

# **ANNUAL ACTION PLAN**

**2020-21**

**KVK, JAJPUR**



**OUAT, BHUBANESWAR**



**REVISED PROFORMA FOR ACTION PLAN 2020-21**

**1. Name of the KVK: JAJPUR**

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**2.Name of host organization :**

Address	Telephone		E mail
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Orissa University of Agriculture & Technology, Bhubaneswar- 751003	0674-2397362	9937563162	deanextensionouat@yahoo.com deanextension_ouat@rediffmail.com

**3.Training programme to be organized (April 2020 to March 2021)**

**(a) Farmers and farmwomen**

Themat ic area	Title of Training	No .	Du rat io n	Ven ue On/ Off	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
<b>I .Crop production</b>														
IWM	Integrated weed management in rice	1	1	Off	23.07.2020	2	-	-	-	23	-	25	-	25
ICM	Nursery management for quality rice seedling production	1	1	Off	13.08.2020	1	-	-	-	24	-	25	-	25
INM	INM in maize	1	1	Off	28.08.2020	-	-	-	-	25	-	25	-	25
ICM	INM in sugarcane	1	1	Off	14.09.2020	2	1	-	-	22	-	24	1	25
INM	Management of problematic soil for higher yield and sustainability	1	1	Off	12.10.2020	-	-	-	-	25	-	25	-	25
ICM	Inter cropping for higher yield and sustainability	1	1	Off	17.11.2020	-	-	-	-	25	-	25	-	25
ICM	Integrated Farming system for livelihood security	1	1	Off	15.12.2020	-	-	-	-	25	-	25	-	25

ICM	Low cost vermicompost production in backyard	1	1	Off	23.12.2020	-	-	-	-	25	-	25	-	25
ICM	Cultivation of stress tolerant rice varieties to mitigate climate change	1	1	Off	11.01.2021	1	-	-	-	24	-	25	-	25
IWM	Integrated weed management in groundnut	1	1	Off	26.01.2021	2	1	-	-	22	-	24	1	25
IWM	Integrated weed management in pulse crops (greengram,blackgram)	1	1	Off	16.02.2021	2	1	-	-	22	-	24	1	25
IWM	Integrated weed Management in sugarcane	1	1	Off	24.02.2021	-	2	-	-	22	1	22	3	25

## II. SOIL HEALTH & FERTILITY MANAGEMENT

Soil fertility management	Technique of soil sample collection & fertilizer management	1	1	Off	20.08.2020	2	1	-	-	22	-	24	1	25
INM	Green manuring in paddy	1	1	Off	15.09.2020	1	1	-	-	23	-	24	1	25
INM	Boron deficiency and its control measures in rice	1	1	Off	28.08.2020	3	-	-	-	21	1	24	1	25
INM	Micronutrient deficiency & its control measures in vegetable	1	1	Off	21.09.2020	2	1	-	-	22	-	24	1	25
Soil fertility management	Technique of soil sample collection & fertilizer management	1	1	Off	20.10.2020	2	1	-	-	22	-	24	1	25
INM	Bio-fertilizer application in Vegetable	1	1	Off	13.10.2020	1	-	-	-	23	1	24	1	25
INM	Bio-fertilizer and their application in cole crops	1	1	Off	17.11.2020	-	-	-	-	23	2	23	2	25
Soil fertility management	Method lime application in groundnut	1	1	Off	25.11.2020	1	-	-	-	23	1	24	1	25

INM	Nutrient supplementation through water soluble fertilizer in tomato	1	1	Off	23.12.2020	-	-	-	-	20	5	20	5	25
INM	INM in Okra	1	1	Off	30.12.2020	-	-	-	-	20	5	20	5	25
INM	Nutrient supplementation through foliar application in greengram	1	1	Off	19.01.2021	1	-	-	-	23	1	24	1	25
Soil fertility management	Management of acid soil	1	1	Off	26.02.2021	-	-	-	-	20	5	20	5	25
<b>III. Horticulture</b>														
Vegetable cultivation	Major diseases & pest of solanaceous crops & their control measures	1	1	Off	15.07.2020	1	2	-	-	22	-	23	2	25
Post harvest technology	Post harvest management of solanaceous crop	1	1	Off	24.07.2020	-	2	-	-	22	1	22	3	25
Vegetable cultivation	Production techniques of tuber crops	1	1	Off	13.11.2020	-	-	-	-	24	1	24	1	25
IPM	Major diseases and pest of cucurbitaceous crop and their control measure.	1	1	Off	26.11.2020	-	-	-	-	21	4	21	4	25
Yield increment	Cultivation techniques for improving production in cucurbitaceous crop	1	1	Off	16.10.2020	3	1	-	-	18	3	21	4	25
Production and management technology	Improved production techniques of cole crops	1	1	Off	22.11.2020	1	2	1	1	20	-	22	3	25
INM	Production techniques of	1	1	Off	29.10.2020	-	2	-	-	22	1	22	3	25

	marigold													
INM	Important medicinal plants and their uses	1	1	Off	07.08.2020	4	-	-	-	20	1	24	1	25
INM	Cultivation techniques of papaya	1	1	Off	18.8.2020	5	-	-	-	20	-	25	-	25
IFS	Vegetable based Integrated farming system for increasing income	1	1	Off	22.03.2021	3	2	2	1	12	5	17	8	25
Vegetable cultivation	Cultivation techniques of T.C Banana	1	1	Off	8.9.2020	-	2	2	-	20	1	22	3	25
Vegetable cultivation	Cultivation techniques of root crops	1	1	Off	09.3.2021	-	-	-	-	24	1	24	1	25

#### IV. Agricultural Engineering

Repair and maintenance of farm machinery and implements	Use of different weeders in rice	1	1	Off	12.8.2020	-	-	-	-	25	-	25	-	25
Repair and maintenance of farm machinery and implements	Use of rotavator for dry ploughing	1	1	Off	14.10.2020	-	3	-	-	22	-	22	3	25
Repair and maintenance of farm machinery and implem	Use and operation of multicrop seed cum fertilizer drill	1	1	Off	02.09.2020	-	-	-	-	25	-	25	-	25

ents														
Repair and maintenance of farm machinery and implements	Care and safety measures during operation of implements	1	1	Off	15.7.2020	3	2	-	-	18	2	21	4	25
Repair and maintenance of farm machinery and implements	Use of rice transplanter	1	1	Off	30.6.2020	2	-	1	-	20	2	23	2	25
Installation and maintenance of micro irrigation system	Use of sprinkler irrigation in pulses	1	1	Off	12.01.2021	3	-	-	-	17	5	20	5	25
Installation and maintenance of micro irrigation system	Use of mulching	1	1	Off	15.12.2020	-	-	-	-	21	4	21	4	25
Installation and maintenance of micro irrigation system	Utility of micro irrigation	1	1	Off	16.9.2020	-	-	-	-	21	4	21	4	25
Drudger	Use of different	1	1	Off	19.08.2020	-	2	-	-		23	-	25	25

y reductio n	small implements for farm women													
Repair and mainten ance of farm machine ry and implem ents	Use of groundnut thresher	1	1	Off	8.3.2021	1	1	-	-	23	-	24	1	25
Post harvest technolo gy	Use of pulse thresher	1	1	Off	21.3.2021	-	-	2	-	20	3	22	3	25
Post harvest technolo gy	Utility of dal mill and required pre- treatment	1	1	Off	26.2.2021	-	-	-	-	20	5	20	5	25

