

**KRISHI VIGYANKENDRA, PIPRAKOTHI,  
EAST CHAMPARAN**



**ANNUAL ACTION PLAN  
(APRIL, 2019 to MARCH, 2020)**

**DR. RAJENDRA PRASAD CENTRAL AGRICULTURAL UNIVERSITY,PUSA, SAMASTIPUR (BIHAR**

Thematic area	Title	No of courses	Duration (days)	Venue On/Off	Tentative Date	No of Participants								Grand Total
						SC		ST		Others		Total		
						M	F	M	F	M	F	M	F	
1	2	3	4			5	6			7	8	9	10	11
	<b>Discipline: Agronomy</b>													
	<b>April, 2019 to June, 2019</b>													
IFS	IFS model for livelihood security in Crops.	1	1	On/Off	20/04/19	6	3	0	0	14	7	20	10	30
IWM	Weed Management in Rice	1	1	On/Off	22/04/19	4	3	0	0	16	7	20	10	30
	Weed Management in Sugarcane	1	1	On/Off	2/04/19	7	2	0	0	16	5	23	7	30
	Weed Management in Vegetables crops	1	1	On/Off	10/05/19	4	5	0	0	16	5	20	10	30
Nursery management	Techniques of Raising Nursery for Paddy Transplanter.	1	1	On/Off	11/05/19	5	4	0	0	19	2	24	6	30
Seed Production	Technique of quality seed production of Kharif crops	1	2	On/Off	04/06/19	4	5	0	0	16	5	20	10	30
Production of organic inputs	Production technique of Dhaincha for green manuring.	1	1	On/Off	07/06/19	6	3	0	0	20	1	26	4	30
	<b>Total</b>	<b>7</b>	<b>8</b>			<b>36</b>	<b>25</b>	<b>0</b>	<b>0</b>	<b>117</b>	<b>32</b>	<b>153</b>	<b>57</b>	<b>210</b>
	<b>July, 2019 to September, 2019</b>													
Seed Production	Seed Production technique of Pigeon pea.	1	2	On/Off	18/07/19	7	3	0	0	12	8	19	11	30
IWM	Integrated weed Management in transplanted Rice.	1	1	On/Off	19/07/19	9	3	0	0	10	8	19	11	30
Crop Production	Scientific cultivation of Sesame	1	1	On/Off	19/08/19	4	3	0	0	15	8	19	11	30
Vermi Culture	Production technique of Vermi compost	1	1	On/Off	21/08/19	4	4	0	0	18	5	22	9	31
Fodder Production	Production Techniques of Fodder Crops.	1	1	On/Off	11/09/19	6	4	0	0	20	0	26	4	30
	<b>Total</b>	<b>5</b>	<b>6</b>			<b>30</b>	<b>17</b>	<b>0</b>	<b>0</b>	<b>75</b>	<b>29</b>	<b>105</b>	<b>46</b>	<b>151</b>
	<b>October, 2019 to Dec, 2019</b>													
Seed	Seed Production Techniques of	1	2	On/Off	15/10/19	7	3	0	0	16	4	23	7	30

Production	Wheat and Oilseed crop.													
Crop Production	Production technology of Sugarcane.	1	1	On/Off	18/10/19	10	2	0	0	15	3	25	5	30
INM	INM in Rapeseed and Mustard	1	1	On/Off	05/11/19	4	2	0	0	20	4	24	6	30
Production of organic inputs	Production of organic inputs and their use in crop production.	1	1	On/Off	06/11/19	7	3	0	0	16	4	23	7	30
IWM	Integrated weed management in Rabi Crops.	1	1	On/Off	04/12/19	7	3	0	0	16	4	23	7	30
Fodder Crop	Cultivation technique of Berseem.	1	1	On/Off	06/12/19	4	2	0	0	20	4	24	6	30
	<b>Total</b>	<b>6</b>	<b>7</b>			<b>39</b>	<b>15</b>	<b>0</b>	<b>0</b>	<b>103</b>	<b>23</b>	<b>142</b>	<b>38</b>	<b>180</b>
	<b>January,2020 to March,2020</b>													
Crop Production	Agronomical practices of summer Moong and Black gram	1	1	On/Off	03/01/20	7	2	0	0	18	3	25	5	30
Crop Production	Package for increasing Sesame production in East Champaran dist.	1	1	On/Off	10/01/20	4	2	0	0	20	4	24	6	30
	Production techniques of minor millets	1	1	On/Off	05/02/20	5	4	0	0	20	2	25	6	30
	Ratoon management in Sugarcane	1	1	On/Off	26/02/20	5	3	0	0	18	4	23	7	30
	Scientific cultivation technology of Sugarcane	1	1	On/Off	04/03/20	8	3	0	0	15	4	23	7	30
Fodder Production	Production techniques of important Fodder Crops.	1	1	On/Off	27/03/20	9	3	0	0	14	4	23	7	30

	<b>Total</b>	<b>6</b>	<b>6</b>			<b>38</b>	<b>17</b>	0	0	<b>105</b>	<b>21</b>	<b>143</b>	<b>38</b>	<b>180</b>
	<b>Grand Total</b>	<b>24</b>	<b>27</b>			<b>143</b>	<b>74</b>	0	0	<b>400</b>	<b>105</b>	<b>543</b>	<b>179</b>	<b>721</b>
<b>Discipline : Plant Protection</b>														
	<b>April,2019 to June,2019</b>													
IPM	Management of important insects and Diseases of Mango.	1	1	On/Off	22/04/19	9	4	0	0	15	2	24	6	30
IPM	IPM in Sugarcane	1	1	On/Off	23/04/19	3	2	0	0	19	6	22	8	30
Stored grain pest	Identification and Management of Stored grain pest of Wheat and Pulses.	1	1	On/Off	02/05/19	5	3	0	0	18	4	23	7	30
IDM	Management of Panama wilt disease of Banana	1	1	On/Off	03/05/19	11	3	0	0	14	2	25	5	30
IPM	Insects and Disease management in Summer Vegetables.	1	1	On/Off	11/06/19	7	3	0	0	18	2	25	5	30
Biocontrol	Production technique of non-chemical pesticides through Neem Seeds and Tobacco midribs.	1	1	On/Off	25/06/19	6	3	0	0	16	5	22	8	30
	<b>Total</b>	<b>6</b>	<b>6</b>			<b>41</b>	<b>18</b>	0	0	<b>100</b>	<b>21</b>	<b>141</b>	<b>39</b>	<b>180</b>
	<b>July,2019 to September,2019</b>													
IDM	IDMinvegetables.	1	1	On/Off	03/07/19	4	3	0	0	18	5	22	8	30
IDM	Management of important diseases of Rice and Maize.	1	1	On/Off	17/07/19	6	3	0	0	19	2	25	5	30

