

# ANNUAL ACTION PLAN

## APRIL 2020 to MARCH 2021



**KRISHI VIGYAN KENDRA, BADAUN-I**

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**Officer Incharge**

# SUMMARY OF ACTION PLAN ACTIVITIES

OFT		FLD		Training	
01		02		03	
No. of OFTs	No. of Farmers	Crops		No. of Courses	No. of Participants
		Area (ha)	No. of Farmers		
14	42	79	195	118	2030

Extension Activities		Seed Production (Qtl.)	Planting material (Nos.)	Soil Samples	Development of Soil Health Cards
04					
No. of activities	No. of participants	05	06	07	08
4980	Mass	200 q	20000	1500	3000

<b>OFT - 1</b>	
<b>Particulars</b>	<b>Contents</b>
<b>Title</b>	<b>Management of fruit borer in Capsicum</b>
<b>Problem diagnosed</b>	<b>Low yield of Capsicum due to severe attack of fruit borer</b>
<b>Micro farming situation</b>	<b>Irrigated and Sandy loam soil</b>
<b>Details of technology identified for solution</b>	<b>Treatment 1</b> : Cypermethrin 10EC @750 ml/ha <b>Treatment 2</b> : Indoxacarb 14.5% @ 500 ml/ha
<b>No. of farmers</b>	<b>03</b>
<b>Replications</b>	<b>03</b>
<b>Critical inputs</b>	<b>Indoxacarb</b>
<b>Production system</b>	<b>Rice-Maize-Capsicum</b>
<b>Source of technology</b>	<b>ICAR (IIVR, Vanarasi)</b>
<b>Total Cost</b>	<b>Rs. 4000.00</b>
<b>Observation to be recorded</b>	<b>I. a. Percentage of dead heart   b. Yield (q/ha)</b> <b>II. Economics   - a. Cost of cultivation (Rs./ha)</b> <b>                         b. Gross return (Rs./ha)    c. Net return (Rs./ha)   d. B : C ratio</b>

<b>OFT - 2</b>	
<b>Particulars</b>	<b>Contents</b>
<b>Title</b>	<b>Fruit borer management in Tomato</b>
<b>Problem diagnosed</b>	<b>Low yield of Tomato due to high infestation of fruit borer</b>
<b>Micro farming situation</b>	<b>Irrigated and Sandy loam soil</b>
<b>Details of technology identified for solution</b>	<b>Treatment 1</b> : Cypermethrin 10% EC @750 ml/ha (FP) <b>Treatment 2</b> : Spinetoram 11.7%SC @500 ml/ha
<b>No. of farmers</b>	<b>03</b>
<b>Replications</b>	<b>03</b>
<b>Critical inputs</b>	<b>Spinetoram</b>
<b>Production system</b>	<b>Tomato-Maize</b>
<b>Source of technology</b>	<b>IIVR, Varanasi</b>
<b>Total Cost</b>	<b>Rs. 5200.00</b>
<b>Observation to be recorded</b>	<b>I. a. Percentage of Infested fruit   b. Yield (q/ha)</b> <b>II. Economics   - a. Cost of cultivation (Rs./ha)</b> <b>                         b. Gross return (Rs./ha)    c. Net return (Rs./ha)   d. B : C ratio</b>

OFT - 3	
Particulars	Contents
Title	Foliar application of sulphur to increase oil productivity in Mentha
Problem diagnosed	Low oil yield due to sulphur deficiency
Micro farming situation	Irrigated and Sandy loam soil
Details of technology identified for solution	<b>Treatment 1</b> : Farmer's Practice <b>Treatment 2</b> : Foliar application of sulphur (WDG) @ 3gm/ltr at 60 and 75 days after planting
No. of farmers	03
Replications	03
Critical inputs	Sulphur
Production system	Rice-Potato-Mentha
Source of technology	CIMAP
Total Cost	Rs. 8000.00
Observation to be recorded	I. Yield II. Economics - a. Cost of cultivation (Rs./ha) b. Gross return (Rs./ha) c. Net return (Rs./ha) d. B : C ratio

