

(April 2018 – March 2019)



PRESENTED IN ANNUAL WORKSHOP Of KVKs of Zone II

HELD AT

OUAT

Bhubaneswar

(26TH- 27TH May 2018)



KRISHI VIGYAN KENDRA, SCADA, ARA, SONE COMMAND AREA DEVELOPMENT AGENCY, SONE BHAWAN, DAROGA PRASAD RAI PATH,

PATNA - 800001

BHOJPUR AT A GLANCE

1. ESTABLISHMENT: 18.12.1972

(Partition of old Shahabad District and formation of Bhojpur and Rohtas)

2.GEOGRAPHICAL LOCATION:

Latitude: $25^{0}15$ 'N to $25^{0}46$ 'N

Longitude: $84^{0}45$ 'E to $85^{0}15$ 'E

Altitude: 195.98 M above MSL

3.GEOGRAPHICAL BOUNDRY:

- North: River Ganga, Saran & Baliyan district
- South: Rohtas and Gaya district
- East: River Sone and Patna district
- West: District Buxar

4.GEOGRAPHICAL AREA:2337.37 (sq km.) or 233729.15 (ha)

5.AGRO-CLIMATIC REGION &ZONE: The district comes under South Bihar Old Alluvial Plains, which has been categorized as Grade III (Sub-humid). The Soil type is heavy to sandy clay.

Rainfall data (m.m.)

Normal	: 959.9 mm
Actual	: 817.92 mm
II. Temperature : Min	n. 6 ⁰ C; Max.40 ⁰ C

III. Relative Humidity: 35 to 95%

6. NO. OF BLOCKS/VILLAGE

(a) No. of Blocks
(b) No. of Village Panchayat
(c) No. of Village-Inhibited
(d) No. of Village-Non-Inhibited
(e) No. of Village Electrified
426

7. (a). <u>POPULATION (AS PER CENSUS):</u>

Sl.No.		Males	Female	Total
1.	Urban	169,535	142,879	312,414
2.	Rural	1,010,076	920,654	1,930,730
	Total	1,179,611	1,063,533	2,243,144

(b) Population density/sq km. : 903

(c) Population below poverty line $:42.5^{0}/_{0}$

(d) PERCENTAGE OF POPULATION W.R.T. VARIOUS PARAMETERS:

Sl. No.	Parameter	Total	Rural	Urban
1.	Literacy rate: Persons	58.96	56.84	71.55
	Male	74.29	73.43	79.55
	Female	41.80	38.50	62.36
2.	Main workers: Persons	21.93	22.07	21.07
	Male	36.78	36.85	36.41
	Female	5.45	5.85	2.87
3.	Marginal workers: Persons	7.22	7.97	2.57
	Male	7.31	7.96	3.43
	Female	7.12	7.98	1.55
4.	Non- workers: Persons	70.85	69.96	76.36
	Male	55.91	55.19	60.16
	Female	87.43	86.16	95.58
5.	SC Population: Persons	15.32	16.22	9.76
	Male	15.38	16.33	9.71
	Female	15.25	16.10	9.81
6.	ST Population: Persons	0.37	0.37	0.39
	Male	0.38	0.38	0.39
	Female	0.36	0.36	0.40

8. CLASSIFICATION OF WORKERS:

Sl. No. DETAILS

Total Cultivators	227049
Small &marginal farmers	221535
Agricultural laborers	259482
Artisans	NA
Workers in household industries	24476
Allied Agro Activities & Other works	144028
Total working Population	655935
⁰ / ₀ of working Population to Total Population	29.15%/0

9.

Size of Land holding	No. of holding	(%)	<u>Area (ha)</u>	(%)
(a) Less than 1 ha.	203840	78.9	67416	35.8
(b) Between 1 and 2 ha	30498	11.8	38531	20.5
(c) Between 2 and 4 ha	18454	7.1	49380	26.2
(d) Between 4 and 10 ha	5324	2.0	31511	16.7
(e) More than 10 ha	88	0.2	1296	00.8
TOTAL	258204		188134	

10. LAND UTILIZATION PATTERN:

(a) Geographical area	:	2, 33,729.15 ha.	
(b) Net cultivable area	:	1, 88,134.00 ha.	
(c) Permanent Fallow land	:	418.00 ha.	
(d) Cultivable Barren land	:	729.00 ha.	
(e) Land temporarily used for non-agriculture purpose	:	925.00 ha.	
(f) Pasture & others	:	288.00 ha.	
(g) Land not suitable for cultivation	:	7221.00 ha.	
(h) Aquatic land	:	4071.00 ha.	
(i) Land used for non-agriculture purpose	:	31943.00 ha.	
(j) Forest area	:	Nil	

11. IRRIGATION SOURCES:

Canal: -Sone Canal Circle, Ara.

Sone Canal Division, Bikramganj

State Tube well - 337 (63 functional)

Private Tube well - 18,901

E.R.P. Set - 09

Lift irrigation - 29

Net Irrigate Area.

Sl. No.	Source	Kharif Area (ha)	Rabi Area (ha)
1.	Canal	72952	29700
2.	Private Tube well	24478	36717
3.	Lift Irrigation	838	153
4.	State Tube well	454	526
5.	Other Sources	1685	1685
	Total	1,00,407(ha)	68,781 (ha)

2.AREA COVERED UNDER DIFFERENT CROPS

Kharif		Rabi		Summer (ha)	
Rice-	1,20,500	Wheat-	1,03,800	Green Gram-	20
Maize-	7,000	Maize-	2,295	Maize-	30
Pulses-	5,580	Pulse-	42,600	Vegetable-	400
Red Gram-	3,500	Gram-	20,500	Onion-	125
Black Gram-	1,000	Pea-	2,500		
Green Gram-	1,080	Others-	4,500		
Oil Seed-	525	Oil seed-	10,140		
Sesame-	215	Rabi/Mustard-	6,100		
Castor-	285	Sunflower-	40		
Sunflower-	25	Vegetable-	2,000		
Vegetable-	750	Potato-	3,525		
Total	1,34,355		1,64,360		575

13.<u>CREDIT SYSTEM:</u>

Lead Bank	Punjab National Bank
P.N.B.	22
S.B.I.	08
Allahabad Bank	01
C.B.I	01
Canara Bank	03
Bank of India	02
Union Bank	03
U.C.O. Bank	02
Indian Bank	02
United Bank	01
Bank of Baroda	02
Syndicate Bank	01
Madhya Bihar Gramin Bank	53
Central Co-operative Bank	15
Land Development Bank	05
Total	122

14.AGRIL. MACHINES:

Tractor	-	1623
Diesel Pump Set	-	15057
Harvester	-	05
Electric Pump Set	-	1870
Harrows	-	360
Winnower	-	25
Z T Machines		2434
Power Tiller		60
Sprayer & duster		676
Ripper		6
Rotavetor		25
Thrasher		425

15. AGRICULTURE SUPPORT / FACILITIES

- (a) Seed / Fertilizer / Pesticides depots: 103
- (b) Rural Markets / Mandis: 91
- (c) Rural God owns: 06
- (d) Cold Storage: 3 capacity 10000 MT.

16. ANIMAL HUSBANDRY (AS PER 2005 CENSUS):

Dairy Animals	Total	Milking
Cow	157479	4279
Buffalo	206945	66068
Plough Animals	87852	
Sheep + Goat + Pigs	43698 + 134142 + 17097	
Poultry	215459	

17. PREDOMINANT ECONOMIC ACTIVITIES OF THE DISTRICT

Agriculture is the predominant economic activity in the district. Other important economic activities are dairy, horticulture, transport, housing, business and other activities in the service sector. The industrial activity in the district is in problem state. Most of the industrial units have become sick and good entrepreneurs and businessmen are shifting to other states.

18. <u>MAJOR FOOD CROPS / COMMERCIAL AND PLANTATION / HORTICULTURE</u> <u>CROPS</u>

1. The major food crops of the district are paddy and wheat. Pulses, oilseeds and maize are also important crops

2. However, potato, onion and vegetable have emerged as major commercial horticultural crops .

- 3. Medicinal and aromatic plants have also started taking roots on a small scale, in the. district
- 4. Mushrooms cultivation is in a nascent stage.

19. SPECIAL FEATURE OF THE DISTRICT:

- Bhojpur is considered as the rice-bowl in the state and Rice- Mill is a traditional industry
- Land is fertile and the farmers are comparatively progressive.
- Climate of the district is conducive for a wide ran agricultural / horticultural crops.
- Medicinal and aromatic plants are already being cultivated in the district.
- There are developed vegetable clusters.
- Dairy infrastructure is well developed.
- The level of farm mechanization is better than many other districts.
- Ara, the headquarter town of the district, is well connected both by rail and road.
- It is an adjoining district of the state capital.
- All the necessary inputs required for Farm as well as Non-Farm activities are available in the district or those can be easily obtained from the adjoining district at competitive price.
- The district is replete with potential for development in Primary, Secondary as well as in Tertiary sectors.

20. OTHER FACTORS AFFECTING THE DISTRICT'S RURAL ECONOMY:

POSITIVE FACTORS

:

- District headquarter is well linked with other towns and cities by road and rail.
- There is a vast network of canals in the district.
- Two major rivers flow through the district providing a good source of river in fishery and an opportunity to do the sand business.
- A new power grid was commissioned during the year 2004-05 with which the power position in the district is improving.
- The district had been identified under the Rastriya Sam VikasYojana and some of the infrastructural bottlenecks, in terms of rural connectivity, energisationetc, had been bridged.

NEGATIVES FACTORS

- Bhojpur is a drought prone district.
- The rural connectivity and rural infrastructure is not very strong.
- A significant portion of land is rain fed.
- The condition of electric supply is not onneed based.

THRUST AREAS

Priority Thrust Areas identified through PRA survey & other methods.