IPM	IPM in Rice	1	1	On/Off	02/08/19	10	4	0	0	14	2	24	6	30
IPM	Important Insects and Diseases of Betel vine and its Management.	1	1	On/Off	08/08/19	6	4	0	0	16	4	22	8	30
Mushroom Production	Cultivation Techniques of Button Mushroom.	1	2	On/Off	12/09/19	4	3	0	0	18	5	22	8	30
	<b>Total</b>	<b>5</b>	<b>6</b>			<b>30</b>	<b>17</b>	<b>0</b>	<b>0</b>	<b>85</b>	<b>18</b>	<b>115</b>	<b>35</b>	<b>150</b>
	<b>October, 2019 to Dec, 2019</b>													
IPM	IPM in Sugarcane	1	1	On/Off	03/10/19	8	4	0	0	13	5	21	9	30
IDM	Management Early and Late blight disease of Potato	1	1	On/Off	04/10/19	4	3	0	0	18	5	22	8	30
IDM	IDM in Oil seed Crops.	1	1	On/Off	16/10/19	6	4	0	0	15	5	21	9	30
Bio control	Use of Bio agents to manage pest of vegetables.	1	1	On/Off	15/11/19	4	3	0	0	18	5	22	8	30
Beekeeping	Beekeeping for pollination and honey production.	1	3	On/Off	21/11/19	4	4	0	0	18	4	22	8	30
Mushroom	Production techniques of Oyster Mushroom	2	2	On/Off	11/12/19	9	4	0	0	12	5	21	9	30
	<b>Total</b>	<b>7</b>	<b>9</b>			<b>35</b>	<b>22</b>	<b>0</b>	<b>0</b>	<b>94</b>	<b>29</b>	<b>129</b>	<b>51</b>	<b>180</b>
	<b>January ,2020 to March,2020</b>													
Bee Keeping	Scientific methods of Bee Keeping.	1	1	On/Off	04/01/20	8	4	0	0	16	2	24	6	30
IPM	IPM in Mango and Litchi	1	1	On/Off	09/01/20	4	3	0	0	18	5	22	8	30
IPM	Management of Fruit Fly in Fruits and Vegetables.	1	1	On/Off	06/02/20	4	3	0	0	18	5	22	8	30



Women and Child Care	Design and development of low cost balance diet for pregnantwomen.	01	01	On/Off	18/07/19	-	15	0	0	-	15	-	30	30	
Value Addition	Preservation of Fruits and Vegetables	01	01	On/Off	19/08/19	-	15	0	0	-	15	-	30	30	
Kitchen Garden	Why nutritional garden is essential and how its add value to our health.	01	01	On/Off	21/08/19	-	15	0	0	-	15	-	30	30	
Drudgery Reduction	Importance and use of different farm tools for farm women	01	01	On/Off	11/09/19	-	15	0	0	-	15	-	30	30	
	<b>Total</b>	<b>4</b>	<b>4</b>				<b>0</b>	<b>60</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>60</b>	<b>0</b>	<b>120</b>	<b>120</b>
	<b>October,2019 to Dec,2019</b>														
Others	Mushroom cultivation and its value added products	01	01	On/Off	15/10/19	-	10	0	0	-	15	-	25	25	
Others	Mushroom cultivation and its value added products	01	01	On/Off	18/10/19	-	15	0	0	-	15	-	30	30	
Value addition	Preservation of Amla	01	01	On/Off	05/11/19	-	15	0	0	-	15	-	30	30	
Value addition	Importance and health benefits of Amla and other citrus fruits.	01	01	On/Off	06/11/19	-	15	0	0	-	15	-	30	30	
Others	Nutritional and Medicinal Value of Oyster Mushroom and its Value added Products.	01	01	On/Off	04/12/19	-	15	0	0	-	15	-	30	30	
Design and Development of Low cost Diet	Preparation of low cost balance diet for Pre School Children.	01	01	On/Off	06/12/19	-	15	0	0	-	15	-	30	30	
	<b>Total</b>	<b>6</b>	<b>6</b>				<b>0</b>	<b>85</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>90</b>	<b>0</b>	<b>175</b>	<b>175</b>

**Discipline- Horticulture**

<b>January, to March, 2020</b>															
Design and Development of Low cost Diet	Preparation of low cost balance diet for School going Children.	01	01	On/Off	03/01/20	-	15	0	0	-	15	-	30	30	
Women and Child Care	Nutrition and health education for farm women.	01	01	On/Off	10/01/20	-	15	0	0	-	15	-	30	30	
Others	How to grow Oyster Mushroom in Rural Conditions	01	01	On/Off	05/02/20	-	15	0	0	-	15	-	30	30	
Income generation activities	Income generation activities for empowerment of rural women.	01	01	On/Off	26/02/20	-	15	0	0	-	15	-	30	30	
	<b>Total</b>	<b>4</b>	<b>4</b>				<b>0</b>	<b>60</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>60</b>	<b>0</b>	<b>120</b>	<b>120</b>
	<b>Grand total</b>	<b>19</b>	<b>19</b>				<b>2</b>	<b>275</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>271</b>	<b>4</b>	<b>546</b>	<b>550</b>