Particulars	Contents
<b>Title</b>	<b>Varietal evaluation of Onion</b>
<b>Problem diagnosed</b>	<b>Low yield &amp; poor keeping quality</b>
<b>Micro farming situation</b>	<b>Irrigated and Sandy loam soil</b>
<b>Details of technology identified for solution</b>	<b>Treatment 1 : Farmer's practice (Desi)</b> <b>Treatment 2 : Bhima Kiran @ 10 Kg / ha</b>
<b>No. of farmers</b>	<b>03</b>
<b>Replications</b>	<b>03</b>
<b>Critical inputs</b>	<b>Seed of onion varieties - Bhima Kiran</b>
<b>Production system</b>	<b>Bajra- Onion</b>
<b>Source of technology</b>	<b>Directorate of Onion &amp; Garlic Research, Pune Maharashtra</b>
<b>Total Cost</b>	<b>Rs. 6000.00</b>
<b>Observation to be recorded</b>	<b>I. Yield</b> <b>II. Economics - a. Cost of cultivation (Rs./ha)</b> <b>b. Gross return (Rs./ha) c. Net return (Rs./ha) d. B : C ratio</b>

<b>OFT – 5 &amp; 6</b>	
<b>Particulars</b>	<b>Contents (Kharif 2020 &amp; Rabi 2020-21)</b>
<b>Crop/Enterprise</b>	<b>Buffalo</b>
<b>Title</b>	UMMB feeding to control repeat breeding in buffalo
<b>Problem diagnosed</b>	Higher incidences of repeat breeding
<b>Micro farming situation</b>	Animal husbandry
<b>Thematic area</b>	Nutrition management
<b>Details of technologies selected for assessment/refinement</b>	
<b>T<sub>1</sub></b>	Farmer's practice (Use of choker and common salt)
<b>T<sub>2</sub></b>	Use of Dewormer (10 ml ivermectin inj.)/animal & UMMB feeding (Licking)@2 kg each for 8-10 days - 4 brick/ month/animal for three month feeding
<b>No. of families/animal</b>	03
<b>Replications</b>	03
<b>Critical Input</b>	UMMB 36 blocks & Dewormer (30 ml ivermectin injection)
<b>Source of technology</b>	IVRI, Izzatnagar, Bareilly
<b>Observations to be recorded</b>	<ul style="list-style-type: none"> <li>No. of cured animals</li> <li>Cost: Benefit ratio</li> </ul>

<b>OFT – 7 &amp; 8</b>	
<b>Particulars</b>	<b>Contents (Kharif 2019 &amp; Rabi 2019-20)</b>
<b>Crop/Enterprise</b>	<b>Buffalo</b>
<b>Title</b>	<b>Evaluation of clinical and non-clinical treatment for post calving anoestrous</b>
<b>Problem diagnosed</b>	<b>Higher incidences of post-calving anoestrous</b>
<b>Micro farming situation</b>	<b>Animal husbandry (Buffalo)</b>
<b>Details of technology identified for solution</b>	<b>T1 : Farmer’s practice (Use of choker and common salt) T2 : Use of Dewormer (10 ml ivermectin inj.)/animal &amp; Vetmate (Gonadotrophic hormone) inj 2 ml (72 hrs before AI) after 45 days of calving + Mineral mixture supplementation @ 50 g/day /animal for 45 days</b>
<b>No. of farmers</b>	<b>03</b>
<b>Replications</b>	<b>03</b>
<b>Critical inputs</b>	<b>Ivermectin injection 30 ml , Multi vitamins (Vimeral) 900 ml Mineral Mixture (Chileted) 6 kg , Vetmate (6 ml)</b>
<b>Production system</b>	<b>Animal husbandry (Buffalo)</b>
<b>Source of technology</b>	<b>IVRI , Izzatnagar, Bareilly</b>
<b>Observation to be recorded</b>	<ul style="list-style-type: none"><li><b>No. of cured (treated) animals</b></li><li><b>Cost: Benefit ratio</b></li></ul>