1.	Seed Production Programme with special focus on heat & drought
	tolerant cultivars.
2.	Resource Conservation Technology for better water management
	under changing climate
3.	Income generation through High tech Horticulture
4.	Adoption of INM and IPM for sustainable agriculture.
5.	Income generation for Farm Women through Apiculture, Poultry,
	Mushroom & Value addition
6.	Technological awareness for SHG and Kishan Club & Growers
	Association

Action Plan- 2018-19

1. Name of the KVK: KVK ,SCADA, Bhojpur, Ara

2. Name of host Organization: Sone Command Area Development Agency,

Patna

3. Training Programme to be organized- (April 2018 to March 2019)

ABSTRACT OF TRAINING PROGRAMMES TO BECONDUCTED

(April 2018 – March 2019)

Sl.	Discipline	No. of	Duration	Total	No	o. of	Grand
No.		Courses	(Days)	Trainee	Partic	cipants	Total
				Days	Men	Women	
А	For Practicing Farmers	230	397	12300	2880	280	4600
В	For Rural Youths	19	183	6060	260	60	380
С	Extension Functionaries	24	46	960	460	-	480
	Grand Total (A+B+C)	273	626	19320	3600	340	5460

SUMMARY OF TRAINING PROGRAMMES TO BE CONDUCTED (April, 2018-March 2019)

Sl.	Discipline	No. of	Duration	Total Trainee	No. of	f	Grand
No.		Courses	(Days)	Days	Partic	ipants	Total
					Men	Women	
A.	FOR PRACTICING FARMER	RS					
1.	Crop Production						
a)	Weed Management	6	12	240	120	-	120
b)	Resource Conservation	4	6	160	60	-	80
	Technologies						
c)	Cropping System	3	4	120	40	-	60
d)	Crop diversification	10	26	560	180	-	200
e)	Water management	11	21	560	180		220
f)	Seed production	12	38	960	200	-	240
g)	Nursery management	3	4	120	40	-	60
h)	Fodder production	2	4	80	40	-	40
i)	Production of organic inputs	4	9	360	40	-	80
	Total						
2.	Vegetable Production						
a)	Production of low volume and	12	24	480	240	-	240
	high value Crops						
b)	Nursery raising	6	12	240	120	-	120
c)	Seed Production	2	3	120	20	-	40
d)	Weed Control	4	8	160	80	-	80
	Total						
	Fruit Production						
a)	Layout and management of	4	10	400	40	-	80

	Orchards						
b)	Cultivation of Fruits	5	10	200	100	-	100
c)	Rejuvenation of old orchards						
,	Total						
	Ornamental plants						
	Plantation crops						
	Tuber crops						
	Medicinal & Aromatic Plants						
	P.H.T.& Value Addition.						
	Total						
	Soil Health & Fertility						
	Management						
	Soil Health & Fertility	7	14	280	140	-	140
	Management						
b)	Integrated Nutrient	4	8	160	80	-	80
	Management						
c)	Production and use of Bio-	4	4	160	40	-	80
	fertilizer						
d)	Micro –nutrient Deficiency	6	8	240	80	-	120
e)	Soil & Water Testing	6	2	240	20	-	160
f)	Land Leveling	2	4	80	40	-	40
	Total						
3.	Agriculture Extension						
a)	Formation of Farm Science	24	19	1140	160	-	480
	Club						
4.	Home Science						
a)	Household kitchen gardening	2	5	200	-	20	40
b)	Designing and development of low cost diet	1	2	40	-	20	20
c)	Gender mainstreaming through SHGs	2	2	80	-	20	40
d)	Storage loss techniques	9	4	360	-	40	180
e)	Value addition	3	5	160	20	20	60
f)	Rural Crafts	3	9	320	-	40	60
g)	Income generation	3	12	240	20	40	60
h)	Drudgery Reduction	4	4	160	-	40	80
i)	Women & child care	5	7	240	20	40	100
	Total						
5.	Agriculture Engineering						
a)	Use of Z.T. in different	6	15	600	60	-	120
	situation						
6.	Plant Protection						
a)	Integrated Pest Management	13	20	640	180	-	280
b)	Integrated Disease	12	14	480	140	-	240
	Management						
c)	Seed Treatment	4	8	160	80	-	80
_	Total						-
7.	Animal Husbandry						
<u> </u>	&Veterinary		10	202			
<u>a)</u>	Dairy Management	4	10	800	20	-	80
<u>b)</u>	Disease Management in Cattle						
c)	Disease Management in Goat						

d)	Disease Management in Poultry	2	2	80	20	-	40
e)	Goatery Management						
f)	Feed Management	2	2	80	20	-	40
g)	Poultry Management	8	12	320	120	-	160
	Total						
	Grand Total – A	230	397	12300	2880	280	4600
В.	FOR RURAL YOUTHS		1				
1	Seed Production	4	20	400	80	_	80
2	Crop Diversification	2	10	200	40	-	40
3	Integrated Farming	1	5	100	20	-	20
4	Commercial Fruit cultivation	3	17	340	60	-	60
5	Nursery management of Hort. Crop						
6	Small Scale processing	2	6	120	_	40	40
7	Tailoring & Stitching	2	90	3600	_	20	40
8	Rural Crafts		70	2000		20	10
9	Dairy management	2	15	600	20	_	40
10	Poultry management	2	15	600	20	_	40
11	Agri. Extension	1	5	100	20	_	40
	Grand Total – B	19	183	6060	260	60	380
C.	EXTENSION FUNCTIONARIES						
1	Productivity Enhancement in field crop under stress condition	7	14	280	140	-	140
2	Protected cultivation Technique	1	2	40	20	_	20
3	IPM	4	8	160	80	-	80
4	Fruit Production	1	2	40	20	-	20
5	Aromatic Cultivation	1	2	40	20	-	20
6	Information Natworking						
7	N e t w o r k i n g Use of ZT for Moisture conservation (RCT)	5	10	200	100	-	100
8	Formation of SHG	1	2	40	20	-	20
9	House hold Kitchen Garden	1	2	40	20	_	20
10	Storage loss technique	1	2	40	20	-	20
11	Drudgery reduction						
12	Seed Production	2	2	80	20	-	40
13	Dairy management						-
14	Poultry management						
11	GRAND Total- C	24	46	960	460		480
		47	UTU	200	TUU	-	
	GRAND TOTAL – (A+ B+ C)	273	626	19320	3600	340	5460

A. Farmers and Farmwomen

Thematic Area*	Title	Total No Of Course	Durat ion	Total Trainee Days	No. of	f part	icipants		Total		G.T
					SC	S T	Othe rs	М	F	Т	
Weed Management	Weed control in rice nursery	1	2	40	5	-	15	20	-	20	20
	Weed control in DSR	1	2	40	5	-	15	20	-	20	20
	Weed control in	1	2	40	5	-	15	20	-	20	20
	transplanted rice										
	Phalaris minor control in wheat.	1	2	40	5	-	15	20	-	20	20
	Weed control in Lentil	1	2	40	5	-	15	20		20	20
	Weed control in Gram	1	2	40	5	-	15	20		20	20
	Total	6	12	240	30		90	120		120	120
Resource CT	Direct seeding of rice with ZT to reduce environmental stress	1	2	40	5	-	15	20		20	20
	Direct seeding of wheat	2	2	80	5	-	15	20		20	40
	with ZT for minimizing										
	moisture loss.										
	MTUPR technique for overcoming negative impact of changing climatic condition.	1	2	40	5	-	15	20		20	20
	Total	4	6	160	15		45	60		60	80
Cropping System	Inter cropping in Sugar cane with Brinjal/Green Gram	1	2	40	5	-	15	20		20	20
	Cultivation of Summer Green gram in Summer Fallow	2	2	80	5	-	15	20		20	40
	Total	3	4	120	10		30	40		40	60
Crop Diversification	Commercial production of Scented rice.	1	5	100	5	-	15	20		20	20
	Scientific cultivation of Green gram	1	2	40	5	-	15	20		20	20
	Scientific cultivation of Hybrid maize.	1	7	140	5	-	15	20		20	20
	Scientific cultivation of Broccoli.	1	2	40	5	-	15	20		20	20
	Scientific cultivation of stress tolerant Maize	1	2	40	5	-	15	20		20	20
	Cultivation of Pearl millet in drought pronned area	1	2	40	5	-	15	20		20	20
	Cultivation of short duration Paddy to mitigate climate change	2	2	80	5	-	15	20		20	40
	Resource management with Paddy-Toria-Wheat cropping system	1	2	40	5	-	15	20		20	20
	Cultivation of Rajmah in Wheat fields	1	2	40	5	-	15	20		20	20
	Total	10	26	560	45		135	180		180	200
Water Management	Water management in paddy nursery.	1	2	40	5	-	15	20		20	20
	Water management in DSR paddy.	2	2	80	5	-	15	20		20	40
	Use of sprinkler for better water use efficiency	2	5	200	5	-	15	20		20	40