**ANNUAL ACTION PLAN (2019-2020)**

Name of the KVK : KVK, Piprakothi, East Champaran

Name of Host Organization : Dr. Rajendra Prasad Central Agricultural University, Pusa, Biha

**1. Training Programme to be organized :****A. Practicing farmer/Farm women (On/Off)**



	<b>April, 2019 to June, 2019</b>													
<b>Vegetable Crops</b>	Cultivation practices of summer vegetable crops	1	1	On/Off	22/04/19	4	5	0	0	16	5	20	10	30
Water management	Care and water management in Mango	1	1	On/Off	23/04/19	6	2	0	0	20	2	26	4	30
	Care and water management in Litchi	1	1	On/Off	02/05/19	10	4	0	0	13	3	23	7	30
Nursery Raising	Nursery raising of different types of seasonal vegetables	1	1	On/Off	11/06/19	4	3	0	0	22	1	26	4	30
	<b>Total</b>							0	0					
		<b>4</b>	<b>4</b>			<b>24</b>	<b>14</b>			<b>71</b>	<b>11</b>	<b>95</b>	<b>25</b>	<b>120</b>
	<b>July, 2019 to September,2019</b>													
Off season Vegetable	Cultivation practices of off season vegetable	1	1	On/Off	03/07/19	4	5	0	0	16	5	20	10	30
INM	Scope and importance of Nutrient management in important fruit crops	1	1	On/Off	17/07/19	6	4	0	0	20	0	26	4	30
	Scope and importance of Nutrient management in different vegetable crops.	1	1	On/Off	02/08/19	6	0	0	0	20	4	26	4	30
Spices	Scientific Cultivation of Ginger	1	1	On/Off	08/08/19	4	3	0	0	22	1	26	4	30
	Scientific Cultivation of Turmeric	1	1	On/Off	12/09/19	4	3	0	0	22	1	26	4	30

	Package and Practices of Garlic production	1	1	On/Off	17/09/19	4	3	0	0	22	1	26	4	30
	Cultivation Practices of onion	1	1	On/Off	18/09/19	8	3	0	0	17	2	25	5	30
	<b>Total</b>							0	0					
		<b>7</b>	<b>7</b>			<b>36</b>	<b>21</b>			<b>139</b>	<b>14</b>	<b>175</b>	<b>35</b>	<b>210</b>
	<b>Oct.,2019 to Dec.,2019</b>													
Nursery Raising	Scope and importance of Nursery raising and its different techniques.	1	1	On/Off	04/10/19	4	5	0	0	16	5	20	10	30
	Nursery raising technique of flowers	1	1	On/Off	15/10/19	4	5	0	0	16	5	20	10	30
Production and management technology	Scientific cultivation of banana	1	1	On/Off	15/11/19	6	4	0	0	20	0	26	4	30
Rejuvenation	Rejuvenation techniques in Mango	1	1	On/Off	21/11/19	6	0	0	0	20	4	26	4	30
	Techniques of Rejuvenation in Litchi	1	1	On/Off	11/12/19	9	3	0	0	15	3	24	6	30
Production and management technology	Scientific cultivation of Potato	1	1	On/Off	17/12/19	4	3	0	0	22	1	26	4	30
	<b>Total</b>	<b>6</b>	<b>6</b>			<b>33</b>	<b>20</b>	0	0	<b>109</b>	<b>18</b>	<b>142</b>	<b>38</b>	<b>180</b>
	<b>Jan.,2020to March,2020</b>													
Production and management technology	Production and management technology of summer vegetable	1	1	On/Off	07/01/20	4	5	0	0	16	5	20	10	30
	Cultivation practices of bottle gourd	1	1	On/Off	14/01/20	4	3	0	0	22	1	26	4	30

	Cultivation practices of Okra	1	1	On/Off	04/02/20	4	3	0	0	22	1	26	4	30
Export potentiality of vegetables	Scope and importance of export of potentials Vegetables.	1	1	On/Off	25/02/20	4	3	0	0	22	1	26	4	30
Protective cultivation	Protective cultivation of important commercial flowers.	1	1	On/Off	05/03/20	4	3	0	0	22	1	26	4	30
	Protective cultivation of offseason vegetables.	1	1	On/Off	24/03/20	4	3	0	0	22	1	26	4	30
	Protective cultivation of Capsicum.	1	1	On/Off	27/03/20	4	5	0	0	20	1	26	4	30
	<b>Total</b>	<b>7</b>	<b>7</b>			<b>28</b>	<b>25</b>	<b>0</b>	<b>0</b>	<b>146</b>	<b>11</b>	<b>176</b>	<b>34</b>	<b>210</b>
	<b>Grand Total</b>	<b>24</b>	<b>24</b>			<b>121</b>	<b>80</b>	<b>0</b>	<b>0</b>	<b>465</b>	<b>54</b>	<b>588</b>	<b>132</b>	<b>720</b>
	<b>Discipline: Soil and Water Engineering</b>													
	<b>April, 2019 to June, 2019</b>													
Use of plastics in farming practices	Use of different kind of mulching material for in-situ moisture conservation	1	1	On/Off	29/04/19	5	3	0	0	20	2	25	5	30
Production of small tools and implements	Importance of various tools and implements in farm mechanization , classification and uses	1	1	On/Off	30/04/19	4	3	0	0	18	5	22	8	30
Use of plastics in farming practices	Different types of low cost Protected cultivation structures for cash crops	1	1	On/Off	04/05/19	4	3	0	0	18	5	22	8	30
Production of small tools and implements	Types and Use of different intercultural operation equipments	1	1	On/Off	11/05/19	4	3	0	0	18	5	22	8	30