#### V. Agril. Extension

CBD	Formation and management of farmers producer group	1	1	Off	15.07.2020	5	-	-	-	20	-	25	-	25
CBD	Formation and management of farmers club	1	1	Off	18.08.2020	3	-	-	-	22	-	25	-	25
CBD	Organic farming and its role in sustainable development	1	1	Off	26.08.2020	2	-	-	-	23	-	25	-	25
CBD	Climate resilient technology for sustainable development	1	1	Off	16.09.2020	1	-	-	-	24	-	25	-	25
CBD	Management of SHGs	1	1	Off	14.10.2020	3	-	-	-	22	-	25	-	25
CBD	Role and importance of ICT in agricultural development	1	1	Off	18.11.2020	5	-	-	-	20	-	25	-	25
CBD	Role and importance of ITKs	1	1	Off	27.11.2020	5	-	-	-	20	-	25	-	25

	in agricultural development													
CBD	Alternative livelihood options for resource poor farm family	1	1	Off	09.12.2020	3	-	-	-	22	-	25	-	25
CBD	Role and importance of farm records in agricultural development	1	1	Off	30.12.2020	3	-	-	-	22	-	25	-	25
CBD	Income generation activities of SHGs	1	1	Off	27.01.2021	5	-	-	-	20	-	25	-	25
CBD	Role and importance of ICT in agricultural development	1	1	Off	17.02.2021	4	-	-	-	21	-	25	-	25
CBD	Formation and management of farmers club	1	1	Off	18.03.2021	5	-	-	-	20	-	25	-	25

**(b) Rural youths**

Thematic area	Title of Training	No .	Duration	Venue On/Off	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
<b>I. Crop production</b>														
ICM	Integrated Farming System for Livelihood security	1	3	On	15.12.20 to 17.12.20	2	-	-	-	13	-	15	-	15
ICM	Seed production for higher income	1	3	On	19.01.21 & 21.01.21	-	-	-	-	15	-	15	-	15
<b>II. Soil Health and fertility Management</b>														
ICM	Azolla production technique	1	3	On	8.09.20 to 10.09.20	3	2	-	-	8	2	11	4	15
Soil	Method of	1	3	On	15.10.20	1	1	-	-	13	-	14	1	15



fertility management	vermicomposting				& 17.10.20									
<b>III. Horticulture</b>														
Cultivation of flower	Commercial flower cultivation	1	3	On	26.1.21 to 28.1.21	2	2	-	-	5	6	7	8	15
Nursery raising	Improved method of seedling production technique	1	3	On	08.02.21 to 10.02.21	-	3	-	-	6	6	6	9	15
<b>IV. Agril. Engg.</b>														
Value addition	Value addition of stone apple	1	3	On	17.3.21 to 19.3.21	-	4	-	-	-	11	-	15	15
Installation and maintenance of micro irrigation system	Importance and installation of micro irrigation system	1	3	On	19.10.20 to 21.10.20	-	-	-	-	12	3	12	3	15
<b>VI. Agril. Extension</b>														
CBD	Entrepreneurship development	1	3	On	12.1.21 to 14.1.21	2	-	-	-	13	-	15	-	15
CBD	Farming system approach	1	3	On	22.02.21 to 24.02.21	2	-	-	-	13	-	15	-	15

**(c) Extension functionaries**

Thrust area/ Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
ICM	Organic farming for	1	1	On	07.01.2021	-	4	-	-	-	1	-	1	15

	sustainable crop production										1		5	
ICM	Contingency planning for crop production under changing climate	1	1	On	10.02.2021	1	1	-	-	13	-	14	1	15
<b>II. Soil Health and Fertility management</b>														
Soil fertility management	Management of problematic soil	1	1	On	29.09.2020	2	2	-	-	5	6	7	8	15
Soil fertility management	Use of soil test kit (Mridaparikhya k)	1	1	On	24.11.2020	-	3	-	-	6	7	9	6	15
<b>III. Horticulture</b>														
Protected cultivation	Cultivation techniques of vegetables in green house	1	1	On	18.12.2020	2	-	-	-	8	5	10	5	15
Flower cultivation	Modern techniques in flower cultivation to increase production and quality	1	1	On	15.1.2021	-	3	-	-	6	6	6	9	15
<b>IV. Agril. Engg.</b>														
Installation and maintenance of micro irrigation system	Importance of micro irrigation in agriculture	1	1	On	23.9.2020	-	3	-	-	-	12	-	15	15
Repair and maintenance	Use of improved machineries in agriculture	1	1	On	18.11.2020	-	-	-	-	12	3	12	3	15
<b>VI. Agril Extension</b>														
CBD	Climate smart agriculture	1	1	On	18.12.2020	2	-	-	-	11	2	13	2	15
CBD	Agri value chain analysis	1	1	On	15.01.2021	2	-	-	-	11	2	13	2	15