<b>OFT – 9 &amp; 10</b>	
<b>Particulars</b>	<b>Contents (Kharif 2019 &amp; Rabi 2019-20)</b>
<b>Crop/Enterprise</b>	<b>Buffalo</b>
<b>Title</b>	<b>Assessment of clinical and non-clinical remedies in controlling repeat breeding</b>
<b>Problem diagnosed</b>	<b>Higher incidences of repeat breeding</b>
<b>Micro farming situation</b>	<b>Animal husbandry (Buffalo)</b>
<b>Details of technology identified for solution</b>	<b>T1 : Farmer’s practice (Use of choker and common salt) T2 : Use of Dewormer (10 ml ivermectin inj.)/animal &amp; Receptal inj 5ml (72-96 hrs before AI) + Mineral mixture supplementation @ 50 g/day /animal for 45 days</b>
<b>No. of farmers</b>	<b>03</b>
<b>Replications</b>	<b>03</b>
<b>Critical inputs</b>	<b>Ivermectin injection 30 ml , Mineral Mixture (Chileted) 6 kg , Receptal (15ml)</b>
<b>Production system</b>	<b>Animal husbandry (Buffalo)</b>
<b>Source of technology</b>	<b>IVRI , Izzatnagar, Bareilly</b>
<b>Observation to be recorded</b>	<ul style="list-style-type: none"> <li>▪ <b>No. of cured (treated) animals</b></li> <li>▪ <b>Cost: Benefit ratio</b></li> </ul>

<b>OFT – 11 &amp; 12</b>	
<b>Particulars</b>	<b>Contents (Kharif 2019 &amp; Rabi 2019-20)</b>
<b>Crop/Enterprise</b>	<b>Poultry</b>
<b>Title</b>	<b>Enhancing socio-economic status by rearing of backyard poultry</b>
<b>Problem diagnosed</b>	<b>Poor socio-economic status and malnutrition</b>
<b>Micro farming situation</b>	<b>Poultry</b>
<b>Details of technology identified for solution</b>	<b>T1 : Farmer's practice (Use of local breed )</b> <b>T2 : Use of improved breed (Dual Purpose )</b>
<b>No. of farmers</b>	<b>03</b>
<b>Replications</b>	<b>03</b>
<b>Critical inputs</b>	<b>Chicks (day old chicks ) 150</b>
<b>Production system</b>	<b>Poultry</b>
<b>Source of technology</b>	<b>IVRI , Izzatnagar, Bareilly</b>
<b>Observation to be recorded</b>	<ul style="list-style-type: none"> <li>▪ <b>No. of survived chicks &amp; growth rate</b></li> <li>▪ <b>Cost: Benefit ratio</b></li> </ul>

<b>OFT - 13</b>	
<b>Particulars</b>	<b>Contents</b>
<b>Title</b>	<b>Intercropping in autumn sugarcane to increase the farmers income</b>
<b>Problem diagnosed</b>	<b>Less return due to sole crop of sugarcane</b>
<b>Micro farming situation</b>	<b>Irrigated and Sandy loam soil</b>
<b>Details of technology identified for solution</b>	<b>Treatment 1 : Farmers Practice (Sole sugarcane)</b> <b>Treatment 2 : Sugarcane + Mustard</b>
<b>No. of farmers</b>	<b>03</b>
<b>Replications</b>	<b>03</b>
<b>Critical inputs</b>	<b>Seed, Fertilizer and Pesticides for intercrop</b>
<b>Production system</b>	<b>Sugarcane-Ratoon-wheat</b>
<b>Source of technology</b>	<b>IISR, Lucknow</b>
<b>Total Cost</b>	<b>6000.00</b>
<b>Observation to be recorded</b>	<b>I. Yield &amp; yield attributes</b> <b>II. Economics - a. Cost of cultivation (Rs./ha)</b> <b>b. Gross return (Rs./ha) c. Net return (Rs./ha) d. B : C ratio</b>

## Area allocation under CFLD on Pulses & Oilseeds

Sl. No.	Crop/	variety	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	Urdbean	PU-31	ICM	ICM	Seed & Critical input	Kharif 2020	10	25	Yield and yield attributes, Cost of Production, Gross Income, Net Profit & BC Ratio
2	Filed pea	IPFD10-12	ICM	ICM	Seed & Critical input	Rabi 20-21	10	25	
3	Lentil	PL-8	ICM	ICM	Seed & Critical input	Rabi 2020-21	10	25	
4	Mustard	As per avail.	ICM	ICM	Seed & Critical input	Rabi 2020-21	20	50	