Others	Techniques of in-situ and ex-situ soil moisture conservation	1	1	On/Off	06/06/19	4	3	0	0	18	5	22	8	30
Others	Selection of site specific water harvesting structures	1	1	On/Off	07/06/19	4	4	0	0	18	4	22	8	30
	<b>Total</b>							0	0					
		<b>6</b>	<b>6</b>			<b>25</b>	<b>19</b>			<b>110</b>	<b>26</b>	<b>135</b>	<b>45</b>	<b>180</b>
	<b>July,2019 to Sep., 2019</b>													
Installation and maintenance of farm machinery and implements	Operation and Maintenance of micro irrigation techniques for different crops	1	1	On/Off	04/07/19	4	5	0	0	16	5	20	10	30
Others	Soil and Water conservation Engineering measures for arable and non-arable lands	1	1	On/Off	10/07/19	6	2	0	0	20	2	26	4	30
Repair and Maintenance of farm machinery and implements	Site specific implements and farm machineries to optimize input resources	1	1	On/Off	06/08/19	6	4	0	0	16	4	22	8	3
Others	Operation and management of Irrigation water application methods	1	1	On/Off	13/08/19	4	3	0	0	22	1	26	4	30
Repair and Maintenance of farm machinery and	Calibration of different agricultural machineries	1	1	On/Off	05/09/19	4	3	0	0	22	1	26	4	30

implements														
Small scale processing and value addition	Operation and maintenance of Mini rice mill	1	1	On/Off	10/09/19	4	3	0	0	22	1	26	4	30
	<b>Total</b>	<b>6</b>	<b>6</b>			<b>28</b>	<b>20</b>	<b>0</b>	<b>0</b>	<b>118</b>	<b>14</b>	<b>146</b>	<b>34</b>	<b>153</b>
	<b>October, 2019 to December 2019</b>													
Others	Selection criteria and Operation & Maintenance of Farm Tractor	1	1	On/Off	03/10/19	7	4	0	0	17	2	24	6	30
Others	Precision agriculture to optimize input resources	1	1	On/Off	05/11/19	4	5	0	0	16	5	20	10	30
Production of small tools and implements	Implements and Equipments for Land levelling and shaping for better resource use	1	1	On/Off	08/11/19	6	1	0	0	20	3	26	4	30
Others	Equipments for water and erosion control in surface irrigation techniques	1	1	On/Off	03/12/19	6	1	0	0	20	3	26	4	30
Others	Drainage techniques and equipments for safe application of water in surface irrigation techniques	1	1	On/Off	04/12/19	4	3	0	0	22	1	26	4	30
Others	Water allocation and distribution methods in canal command system.	1	1	On/Off	10/12/19	4	3	0	0	22	1	26	4	30
	<b>Total</b>	<b>6</b>	<b>6</b>			<b>31</b>	<b>17</b>	<b>0</b>	<b>0</b>	<b>117</b>	<b>15</b>	<b>148</b>	<b>32</b>	<b>180</b>
	<b>January, 2020 to March, 2020</b>													
Installation and maintenance of micro	Maintenance of drip/sprinkler system.	1	1	On/Off	03/01/20	4	5	0	0	16	5	20	10	30



	<b>June,2019</b>													
Organic Farming	Training for Organic Grower	1	5	On/O ff	02-04/05/19	8	2	0	0	14	6	22	8	30
	<b>July,2019 to Sep.,2019</b>													
Seed Production	Seed Production Techniques of important Kharif crops	1	5	On/O ff	24-26/07/19	7	03	0	0	15	5	22	8	30
	<b>Oct.,2019 to Dec.,2019</b>		5											
Fodder Production	Scientific cultivation of important Fodder Crops.	1	5	On/O ff	11-13/11/19	7	03	0	0	15	5	22	8	30
Seed Production	Seed Production Techniques of important Rabi Crops	1	5	On/O ff	18-20/12/19	7	03	0	0	15	5	22	8	30
	<b>Jan.,2020 to March,2020</b>		5											
Vermi Compost	Techniques of making of Vermi Compost through Water hyacinth, CongressGrass and others.	1	5	On/O ff	16-18/01/20	8	2	0	0	14	6	22	8	30
	<b>Total</b>	<b>6</b>				<b>45</b>	<b>15</b>	<b>0</b>	<b>0</b>	<b>87</b>	<b>33</b>	<b>132</b>	<b>48</b>	<b>180</b>
	<b>DISCIPLINE : PLANT PROTECTION</b>													
	<b>April,2019 to June,2019</b>													
Bee Keeping	Bee Keeping for self-employment	1	5	On/O ff	18-20/04/19	10	2	0	0	14	6	22	8	30
	<b>July,2019 to Sep.,2019</b>		5											
Mushroom	Mushroom and Spawn	1	5		04-06/07/19	10	5	0	0	10	5	20	10	30

	Production Techniques													
Bee Keeping	Bee Keeping for self-employment	1	5		15-17/08/19	10	5	0	0	10	5	20	10	30
	<b>Oct.,2019 to Dec.,2019</b>		5											
Biopesticides	Production Techniques of Non chemical pesticides through Plant Products.	1	5		08-10/11/19	8	7	0	0	10	5	18	12	30
	<b>Jan, 2020 to March, 2020</b>		5											
Mushroom	Mushroom and Spawn Production Techniques	1	5		15-17/01/20	10	5	0	0	10	5	20	10	30
	<b>Total</b>	<b>6</b>				<b>56</b>	<b>26</b>	<b>0</b>	<b>0</b>	<b>68</b>	<b>32</b>	<b>122</b>	<b>58</b>	<b>180</b>
	<b>Discipline : Community Science</b>													
	<b>April,2019 to June,2019</b>													
Income generation activity	Cutting & stitching of simple garments	01	5		22-27/04/19	-	05	0	0	-	10	-	15	15
Value addition	Food processing & value addition	01	5		14-16/05/19	-	10	0	0	-	10	-	20	20
Value addition	Fruits & Vegetable preservation	01	5		04-06/06/19	-	05	0	0	-	10	-	15	15
	<b>July,2017 to Sep.,2017</b>													
Income generation activity	Income generation by Handmade Woolen wears	01	5		06-15/07/19	-	05	0	0	-	10	-	15	15
Income generation activity	Income generation by Rural Craft.	01	5		07-12/08/19	-	10	0	0	-	10	-	20	20