## Abstract of Training: Consolidated table (ON and OFF Campus)

### Farmers and Farm women (Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T	M	F	T
<b>I. Crop Production</b>													
Weed Management	4	78	22	100	12	9	21	-	-	-	78	22	100
Resource Conservation Technologies													
Cropping Systems													
Crop Diversification													
Integrated Farming													
Water management													
Seed production													
Nursery management													
Integrated Crop Management	6	123	27	150	18	8	26	-	-	-	123	27	150
Fodder production													
Production of organic inputs													
Others, (cultivation of crops ) INM	2	42	8	50	2	2	4	-	-	-	42	8	50
<b>TOTAL</b>	<b>12</b>	<b>243</b>	<b>57</b>	<b>300</b>	<b>32</b>	<b>19</b>	<b>51</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>243</b>	<b>57</b>	<b>300</b>
<b>II. Horticulture</b>													
<b>a) Vegetable Crops</b>													
Integrated nutrient management	3	62	2	64	9	2	11	-	-	-	71	4	75
Water management													
Enterprise development													
Skill development													
Yield increment	1	18	3	21	3	1	4	-	-	-	21	4	25
Production of low volume and high value crops													
Off-season vegetables													
Nursery raising													
Exotic vegetables like Broccoli													
Export potential vegetables													
Grading and standardization													
Protective cultivation (Green Houses, Shade Net etc.)													
Others, if any (Vegetable cultivation)	4	92	3	95	1	2	3	2	-	2	95	5	100
<b>TOTAL</b>	<b>8</b>	<b>172</b>	<b>8</b>	<b>180</b>	<b>13</b>	<b>5</b>	<b>18</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>187</b>	<b>13</b>	<b>200</b>
<b>b) Fruits</b>													
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													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Plant propagation techniques													
Others, if any(IPM)	1	21	4	25	-	-	-	-	-	-	21	4	25
<b>TOTAL</b>	<b>1</b>	<b>21</b>	<b>4</b>	<b>25</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>21</b>	<b>4</b>	<b>25</b>
<b>c) Ornamental Plants</b>													
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others, if any													
<b>TOTAL</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>d) Plantation crops</b>													
Production and Management technology	1	20	-	20	1	2	3	1	1	2	22	3	25
Processing and value addition													
Others, if any (IFS)	1	12	5	17	3	2	5	2	1	3	17	8	25
<b>TOTAL</b>	<b>2</b>	<b>32</b>	<b>5</b>	<b>37</b>	<b>4</b>	<b>4</b>	<b>8</b>	<b>3</b>	<b>2</b>	<b>5</b>	<b>39</b>	<b>11</b>	<b>50</b>
<b>e) Tuber crops</b>													
Production and Management technology													
Processing and value addition													
Others, if any													
<b>TOTAL</b>													
<b>f) Spices</b>													
Production and Management technology													
Processing and value addition													
Others, if any													
<b>TOTAL</b>													
<b>g) Medicinal and Aromatic Plants</b>													
Nursery management													
Production and management technology													
Post harvest technology and value addition	1	22	1	23	-	2	2	-	-	-	24	1	25
Others, if any													
<b>TOTAL</b>	<b>1</b>	<b>22</b>	<b>1</b>	<b>23</b>	<b>-</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>24</b>	<b>1</b>	<b>25</b>
<b>III. Soil Health and Fertility Management</b>													
Soil fertility management	4	64	29	93	5	2	7	-	-	-	69	31	100
Soil and Water Conservation													
Integrated Nutrient Management	8	175	15	190	8	2	10	-	-	-	183	17	200
Production and use of organic inputs													
Management of Problematic soils													
Micro nutrient deficiency in crops													
Nutrient Use Efficiency													
Soil and Water Testing													
Others, if any													
<b>TOTAL</b>	<b>12</b>	<b>239</b>	<b>44</b>	<b>283</b>	<b>13</b>	<b>4</b>	<b>17</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>252</b>	<b>48</b>	<b>300</b>
<b>IV. Livestock Production and Management</b>													
Dairy Management													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Poultry Management													
Piggery Management													
Rabbit Management													
Disease Management													
Feed management													
Production of quality animal products													
Others, if any (Goat farming)													
<b>TOTAL</b>													
<b>V. Home Science/Women empowerment</b>													
Household food security by kitchen gardening and nutrition gardening													
Design and development of low/minimum cost diet													
Designing and development for high nutrient efficiency diet													
Minimization of nutrient loss in processing													
Gender mainstreaming through SHGs													
Storage loss minimization techniques													
Enterprise development													
Value addition													
Income generation activities for empowerment of rural Women													
Location specific drudgery reduction technologies													
Rural Crafts													
Capacity building													
Women and child care													
Others, if any													
<b>TOTAL</b>													
<b>VI. Agril. Engineering</b>													
Installation and maintenance of micro irrigation systems	3	59	13	72	3	-	3	-	-	-	62	13	75
Use of Plastics in farming practices													
Production of small tools and implements													
Repair and maintenance of farm machinery and implements	6	134	4	138	6	5	12	1	-	1	141	9	150
Small scale processing and value addition													
Post Harvest Technology	2	40	8	48	-	-	-	2	-	2	42	8	50
Others, if any (Drudgery reduction)	1	23	-	23	-	2	2	-	-	-	23	2	25
<b>TOTAL</b>	<b>12</b>	<b>256</b>	<b>25</b>	<b>281</b>	<b>9</b>	<b>7</b>	<b>17</b>	<b>3</b>	<b>-</b>	<b>3</b>	<b>268</b>	<b>32</b>	<b>300</b>
<b>VII. Plant Protection</b>													

Thematic Area	No. of Courses	No. of Participants									Grand Total			
		Other			SC			ST			M	F	T	
		M	F	T	M	F	T	M	F	T				
Integrated Pest Management														
Integrated Disease Management														
Bio-control of pests and diseases														
Production of bio control agents and bio pesticides														
Others, if any														
<b>TOTAL</b>														
<b>VIII. Fisheries</b>														
Integrated fish farming														
Carp breeding and hatchery management														
Carp fry and fingerling rearing														
Composite fish culture & fish disease														
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond														
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														
Others, if any														
<b>TOTAL</b>														
<b>IX. Production of Inputs at site</b>														
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														
Others, if any														
<b>TOTAL</b>														
<b>X. Capacity Building and Group Dynamics</b>														
Leadership development														
Group dynamics														
Formation and Management of SHGs	2	42	-	42	8	-	8	-	-	-	50	-	50	

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Mobilization of social capital													
Entrepreneurial development of farmers/youths	3	62	-	62	13	-	13	-	-	-	75	-	75
WTO and IPR issues													
Others, if any (CBD)	7	134	31	165	6	2	8	2	-	2	142	33	175
<b>TOTAL</b>	<b>12</b>	<b>238</b>	<b>31</b>	<b>269</b>	<b>27</b>	<b>2</b>	<b>29</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>267</b>	<b>33</b>	<b>300</b>
<b>XI Agro-forestry</b>													
Production technologies													
Nursery management													
Integrated Farming Systems													
TOTAL													
<b>XII. Others (Pl. Specify)</b>													
<b>TOTAL</b>													

### Rural youth (On campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Mushroom Production													
Bee-keeping													
Integrated farming	2	26	-	26	4	-	4	-	-	-	30	-	30
Seed production	1	15	-	15	-	-	-	-	-	-	15	-	15
Production of organic inputs													
Planting material production													
Vermi-culture	1	13	-	13	1	1	2	-	-	-	14	1	15
Sericulture													
Protected cultivation of vegetable crops	1	5	6	11	2	2	4	-	-	-	7	8	15
Commercial fruit production													
Repair and maintenance of farm machinery and implements	1	13	2	15	-	-	-	-	-	-	13	2	15
Nursery Management of Horticulture crops	1	6	-	6	-	3	3	-	-	-	6	9	15
Training and pruning of orchards													
Value addition	1	11	-	11	-	4	4	-	-	-	11	4	15
Production of quality animal products													
Dairying													
Sheep and goat rearing													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Para vets													
Para extension workers													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
Enterprise development	1	13	-	13	2	-	2	-	-	-	15	-	15
Others if any (ICM)	1	8	2	10	3	2	5	-	-	-	11	4	15
<b>TOTAL</b>	<b>10</b>	<b>110</b>	<b>10</b>	<b>120</b>	<b>12</b>	<b>12</b>	<b>24</b>				<b>122</b>	<b>28</b>	<b>150</b>

### Extension functionaries (On campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Productivity enhancement in field crops													
Integrated Pest Management													
Integrated Nutrient management	2	11	12	23	2	5	7	-	-	-	13	17	30
Rejuvenation of old orchards													
Value addition													
Protected cultivation technology	1	8	5	13	2	-	2	-	-	-	10	5	15
Formation and Management of SHGs													
Group Dynamics and farmers organization	2	22	4	26	4	-	4	-	-	-	26	4	30



Information networking among farmers													
Capacity building for ICT application													
Care and maintenance of farm machinery and implements	2	24	3	27	3	-	3	-	-	-	27	3	30
WTO and IPR issues													
Management in farm animals													
Livestock feed and fodder production													
Household food security													
Women and Child care													
Low cost and nutrient efficient diet designing													
Production and use of organic inputs													
Gender mainstreaming through SHGs													
Crop intensification													
Others if any (ICM)	2	21	3	24	6	-	6	-	-	-	24	6	30
Flower cultivation	1	6	6	12	-	3	3	-	-	-	6	9	15
<b>TOTAL</b>	<b>10</b>	<b>92</b>	<b>33</b>	<b>125</b>	<b>17</b>	<b>8</b>	<b>25</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>106</b>	<b>44</b>	<b>150</b>

#### 4. Frontline demonstration to be conducted\*

1.