Sl. No.	Crop/ variety	Themati c area	Technology for demonstrati on	Critical inputs	Season and year	Area (ha)	No. of farmers/ demo.	Parameters identified Yield/Profit/ Other technological parameters
5	Rice	IPM	Use of Pymetrozine 50% EC against BPH	Pymetrozine 50% @ 300 ml /ha	Kharif 2020	4.00	10	Yield, Cost of Production, Gross Income, Net Profit & BC Ratio
6	Potato	IDM	Use of Cymoxanil 8% + Mancozeb 64% against late blight	Cymoxanil 8% + Mancozeb 64% @ 1.25 kg/ha	Rabi 2020-21	4.0	10	Yield, Cost of Production, Gross Income, Net Profit & BC Ratio
7	Cucurbit s	Fruit Fly manage ment	Use of Pheromone trap	Pheromone trap	Kharif 2019	4.0	10	Yield, Cost of Production, Gross Income, Net Profit & BC Ratio

Sl. No.	Crop/ variety	Thematic area	Technology for demo.	Critical inputs	Season and year	Area (ha)	No. of farmers / demo.	Parameters identified Yield/Profit/ Other technological parameters
8	Chilli	IPM	Use of Emmamectin Benzoate 5 % WG against fruit borer	Emmamectin Benzoate 5% WG	Rabi 2019-20	4.0	10	Yield, Cost of Production, Gross Income, Net Profit & BC Ratio
9	Onion	Varietal evaluation	Use of Bhima Shakti	Seed	Rabi 2020-21	1.0	05	
10	Chilli	Varietal evaluation	Use of high yielding variety	HYVEG078 seed	Rabi 2019-20	1.0	05	

<b>Sl. No.</b>	<b>Crop/ variety</b>	<b>Thematic area</b>	<b>Technology for demonstration</b>	<b>Critical inputs</b>	<b>Season and year</b>	<b>Area (ha)</b>	<b>No. of farmers / demo.</b>	<b>Parameters identified Yield/Profit/ Other technological parameters</b>
<b>11</b>	<b>French bean</b>	<b>Varietal evaluation</b>	<b>Use of high yielding variety</b>	<b>Seed</b>	<b>Rabi 2019-20</b>	<b>2.0</b>	<b>10</b>	<b>Yield, Cost of Production, Gross Income, Net Profit &amp; BC Ratio</b>
<b>12</b>	<b>Bajra</b>	<b>Varietal evaluation</b>	<b>Use of improved varieties</b>	<b>Seed</b>	<b>Kharif 2020</b>	<b>10.00</b>	<b>25</b>	<b>Yield, Cost of Production, Gross Income, Net Profit &amp; BC Ratio</b>
<b>13</b>	<b>Urd</b>	<b>Weed management</b>	<b>Use of new herbicide</b>	<b>Imazethapyr 10% SL @750 gm /ha</b>	<b>Kharif 2020</b>	<b>4.00</b>	<b>10</b>	<b>Yield, Cost of Production, Gross Income, Net Profit &amp; BC Ratio</b>

# FLD on LIVESTOCK / POULTRY

Enterprise	Title	No. of farmers	No. of animals, poultry birds etc.	Critical input	Performance parameters / Indicators
<b>Buffaloes</b>	Increase milk yield by control Endo and Ecto parasites and supplement mineral mixture in buffaloes	<b>10</b>	<b>10</b>	<b>Ivermectin Inj. 1 ml/ 50 kg body weight + Mineral mixture (chelated) @ 50 gm/day</b>	<b>No. of cured (treated) animals Cost: Benefit ratio</b>
<b>Buffaloes</b>	Increase milk yield in buffaloes by supplementing Calcium, phosphorus and vit . A, D, E, and C)	<b>10</b>	<b>10</b>	<b>Osto-calcium syrup 50 ml/ day + Multi vitamins (Vimeral) @ 05 ml/day/animal</b>	<b>No. of cured (treated) animals Cost: Benefit ratio</b>
<b>Chicken</b>	Increase body weight and reduce mortality by supplementing vitamin A, D, E and C	<b>10</b>	<b>4500</b>	<b>Vitamin &amp; mineral mixture (Chileted) 200 gm/ q of feed</b>	<b>No. of cured (treated) Chicks Cost: Benefit ratio</b>