Women & Child Care	Community nutrition & health education to Adolescent girls	01	5		12-21/09/19	-	05	0	0	-	10	-	15	15
	<b>Oct.,2019 to Dec.,2019</b>													
Others	Mushroom Production and value added products of mushroom	01	5		02-04/10/19	-	05	0	0	-	10	-	15	15
Design and development of low cost diet	Preparation of low cost balance diet for pregnant women	01	5		05-07/11/19	-	05	0	0	-	10	-	15	15
Women and child care	Nutrition and health education for an adolescent girl	01	5		11-12/12/19	-	05	0	0	-	10	-	15	15
	<b>Jan.,2020 to March,2020</b>		5											
Value addition	Preservation of fruits and vegetables	01	5		14-17/01/20	-	05	0	0	-	10	-	15	15
Rural craft	Income generation by rural craft	01	5		11-14/02/20	-	05	0	0	-	10	-	15	15
Value addition	Preparation of different nutritional bakery products	01	5		11-13/03/20	-	05	0	0	-	10	-	15	15
	<b>Total</b>		<b>12</b>	<b>54</b>		<b>0</b>	<b>70</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>120</b>	<b>0</b>	<b>190</b>	<b>190</b>

	<b>Discipline: Horticulture</b>													
	<b>April, 2019 to June, 2019</b>													
Protected cultivation	Techniques of greenhouse cultivation of important vegetables	1	5		16-16/05/19	10	2	0	0	15	3	25	5	30



<b>Protective cultivation</b>	Protective cultivation of Capsicum	1	5		05-07/02/20	4	4	0	0	18	4	22	8	30
	<b>Total</b>	<b>7</b>				<b>43</b>	<b>18</b>	<b>0</b>	<b>0</b>	<b>126</b>	<b>29</b>	<b>163</b>	<b>47</b>	<b>210</b>
	<b>Discipline: Soil and Water Engineering</b>													
	<b>April, 2019 to June, 2019</b>													
Repair and maintenance of farm machinery and implements	Regular and periodical maintenance of farm implements and machinery	1	5		14-16/05/19	10	1	0	0	15	4	25	5	30
Small Scale processing	Operation and maintenance of rice and dhal mills	1	5		13-15/06/19	10	1	0	0	15	4	25	5	30
	<b>July, 2019 to September, 2019</b>		5											
Post harvest technology	Cleaning and Drying unit operations of cereal crops	1	5		07-09/08/19	10	5	0	0	10	5	20	10	30
Repair and maintenance of farm machinery and implements	Role, classification and use of different Farm tools, implements and machineries in agriculture	1	5		11-13/09/19	10	5	0	0	10	5	20	10	30
	<b>Oct., 2019 to Dec., 2019</b>													
Dairying	Selection and types of poultry houses. Site selection and design of Farmstead	1	5		15-17/10/19	10	5	0	0	10	5	20	10	30
Post	Storage of agricultural	1	5		12-14/11/19	10	5	0	0	10	5	20	10	30

harvest technology	produce and packaging.													
Dairying	Milk processing and preservation of its products	1	5		15-17/12/19	10	5	0	0	10	5	20	10	30
	<b>Jan.,2020 to March,2020</b>													
Post harvest technology	Unit operations in processing of cereals, vegetables and milk	1	5		08-10/01/20	10	2	0	0	13	5	23	7	30
Small Scale processing	Operation and maintenance of rice and dhal mills	1	5		11-13/02/20	8	4	0	0	16	2	24	6	30
Repair and maintenance of farm machinery and implements	Role, classification and use of different Farm tools, implements and machineries in agriculture	1	5		10-12/03/20	8	4	0	0	16	2	24	6	30
	<b>Total</b>	<b>12</b>				<b>116</b>	<b>43</b>	<b>0</b>	<b>0</b>	<b>150</b>	<b>51</b>	<b>266</b>	<b>94</b>	<b>360</b>
	<b>Grand Total</b>	<b>43</b>	<b>147</b>			<b>260</b>	<b>172</b>	<b>0</b>	<b>0</b>	<b>431</b>	<b>265</b>	<b>683</b>	<b>437</b>	<b>1120</b>

### 1. Training Programme to be organized

#### C. Extension Functionaries :

Thematic area	Title	No of courses	Duration		No of participants								Grand Total	
					SC		ST		Others		Total			
					M	F	M	F	M	F	M	F		
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>		<b>5</b>	<b>6</b>			<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	
	<b>Discipline : Agronomy</b>													
	<b>April,2019 to June,2019</b>													
IFS	Different IFS model for	1	1		29/05/19	7	4	0	0	15	4	22	8	30







Rejuvenation of old orchards	Time and Techniques of Rejuvenation in Mango and Litchi.	1	1		22/11/19	8	3	0	0	18	1	26	4	30
	<b>Jan.,2019 to March,2019</b>													
Protective cultivation technology	Protective cultivation technique of high value vegetable crops.	1	1		18/01/20	8	3	0	0	18	1	26	4	30
	Protective cultivation technique of high value flowers.	1	1		20/02/20	4	2	0	0	20	4	24	6	30
Seed production	Scope and importance of seed production of important vegetables	1	1		10/03/20	4	2	0	0	20	4	24	6	30
	<b>Total</b>	<b>7</b>	<b>7</b>			<b>48</b>	<b>19</b>	<b>0</b>	<b>0</b>	<b>130</b>	<b>13</b>	<b>178</b>	<b>32</b>	<b>210</b>

	<b>Discipline : Soil and Water Engineering</b>													
	<b>April,2019 to June,2019</b>													
Care and Maintenance of Farm Equipments and Machineries	Care & Maintenance of Tillage implements and Machines	1	1		22/05/19	8	2	14	0	0	6	22	8	30
	<b>July, 2019 to September 2019</b>													
Care and Maintenance of Farm	Care & Maintenance of Sowing equipments and machines	1	1		10/09/19	8	2	14	0	0	6	22	8	30