**Crop:** Rice

**Thrust Area:** Weed management

**Thematic Area:** IWM

**Season:** Kharif-2020

**Farming Situation:** Irrigated medium land

2.

**Crop:** Maize

**Thrust Area:** soil health & fertility management

**Thematic Area:** INM

**Season:** Kharif-2020

**Farming Situation:** Irrigated medium land

3.

**Crop:** Greengram

**Thrust Area:** weed management  
**Thematic Area:** IWM  
**Season:** Rabi-2020-21  
**Farming Situation:** Irrigate medium land

4.

**Crop:** Sugarcane  
**Thrust Area:** soil health & fertility management  
**Thematic Area:** INM  
**Season:** Rabi-2020-21  
**Farming Situation:** Irrigated medium land

5.

**Crop:** Rice  
**Thrust Area:** INM  
**Thematic Area:** INM  
**Season:** Kharif-2020  
**Farming Situation:** Irrigated medium land

6.

**Crop:** vermicompost  
**Thrust Area:** vermicompost production  
**Thematic Area:** vermicompost production  
**Season:** kharif 2020  
**Farming Situation:** Homestead

7.

**Crop:** Groundnut  
**Thrust Area:** production technology  
**Thematic Area:** production technology  
**Season:** Rabi-2020-21  
**Farming Situation:** Irrigated, medium land

8.

**Crop:** Greengram  
**Thrust Area:** INM  
**Thematic Area:** INM  
**Season:** Rabi-2020-21  
**Farming Situation:** Irrigated, medium land

9.

**Crop:** Brinjal  
**Thrust Area:** Vegetable cultivation  
**Thematic Area:** pest management  
**Season:** Kharif-2020  
**Farming Situation:** Irrigated medium land

10.

**Crop:** Tomato  
**Thrust Area:** Vegetable cultivation  
**Thematic Area:** Varietal substitution  
**Season:** Rabi-2020-21  
**Farming Situation:** Irrigated medium land

11.

**Crop:** Okra  
**Thrust Area:** vegetable cultivation  
**Thematic Area:** IPM  
**Season:** Rabi-2020-21  
**Farming Situation:** Irrigated medium land

12.

**Crop:** cauliflower  
**Thrust Area:** vegetable cultivation  
**Thematic Area:** INM  
**Season:** Rabi-2020-21  
**Farming Situation:** Irrigated medium land

13.

**Enterprise:** Rice transplanter  
**Thrust Area:** Farm mechanisation  
**Thematic Area:** Farm mechanisation  
**Season:** Kharif-2020  
**Farming Situation:** Irrigated,medium land

14.

**Enterprise:** seed cum fertilizer drill  
**Thrust Area:** Farm mechanisation  
**Thematic Area:** Farm mechanisation  
**Season:** Rabi-2020-21  
**Farming Situation:** Irrigated medium land

15.

**Enterprise:** Mushroom  
**Thrust Area:** value addition  
**Thematic Area:** Value addition  
**Season:** Rabi-2020-21  
**Farming Situation:** Home stead

16.

**Enterprise:** Tractor drawn rotavator  
**Thrust Area:** Farm mechanisation  
**Thematic Area:** Farm mechanisation  
**Season:** Rabi-2020-21  
**Farming Situation:** Irrigated medium land

17.

**Crop:** Honey bee  
**Thrust Area:** honey bee production  
**Thematic Area:** Honey bee production  
**Season:** Round the year-2020-21  
**Farming Situation:** Home stead

18.

**Enterprise:** Poultry  
**Thrust Area:** Income generation  
**Thematic Area:** Income generation  
**Season:** Round the year-2020-21  
**Farming Situation:** Backyard

19. **Enterprise:** short technology videos on vermicomposting

**Thrust Area:** ICT  
**Thematic Area:** ICT  
**Season:** Rabi 2020-21  
**Farming Situation:**

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Rice	1 ha	Post emergence application of herbicide @ 93.75 ml/ha at 12 DAT	Weed flora count, No of tillers/hill, 1000 grain wt	herbicide Penoxulam	35500	34000	-	-	-	-	5	-	5	-	5
2	Maize	1 ha	Application of N:P:K:B:Zn @ 150:75:60:1:5 kg ha-1 + Lime 0.1 LR + FYM @ 5 t ha	Plant ht, cob length and weight, Grain wt	Nitrogen, Phosphorus, Pottasium, Zinc and Boron	40000	37000	1	-	-	-	4	-	5	-	5
3	Greengram	1 ha	Post emergence application of herbicide Imazethapyr @750ml/ha 15DAS	No of pods/plant, No of grains /pod, weed count.	herbicide Imazethapyr	20000	18500	-	-	-	-	5	-	5	-	5
4	Sugarcane	1 ha	Soil test based fertilizer application in sugarcane @ 315:100:60 kg N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O +60 kg elemental S/ha recorded highest	Cane length, cane wt Yield (q/ha), B:C ratio,	N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O, Soil test based fertiizer	70000	67000	-	1	-	-	4	1	4	1	5

			cane yield of 81.44 t/ha and was most remunerative.													
5	Rice	1 ha	Boron is an essential micronutrient, which is responsible for cell wall formation & stabilization, pollen germination & pollen tube growth, impart drought tolerance to plants. Application of STBR NPK as basal and two foliar spray of B as Borax at panicle initiation stage and at pre flowering stage help in high pollination & more filled grain	Initial & after harvest soil test value, No. of tiller/m <sup>2</sup> · No. of filled grain/panicle, sterility %,	STBR NPK as basal and foliar spray of B as Borax	42500	41000	1	1	-	-	3	1	4	1	5
6	vermicompost	1 ha	Vermiculture is a process by which all type of degradable waste such as farm waste, kitchen waste, bio waste,	vermicompost	Nutrient status of vermicompost	2460	-	2	-	-	-	3	-	5	-	5

			livestock waste etc. are converted while passing through the worm gut to nutrient rich vermicompost													
7	Groundnut	1 ha	Lime and FYM have synergistic effect on controlling soil acidity	Lime and FYM	No of pods /plant,pod weight,test weight(g.)	34800	36600	-	-	-	-	3	2	3	2	5
8	Greengram	1 ha	Urea Phosphate contains 17% urea(NH <sub>2</sub> ) and 44% phosphorus and soluble in water. Supplementatio n of nutrients increase crop growth and yield	75% N+75%P+full dose of K+Foliar spray of Urea phosphate	No of branches/plant, No of pods /plant, no of grains/pod	17600	19700	1	2	-	-	2	-	3	2	5
9	Brinjal	0.4	Pheromone trap @1 for 400 sq.m. + weekly release of 50,000 to 60,000 <i>Trichogramma chilonis</i> + two sprays of BT @1ml/L at 10 days interval at peak flowering	Pheromonetraps, <i>Trichogramma chilonis</i>	% pest incidence, % fruit infestation, wt. of individual fruit, no. of fruits/plant	46200	40100	-	-	-	-	4	1	4	1	5
10	Tomato	0.4	Cultivation of tomato variety	Tomato seedling	No. of fruits/plant,	44800	41200	-	-	-	-	4	1	4	1	5