	Use of Solar Pump for	1	2	40	5	-	15	20		20	20
	pollution free irrigation system										
	Use of drips in Orchards for better water use efficiency	1	2	40	5	-	15	20		20	20
	Application of Sprinkler irrigation system in vegetable cultivation	1	2	40	5	-	15	20		20	20
	Application of Drip irrigation system in Tomato, Brinjal & Chili cultivation	1	2	40	5	-	15	20		20	20
	Mulching in vegetable cultivation to conserve soil moisture	1	2	40	5	-	15	20		20	20
	Poly mulching in vegetable cultivation to conserve moisture in the field.	1	2	40	5	-	15	20		20	20
	Total	11	21	560	45		135	180		180	220
Seed Production	Seed production of Medium duration Rice	1	5	100	5	-	15	20		20	20
	Seed production of Lentil	2	5	200	5	-	15	20		20	40
	Seed production of Gram	2	5	200	5	-	15	20		20	40
	Seed production of timely sown Wheat	1	5	100	5	-	15	20		20	20
	Seed production of late sown Wheat	1	5	100	5	-	15	20		20	20
	Seed production of Mustard	1	2	40	5	-	15	20		20	20
	Technique of certified seed production of Wheat.	1	5	100	5	-	15	20		20	20
	Training on Handling of quality seed (Threshing, Packaging & storing).	1	2	40	5	-	15	20		20	20
	Seed Production of Field Pea	1	2	40	5	-	15	20		20	20
	Farmer's rights under seed Bill.	1	2	40	5	-	15	20		20	20
	Total	12	38	960	50		150	200		200	240
Nursery Management	Preparation of raised bed nursery of Rice.	2	2	80	5	-	15	20		20	40
	Preparation of Rice nursery .for SRI	1	2	40	5	-	15	20		20	20
	Total	3	4	120	10	-	30	40	-	40	60
Fodder production	Fodder production of Bar seem	1	2	40	5	-	15	20		20	20
	Fodder production of Sudan Grass	1	2	40	5	-	15	20		20	20
	Total	2	4	80	10	-	30	40	-	40	40
Production of Organic Input	Brown Manuring in transplanted Rice	2	2	80	5	-	15	20	-	20	40
	Recycling of Agri. Waste as Vermi compost.	2	7	280	5	-	15	20		20	40
	Total	4	9	360	10		30	40		40	80
Production of low Volume & high value crops	Scientific cultivation of early Kharif Cucurbits	1	2	40	5	-	15	20	-	20	20

					-					
	Scientific package of	1	2	40	5	-	15	20	20	20
	practices of Hybrid Brinjal Scientific cultivation of	1	2	40	5	-	15	20	20	20
	early Kharif Okra	1	Z	40	3	-	15	20	20	20
	Scientific cultivation of	1	2	40	5	-	15	20	20	20
	Chili				_		_	_	_	-
	Scientific cultivation of	1	2	40	5	-	15	20	20	20
	Cowpea									
	Scientific cultivation of	1	2	40	5	-	15	20	20	20
	early Cauliflower	1	2	40	~		1.7	20	20	20
	Scientific cultivation of early Tomato	1	2	40	5	-	15	20	20	20
	Scientific cultivation of	1	2	40	5	-	15	20	20	20
	early Potato	1	2	40	5	-	15	20	20	20
	Scientific package and	1	2	40	5	-	15	20	20	20
	practices of Vegetable Pea									
	Scientific cultivation of	1	2	40	5	-	15	20	20	20
	Cabbage									
	Scientific cultivation of	1	2	40	5	-	15	20	20	20
	early Summer Okra									
	Scientific cultivation of	1	2	40	5	-	15	20	20	20
	early Summer Cucurbits	10	24	400	(0)		100	240	240	240
Numerowy	Total Raising healthy seedling of	<u>12</u> 1	24	480 40	60 5	_	180	240 20	240 20	240 20
Nursery Raising	Kharif Brinjal	1	Z	40	3	-	15	20	20	20
Raising	Raising healthy seedling of	1	2	40	5	-	15	20	20	20
	Chili	1	2	10	5		10	20	20	20
	Raising healthy seedling of	1	2	40	5	-	15	20	20	20
	early Cauliflower									
	Scientific nursery	1	2	40	5	-	15	20	20	20
	management for Onion									
	Raising healthy seedling of	1	2	40	5	-	15	20	20	20
	early Tomato	1		10	~		15	20	20	20
	Raising healthy seedling of	1	2	40	5	-	15	20	20	20
	early Cabbage Total	6	12	240	30		90	120	120	120
Seed	Scientific seed production	2	3	120	5	_	15	20	20	40
Production	techniques of Potato	2	5	120	5	-	15	20	20	40
Troduction	Total	2	3	120	5	-	15	20	20	40
Weed Control	Weed Control by	1	2	40	5	_	15	20	20	20
	chemicals in Okra	-			-					
	Control of Parthenium in	1	2	40	5	-	15	20	20	20
	Vegetable crops									
								20	20	20
	Chemical Weed Control	1	2	40	5	-	15	20		20
	Chemical Weed Control in Potato					-				
	Chemical Weed Control in Potato Chemical Weed Control	1	2 2	40 40	5 5	-	15 15	20	20	20
	Chemical Weed Control in Potato Chemical Weed Control in Onion	1	2	40	5		15	20		20
Levent and	Chemical Weed Control in Potato Chemical Weed Control in Onion Total	1	2 8	40 160	5 20	-	15 60	20 80	80	20 80
Layout and	Chemical Weed Control in Potato Chemical Weed Control in Onion Total Scientific lay out for	1	2	40	5		15	20		20
management	Chemical Weed Control in Potato Chemical Weed Control in Onion Total Scientific lay out for developing new Mango	1	2 8	40 160	5 20	-	15 60	20 80	80	20 80
	Chemical Weed Control in Potato Chemical Weed Control in Onion Total Scientific lay out for developing new Mango orchard	1 4 2	2 8 5	40 160 200	5 20 5	-	15 60 15	20 80 20	80 20	20 80 40
management	Chemical Weed Control in Potato Chemical Weed Control in Onion Total Scientific lay out for developing new Mango orchard Scientific lay out for	1	2 8	40 160	5 20	-	15 60	20 80	80	20 80
management	Chemical Weed Control in Potato Chemical Weed Control in Onion Total Scientific lay out for developing new Mango orchard	1 4 2	2 8 5	40 160 200	5 20 5	-	15 60 15	20 80 20	80 20	20 80 40
management of Orchards	Chemical Weed Control in Potato Chemical Weed Control in Onion Total Scientific lay out for developing new Mango orchard Scientific lay out for developing new Guava orchard Total	1 4 2 2 4	2 8 5	40 160 200 200 400	5 20 5 5 5 10	-	15 60 15 15 30	20 80 20 20 40	80 20 20 20 40	20 80 40 40 80
management of Orchards Cultivation of	Chemical Weed Control in Potato Chemical Weed Control in Onion Total Scientific lay out for developing new Mango orchard Scientific lay out for developing new Guava orchard Total Band placement of	1 4 2 2	2 8 5 5	40 160 200 200	5 20 5 5	-	15 60 15 15	20 80 20 20	80 20 20	20 80 40 40
management of Orchards	Chemical Weed Control in Potato Chemical Weed Control in Onion Total Scientific lay out for developing new Mango orchard Scientific lay out for developing new Guava orchard Total Band placement of manures & fertilizer in old	1 4 2 2 4	2 8 5 5 10	40 160 200 200 400	5 20 5 5 5 10	-	15 60 15 15 30	20 80 20 20 40	80 20 20 20 40	20 80 40 40 80
management of Orchards Cultivation of	Chemical Weed Control in Potato Chemical Weed Control in Onion Total Scientific lay out for developing new Mango orchard Scientific lay out for developing new Guava orchard Total Band placement of manures & fertilizer in old Mango orchard	1 4 2 2 4 1	2 8 5 5 10 2	40 160 200 200 400 40	5 20 5 5 5 10 5	-	15 60 15 15 30 15	20 80 20 20 40 20	80 20 20 20 40 20	20 80 40 40 80 20
management of Orchards Cultivation of	Chemical Weed Control in Potato Chemical Weed Control in Onion Total Scientific lay out for developing new Mango orchard Scientific lay out for developing new Guava orchard Total Band placement of manures & fertilizer in old Mango orchard Scientific package &	1 4 2 2 4	2 8 5 5 10	40 160 200 200 400	5 20 5 5 5 10	-	15 60 15 15 30	20 80 20 20 40	80 20 20 20 40	20 80 40 40 80
management of Orchards Cultivation of	Chemical Weed Control in Potato Chemical Weed Control in Onion Total Scientific lay out for developing new Mango orchard Scientific lay out for developing new Guava orchard Total Band placement of manures & fertilizer in old Mango orchard Scientific package & practices for Mango	1 4 2 2 4 1	2 8 5 5 10 2	40 160 200 200 400 40	5 20 5 5 5 10 5	-	15 60 15 15 30 15	20 80 20 20 40 20	80 20 20 20 40 20	20 80 40 40 80 20
management of Orchards Cultivation of	Chemical Weed Control in Potato Chemical Weed Control in Onion Total Scientific lay out for developing new Mango orchard Scientific lay out for developing new Guava orchard Total Band placement of manures & fertilizer in old Mango orchard Scientific package &	1 4 2 2 4 1	2 8 5 5 10 2	40 160 200 200 400 40	5 20 5 5 5 10 5	-	15 60 15 15 30 15	20 80 20 20 40 20	80 20 20 20 40 20	20 80 40 40 80 20

	Orchard										
	Cultivation of Jackfruit in dry land area.	1	2	40	5	-	15	20		20	20
	Cultivation of Awla to mitigate the climate change	1	2	40	5	-	15	20		20	20
	Total	5	10	200	25		75	100		100	100
Production	Scientific cultivation of	1	2	40	5	-	15	20		20	20
and Management technology	Marigold										
	Total	1	2	40	5	-	15	20		20	20
Production and Management technology	Scientific Management of Japanese Mint	1	3	60	5	-	15	20		20	20
	Total	1	3	60	5	-	15	20		20	20
Tuber Crops Production and Management technology	Cultivation of early Potato	1	3	60	5	-	15	20		20	20
	Use of organic manure in vegetable cultivation to maintain the moisture level in field.	1	2	40	5	-	15	20		20	20
	Total	2	5	100	10		30	40		40	40
Medicinal & Aromatic Plant Nursery management	Scientific nursery management of Japanese Mint	1	2	40	5	-	15	20		20	20
	Total	1	2	40	5	-	15	20		20	20
Post-harvest technology and value addition	Packaging & grading of Tomato	1	2	40	5	-	15	20		20	20
	Total	1	2	40	5	-	15	20		20	20
Soil Health &Fertility Management	P-management in Red Gram	1	2	40	5	-	15	20		20	20
U	N-management in Rice nursery.	1	2	40	5	-	15	20		20	20
	N- Management in transplanted Paddy	1	2	40	5	-	15	20		20	20
	Foliar application of water soluble fertilizer to reduce plant stress	1	2	40	5	-	15	20		20	20
	Foliar application of Potash to reduce the ET in standing Paddy crop	1	2	40	5	-	15	20		20	20
	Foliar application of NPK in Wheat water soluble fertilizer	1	2	40	5	-	15	20		20	20
	Summer ploughing & Green mannuring to enhance moisture level in field	1	2	40	5	-	15	20		20	20
	Total-	7	14	280	35		105	140		140	140
Integrated Nutrient Management	Advantages of Vermi- compost in Rabi vegetable.	1	2	40	5	-	15	20		20	20
	Importance of Sulpher& Boron in Onion	1	2	40	5	-	15	20		20	20