Equipments and Machineries														
	<b>Oct.,2019 to Dec.,2019</b>													
Care and Maintenance of Farm Equipments and Machineries	Care & Maintenance of Tillage ,Sowing and Harvesting equipments and machines	1	2		22/11/19	8	2	14	0	0	6	22	8	30
	<b>Jan.,2019 to March,2019</b>													
Care and Maintenance of Farm Equipments and Machineries	Care & Maintenance of Tillage ,Sowing , Interculture and Harvesting equipment's and machines	1	2		28/01/20	8	2	14	0	0	6	22	8	30
	<b>Total</b>	<b>4</b>	<b>6</b>			<b>32</b>	<b>8</b>	<b>56</b>			<b>24</b>	<b>88</b>	<b>32</b>	<b>120</b>
	<b>Grand Total</b>	<b>27</b>	<b>31</b>			<b>181</b>	<b>108</b>	<b>374</b>			<b>107</b>	<b>555</b>	<b>175</b>	<b>770</b>

#### D. Skill Development Training Programme under PMKVY

Sl. No.	Job Role	No. of Participants	Duration (hr)
1.	Mushroom Grower	20	200
2.	Organic Grower	20	200
3.	Micro Irrigation Technician	20	200
4.	Bamboo Grower	20	200

5.	Soil Sample collector	20	145
	<b>Total</b>	<b>100</b>	<b>945</b>

## 2. Proposed On Farm Trial (OFT) for the Year, 2019-20

### OFT: 01, Discipline: Agronomy

1	Title of On Farm Trial	Effects of Split application of Potassium fertilizer on growth and yield of Rice
2	Problem Diagnose	Low productivity of Rice
3	Details of Technologies selected for assessment/refinement	Farmer practice: 100 % dose of Potassium used as Basal application. TO-I :50 % Basal application + 50 % at tillering stage TO-II : 50 % Basal application + 25 % at tillering stage +25 % at panicle initiation stage TO-III: 50 % Basal application + 25 % at tillering stage +25 % at milking stage
4	Source of Technology	RPCAU, Pusa
5	Replication	10
6	Production System & Thematic Area	Nutrient Management
7	Performance of Technology with performance indicator	To enhance availability of potassium during crop growth in Rice  Indicators:  i. No. of plants per meter square. ii. No. of panicles. iii. Test weight.
8	Constraints identified and feedback for research	Newly started.
9	Process of farmers participation and their reaction	i. Field visit ii. Face to face conversation.

**OFT: 02, Discipline: Agronomy**

1	<b>Title of On Farm Trial</b>	Effect of Boron on yield attributes and yield of wheat
2	<b>Problem Diagnose</b>	Non setting of Grains
3	<b>Details of Technologies selected for assessment/refinement</b>	Farmer practice: No spray of Boron
		TO- I :Foliar application of Boran @ 0.25 % at Panicle initiation stage
		TO-II : Foliar application of Boran @ 0.50 % at Panicle initiation stage
4	<b>Source of Technology</b>	<b>RPCAU, Pusa</b>
5	<b>Replication</b>	10
6	<b>Production System &amp; Thematic Area</b>	Nutrient Management
7	<b>Performance of Technology with performance indicator</b>	To understand effects of boron on crop growth parameters and yield of wheat crop.  Indicators:  iv. No. of plants per meter square. v. Yield per hectare.
8	<b>Constraints identified and feedback for research</b>	Newly started.
9	<b>Process of farmers participation and their reaction</b>	iii. Field visit iv. Face to face conversation.

**OFT-3, Discipline: Plant Protection**

1	Title	Management of False Smut disease of Rice caused by <i>Ustilaginoideavirens</i> .
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2	Problem Diagnose	False smut is an important devastating post flowering disease of Rice causing yield losses ranges from 1 to 10 %.
3	Technologies selected for assessment/refinement	Farmer's practice :One Spray of Carbendazim 50% @1g./L. water
		<b>TO-I</b> : Two sprays of Azoxystrobin 18.2% + Difenconazole 11.4% @ 1ml./L. water ( 1st spray at boot leaf stage and 2nd spray at 20 days after 1st spray)
		<b>TO-II</b> : Two sprays of Propiconazole 25 % EC @1ml./L. water ( 1st spray at boot leaf stage and 2nd spray at 20 days after 1st spray)
4	Source of Technology	UAS,Dharwad
5	Replication	10
6	Production System & Thematic Area	IDM
7	Performance of Technology with performance indicator	<ul style="list-style-type: none"> <li>i. Percent infected tillers.</li> <li>ii. Percent infected grain.</li> <li>iii. Disease severity.</li> <li>iv. Yield Q/ha., B:C ratio</li> </ul>
8	Constraints identified and feedback for research	New OFT
9	Process of farmers participation and their reaction	<ul style="list-style-type: none"> <li>i. Field visit</li> <li>ii. Face to face conversation.</li> </ul>

**OFT -04, Discipline: Plant Protection**

1.	Title	Management of <i>Alternaria</i> Blight disease of Rapeseed Mustard.
2	Problem Diagnose	Low yield of Mustard due to high disease pressure of <i>Alternaria</i> blight.
3	Details of Technologies selected for assessment/refinement	Farmer's Practice: One spray of Carbendazim 50% WP @ 1g./L. water <b>TO-I:</b> 1st spray of Mancozeb 75 WP @ 2.0 g/L of water just after appearance of the disease + 2nd spray at 15 days after 1 <sup>st</sup> spray with Difenconazole 25EC @ 0.5 g/L <b>TO-II :</b> 1st foliar spray by Mancozeb 75WP @ 2 g/L water at 35 DAS and 2nd spray with Propiconazole @ 1 ml/L water at 45 DAS.
4	Source of Technology	RPCAU, Pusa
5	Replication	10
6	Production System & Thematic Area	IDM
7	Performance of Technology with performance indicator	i. Disease intensity on leaves. ii. Disease intensity on Pod. iii. Yield q/h. iv. B:C ratio.
8	Constraints identified and feedback for research	New OFT
9	Process of farmers participation and their reaction	i. Field visit ii. Face to face conversation.