			Arka Rakshak with recommended package of Tpractices, planting Oct-Nov, spacing- 2.5 ft X 2.5 ft. , 9900 seedling/ha , fertilizer - 150:120:150 kg/ha		vine length, wt. of fruit, % of infected fruit											
11	Okra	0.4	ST by imidacloprid @ 5 g /kg +YST installation + Acetamiprid 20 SP spray @ 3g/ltr water (or triazophos 40 EC @ 2ml/ltr water or difenthiuron 50 % WP @ 1g/ltr water)	Imidacloprid, Acetamiprid	% Infestation ,Fruit length, diameter & weight, Yield(qtl/ha), B:C ratio	42000	39000	-	-	-	-	2	3	2	3	5
12	Cauliflower		It is a carrier based products which contents N-fixing, P & Zn solubilizing & plant growth promoting microbes as a single formulation. Reduce cost of cultivation,	Arka Microbial consortium	Curd size, curd weight, shelf life	44000	42000	-	-	-	-	5	-	5	-	5



			increase yield 5-15%													
13	Rice transplanter	1 ha	Actual field capacity: 0.04 ha/h , Missing hill 4 to 5%	Rice transplanter	Field capacity(ha/h), labour required (man days/ha), plant population (hills/m2), tiller/hill , floating hills/m2, damaged hills/m2, missing hills/m2	36050	41250	1	-	-	-	4	-	5	-	5
14	Multicrop seed cum fertilizer drill	1 ha	Tractor drawn Multi crop Seed cum fertilizer drill with cup feed metering mechanism for sowing, Field capacity – 0.4ha/h	Tractor drawn Multi crop Seed cum fertilizer	Field capacity(ha/h), Fuel consumption( lit/ha), cost of operation(Rs/ ha),	33961	35211	-	-	-	-	4	1	4	1	5
15	Mushroom	-	Blanching of Oyster mushroom for 3 min with addition of 0.5% KMS followed by dried at Solar drier (8% moisture	Mushroom	Shelf life	700	500	2	-	-	-	3	-	5	-	5

			content) then grinded to powder													
16	Tractor drawn rotavator	1 ha	Consisting of a rotary unit, steel frame, 3-point hitch system, a rotary shaft on which blades are mounted. The blades are of 'L' shape. A good pulverization of the soil is achieved with single pass of Rotavator, Field Capacity – 0.4ha/h	Tractor drawn rotavator	Field capacity(ha/h), Fuel consumption(lit/ha), cost of operation(Rs/ha), depth of tillage (cm), effective operating width (cm),	45400	46600	-	2	-	-	3	2	3	2	5
17	Honey bee	-	Time of establishment, time and frequency of feeding	Honey bee	Honey yield/box, no. of colonies/box	5000	6500	-	-	-	-	-	5	-	5	5
18	Poultry	-	Rearing of dual purpose poultry bird "Kadaknath", body weight 1400 g/20weeks, egg laying capacity 185 nos. of egg/year	Poultry var. Kadaknath	Body wt./month, No. of eggs produced/year, Net return	100/bird	125/bird	2	-	-	-	1	2	3	2	5
19	vermicompost	-	Production packages will be divided into different	Short videos on production packages of vermicompost	<b>Change in attitude</b> <b>-Change in</b>	-	-	2	-	-	-	8	-	10	-	10

			segments and short videos will be produced and disseminated through whatsapp	ng	perception on expected behavioral control  -Application of the message												
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**Extension and Training activities under FLD:**

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants				Other		Total		T
						SC		ST		M	F	M	F	
						M	F	M	F					
Training & Field Day	IWM in groundnut	1	Crop production	1	Off	2	1	-	-	22	-	24	1	25
Training	INM in sugarcane	1	Crop production	1	OFF	-	2	-	-	22	1	22	3	25
Training & Field Day	Method lime application in groundnut	1	Soil Sc.	1	Off	2	1	-	-	22	-	24	1	25
Training & Field Day	Nutrient supplementation through foliar application in greengram	1	Soil Sc.	1	Off	3	-	-	-	21	1	24	1	25
Training & Field	Biological control of brinjal fruit	1	Horticulture	1	Off	1	2	-	-	22	-	23	2	25

Day	shoot borer													
Training	Biofertilizer application in tomato	1	Soil Sc.	1	Off	1	-	-	-	23	1	24	1	25
Training & Field Day	Major diseases & pest of solanaceous crops & their control measures		Horticulture	1	Off	1	-	-	-	23	1	24	1	25
Training & field day	Use of rice transplanter	1	Agril. Engg.	1	Off	1	1	-	-	22	1	23	2	25
Training & Field Day	Use and operation of multi crop seed cum fertilizer drill	1	Agril. Engg.	1	Off	-	-	-	-	25	-	25	-	25
Training	Use of mulching in vegetable	1	Agril. Engg.	1	Off	-	-	-	-	21	4	21	4	25
Training & Field Day	Use of rotavator for dry ploughing	1	Agril. Engg.	1	Off	-	3	-	-	22	-	22	3	25
Training	Role and importance of ICT in Agriculture development	1	Agril. Extension	1	Off	-	-	-	-	-	25	-	25	25

\* Repeat the above tables and information in Point no. 4 for EACH FLD being proposed.

**2. a) Seed and planting material production by utilization of instructional farm (Crops / Enterprises)**

Name of the Crop Enterprise /	Variety / Type	Period From..... to .....	Area (ha.)	Details of Production				
				Type of Produce	Expected Production (quintals)	Cost of inputs (Rs.)	Expected Gross income (Rs.)	Expected Net Income (Rs.)
Paddy	Swarna Sub-1	Kharif 2019	6 ha	FS	210 qtl.	4,80,000/-	6,36,510/-	1,56,510/-
Greengram	IPM-02-14	Rabi, 2019-20	4 ha	CS	30 qtl.	1,20,000/-	1,80,000/-	60,000/-
Brinjal	JK-80-31	July, Oct 2020	0.2 ha	Planting material	10000	2000	5000	3000
Chilli	Daiya	July & Oct 2020	0.1 ha	Planting material	5000	1500	2500	1000
Papaya	Swapna	July , Oct 2020	0.1 ha	Planting material	2000	12000	24000	12000
Tomato	Arka Rakshak	Oct to Nov, 2020	0.4 ha	Planting material	10000	4000	10000	6000
Onion	N-53, Agrifoundlight red	Oct-Dec, 2020	0.1 ha	Planting material	100000	8000	20000	12000
Cauliflower	Whitecontesa, Lucky-5	Oct, 2020	0.08 ha	Planting material	5000	1500	2500	1000
Cabbage	Pusa drumhead, Lucky ball	Oct, 2020	0.1 ha	Planting material	5000	1500	2500	1000
Capsicum	Ayesha	Sept- Oct 2020	0.08 ha	Planting material	5000	3000	5000	2000
Broccoli	KT-Sel-1	Oct, 2020	0.2 ha	Planting material	5000	2000	5000	3000

