	2	1	3	20
		Total	**8**	**120**	**16**	**136**	**16**	**8**	**24**	**160**
Plant protection										
10-Oct-20	PF	Insect pest management in vegetable crops through bio-pesticides	1	15	2	17	2	1	3	20
20-Nov-20	PF	Blight identification in potato and their management for higher returns	1	15	2	17	2	1	3	20
19-Feb-21	PF	Pest management in mango orchard for higher production	1	15	2	17	2	1	3	20
05 Mar.- 21	PF	Increasing higher income in banana through use of IPM technology	1	15	2	17	2	1	3	20
		Total	**04**	**60**	**08**	**68**	**08**	**04**	**12**	**80**
Home Science										
07-Aug-20	FW	SHG: Income generation through group approach	1	0	15	15	0	5	5	20
20-Sept-20	FW	Awareness and importance of bio fortified food.	1	0	15	15	0	5	5	20
24-Oct-20	FW	Poshak thali: Nutrient management of farm women of different age group	1	0	15	15	0	5	5	20
14-Nov-20	FW	Energy management through different mode of drudgery reducing tools	1	0	15	15	0	5	5	20
04-Dec-20	FW	Value addition of seasonal fruit source of income generation	1	0	15	15	0	5	5	20

28-Dec-20	FW	Developing technology resource centre for custom hiring practice	1	0	15	15	0	5	5	20
20-Jan-21	FW	Problem and remedies through use of drudgery reducing tools among vegetable growers	1	0	15	15	0	5	5	20
5-Feb-21	FW	Post-harvest management	1	0	15	15	0	5	5	20
12-Mar-21	FW	Scientific method of grain storage	1	0	15	15	0	5	5	20
		Total	**9**	**0**	**135**	**135**	**0**	**45**	**45**	**180**
Soil health										
10- April-20	PF	INM in summer pulses for yield enhancement	1	15	2	17	2	1	3	20
15-June-20	PF	Use of balanced dose of chemical fertilizer and bio-fertilizer in paddy	1	15	2	17	2	1	3	20
12 July-20	PF	INM in vegetable crops	1	15	2	17	2	1	3	20
20-Sept-20	PF	Importance of soil testing	1	15	2	17	2	1	3	20
15-Oct-20	PF	INM in wheat	1	15	2	17	2	1	3	20
05-Nov-20	PF	Use of organic manure and biofertilizer in rabi crop for enhancing nutrient use efficiency	1	15	2	17	2	1	3	20
26-Dec-20	PF	Use of biofertilizer and organic manure in rabi season crop	1	15	2	17	2	1	3	20
22-Feb-20	PF	INM in cucurbitaceous crop	1	15	2	17	2	1	3	20
		Total	**8**	**120**	**16**	**136**	**16**	**8**	**24**	**160**
Extension										
17-Aug,- 20	PF	Awareness towards income generation via SHGs	1	18	0	18	2	0	2	20
14-June,- 20	PF	Use and importance of ITK in farming community	1	18	0	18	2	0	2	20
17-Aug,- 20	PF	Soil and Seed treatment for increasing the farm income	1	18	0	18	2	0	2	20
28-Sep,- 20	PF	Poverty alleviation programs for employment and income generation	1	18	0	18	2	0	2	20
28-Nov,- 20	PF	Awareness towards human and soil health	1	18	0	18	2	0	2	20
25-Jan,- 21	PF	Mobile phone as a tool of reducing the input cost	1	18	0	18	2	0	2	20
04-Feb,- 21	PF	Income generation via mobilizing farm people	1	18	0	18	2	0	2	20
05-Mar,-21	PF	Agriculture as a business: doubling the income	1	18	0	18	2	0	2	20
			8	**144**	**0**	**144**	**16**	**0**	**16**	**160**

ii) Vocational training programmes for Rural Youth

SN	Crop / Enterprise	Identified Thrust Area	Training title*	Month	Duration (days)	No. of Participants			SC/ST participants			G.Total
						M	F	T	M	F	T	
1	Preservation (HS)	Low income	Preservation Methods	27 May - 02 June-20	7	-	10	10	-	5	5	15
2	SHG	Skill Development	Candle and Agarbatti Making	14-24 Oct-20	10	-	10	10	-	5	5	15
3	Biofertilizer (SS)	Bio-fertlizer use promotion	Use of biofertilizer for enhancing nutrient use efficiency and yield maximization	26-28 Oct.- 20	03	15	-	15	0	0	0	15
4	Organic manure(SS)	Promotion of organic manure	Preparation and production organic manure	05-09 Mar.21	05	15	-	15	0	0	0	15
5	Vegetables	Promotion of	Seedling production	14-18	05	8	02	10	5	-	5	15

	(Hort)	Seedling production	technique through shade net/low tunnel	Jan.-21								
6	Saplings production (Hort)	Production of saplings	Maligiri training	05-09 July-20	05	04	-	04	1	-	1	05
7	Mushroom (PP/Hort)	Promotion of supplementary food	Mushroom production technology	10-12 Sept.- 20	03	7	-	7	2	1	3	10
8	Wheat (Agro)	Seed production	Seed production technology of wheat	22-24 Nov-20	03	15	-	15	0	0	0	15
9	Honey bee (Ext)	Production of honey for income generation	Honey Production technology	12-14 Nov,-20	03	10	-	10	5	0	5	15
10	Goat	Goatary	Scientific Goat farming	13-17 Nov. 20	05	15	-	15	0	0	0	15
11	Crop + Livestock	Integrated farming system	Income generation through integrated farming system	12-16-Mar., 21	05	15	-	15	0	0	0	15
Total						**104**	**22**	**126**	**13**	**11**	**24**	**150**

iii) Training programme for extension functionaries (On campus)