	Nutrient management in	1	2	40	5	-	15	20		20	20
	Okra Foliar spray of water	1	2	40	5	-	15	20		20	20
	soluble fertilizer to reduce plant stress										
	Total	4	8	160	20	-	60	80	-	80	80
Production and use of Organic input	Use of Bio-fertilizer in Paddy	2	2	80	5	-	15	20		20	40
	Use of Bio-fertilizer in Wheat.	2	2	80	5	-	15	20		20	40
	Total	4	4	160	10	-	30	40	-	40	80
Micro nutrient deficiency in Crop	Role of Zn-nutrients in scented Rice	1	2	40	5	-	15	20		20	20
	Zn & Boron application in Paddy	2	2	80	5	-	15	20		20	40
	Role of micro nutrients in Wheat	2	2	80	5	-	15	20		20	40
	Role of S & nutrients in Pulses	1	2	40	5	-	15	20		20	20
	Total	6	8	240	20	-	60	80	-	80	120
Soil &Water Testing	Techniques of soil sampling	6	2	240	5	-	15	20		20	120
C	Total	6	2	240	5	-	15	20		20	120
Land Leveling	Land leveling and its importance in Kharif crops production.	1	2	40	5	-	15	20		20	20
	Land leveling and its role in crop production.	1	2	40	5	-	15	20		20	20
	Total	2	4	80	10		30	40		40	40
Formation of Farm Science Club	Formation of Farm Science Club to overcome the challenges of changing climate	2	2	80	5	-	15	20		20	40
	Formation of SHGs for Seed Production	3	5	300	5	-	15	20		20	60
	Benefits of RCT through SHGs for stress management	4	2	160	5		15	20		20	80
	Importance of Agri - Equipment banks for stress management	2	2	80	5	-	15	20		20	40
	Role of Solar Power in Agriculture	2	2	80	5	-	15	20		20	40
	Awareness of different Govt. Subsidies' Schemes related to climate change	3	2	120	5	-	15	20		20	60
	Awareness for different kind of soil & seed treatment	4	2	160	5	-	15	20		20	80
	Importance of Soil testing for enhancing Farm Income under climatic change	4	2	160	5	-	15	20		20	80
	Total	24	19	1140	40		120	160		160	480
Household Kitchen Gardening	Development of nutritional garden for semiarid condition.	2	5	200	5	-	15	-	20	20	40
U	Total	2	5	200	5	-	15	-	20	20	40
Designing & Development of low cost	Preparation of low cost balanced diet for mother & children	1	2	40	5	-	15		20	20	20

diet											
	Total	1	2	40	5		15		20	20	20
Gender mainstreaming	For women employment, role of SHG	2	2	80	5	-	15		20	20	40
through SHGs	Total	2	2	80	5		15		20	20	40
Storage loss	Control of godown insect	<u>2</u> 5	2 2	200	5	-	15	-	20	20	100
technique	in cereals storage Techniques of insect free	4	2	160	5		15		20	20	80
	pulses storage					-					
	Total	9	4	360	10		30		40	40	180
Value addition	Grading parameters for better marketing opportunity in vegetable marketing	1	2	40	5	-	15	20		20	20
	Tomato Preservation	2	3	120	5	-	15		20	20	40
	Total	3	5	160	10		30	20	20	40	60
Rural Craft	Candle making	1	2	40	5	-	15		20	20	20
	Tie & dye Batik Painting	2	7	280	5	-	15		20	20	40
	Total	3	9	320	10	-	30	-	40	40	60
Income	Backyard Poultry farming	1	5	100	5	-	15		20	20	20
Generation	a good source of income										
	Mushroom Cultivation	1	5	100	5	-	15		20	20	20
	Drought tolerant cultivars for vegetable production through SHGs	1	2	40	5	-	15	20		20	20
	Total	3	12	240	15		45	20	40	60	60
Drudgery	Drudgery reduction	2	2	80	5	-	15		20	20	40
Drudgery reduction	through chemical in Paddy										
	Drudgery reduction through Weedicide in Vegetable Production	2	2	80	5	-	15		20	20	40
	Total	4	4	160	10	-	30		40	40	80
Women & Child care	Use of pulses & local vegetable in child diet	2	2	80	5	-	15		20	20	40
	Preparation of balanced diet for children & mother	2	3	120	5	-	15		20	20	40
	To minimize body stress in high temperature condition with use of fruit beverage	1	2	40	5	-	15	20		20	20
	Total	5	7	240	15		45	20	40	60	100
Use of Zero Tillage Technology	Use of ZT for DSR in low land	2	5	200	5	-	15	20	-	20	40
	Use of Zero Tillage seed cum fertilizer drill for Lentil and Gram.	2	7	280	5	-	15	20		20	40
	Use of ridge bed seed drill	2	3	120	5	-	15	20		20	40
	for sowing vegetables. Total	6	15	600	15		45	60		60	120
Integrated Pest	Grass hopper Control in	2	3	120	5	_	45 15	20		20	40
Management	Sugar Cane during drought										
	Stem borer control in Scented Rice	1	2	40	5	-	15	20		20	20
	Control of pest in Paddy	2	3	120	5	-	15	20		20	40
	BPH Control in Paddy	2	2	80	5	-	15	20		20	40
	Stem borer control in Maize	1	2	40	5	-	15	20		20	20
	Grasshopper control in Fodder crop during drought condition	1	2	40	5	-	15	20		20	20

	Grand Total A.	230	397	12300	790	-	2370	2880	280	3160	4600
	Total	8	12	320	30		90	120		120	160
	Advantage of Rice-Fish culture	1	2	40	5	-	15	20		20	20
	High density Fish Farming	1	2	40	5	-	15	20		20	20
	Pond management for fish culture	1	2	40	5	-	15	20		20	20
	Housing Management in poultry during Winter season	1	2	40	5	-	15	20		20	20
	Scientific Broiler Farming for better Productivity	2	2	80	5	-	15	20		20	40
Management	Yard Poultry Farming										
Poultry	I otal Improved method of back	2	2	80 80	5	-	15 15	20		20	40 40
management	Animals Total	2	2	80	5	-	15	20		20	40
Feed Management	Milk Production In Milch	Z	2	80	3	-	15	20		20	40
Food	TotalUse of Green Fodder for	2	2 2	80 80	5	-	15 15	20 20		20 20	40
Management in Poultry	different infectious diseases						4-			• •	
Disease	Vaccination of Broiler for	2	2	80	5	-	15	20		20	40
	Total	4	10	800	5	-	15	20		20	80
Management	for hygienic & clean Milk Production	ŗ	10	000	5		15	20		20	00
Dairy	Management of Bovines	4	o 10	800	5	-	15	20	-	20	80
	Total	4	2 8	160	20	-	60	20 80	-	20 80	20 80
	Seed treatment in Potato Seed treatment in Wheat	1	22	40	5	-	15	20 20		20 20	20 20
	Seed treatment in Lentil	1	2	40 40	5	-	15 15	20		20	20
Seed treatments	Seed treatment in Rice	1	2	40	5	-	15	20		20	20
0 1	Total	12	14	480	35		105	140		140	240
	Okra					-					
	blight in Potato YVM disease control in	1	2	40	5		15	20		20	20
	Control of early & late	2	2	80	5	-	15	20		20	40
	Wilt Control in Gram	2	2	80	5	-	15	20		20	40
	Wilt Control in Lentil	2	2	80	5	-	15	20		20	40
	BLB control in Rice	2	2	80	5	-	15	20		20	40
Management	Wilt control in Red gram	2	2	80	5	-	15	20		20	40
Integrated Disease	BLB control in Rice in high humidity condition	1	2	40	5	-	15	20		20	20
	Total	13	20	640	45		135	180		180	280
	Aphid management in mustard	1	2	80	5	-	15	20		20	40
	Gram pod borer Control	2	22	80 80	5 5	-	15 15	20		20 20	40
	~ ~ .		-		-			• •		• •	

B. Rural Youths

Thematic Area*	Title	Total No Of	Dura tion	Total Trainee	ра	No. (rticip	of oants		Total		
		Course		Days	SC	S T	Othe rs	Μ	F	Т	G.T
Seed Production	Seed Production of rice	1	5	100	5	-	15	20		20	20
	Seed Production of Gram	1	5	100	5	-	15	20		20	20
	Seed Production of Lentil	1	5	100	5	-	15	20		20	20

	Seed production of Wheat	1	5	200	5	-	15	20		20	40
	Total	4	20	400	20		60	80		80	80
Crop diversification	Hybrid Tomato Cultivation	1	5	100	5	-	15	20	-	20	20
	Cultivation of Vegetable Pea	1	5	100	5	-	15	20	-	20	20
	Total	2	10	200	10		30	40		40	40
Integrated Farming	Scientific Cultivation techniques of Marigold	1	5	100	5	-	15	20		20	20
	Total	1	5	100	5		15	20		20	20
Commercial Fruit Cultivation	Scientific cultivation practices of Mango	1	5	100	5	-	15	20		20	20
	High density technology in Mango orchard	1	7	140	5	-	15	20	-	20	20
	High density technology in Guava orchard	1	5	100	5	-	15	20		20	20
	Total	3	17	340	15		45	60		60	60
Small Scale Processing	Mango & Watermelon squace	1	3	60	5	-	15		20	20	20
	Guava Jelly making	1	3	60	5	-	15		20	20	20
	Total	2	6	120	10		30		40	40	40
Tailoring & Stitching	Tailoring	2	90	3600	5	-	15		20	20	40
	Total	1	90	3600	5	-	15		20	20	40
Dairy Management	Scientific management of Dairy Cattle for Entrepreneurship development	2	15	600	5	-	15	20		20	40
	Total	2	15	600	5	-	15	20		20	40
Poultry management	Improved method of Broiler Production for Entrepreneurship development in Rural Youth	2	15	600	5	-	15	20		20	40
	Total	2	15	600	5	-	15	20		20	40
Ag. Ext.	Formation of SHGs for Seed Production	1	5	100	5	-	15	20	-	20	20
	Total	1	5	100	5	-	15	20	-	20	20
	Grand Total B.	19	183	6060	80	-	240	260	60	320	380