**OFT: 05****Discipline:Community Science**

1.	Title.	Effect of complimentary food on the nutritional status of 6-12 months old children.
2.	Problem Diagnose.	Lack of knowledge about complimentary food, stage of weaning which results in poor health status of infants.
3.	Details of technology selected for assessment.	<b>Farmers Practice:</b> Exclusively breast feeding up to 12 months onward. <b>TO-I :</b> Breast feeding with ordinary home diet. <b>TO-II:</b> Breast feeding with ordinary home diet + weaning mix.
4.	Source of technology.	College of Community Science, RPCAUPusa.
5.	Replication.	10
6.	Production system and thematic area.	Women and child care.
7.	Performance technology with performance indicator.	25-50 g weaning mix will be given to selected children according to their age for the period of 3 months. Weaning mix prepared at KVK with cereals, pulses, groundnut and carrot powder and sugar. Regular observation of height and weight of children will be done. Growth curve will be drawn for each child on growth chart (ICDS).

**OFT: 06****Discipline: Community Science**

1.	Title.	Assessment of Hermeticstorage by using grain pro super bag.
2.	Problem Diagnose.	Lack of access to post harvest storage technology. This

		situation forces small producer to sell their produce at the time of harvest with the disadvantage of low market price.
3.	Details of technology selected for assessment.	Farmers Practice: Storage of Paddy in Gunny bags. <b>TO-I:</b> Storage of Paddy in Polythene bags available in local market + Gunny bag. <b>TO- II :</b> Storage of Paddy in Hermetic bag (Grainprosuperbag) + Gunnybag
4.	Source of technology.	1. Research Article from Indian Rice Research Institute; & 2. College of Agri-Engineering, RPCAU, Pusa.
5.	Replication.	10
6.	Production system and thematic area.	Minimizing loss during storage.
7.	Performance technology with performance indicator.	Moisture content, grain weight, germination potential, % damage grains, Rice recovery, cooking time.



OFT: 7, Horticulture

1	<b>Title of On Farm Trial</b>	Induction of regular and early flowering in Mango through <b><u>Paclobutrazol.</u></b>
2	<b>Problem Diagnose</b>	Irregular bearing in Mango.
3	<b>Details of Technologies selected for assessment/refinement</b>	Farmer's practice : Without use of cultar
		TO-I :Use of cultar @ 20 ml/tree
		TO -II : Use of cultar @ 30 ml/tree(Recommended practice)
		TO-III : Use of cultar @ 40 ml/tree
4	<b>Source of Technology</b>	<b>JAU, Gujarat</b>
5	<b>Replication</b>	05
6	<b>Production System &amp; Thematic Area</b>	Orchard management
7	<b>Performance of Technology with performance indicator</b>	To induce early and profuse flowering in alternate bearing cultivars of Mango.  Indicators:  iv. No. of fruits/plant. v. Advance inflowering (days). vi. Yield/ha.
8	<b>Constraints identified and feedback for research</b>	Newly started.
9	<b>Process of farmers participation and their reaction</b>	v. Field visit vi. Face to face conversation.

OFT-08, Discipline: Horticulture Science

1	<b>Title of On Farm Trial</b>	Effect of stagger planting of <i>Gladiolus</i> for better bloom
2	<b>Problem Diagnose</b>	Lower size of spike & low yield of corms and inferior quality of flowers.
3	<b>Details of Technologies selected for assessment/refinement</b>	Farmer's practice : Planting of <i>Gladiolus</i> on 25 <sup>th</sup> October
		TO-I :: Planting of <i>Gladiolus</i> on 10 <sup>th</sup> October
		TO-II :: Planting of <i>Gladiolus</i> on 30 <sup>th</sup> October
		TO- III :: Planting of <i>Gladiolus</i> on 10 <sup>th</sup> November
4	<b>Source of Technology</b>	RPCAU, Pusa, Samastipur
5	<b>Replication</b>	05
6	<b>Production System &amp; Thematic Area</b>	Floriculture
7	<b>Performance of Technology with performance indicator</b>	To standardize the ideal spacing for gladiolus cultivation in Bihar condition for quality & yield.  vii. Plant height. viii. No. of das taken to spike emergence. ix. No. of flowers/spike. x. Yield of corms.
8	<b>Constraints identified and feedback for research</b>	New OFT
9	<b>Process of farmers participation and their reaction</b>	vii. Field visit viii. Face to face conversation.

**OFT: 09****Discipline: Soil and Water Engineering**

1	Title of On Farm Trial	Performance Assessment of Different Manually Operated Weeders in Pigeon Pea Field
2	Problem Diagnose	Generally weeding operation in Pigeon pea is done by using Khurpi. This technique is time consuming and required huge manpower.
3	Details of Technologies selected for assessment/refinement	Farmer's Practice :Conventional Technique (Khurpi)
		TO-I:RAU Manual Weeder
		TO-II : KVKMadhopur Cycle Hoe
4	Source of Technology	KVK, Madhopur, Dr. RPCAU, Pusa.
5	Replication	7
6	Production System & Thematic Area	Farm Mechanization
7	Performance of Technology with performance indicator	<ul style="list-style-type: none"><li>• Weeding Efficiency (%)</li><li>• Field Capacity(ha/h)</li><li>• Yield (tonnes/ha)</li><li>• Benefit Cost ratio</li></ul>
8	Constraints identified and feedback for research	New OFT
9	Process of farmers participation and their reaction	<ul style="list-style-type: none"><li>ix. Field visit</li><li>x. Face to face conversation.</li></ul>