Drumstick	ODC-3			Planting material	2000	3000	10000	7000
Mushroom (Paddy straw)		Round the year	-		100 kg			
Mushroom (Oyster)			-		50 kg			
Vermicompost			-		50 qtl.			
Vermi worm			-		20 kg			
Poultry chicks			-		1500 nos.			
Pisciculture (fingerlings)			-		80000 nos.			
Honey bee			-		5 kg			

**b) Village Seed Production Programme- NA**

Name of the Crop / Enterprise	Variety / Type	Period From..... to .....	Area (ha.)	No. of farmers	Details of Production				
					Type of Produce	Expected Production(q)	Cost of inputs (Rs.)	Expected Gross income (Rs.)	Expected Net Income (Rs.)

**3. Extension Activities**

Sl. No.	Activities/ Sub-activities	No. of activities proposed	Farmers				Extension Officials			Total		
			M	F	T	SC/ST (% of total)	Male	Female	Total	Male	Female	Total
1.	Field Day	20	425	68	493		4	3	7	429	71	500
2.	KisanMela	2	400	75	475		20	5	25	475	25	500
3.	KisanGhoshi	15	310	35	345		10	5	15	320	40	360
4.	Exhibition	5	326	25	351		138	11	149	464	36	500
5.	Film Show	56	745	23	768		12	3	15	757	26	783
6.	Method Demonstrations	20	312	21	333		24	3	27	336	24	360
7.	Farmers Seminar	5	85	5	90		8	2	10	93	7	100
8.	Workshop	5	90	5	95		-	-	-	90	5	95
9.	Group meetings											
10.	Lectures delivered as resource persons	25	876	125	1001		27	5	32	903	130	1060
11.	Advisory Services											
12.	Scientific visit to farmers field	320	300	30	330		-	-	-	300	30	330
13.	Farmers visit to KVK	720	625	210	835		-	-	-	625	210	835

14.	Diagnostic visits	52	956	234	1190		128	78	206	1084	312	1396
15.	Exposure visits	2	56	27	83		10	7	17	66	34	100
16.	Ex-trainees Sammelan	1	20	25	45		3	2	5	50	25	75
17.	Soil health Camp	2	96	42	138		8	4	12	104	46	150
18.	Animal Health Camp	1	50	60	110		6	4	10	106	94	200
19.	Agri mobile clinic	-	-	-	-	-	-	-	-	-	-	-
20.	Soil test campaigns	3	68	21	89		8	3	11	76	24	100
21.	Farm Science Club Conveners meet	5	82	12	94		25	6	31	107	18	125
22.	Self Help Group Conveners meetings	3	108	22	130		15	5	20	123	27	150
23.	Mahila Mandals Conveners meetings	-	-	-	-	-	-	-	-	-	-	-
24.	Celebration of important days (specify)											
25.	Sankalp Se Siddhi	-	-	-	-	-	-	-	-	-	-	-
26.	Swatchta Hi Sewa	15	176	24	200		4	1	5			205
27.	Mahila Kisan Diwas	1	-	25	25	-	-	-	-	-	25	25
28.	Any Other (Specify)											
	Total											



#### 4. Revolving Fund (in Rs.)

Opening balance of 2019-2020 (As on 01.04.2020)	Amount proposed to be invested during 2020-2021	Expected Return
76944/-	600000/-	8,50,000/-

#### 5. Expected fund from other sources and its proposed utilization- NA

Project	Source	Amount to be received (Rs. in lakh)

#### 9.

##### 1. On-farm trials to be conducted\*

- i. **Season: Kharif, 2020**
- ii. **Title of the OFT: Assessment of Integrated Weed Management in Maize**
- iii. **Thematic Area: IWM**
- iv. **Problem diagnosed: Heavy weed infestation**
- v. **Important Cause: High labour cost**
- vi. **Production system: maize based**
- vii. **Micro farming system: Rainfed upland**
- viii. **Technology for Testing: weed management in maize**
- ix. **Existing Practice: Manual weeding**
- x. **Hypothesis: use of herbicide will reduce the weed population and cost of cultivation**
- xi. **Objective(s): To control Weed in maize**
- xii. **Treatments:**  
 Farmers Practice (FP)- Weeding through earthling up at 15 DAS + Use of herbicide 2-4-D @500g/ha at 30 DAS  
  
 Technology option-I (TO-I): Weeding through earthling up at 15 DAS + Use of herbicide Atrazine 50% WP @ 2kg/ha at 20 DAS  
  
 Technology option-II (TO-II): ..... Weeding through earthling up at 15 DAS +Use of herbicide Tembotrione 42% SC @287.5 ml/ha at 20 DAS
- xiii. **Critical Inputs: herbicide Atrazine & herbicide Tembotrione**
- xiv. **Unit Size: 0.05 ha**
- xv. **No of Replications: 7**
- xvi. **Unit Cost: 300**
- xvii. **Total Cost: 5000**
- xviii. **Monitoring Indicator: Weed flora count, No of cobs/plant,cob weight(g.), 1000 grain wt**
- xix. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): OUAT 2019**

\*Repeat the same format for EACH OFT being proposed.

**. 2.On-farm trials to be conducted\***

- i. Season: Rabi, 2020-21**
- ii. Title of the OFT: Assessment of weed management in Sugarcane**
- iii. Thematic Area: IWM**
- iv. Problem diagnosed: Heavy weed infestation in sugarcane**
- v. Important Cause: High labour cost**
- vi. Production system: sugarcane based**
- vii. Micro farming system: Irrigated medium land**
- viii. Technology for Testing: weed management in sugarcane**
- ix. Existing Practice: Manual weeding**
  
- Hypothesis: ..... use of herbicide will reduce the weed population and cost of cultivation**
  
- x. Objective(s): Weed management in sugarcane**
- xi. Treatments:**  
Farmers Practice (FP): **Manual weeding at 30 DAP**  
  
Technology option-I (TO-I): **Use of herbicide Atrazine 50% WP @ 2kg/ha at 20 DAP**  
  
Technology option-II (TO-II):..... **Use of herbicide metribuzine @2 DAP and 2-4-D 0.5kg/ha at 90 DAP**  
  
**Critical Inputs: herbicide Atrazine & herbicide metribuzine**
  
- xii. Unit Size: 0.05**
- xiii. No of Replications: 7**
- xiv. Unit Cost: 1000**
- xv. Total Cost: 7000**
- xvi. Monitoring Indicator: weed count, WCE, Cane weight, No. of tillers/hill**
  