C. Extension Functionaries

Thematic Area*	Title	Total No Of	Dura tion	Total Trainee	pa	No. o rticip	of oants	Total			G.T.
		Course		Days	SC	S T	Othe rs	М	F	Т	
Productivity Enhancement in Field Crop	New vistas in summer Pulses	1	2	40	5	-	15	20		20	20
	Advances in medicinal crop production	1	2	40	5	-	15	20		20	20
	Constraints of Rice seeds production	1	2	40	5	-	15	20		20	20
	Constraints of Pulses production	1	2	40	5	-	15	20		20	20
	Techniques for higher Oilseed production for better stress manage	1	2	40	5	-	15	20		20	20
	Constraints of Rabi pulses under changing	1	2	40	5	-	15	20		20	20

Protected Outlyation in Horticultural crop 1 2 40 5 1 15 20 20 Total DPM Total IPM in Pady 1 2 40 5 15 20 20 IPM IPM in Pady 1 2 40 5 - 15 20 20 IPM in Pady 1 2 40 5 - 15 20 20 Total 4 8 100 20 60 80 80 Total 4 8 100 20 60 80 80 Total 1 2 40 5 - 15 20 20 Total 1 2 40 5 - 15 20 20 Culvation Chitation of Japanese (Culvation bitechiques 1 2 40 5 - 15 20 20 Colvation Chiques of Z1 in different crops as tool for Resource Conservation trigation water 1		climate condition										
Total 7 14 280 35 105 140 140 Cultivation Technique Advanage & technique 1 2 40 5 15 20 20 Cultivation Technique in Horicultural crop 1 2 40 5 - 15 20 20 IPM in Activity 1 2 40 5 - 15 20 20 IPM in Potato 1 2 40 5 - 15 20 20 IPM in Potato 1 2 40 5 - 15 20 20 Total 4 8 160 20 60 80 80 Fruit Production High density Plantation 1 2 40 5 - 15 20 20 Aromatic Cultivation of Japanese 1 2 40 5 - 15 20 20 Cultivation Rist sitiliat			1	2	40	5	-	15	20		20	20
Protected Cultivation of drip irrigation system Technique Advantage & technique of drip irrigation IPM 1 2 40 5 15 20 20 Total 1 2 40 5 - 15 20 20 IPM IPM in Pady 1 2 40 5 - 15 20 20 IPM in Pady 1 2 40 5 - 15 20 20 IPM in Patato 1 2 40 5 - 15 20 20 Total 4 8 100 20 60 80 80 Fruit Production 1 2 40 5 - 15 20 20 Cultivation of Japanese Cultivation of Japanese 1 2 40 5 - 15 20 - 20 Cultivation different cerops as tool for Resource Conservation dirigation water 1 2 40 5 - 15 20 20 <th></th>												
Cultivation in Horicolutural crop in Horicolutural crop PM Total 1 2 40 5 15 20 20 IPM IPM in Paddy 1 2 40 5 - 15 20 20 IPM in Cacurbits 1 2 40 5 - 15 20 20 IPM in Potato 1 2 40 5 - 15 20 20 IPM in Potato 1 2 40 5 - 15 20 20 Total 4 8 160 20 60 80 80 Fruit Production High density Plantation of Mango 1 2 40 5 - 15 20 20 Cultivation of Japanese Mint & its distillation techniques 1 2 40 5 - 15 20 20 RCT Use of ZT in different crosp as a tool for Resource Conservation system in Okra & Conget to save Irrigation water in Mango orchard 1 2 40 5 </th <th></th> <th></th> <th></th> <th>14</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>140</th>				14								140
Technique in Horticultural crop r <thr< th=""> r</thr<>			1	2	40	5		15	20		20	20
Total 1 2 40 5 - 15 20 20 IPM in Potato 1 2 40 5 - 15 20 20 IPM in Cocurbits 1 2 40 5 - 15 20 20 IPM in Potato 1 2 40 5 - 15 20 20 Total 4 8 160 20 60 80 80 Fruit Production High density Plantation of Mango 1 2 40 5 - 15 20 - 20 Aromatic Cultivation of Japanese 1 2 40 5 - 15 20 - 20 20 Cultivation of Iapanese 1 2 40 5 - 15 20 20 20 20 RCT Use of ZT in different crops as a tool for Resource Conservation 1 2 40 5 - 15												
IPM IPM in Paday 1 2 40 5 . 15 20 20 IPM in Cacubits 1 2 40 5 - 15 20 20 IPM in Potato 1 2 40 5 - 15 20 20 IPM in Potato 1 2 40 5 - 15 20 20 Total 4 8 160 20 60 80 80 Fruit Production High density Plantation of Japanese Calitivation of Japanese 1 2 40 5 15 20 20 20 Aromatic Calitivation of Japanese Calitivation of Japanese 1 2 40 5 15 20 20 20 RCT Use of ZT in different crops as color for Resource Conservation 1 2 40 5 - 15 20 20 20 RCT Use of ZT in different crops as color for Ka & Covpca to save irrigation water in satisming masin metadorin 1	Technique			_								
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$												20
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	IPM		-				-					20
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$							-					20
							-					20
Fruit Production fight density Plantation of Margo 1 2 40 5 - 15 20 20 20 Total 1 2 40 5 - 15 20 - 20 Min & its distillation techniques 1 2 40 5 - 15 20 - 20 Min & its distillation techniques 1 2 40 5 - 15 20 2 20 RecT Total 1 2 40 5 - 15 20 2 20 20 Resource Conservation 1 2 40 5 - 15 20 20 20 Resource Conservation 1 2 40 5 - 15 20 20 20 Resource to asve 1 1 2 40 5 - 15 20 20 20 Resource to asve 1 1 2 40 5 - 15 20 20 20 Syrinkler irigation system to 1 2 40 5 - 15 20 20 20 Drip irigation system to 1 2 40 5 - 15 20 20 20 Save irigation water 1 1 2 40 5 - 15 20 20 20 Save irigation water 1 1 2 40 5 - 15 20 20 20 Save irigation water 1 1 2 40 5 - 15 20 20 20 Save irigation water 1 1 2 40 5 - 15 20 20 20 Save irigation water 1 2 40 5 - 15 20 20 20 Save irigation water 1 2 40 5 - 15 20 20 20 Save irigation water 1 2 40 5 - 15 20 20 20 Save irigation water 1 2 40 5 - 15 20 20 20 Save irigation water 1 2 40 5 - 15 20 20 20 Save irigation water 1 2 40 5 - 15 20 20 20 Save irigation water 1 2 40 5 - 15 20 20 20 Save irigation water 1 2 40 5 - 15 20 20 20 StHG Formation of SHG 1 2 40 5 - 15 20 20 20 StHG Formation of SHG 1 2 40 5 - 15 20 20 20 StHG Formation of SHG 1 2 40 5 - 15 20 20 20 StHG Formation of SHG 1 2 40 5 - 15 20 20 20 Sthe Formation of SHG 1 2 40 5 - 15 20 20 20 Storage loss technique 2 2 80 5 - 15 20 20 20 Drulgery reduction seed Production of 2 2 2 80 5 - 15 20 20 20 Cereal & Pulses 2 2 2 80 5 - 15 20 20 20 Cereal & Pulses 2 2 2 80 5 - 15 20 20 20 Cereal & Pulses 2 2 2 80 5 - 15 20 20 20 Cereal & Pulses 2 2 2 80 5 - 15 20 20 20 Cereal & Pulses 2 2 2 80 5 - 15 20 20 20 20 Cereal & Pulses 2 2 2 80 5 - 15 20 20 20 20 20 20 20 20 20 20 20 20 20							-					20
of Margo I 2 40 5 15 20 20 Aromatic Cultivation Cultivation of Japanese Mint & its distillation techniques 1 2 40 5 - 15 20 - 20 Cultivation Mint & its distillation techniques 1 2 40 5 - 15 20 - 20 RCT Use of ZT in different crops as a tool for Resource Conservation 1 2 40 5 - 15 20 20 20 Sprinkler irrigation system in Okra & Cowpea to save 1 2 40 5 - 15 20 20 20 Drip irrigation system to save irrigation water in Mango orchard 1 2 40 5 - 15 20 20 20 Ring basin method of irrigation system to save irrigation water 1 2 40 5 - 15 20 20 20 Ring basin method of irrigation summer cucurbits to save 1 2 40 5												80
Aromatic CultivationCultivation of Japanese Mint & its distillation techniques12405-1520-20Total12405.1520.2020RCTUse of ZT in different crops as a tool for Resource Conservation12405.1520.20Sprinkler Irrigation water Irrigation water Irrigation water in Mango orchard12405.152020Drip irrigation system to save irrigation water in Guava orchard12405.152020Drip irrigation system to save irrigation water in Guava orchard12405.152020Ring basin method of irrigation in summer cucurbits to save Irrigation water12405.152020Storage loss cucurbits to save Irrigation water12405.152020Storage loss caching10202025.75100100SHG GardeningFormation of SHG Irrigation water12405.152020Storage loss cachingControl of godown pest12405.152020Storage loss cenhingControl of godown pest12405.15202020 </td <td>Fruit Production</td> <td></td> <td>1</td> <td>2</td> <td>40</td> <td>5</td> <td>-</td> <td>15</td> <td>20</td> <td></td> <td>20</td> <td>20</td>	Fruit Production		1	2	40	5	-	15	20		20	20
Cultivation techniques Mint & its distillation techniques Image: Imamalea: Imamalea: Image: Image: Image: Image: Imamalea: Image: Imam		Total	1	2	40	5		15	20		20	20
Cultivation Mint & its distillation techniques Image: Ima	Aromatic	Cultivation of Japanese	1	2	40	5	-	15	20	-	20	20
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Cultivation	Mint & its distillation										
RCT Use of ZT in different crops as a tool for Resource Conservation 1 2 40 5 - 15 20 20 Sprinkler irrigation system in Okra & Cowpea to save Irrigation water 1 2 40 5 - 15 20 20 Drip irrigation system to save irrigation water in Mango orchard 1 2 40 5 - 15 20 20 Drip irrigation system to save irrigation water in Guava orchard 1 2 40 5 - 15 20 20 Ring basin method of irrigation water 1 2 40 5 - 15 20 20 Ring basin method of irrigation water 1 2 40 5 - 15 20 20 SHG Formation of SHG 1 2 40 5 - 15 20 20 Storage loss Control of godown pest 1 2 40 5 - 15 20 20 Drudgery reduction <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>												
crops as a coll for Resource ConservationImage: conservationImage: conservationImage: conservationImage: conservationSprinkler irrigation avisation water12405-152020Drip irrigation system to save irrigation water12405-152020Drip irrigation system to save irrigation water in mange orchard12405-152020Drip irrigation system to save irrigation water in Guava orchard12405-152020Ring basin method of irrigation is summer cucurbits to save Irrigation water12405-152020Ring basin method of irrigation water12405-152020House hold Kitchen Gardening12405-152020Storage loss techniqueControl of godown pest12405-152020Storage loss techniqueControl of godown pest12405-152020Drudgery reductionCereal & Pulses12805-152020Diriy managementCereal & Pulses12805-152020Diriy managementCereal & Pulses12805-152020<			1									20
Resource ConservationImage: ConservationImage: ConservationImage: ConservationSprinkler irrigation12405-152020System in Okra & Cowpea to save Irrigation water in Mango orchard12405-152020Drip irrigation system to save irrigation water in Guava orchard12405-152020Ring basin method of irrigation in summer cucurbits to save Irrigation water12405-152020Ring basin method of irrigation water12405-152020Ring basin method of irrigation in summer cucurbits to save Irrigation water12405-152020SHGFormation of SHG12405-15202020SHGFormation of SHG12405-15202020Storage loss techniqueControl of godown pest12405-15202020Seed Production of Cereal & Pulses22805-1520202020Driny managementImage: Control of Security12805-15202020Driny managementImage: Control of SecurityImageeImageeImageeImageeIma	RCT		1	2	40	5	-	15	20		20	20