**OFT: 10****Discipline: Soil and Water Engineering**

1	Title of On Farm Trial	Assessment of various Furrow Irrigation techniques effect on Yield and Water requirement of Potato
2	Problem Diagnose	Conventional furrow irrigation technique is practiced at farmer's level which is inefficient due to wastage of water and thus wastage of money.
3	Details of Technologies selected for assessment	Farmers Practice: Conventional Furrow Irrigation
		<b>T.O.I:</b> Fixed Furrow Irrigation
		<b>T.O.II:</b> Alternate Furrow Irrigation
4	Source of Technology	HAU, Hisar
5	Replication	7
6	Production System & Thematic Area	Irrigation Water Management
7	Performance of Technology with performance indicator	<ul style="list-style-type: none"><li>• Water requirement (mm or cm)</li><li>• Yield (tones/hectare)</li><li>• Cost of Cultivation (B:C ratio)</li></ul>
8	Constraints identified and feedback for research	
9	Process of farmers participation and their reaction	<ul style="list-style-type: none"><li>• Field visit</li><li>• Face to face interaction</li></ul>

### 3. ARYA Project:

Skill training will be imparted to 300 rural youths (male & female) on different aspects and after completion of training successfully, critical inputs will be distributed to start venture.

S.No	Theme	No. of Training	No. of Beneficiaries
1	Mushroom Cultivation	5	150
2	Bee Keeping	3	90
3	Poultry	3	90
4	Fisheries	2	60
5	Goatry	4	120
	<b>Total</b>	<b>17</b>	<b>510</b>

### 4. IBDC Project:

Sl. No.	Particulars	Quantity
1.	Processed Honey	20 quintals
2.	Comb Foundation Sheet	90 kg
3.	Processing of raw honey at centre brought by farmers	10 quintals

**5. Jaggrey Processing Unit:** Production of 50 quintals of value added burfi size gur using non-chemical ingredients is targeted during the financial year 2019-20

Sl. No.	Particular	Quantity
1	Burfi size processed gur	50 quintal

### 6. Spawn Production Unit:-

Sl. No.	Particular	Quantity
1	Mushroom spawn	2 quintal

## 7. Trails to be conducted under KVK- CSISA Collaborative Project.

### A. Season : Kharif,2019

S.No	Name of Trials
1.	Improving rice-wheat cropping system productivity using different crop establishment methods
2.	Comparative performance of rice establishment methods in different ecologies of Bihar & E. UP
3.	Effects of delayed transplanting on the growth and the yield of rice
4.	Impact of age of rice nursery on the growth and yield of transplanted rice
5.	Diversification of rice to increase productivity per unit resource to cope with weak and variable monsoon
6.	Effect of method of sowing (bed vs flat) on the growth and yield of <i>Kharif</i> maize
7.	Developing entrepreneurship on rice nursery marketing
8.	Effect of critical irrigation on the yield of rice
9.	Management of potassium in rice
10.	Performance of conventional till DSR with and without pre-sowing irrigation
11.	Weed management in direct seeded rice dominated <i>Cyperusrotundus</i> based mixed weed flora
12.	Precision nutrient management for rice under EIGP ecologies

### B. Rabi,2019-20

S.No	Name of Trials
1.	Performance of short duration (SDVs) and long duration Varieties(LDVs) under different sowing schedules across ecologies
2.	Assessing the role of additional irrigation during terminal heat stress period during grain filling stage to beat stress and its effect on wheat productivity
3.	Response of wheat to fertilizer P applied only in wheat in rice-wheat rotation
4.	Impact of herbicide application technology on the performance of herbicide in wheat
5.	Boron deficiency induced sterility in wheat and its effect on the yield and yield attributes of wheat
6.	Potential of using pre-seeding herbicide like glyphosate applied immediately before sowing wheat under zero tillage
7.	Quantifying the gains in wheat productivity through zero tillage mediated advance sowing of wheat
8.	Response of nitrogen and phosphorous applied in to timely sown and late sown wheat
9.	Residue management in rice-wheat system

## 8. Front Line Demonstrations

Season	Crop/Enterpr	Technology/input	No of	Area(Ha)
Kharif	Paddy	DSR	50	20
	Paddy	Paddy Transplanter	25	10
	Paddy	Fungicide Antracol	50	20
	Paddy	Pheromone trap	50	20
	Bamboo	Improved Varieties	500	100
Rabi	Wheat	ZT	125	50
	Gladiolus	Arka Gold	10	01
	Onion	Sulphur	10	04
	Potato	ArkaAshoka/ArkaJyoti	10	04
	Lentil	Propiconazole 25% for the management of of Lentil Rust	50	20

## 9. Cluster Front Line Demonstrations:

Season	Crop/ Enterprise	Variety/Inputs/Technology	No of Demo.	Area(ha)
Kharif	Pigeon pea	Rajendra Arhar-1 ( IPM, INM)	50	20.00
Rabi	Lentil	HUL-57 (ZT, IPM, INM)	125	50.00
	Rapeseed	Rajendra Suflam (ZT, IPM, INM)	100	40.00
	Mustard			
Summer	Green Gram	HUM-16 ( ZT, IPM, INM)	125	50.00
	Black gram	IPU-2-43 /PDU- 1 (ZT, IPM, INM)	25	10.00
	Total		435	170.00

## 10. Seed Hub

Season	Crop	Target of seed (Q)
Kharif	Pigeon pea	50.00
Rabi	Lentil	250.00
Summer	Green Gram	50.00
	Black Gram	50.00
	Total	400.00

## 11. Seed Production at KVK Farm

Season	Crop	Area (ha)	Target of seed (Q)
Kharif	Paddy	04.0	100.00
	Pigeon Pea	1.5	20.00
Rabi	Wheat	4.0	150.00
	Lentil	2.0	20.00
	Rapeseed Mustard	1.0	12.00
	Total	12.5	302.00

## 12. Other Extension Activities

Sl. no	Programme	No. of Events	No. of Beneficiaries
1	KisanGoshti	10	1200
2	Field Day	12	700
3	Farmers Fair	2	1000
4	Scientist visit to Farmers field	360	
6	Crop Seminar	2	200
7	TV Talk	-	-
8	Paper Coverage	-	-
9	Exposure Visit	05	100

**Senior Scientist & Head  
KVK, Piprakothi**