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
On Campus										
26-April-20	**EF**	Doubling income through IFS among farm women (H.Sc.)	1	15	0	15	0	0	0	15
11-Oct-20	**EF**	Preparation of low cost nutritious food recipes (H.Sc.)	1	15	0	15	0	0	0	15
15-Oct.- 20	**EF**	Integrated pest management in sugarcane- (PP)	1	15	0	15	0	0	0	15
22-Feb-21	**EF**	Insect-pest and disease management in vegetable crop through bio-pesticides-(PP)	1	15	0	15	0	0	0	15
04-April.-20	**EF**	Plastic culture for vegetables production (Hort)	1	15	0	15	0	0	0	15
17- July-20	**EF**	Production technology of kharif onion crop (Hort)	1	15	0	15	0	0	0	15
19-Sept.- 20	**EF**	Scientific cultivation of Potato crop (Hort)	1	10	0	10	5	0	5	15
21-Nov.- 20	**EF**	Use of polyhouse, green house & net house for horticulture crop production (Hort)	1	13	0	13	2	0	2	15
05-April-20	**EF**	Integrated nutrient management in zaid crops(SS)	1	15	0	15	0	0	0	15
02-Aug-20	**EF**	Integrated nutrient management in paddy for increasing nutrient use efficiency (SS)	1	15	0	15	0	0	0	15
08-Nov.-20	**EF**	Importance of micronutrients in rabi crops (SS)	1	15	0	15	0	0	0	15
21-Feb-21	**EF**	Importance of bio-fertilizer in zaid vegetable (SS)	1	15	0	15	0	0	0	15
26-Oct-20	**EF**	Seed production technique of chickpea (Agron)	1	15	0	15	0	0	0	15
20-Mar-20	**EF**	Seed production technique of summer pulses (Agron)	1	15	0	15	0	0	0	15
30-Oct,- 20	**EF**	Awareness towards policy and programmes for doubling the farm income	1	15	0	15	0	0	0	15

21-Nov,- 20	**EF**	Identify & Prioritize thrust area through PRA	1	15	0	15	0	0	0	15
16-Feb,-21	**EF**	Training Need Assessment	1	15	0	15	0	0	0	15
06-Mar,-21	**EF**	Challenges and opportunities for startups	1	15	0	15	0	0	0	15
10-Jan-21	**EF**	Infertility management in dairy animals (Ani Sc.)	1	15	0	15	0	0	0	15
18-Dec-20	**EF**	A.I. technique & its importance in breed improvement (Ani Sc.)	1	15	0	15	0	0	0	15
		Total	**20**	**293**	**-**	**293**	**07**	**-**	**07**	**300**

iv) Sponsored programme

Discipline	Sponsoring agency	Clientele	Title of the training programme	No. of course	No. of participants			Number of SC/ST			G. Total
					M	F	T	M	F	T	
a) Sponsored training progdramme											
			Total								
b) Sponsored research programme											
			Total								
c) Any special programmes											
			Total								

Quality Vegetable Nursery Development Plan(2020-21): 0.25 एकड)

SN	Name of vegetable
1	Toamto: Kashi vishesh, Kashi aman, kasha abhiman (hybrid), Kashi amrit
2	Brinjal: Kashi sandesh (round), Kashi taru (long)
3	Cauliflower: Pusasharad,, Pant shubhra, Pant gobhi-2
	Cabbage: Pusaageti, Pusamukta, Golden ekr
4	Chilli: Kashi surkh, Kashi early, Kashi anmol, Arkameghna, Arkasweta
5	Papaya: Pusananha, Surya, CO-71

औषधीयवाटिकाइकाई: 0.1एकड़(2020-21):

SN	Name of Plant
1	अश्वगंधा:जवाहर-20, 134
2	सतावर:स्थानीय
3	सर्पगन्धा:आर. एस.-1
4	कालमेघ:स्थानीय
5	स्टीविया:एस.वी.आर.-123
6	सफेदमूसली:स्थानीय
7	ब्राह्मी:
8	सनाय:
9	ग्वारपाठा (एलोवेरा):
10	मुलैठी:

Budget Requirement For:-

- **ATIC for KVK**
- **Plant health clinic**
- **Hightech IT LAB, Projector and 2.5 lakh for Big Screen LED TV**
- **Metrological observatory**
- **Implements (ZT Machine, Potato planter, Raised bed Planter, Paddy trans planter, Power sprayer and Duster, Laser leveler,Multi crop thresher, Power tiller and reaper,Harvester, etc.)**
- **Seed godown**
- **H.Sc. Lab**
- **Dairy unit**
- **Library**
- **Farm waste machine**
- **Storage bin**
- **Generator**
- **Sprinkler and drip irrigation system budget**
- **Multimedia projector, Digital camera etc**
- **Ward wire fencing**