# Details of Training Programme



**Crop Production**



**Total Trg. - 27**

Thematic area	No. of Programmes			
	On campus	Off campus	RY	Extn. Funct.
Production and use of organic input	01	-	-	01
ICM	02	07	-	-
INM	01	02	-	-
Weed Management	-	01	-	-
Nursery management	-	01	-	-
Inter Cropping system	-	02	-	-
Resource conservation technology	-	01	-	02
Fodder management		01	-	-
NADEP			01	-
Seed production			02	-
Vermi culture Production			01	-
Productivity enhancement in field crops				01

# Details of Training Programme

**PLANT PROTECTION**

**Total Trg. - 25**

Thematic area	No. of Programmes			
	On campus	Off campus	RY	Extn. Funct.
IPM	03	06	-	01
IDM	01	05	-	01
Bi-control of pests and diseases	-	02	-	02
Bee Keeping	-	-	03	-
Mushroom Production	-	-	01	-

# **HORTICULTURE**

**Total Trg. - 28**

Thematic area	-No. of Programmes			
	On campus	Off campus	RY	Extn. Funct.
Production Management technology of flowers	-	01	01	-
Production Management technology of MAP	01	01	-	-
Production Management technology of vegetable	03	02	-	-
Packaging and transport	-	01	-	-
Management and aftercare in fruit orchards	-	01	-	-
Nursery raising	-	03	-	-
Training and pruning	-	01	--	--
Mulching in fruits	-	01	-	-
Water management	-	01	-	-
Layout and management of orchard	-	01	-	-
Exotic vegetables	-	01	-	-
Off season vegetables	-	01	-	-
Machan cultivation	-	01	-	-
Nursery mgt. of horti. crops	-	-	01	-
Protected cultivation	-	-	02	-
Rejuvenation of orchard	-	-	-	01
Micro irrigation system	--	-	-	01
Low volume and high value vegetabe production	-	-	-	01
Advances in vegetable production	-	-	-	01

## Soil Science

**Total Trg. - 14**

Thematic area	No. of Programmes			
	On campus	Off campus	RY	Extn. Funct.
Soil & water conservation	01		-	-
Micro nutrient deficiency in crops	01		-	-
INM	01	02	-	-
ICM	-	01	-	-
Management of problematic soil	-	01	-	-
Micronutrient deficiency in crops	-	02	-	-
Soil fertility management	01	01	-	-
Water management	-	01	-	-
Nutrient use efficiency	-	01	-	-
Soil Testing	-	-	01	

## Animal Science

**Total Trg. -24**

Thematic area	No. of Programmes			
	On campus	Off campus	RY	Extn. Funct.
Feed management	03	03	-	-
Dairy management	-	02	02	-
Disease management	01	05	-	-
Management of farm animals	-	01	-	04
Goat rearing	-	-	01	-
Poultry production	-	01	01	-

# Extension activities

Nature of Extension activity	No. of activities		Nature of Extension activity	No. of activities
Field day	10		Literature developed	06
Kisan Mela	01		Popular articles	06
Kisan Ghosthi	15		Advisory services	1800
Exhibition	01		Scientist visit to farmers field	340
Film show	30		Farmers visit to KVK	1600
Workshop	01		Animal health camp	01
Method demonstration	04		Farm science club	01
Farmers seminar	02		Mahila mandal	00
Lectures delivered	40		Exposure visit	240
News paper coverage	50		Krishak Samman divas	01
Radio talks	28		Self Help Group	01
TV talks	20		Farmers technical training	03
	<b>Total</b>	<b>4980</b>		

## Target for Production and supply

Sl. No	Crop	Variety*	Qty targeted (q)	Season
<b>A</b>	<b>Cereals</b>			
<b>1</b>	<b>Wheat</b>	<b>DBW-39 HD-2967</b>	<b>400</b>	<b>Rabi 2018-19</b>
<b>B</b>	<b>Oil seeds</b>			
<b>1</b>				
<b>C</b>	<b>Pulses</b>			
<b>1</b>	<b>Urd</b>	<b>PU-31</b>	<b>50</b>	<b>Kharif 2018</b>
<b>D</b>	<b>Vegetables</b>			
<b>1</b>				
	<b>Total</b>		<b>450 q</b>	

# Planting Material

Sl.	Crop	Variety	Quantity (Nos.)
1.	Papaya	As per availability	500
2.	Vegetable saplings	As per availability	5000
3.	Flower saplings	As per availability	20500
4.	Napier slips	As per availability	2000
		Total	28000

# THANKS



Prepared by – Ashish Agarwal