Sprinkler irrigation system in Okra & Cowpea to save Irrigation water12405-152020Drip irrigation system to save irrigation water in Mango orchard12405-152020Drip irrigation system to save irrigation water in Guava orchard12405-152020Ring basin method of irrigation in summer cucurbits to save Irrigation water12405-152020RIG Formation of SHG12405-15202020SHG GardeningFormation of SHG12405-152020Storage loss 												
system in Okra & Cowpea to save Irrigation water12405-152020Drip irrigation system to save irrigation water in Mango orchard12405-152020Drip irrigation system to save irrigation water in Guava orchard12405-152020Ring basin method of irrigation in summer cucurbits to save Irrigation water12405-152020RIG Formation of SHG12405-15202020House hold Kitchen GardeningFormation of SHG12405-152020Storage loss LechniqueControl of godown pest12405-152020Drugery reductionControl of godown pest12405-152020Drugery reductionControl of godown pest12405-152020Drugery reductionControl of godown pest12805-152020Drugery managementSeed Production of Cereal & PulsesControl of S22805-152020Drugery managementControl of Cereal & PulsesS820020Drugery managementControl of <td></td> <td></td>												
Cowpea to save Irrigation water12405-152020Drip irrigation water in Mango orchard12405-152020Drip irrigation water in Guava orchard12405-152020Ring basin method of 			1	2	40	5	-	15	20		20	20
Irrigation waterImage: constraint of the save irrigation system to save irrigation water in Mango orchard12405-152020Drip irrigation system to Guava orchard12405-152020Ring basin method of irrigation in summer cucurbits to save Irrigation water in Trotal12405-152020Ring basin method of irrigation water in Guava orchard12405-152020Ring basin method of irrigation is summer cucurbits to save Irrigation water12405-152020Total51020025-75100100100SHGFormation of SHG12405-152020Storage loss techniqueControl of godown pest12405-152020Drudgery reduction22805-15202020Seed Production of Cereal & Pulses22805-152020Dairy management22805-15202020Dairy management22805-15202020Cereal & Pulses22805-15202020Dairy management2282												
Drip irrigation system to save irrigation water in Mango orchard12405-152020Drip irrigation system to save irrigation water in Guava orchard12405-152020Ring basin method of irrigation water Irrigation water Irrigation water12405-152020Ring basin method of irrigation water Irrigation water12405-152020Total51020025-75100100SHGFormation of SHG12405-152020House hold GardeningHouse hold food security reduction12405-152020Storage loss Seed Production of Cereal & Pulses122805-152020Dairy management												
save irrigation water in Mango orchard12405-152020Drip irrigation system to save irrigation water in Guava orchard12405-152020Ring basin method of irrigation in summer cucurbits to save Irrigation water12405-152020Ring basin method of irrigation in summer cucurbits to save Irrigation water12405-152020SHGFormation of SHG12405-15202020House hold GardeningHouse hold food security Impact technique12405-152020Drudgery reduction12405-15202020Storage loss techniqueControl of godown pest12405-152020Drudgery reductionSeed Production of Cereal & Pulses22805-15202020Dairy managementTotal5820020-608080												
Mango orchardImage or orchardImage orchardIma			1	2	40	5	-	15	20		20	20
Drip irrigation system to save irrigation water in Guava orchard12405-152020Ring basin method of irrigation in summer cucurbits to save Irrigation water12405-152020Total51020025-75100100SHGFormation of SHG12405-152020House hold GardeningHouse hold food security12405-152020Storage loss Control of godown pest12405-152020Drudgery reductionControl of godown pest12405-152020Drudgery reductionSeed Production of Cereal & Pulses22805-152020Dairy managementTotal5820020-608080												
save irrigation water in Guava orchardsave irrigation water in Guava orchardImage: Seed Production of Cereal & Pulses12405-152020Ring basin method of irrigation in summer cucurbits to save Irrigation water12405-152020Total51020025-75100100SHGFormation of SHG12405-152020House hold Kitchen GardeningHouse hold food security I12405-152020Storage loss techniqueControl of godown pest I12405-152020Drudgery reductionSeed Production of Cereal & Pulses22805-152020Dairy managementImage: Seed Production of Cereal & Pulses22805-152020Dairy managementImage: Seed Production of Cereal & Pulses22805-152020Dairy managementImage: Seed Production of Cereal & Pulses5820020-608080Image: Seed Production of Cereal & PulsesImage: Seed Production of Cereal & PulsesImage: Seed Production of Cereal & PulseImage: Seed Production of Cereal & PulseImage: Seed Production of Cereal & PulseImage: Seed Production of Cereal &		Mango orchard										
Guava orchardImage: searchardImage: s			1	2	40	5	-	15	20		20	20
Ring basin method of irrigation in summer cucurbits to save Irrigition water12405-152020Total51020025-75100100SHGFormation of SHG12405-152020House hold GardeningHouse hold food security reduction12405-152020Storage loss techniqueControl of godown pest12405-152020Drudgery reductionControl of godown pest12405-152020Drudgery reductionControl of godown pest12805-152020Drudgery reductionControl of godown pest12202020Drudgery reductionSeed Production of Cereal & Pulses22805-152020Dairy managementControl of Cereal & Pulses22805-152020Dairy managementControl of Cereal & Pulses2820020-608080												
irrigation in summer cucurbits to save Irrigation water51020025-75100100Total51020025-75100100SHGFormation of SHG12405-152020House hold Kitchen GardeningHouse hold food security Image of the security12405-152020Storage loss techniqueControl of godown pest12405-15202020Drudgery reductionControl of godown pest12205-15202020Drudgery reductionCereal & Pulses22805-15202020Dairy managementCereal & Pulses15202020100Total5820020-60808080												
cucurbits to save Irrigation water51020025-75100100SHGFormation of SHG12405-152020House hold GardeningHouse hold food security (ardening)12405-15202020Storage loss techniqueControl of godown pest Prudgery reduction12405-15202020Drudgery reductionSeed Production of Cereal & Pulses22805-15202020Dairy managementSeed Production of Cereal & Pulses22805-15202020Total5820020-60808080			1	2	40	5	-	15	20		20	20
Irrigation waterImage in the second seco												
Total 5 10 200 25 - 75 100 100 SHG Formation of SHG 1 2 40 5 - 15 20 20 House hold House hold food security 1 2 40 5 - 15 20 20 Kitchen Gardening Control of godown pest 1 2 40 5 - 15 20 20 20 Storage loss Control of godown pest 1 2 40 5 - 15 20 20 20 Drudgery cechnique - - 15 20 20 20 Seed Production Seed Production of Cereal & Pulses 2 2 80 5 - 15 20 20 20 Dairy management - - - 15 20 20 - - - - - - - - -												
SHGFormation of SHG12405-152020House hold GardeningHouse hold food security12405-152020Kitchen GardeningControl of godown pest12405-152020Storage loss techniqueControl of godown pest12405-152020Drudgery reductionControl of godown pest122805-152020Drudgery reductionSeed Production of Cereal & Pulses22805-152020Dairy managementImage: Seed Production of Cereal & Pulses22805-152020Total5820020-60808080												
House hold GardeningHouse hold food security12405-152020Kitchen GardeningControl of godown pest12405-152020Storage loss techniqueControl of godown pest12405-152020Drudgery reductionControl of godown pest12205-152020Drudgery reductionSeed Production of Cereal & Pulses22805-152020Dairy managementCereal & PulsesControl of Cereal & Pulses22805-152020Dairy managementControl of Cereal & PulsesControl of Cereal & PulseControl of Cer							-					100
Kitchen GardeningControl of godown pest12405-152020Storage loss techniqueControl of godown pest12405-152020Drudgery reduction </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td>20</td>							-					20
GardeningControl of godown pest12405-152020Storage loss techniqueControl of godown pest12405-152020Drudgery reduction2020Seed Production of Cereal & Pulses22805-15202020Dairy management </td <td></td> <td>House hold food security</td> <td>1</td> <td>2</td> <td>40</td> <td>5</td> <td>-</td> <td>15</td> <td>20</td> <td></td> <td>20</td> <td>20</td>		House hold food security	1	2	40	5	-	15	20		20	20
Storage loss techniqueControl of godown pest12405-152020Drudgery reduction20Seed Production of Cereal & Pulses22805-15202020Dairy management2020Poultry management20<												
techniqueImage: Construction of cereal & PulsesImage: Construction of cereal & Pulses				_								
Drudgery reductionImage: Seed Production of Cereal & Pulses22805-152020Dairy managementImage: Seed Production of Cereal & PulsesImage: Seed Production of Seed Production of Cereal & PulsesImage: Seed Production of Seed Production of Cereal & PulsesImage: Seed Production of Seed PulsesImage: Seed Production of Seed Production of See		Control of godown pest	1	2	40	5	-	15	20		20	20
reductionSeed Production of Cereal & Pulses22805-152020Dairy managementImage: Seed Production of Cereal & PulsesImage:												
Seed ProductionSeed Production of Cereal & Pulses22805-152020Dairy managementImage: Seed PulsesImage: Seed PulsesI												
Cereal & PulsesImage: Cereal & Pulses						_						
Dairy managementDairy managementImage with the second seco	Seed Production		2	2	80	5	-	15	20		20	40
management Image (Constraint) Image (Constraint		Cereal & Pulses										
Poultry managementTotal5820020-608080-	•											
management Total 5 8 200 20 - 60 80 80 - - - - - - - - -												
Total 5 8 200 20 - 60 80 80	•											
	management				* ^ ^							
		Total	5	8	200	20	-	60	80		80	100
10tal C 24 46 960 115 - 345 460 460 460		Total C	24	46	960	115	-	345	460	-	460	480