- xvii. Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): OUAT,2012**

### **3. On-farm trials to be conducted\***

- i. Season: Rabi, 2019-20**
- ii. Title of the OFT: Assessment of Sulphur and Boron for higher yield in cabbage**
- iii. Thematic Area: INM**
- iv. Problem diagnosed: Low quality and yield due to secondary and micro nutrient deficiency**
- v. Important Cause: micro secondary nutrient deficiency**
- vi. Production system: Rice-vegetable**
- vii. Micro farming system: Irrigated medium land**
- viii. Technology for Testing: Application of Sulphur and Boron for higher yield**
- ix. Existing Practice: only fertilizer application**
- x. Hypothesis: Assessment of B & S in cabbage**
- xi. Objective(s): For increasing yield of cabbage**
- xii. Treatments:**
  - Farmers Practice (FP): **NPK as basal application(110-50-40 kg/ha)**
  - Technology option-I (TO-I): **STBF (NPK: 120-60-60)+ Sulphur @30 kg ha +1 kg Boron as basal application**
  - Technology option-II (TO-II): **..... STBF (NPK) +1 kg Boron as basal application**
- xiii. Critical Inputs: Boron & Sulphur**
- xiv. Unit Size: 1 ha**
- xv. No of Replications: 7**
- xvi. Unit Cost: 1200**
- xvii. Total Cost: 8400**
- xviii. Monitoring Indicator: Curd wt. (g.), no. of days harvesting**
- xix. Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): AICRP on Micronutrient and pollutant, OUAT, BBSR, Odisha, 2016**

#### **4. On-farm trials to be conducted\***

- i. Season: Rabi, 2020-21**
- ii. Title of the OFT: Assessment of consortia of micro organism (Azotobactor + Azospinillum +PSB) in pointed gourd**
- iii. Thematic Area: INM**
- iv. Problem diagnosed: Low yield due to low beneficial microbial population**
- v. Important Cause: No foliar application of fertilizer**
- vi. Production system: Rice-vegetable**
- vii. Micro farming system: Irrigated medium land**
- viii. Technology for Testing: nutrient supplementation through foliar application in greengram**
- ix. Existing Practice: Manual weeding at 30 DAT**
- x. Hypothesis: 75% N+75%P+full dose of K+Foliar spray of 2% of Urea phosphate at 20 and 35 DAS has better effect on branching and pod setting in greengram**
- xi. Objective(s): To increase yield of greengram**
- xii. Treatments:**
  - Farmers Practice (FP): Only NPK (100-50-60 kg/ha.)**
  - Technology option-I (TO-I): STBF(120-80-80)- + 100 kg of FYM & inoculated with 4kg Azotobactor, Azospirillum & PSB+**
  - Technology option-II (TO-II): ..... STBF + 5 kg lime mixed with 100 kg of FYM & inoculated with 4kg Azotobactor, Azospirillum & PSB**
- xiii. Critical Inputs: FYM, Azotobactor, Azospirillum & PSB**
- xiv. Unit Size: 1 ha**
- xv. No of Replications: 7**
- xvi. Unit Cost: 1100**
- xvii. Total Cost: 7700**
- xviii. Monitoring Indicator: Fruit size, No. of fruits /plant, Fruit weight(g.)**
- xix. Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): AINP on Biodiversity & biofertilizer**

## 5. On-farm trials to be conducted\*

- i. **Season: Rabi, 2019-20**
- ii. **Title of the OFT: Assessment of potato varieties**
- iii. **Thematic Area: varietal substitution**
- iv. **Problem diagnosed: Low yield due to late planting ,temperature fluctuation during tuberization**
- v. **Important Cause: Cultivation of medium duration variety kufri Jyoti**
- vi. **Production system: Rice-Vegetable**
- vii. **Micro farming system: Irrigated medium land**
- viii. **Technology for Testing: Early potato varieties**
- ix. **Existing Practice: Cultivation of medium duration variety kufri Jyoti**
- x. **Hypothesis: .....** Early harvesting of the tuber will increase market price. The farmers will get more profit from early potato variety cultivation
- xi. **Objective(s): Higher production and profit**
- xii. **Treatments:**  
Farmers Practice (FP): Kufri jyoti  
  
Technology option-I (TO-I): Himalini (Medium size, oval oblong, white tuber with pale yellow flesh, better keeping quality, resistant to late blight, Avg. yield- 300 350 qtl/ha)  
  
Technology option-II (TO-II): ..... Kufri Khyati (High yielding, early maturing, tubers are ovoid, creamish, white with medium deep eyes, Avg. yield- 250-300 qtl/ha, duration 70-75 days)
- xiii. **Critical Inputs: potato tuber**
- xiv. **Unit Size: 0.06 ha**
- xv. **No of Replications: 7**
- xvi. **Unit Cost: 2800**
- xvii. **Total Cost: 19600**
- xviii. **Monitoring Indicator: No. of tubers/plant, individual tuber wt., diameter of tuber**
- xix. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): CPRI, Simla, 2010**

## 6. On-farm trials to be conducted\*

- i. **Season: Rabi, 2020-21**
- ii. **Title of the OFT: Assessment of different trellis in bittergourd for higher production**
- iii. **Thematic Area: Vegetable cultivation**
- iv. **Problem diagnosed: High incidence of fruit rot due to ground trelling**
- v. **Important Cause: Lack of knowledge about trellis system**
- vi. **Production system: Rice-vegetable**

- vii. **Micro farming system: Irrigated medium land**
- viii. **Technology for Testing: Different trellis system in vegetable for higher production**
- ix. **Existing Practice: Ground trailing**
- x. **Hypothesis: ..... Lean to type trellis – will decrease incidence of pest & diseases .It will help in better intercultural operation, more sunlight trapping, easy harvesting. The production will be more and make the cultivation profitable.**
- xi. **Objective(s): Reduction in disease pest incidence, more quality production, easy intercultural operation.**
- xii. **Treatments:**  
 Farmers Practice (FP): **Ground trailing**  
 Technology option-I (TO-I): **Single trellis, one row trellis constructed with bamboo poles & GI wires, jute rope**  
  
 Technology option-II (TO-II): ..... **Lean to type trellis – stakes are joined between two adjoining bed forming an A shaped structure horizontal stakes are installed at the top joining of all other beds . The stakes support the climbing vines. Strings are used to secure adjoining stakes. Trellis height 2m.**
- xiii. **Critical Inputs: Bamboos, fishing net**
- xiv. **Unit Size: 0.057 ha**
- xv. **No of Replications: 7**
- xvi. **Unit Cost: Rs.4000**
- xvii. **Total Cost: Rs.28000**
- xviii. **Monitoring Indicator: Length of fruit, Wt. of fruit, incidence of fruit rot, No. of fruits/plant**
- xix. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): CHES 2014**

## 7. On-farm trials to be conducted\*

- i. **Season: Kharif, 2020**
- ii. **Title of the OFT: Assessment of different paddy threshers**
- iii. **Thematic Area: Farm 38echanization**
- iv. **Problem diagnosed: High cost of threshing paddy & not getting whole straw after threshing**
- v. **Important Cause: No suitable low cost technology to get whole straw**
- vi. **Production system: Rice-vegetable**
- vii. **Micro farming system: Rainfed medium land**
- viii. **Technology for Testing: use of different tractor drawn paddy thresher**
- ix. **Existing Practice: combine harvester**
- x. **Hypothesis: .....By use of whole straw paddy thresher the cost of threshing will be lower**
- xi. **Objective(s): To reduce labour cost of threshing**
- xii. **Treatments:**  
 Farmers Practice (FP): **Power paddy thresher**  
  
 Technology option-I (TO-I): **Tractor driven axial flow thresher**

Technology option-II (TO-II): ..... **Tractor driven whole straw paddy thresher**

- xiii. **Critical Inputs: Tractor driven axial flow thresher and Tractor driven whole straw paddy thresher**
- xiv. **Unit Size: 0.4 ha**
- xv. **No of Replications: 7**
- xvi. **Unit Cost: 1000**
- xvii. **Total Cost: 7000**
- xviii. **Monitoring Indicator: Threshing capacity (qtl/hr.), cost of threshing (Rs/qtl.), labour requirement (mandays/ha)**
- xix. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): AICRP on FIM, CAET, OUAT 2015-16**

**8. On-farm trials to be conducted\***

- i. **Season: Rabi, 2020-21**
- ii. **Title of the OFT: Assessment of groundnut threshers for stripping of groundnut**
- iii. **Thematic Area: Farm mechanization**
- iv. **Problem diagnosed: High labour cost on manual stripping**
- v. **Important Cause: More labour requirement and no suitable labour saving threshing technology available**
- vi. **Production system: Rice groundnut**
- vii. **Micro farming system: Irrigated medium land**
- viii. **Technology for Testing:**
- ix. **Existing Practice: Manual weeding at 30 DAT**
- x. **Hypothesis: tractor drawn groundnut thresher has better efficiency to reduce labour cost for striping**
- xi. **Objective(s): To reduce labour cost for stripping**
- xii. **Treatments:**
  - Farmers Practice (FP): **Manual striping**
  - Technology option-I (TO-I): **power operated groundnut thresher**
  - Technology option-II (TO-II): **tractor drawn groundnut thresher**
- xiii. **Critical Inputs: Groundnut thresher**
- xiv. **Unit Size: 0.4 ha**
- xv. **No of Replications: 7**
- xvi. **Unit Cost: 1000**
- xvii. **Total Cost: 7000**
- xviii. **Monitoring Indicator: Stripping capacity (qtl/h), labour required for stripping (man days/ha), stripping efficiency %, % of damaged pods**

- xix. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify): AICRP on FIM,CAET,OUAT, 2015-16, ( Research activities during 2016-17: Transferable Technologies and Technical Programme**

**9. On-farm trials to be conducted\***

- i. **Season: Rabi, 2020-21**
- ii. **Title of the OFT: Assessment of different planting time for better market price of Cauliflower**
- iii. **Thematic Area: Market linkage**
- iv. **Problem diagnosed: Distress sale of Cauliflower in rabi season**
- v. **Important Cause: bumper production in a short period**
- vi. **Production system: Rice-vegetable**
- vii. **Micro farming system: Irrigated medium land**
- viii. **Technology for Testing:**
- ix. **Existing Practice: Farmers generally plant the seedling in the month of October**
- x. **Hypothesis: Early planting time has to fetch better market price**
- xi. **Objective(s):To fetch better marketing price**
- xii. **Treatments:**  
Farmers Practice (FP): **Farmers generally plant the seedling in the month of October**  
Technology option-I (TO-I): **Planting of seedling 1 month before onset of normal planting period**  
  
Technology option-II (TO-II): **Planting of seedling 1 month after completion of normal planting period**
- xiii. **Critical Inputs: Supply of Seedlings of cauliflower**
- xiv. **Unit Size: - 0.032**
- xv. **No of Replications: 7**
- xvi. **Unit Cost: 1000**
- xvii. **Total Cost: 7000**
- xviii. **Monitoring Indicator: Head weight, Disease & pest incidence, Market price**
- i. **Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):**



**10. List of Projects to be implemented by funding from other sources (other than KVK fund)**

Sl. No.	Name of the project	Fund expected (Rs.)
1	-	-
2	-	-

**11. No. of success stories proposed to be developed with their tentative titles- Two**

**12. Scientific Advisory Committee**

Date of SAC meeting held during 2019-20	Proposed date during 2020--2021
31.08.2019	September, 2020

**13. Soil and water testing**

Details	No. of Samples	No. of Farmers									No. of Villages	No. of SHC distributed
		SC		ST		Other		Total				
		M	F	M	F	M	F	M	F	T		
Soil Samples	1000					875	125	875	125	1000	57	1000
Water Samples	-	-	-	-	-	-	-	-	-	-		
Other (Please specify)	-	-	-	-	-	-	-	-	-	-		
Total	1000										57	1000

**14. Fund requirement and expenditure (Rs.)\***

Heads	Expenditure (last year) (Rs.) up to 31.03.2019	Expected fund requirement (Rs.)
<b>Recurring</b>		
i. Pay & Allowance	-	1,22,00,000
ii. Contingency	10,87,609/-	16,00,000/-
iii. TA	90,000/-	1,00,000/-
iv. HRD	6,000/-	30,000/-
<b>Non-recurring (Specify)</b>		
i. Library	10,000/-	10,000/-
ii. Vehicle	8,00,000/-	-
iii. Furniture	-	6,00,000/-
<b>Total</b>	<b>19,93,609/-</b>	<b>1,45,40,000/-</b>

\* Any additional requirement may be suitably justified.

**15. Every KVK should bring a brief write-up supported by quality photographs about the technology having wide acceptability among the farming community of the district with factual data**

SINo.	Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
				Before (Rs./Unit)	After (Rs./Unit)
1	biological control of shoot and fruit borer in brinjal	45	35	79800/ha	1,15,350/ha
2	IPM for control of YVMV in okra	56	38	59680/ha	87,704/ha
3	Integrated management practices for management of stem borer in paddy	85	65	18,100	30,100
4	Demonstration of paddy straw mushroom	500	73	Rs. 500/10 nos bed	Rs. 760/- per 10 nos.bed (net profit)
5	Application of Sulphur in groundnut	72	56	34400/ha	50,775/ha
6	Demonstration on Oyster mushroom <i>H. ulmarius</i>	200	79	647/10 bag (net profit)	Rs. 1100/- per 10 bag (net profit)
7	Improved variety Rainbow rooster rearing	150	45	1680/100 bird	4080/100 bird
8	Tractor operated seed cum fertilizer drill for sowing groundnut	30	51	43650/ha	57300/ha
9	Tractor operated rotavator for dry ploughing	40	27	78700/ha	82250/ha
10	Demonstration on Integrated Disease Management (Tricyclozole +Propiconazole) against sheath Blight in paddy	125	65	62650 /ha	70000 /ha
11	IWM in groundnut	200	60	35500/ha	40500/ha
12	Boron and sulphur application in cauliflower	355	55	50000/ha	65000/ha