(a) Sponsored

Thematic	Title	Total	Dura	Total	No. o	of part	icipants		Total		G.T.
Area*		No	tion	Trainee	SC	ST	Other	Μ	F	Т	
		Of Course		Days			S				
Seed Production	Seed Production of rice	1	5	100	5	-	15	20		20	20
	Quality seed production of sugarcane.	1	7	140	5	-	15	20		20	20
Commercial Fruit Cultivation	Lay-out of mother orchards for Mango & Guava	1	5	100	5	-	15	20		20	20
Value addition	Cereal Seed Processing & Packaging	1	2	40	5	-	15		20	20	20
IPM	BPH Control in Paddy	2	5	200	5	-	15	20		20	40
IDM	Wilt Control in Lentil	2	2	80	5	-	15	20		20	40
	Total	8	26	660	30	-	90	100	20	120	160

(b) Vocational

Thematic	Title	Total No	Dura	Total	No.	of part	icipants		Total		GT
Area*		Of	tion	Trainee	SC	ST	Others	Μ	F	Т	
		Course		Days							
Seed Production	Seed Production of	1	2	40	5	-	15	20		20	20
	Wheat										
Commercial	Scientific layout for	1	2	40	5	-	15	20		20	20
Fruit Cultivation	developing new Guava										
	orchard										
Garden	Mali Training	1	180	4500	5	-	15	20		20	20
Management	-										
Rural Craft	Beautician & Parlor	1	180	3600	5	-	15		20	20	20
	Total	4	364	8180	20	-	60	60	20	80	80

1 A.-Frontline Demonstration

Sl.	Season	Сгор	Variety/Component	No. of	Area (ha)
No				demonstration	
1	Kharif	Paddy	R Sweta	25	10.0
2		Paddy	DSR with ZT Drill	25	10.0
3		Paddy	Weed Control in DSR	25	10.0
4		Paddy	Zinc as Foliar	25	10.0
5	Rabi	Wheat	HD-2967	25	10.0
6		Wheat	Weed control	20	8.0
7		Lentil	Boron as Foliar	20	8.0
8		Gram	Weed control	20	8.0
9		Mustard	Aphid control	15	5.0
10		Okra	Weed Control	15	5.0
11		Onion	Weed Control	15	5.0
			Grand Total	205	89.0

2 B. Seed and planting material production

Se	ed	Planting	g material
Сгор	Area (ha)	Сгор	Area/No
Paddy	50	Vegetable Seedlings	95000
Wheat	50	Agro-Forestry Plants	2000
Lentil	50	Papaya Seedling	1000
Gram	40	Mango Plants	1000
Total	190		99000

3 C. Extension Activities

Activities	No.	Participation
FIELD DAYS	10	300
KISHAN MELA	3	1500
DIAGNOSTIC SERVICES	10	600
FARMERS VISIT TO KVK		1200
PUBLICATION &	10	2000
DISTRIBUTION		
KISHAN GOSTHI	8	500
DD / RADIO TALK	5	
FILM SHOW	50	

3D.Expected fund utilization-NA

Project	Source	Amount to be received (Rs. In Lakh)

4 D. On-farm trials to be conducted

Sl.	Thematic	Title	Treatments	No. of
No	Area			Farmer
1	Soil	Impact of K Fertigation on	T. O 1–Farmers practice (Injudicious use of K - Fertilizer	16
	Fertility	quality of processed Rice)	
	Managem		T. O 2– 40 Kg. K /ha.	
	ent		T. O 3–Use of K as per STBR	
2	INM	Evaluation of Sulfur	T. O 1–Farmers practice (Injudicious use of S -	16
		source for Chick Pea	Fertilizer)	
			T. O 2–Basal application of Bentonite @ 20Kg./ha.	
			T. O 3–Basal application of Phospho Gypsum @ 125 Kg.	
			/ha.	
3	INM	Evaluation of additional an	T.O. 1 -Farmers Practice application of DAP@125	
		application on Lentil	kg./ha.	
			T.O. 2- DAP @125Kg/ha + 30 Kg Urea/ha as basal	
			T.O. 3 -DAP @125Kg/ha + 10 gram Urea/liter as foliar	
			30-35 days after DAS	
4	Vegetable	Evaluation of early	T. O. 1– Farmers Practice (cultivation of Early Kuwari)	16
	crop yield	Cauliflower Variety	T. O. 2– Sowing of Kashi Kuwari	
	increment		T. O. 3– Sowing of Sabour Agrim	
5	Vegetable	Evaluation of Dark Red	T. O. 1– Farmers practice (Cultivation Agri found light	16
	crop yield	Onion cultivar	Red)	

	increment		T. O. 2– Cultivation of Agri found dark Red	
	<i>a</i> .		T. O. 3– Cultivation of N-53	1.6
6	Cropping	Evaluation of Maize-	T. O. 1– Farmers Practice (sole crop Maize)	16
	System	Potato inter cropping	T. O. 2 – Farmers practices (Sole crop Potato)	
			T. O. 3–Maize + Potato	
7	IPM	Assessment of Chemical &	T. O. 1–Farmers practice (Application of Chlorpyriphos	16
		Biological control of BPH	20 E.C. @ 1.25 lit/ha.	
		in Paddy	T. O. 2– Fipronil 0.5 % SC @ 1.0 Lit. /ha.	
			T.O. 3 – Azadirachatine 0.03% @ 1 lit./ha.	
8	IDM	Evaluation of Chemical	T. O. 1–Spray of Mancozeb 75 WP@2 Kg. /ha.	16
		control of Cercospora Leaf	T. O. 2 - Spray of Carbandazim 50 WP@1 Kg. /ha.	
		spot in Okra	T.O. 3 – Spray of COC 50WP @ 3 Kg. /ha.	
9	IDM	Evaluation of Chemical	T. O. 1–.Farmers practices (Spray of Mancozeb 75	16
		control of late blight in	WP@2 Kg. /ha.)	
		Tomato	T. O. 2– Spray of Carbandazim 50 WP@1 Kg. /ha.	
			T. O. 3– Spray of Mancozeb 63% + Carbandazim	
			12%@1 Kg. /ha.	
10	Store	Evaluation of different	T. O. 1–. Farmers practices (Drying & storage in Jut	16
	Grain	technique for Wheat	Bags).	
	Pest	Weevils control	T. O. 2–TO-1 + Celphos Diskette	
			T.O. 3- Drying & storage in Air tight Bag with Celphos	
			Diskette	
11	Apicultur	Control of Wax moth in	T. O 1–Farmers practices (Injudicious use of chemicals)	16
	e	Apiculture during rainy	T. O 2–Use of Naphthalene ball in Bee boxes	-
	-	season	T. O 3-Use of Ethylene Di bromide @ 10 ml. as	
			Fumigation fort nightly.	
			T.O. 4- Use of Bacillus thrungensis in Wax moth	
12	Water	Evaluation of Pre Sowing	T. O. 1– Farmers Practice i.e. no Pre Sowing Irrigation	16
	Managem	Irrigation on germination	T. O. 2–Pre Sowing Irrigation.	
	ent	and yield Lentil.		
13	RCT	Evaluation of	T. O. 1– Farmers Practice i.e. Broadcasting of seed	16
		Conservation Tillage	T. O. 2–Line sowing with Seed Drill	
		Practices in cultivation of	T. O. 3–Line sowing with ZT Drill	
		Lentil		
	TOTAL			208

B. List of projects to be implemented -NA

Name of the project	Fund expected (Rs.)

- C. Number of success stories to be developed
 - a) Paddy Seed Production
 - b) Pulses Seed Production
 - c) Wheat Seed Production
- D. Scientific Advisory Committee

Date of SAC meeting held during 2014-15	Proposed date
	Jnue,2018 &Feb, 2019

E. Soil and water testing

	No. of sample to be analyzed
Soil	1000
Plant	-
Manure	-

F. Staff position (As on 1-04-2017)

Sl.No	Sanctioned	In position	Name	If vacant, since when
1	Senior Scientist & Head	02.06.2001	Dr. Pravin Kumar Dwivedi	
2	SMS (Hort.)	09.10.1996	Sri Nilesh Kumar	
3	SMS (H. Sc.)	11.08.2001	Smt. SupriyaVerma	
4	SMS (PP)	14.01.2013	Sri ShashiBhushan KumarShashi	
5	SMS (Ag. Extn.)	14.01.2013	Dr. Sachidanand Singh	
6	SMS (PBG)	16.01.2013	Dr. Anil Kumar Yadav	
7	SMS (Vet. A.H.)		Vacant	01.01.2015
8	Programme Assistant		Vacant	14.01.2013
9	Prog. Asstt. (Computer)	01.01.2001	Sri Pankaj Kumar	
10	Farm Manager	06.02.2001	Sri Sunil Kumar	
11	Assistant	16.01.2013	Sri SanjeevRaghuvanshi	
12	Jr. Stenographer	18.12.2000	Sri RadhaKrishan Nair	
13	Driver	02.12.2000	Sri Mahabir Ram	
14	Driver		Vacant	27.11.2017
15	Supporting Staff G-I	07.06.2001	Smt. Baby Kumari	
16	Supporting Staff G-I		Vacant	07.09.2008

G. Status of infrastructure

Infrastructure	Complete	Under	Not	Reasons, if not started
		Construction	started	
Administrative Building	Complete			
Trainees hostel	Complete			
Staff Quarter	Complete			
Demonstration Unit	Complete			
Poultry Unit				
Distillation Unit for Medicinal &	Complete			
Aromatic plant				
Vermi Compost Unit	Complete			

H. Fund requirement and expenditure (Rs.)

	Expenditure (last year)	Expected requirement (Rs.in Lakh)
Recurring		
Pay & allowance	10487774.00	11335000.00
Contingency	1375808.00	1600000.00
ТА	178822.00	1800000.00
HRD	82500.00	75000.00
Non-recurring (specify)		
Library	0.00	0.00
Works	0.00	0.00
Equipment	200000.00	0.00
Total	12324904.00	14810000.00

(**P. K. Dwivedi**) Senior Scientist & Head KVK,SCADA, Bhojpur, Ara

OFT-1.

01.	Title of On-Farm Trail		:	Evaluation of Chemical Control of Cyperus
				rotundas.
02.	Micro-irrigation system		:	Rainfed
03.	Problem identified		:	Cyperus weed is fastly infesting large area
				under upland conditions especially in
				Vegetables, Maize and Sugarcane
				including Paddy.
04.	Hypothesis		:	As post-emergence weedicide Glyphosate
				is controlling the weed but now the
				efficiency has drastic reduction. Thus
				there is need of Post emergence weedicide
				for the control of such Weeds
				A new broad spectrum Post emergence
				weedicide Halosulfuron methyl 75%WG
				will control effectively the Cyperus weed
				and may solve the problem.
05.	Source of technology		:	HAU, Haryana
06.	Technical intervention		:	Weedicides
07.	Treatment details	Tech. option -1	:	Farmers practice (Hand weeding)
		Tech. option -2	:	Glyphosate@3.0 Lt/ ha as postemergence
		Tech. option -3	:	Halosulfuron methyl 75%WG @90 gram
				a.i./ ha as post emergence
08.	Replication		:	20(Area 0.2 ha./treatments)
09.	Performance indicators	Technical	:	Weed Count / m2, dry wt.,
		observation		Yield attributes, yield
		Economic	:	Net return B. C. Ratio
		indicators		
		Farmers feedback	:	Quality & Effectiveness of the chemical
				return

OFT -2

01.	Title of On-Farm Trail		:	Chemical control of parasitic weeds of
				lentil
02.	Micro-irrigation system		:	Rainfed
03.	Problem identified		:	Cuscuta as parasite weed is fastly
				infesting large area under pulses specially
				lentil. This weed is also hazardous for
				animal and other associated crops.
04.	Hypothesis		:	As pre-emergence weedicide
				Pendimethalin is controlling the weed
				emergence in early stage but again it is
				appearing. Thus there is need of Post
				emergence weedicide for the control of
				such parasites
				A new broad spectrum Post emergence
				weedicide Quizalfop ethyl is identified for
				effective control of Cuscuta and may
0.7				solve the problem.
05.	Source of technology		:	DrRPCAU, Pusa
06.	Technical intervention		:	Weedicides
07.	Treatment details	Tech. option -1	:	Farmers practice (Hand removal)
		Tech. option -2	:	Pendimethalin - @1.0 kg a.i. / ha as
			:	pre-emergence
		Tech. option -3		Quizalfop Ethyl 5EC @40 g a.i./ ha as
				post- emergence
08.	Replication		:	20(Area 0.2 ha./treatments)
09.	Performance indicators	Technical	:	Weed Count / m2, dry wt.,
		observation		Yield attributes, Yield
		Economic	:	Net return B. C. Ratio
		indicators		
		Farmers feedback	:	Quality & Effectiveness of the chemical
				return

OFT-3.

01.	Title of On-Farm Trail		:	Evaluation of suitable date of Wheat
				sowing in Rice-Wheat cropping system
02.	Micro-irrigation system		:	Irrigated
03.	Problem identified		:	Traditionally long duration Paddy is
				grown in major parts of canal irrigated
				situation. This results in delay up to 40
				days in Wheat sowing. This leads to
				drastic reduction in Wheat productivity
				with all based management practices.
04.	Hypothesis		:	Timely sowing that is in 1 st weak of Nov.
				Provides more cold days for better
				vegetative growth of Wheat which may
				result in better productivity
05.	Source of technology		:	CSISA
06.	Technical intervention		:	Date of sowing & Seed
07.	Treatment details	Tech. Option -1	:	Farmers Practice i.e. delayed cultivation
				(20-30 November)
		Tech. Option -2		Sowing of Wheat on 1 st Nov.
		Tech. Option-3		Sowing of Wheat on 7 th Nov.
		Tech. Option -4		Sowing of Wheat on 15 th Nov.
08.	Replication		:	30 (0.2ha/treatment)
09.	Performance indicators	Technical	:	Tillering increase/decrease. Yield & Test
		observation		weight
		Economic	:	Net return BC ratio
		indicators		
		Farmers feedback	:	Over all crop Growth & Grain Quality

01.	Title of On-Farm Trail		:	Assessment of high yielding variety of
				Maize
02.	Micro-irrigation system		:	Irrigated Upland
03.	Problem identified		:	Poor yield of Maize due to selection of
				local variety
04.	Hypothesis		:	Farmers are growing local variety of
				maize which gives poor yield in district
				Bhojpur having Avg. yield 24 Qt. /ha.
				Improved variety like NK-6240 and BKC-
				7074 are high yielding variety may be
				suitable to this area. Therefore to evaluate
				the comparative performance present OFT
				is proposed.
05.	Source of technology		:	DMR,Begusaray
06.	Technical intervention		:	High yielding Hybrid Maize seed
07.	Treatment details	Tech. Option -1	:	Farmers practice local cultivars cultivation
		Tech. Option -2	:	Cultivation of DHM-117
		Tech. Option - 3	:	Cultivation of HM-12
08.	Replication		:	10 (0.20 ha/treatment)
09.	Performance indicators	Technical	:	Plant Height, Days to Mature, Avg. No. of
		observation		Cobs/Plant, No. of Grain/Cob
				Increase/decrease in yield, test weight
		Economic	:	Net return BC ratio
		indicators		
		Farmers feedback	:	Crop growth & yield.

01.	Title of On-Farm Trail		:	Evaluation of Maize-Potato inter cropping
02.	Micro-irrigation system		:	Irrigated Upland
03.	Problem identified		:	At times the Potato crop is facing severe
				disease and natural challenges resulting in
				very poor economic returns. Under such
				changing situation Maize is the future crop
				which can change the economics
04.	Hypothesis		:	Newly developed Hybrid verity DKC-
				9081 may be a good choice for
				intercropping with Potato and it may be
				replace the traditional cultivation of sole
				potato crop.
05.	Source of technology		:	RAU, PUSA
06.	Technical intervention		:	High yielding Hybrid Maize seed
07.	Treatment details	Tech. Option -1	:	Farmers practice(i.e.cultivation of Potato)
		Tech .Option -2	:	Cultivation of Potato + Maize
08.	Replication		:	10 (0.20 ha. / farmers)
09.	Performance indicators	Technical	:	Plant Height, Days to Mature, Avg. No. of
		observation		Cobs/Plant, Increase/decrease in yield, No.
				of Grain/Cob, Test weight. Yield
				Equivalence
		Economic	:	Net return BC ratio
		indicators		
		Farmers feedback	:	Crop growth & yield.

01.	Title of On-Farm Trail		:	Evaluation of HYV of round Brinjal Variety
				NON-0137 to replace the local cultivars
02.	Micro-irrigation system		:	Irrigated
03.	Problem identified		:	Brinjal is the second most important vegetable of Bhojpur district in term of area. Through the farmer are cultivating Round Brinjal's local cultivarssince long. The Germplasmhaddeteriorated and number of pest and disease are attacking the cultivars resulting in poor yield i.e. below 120 qt/ha and very poor economical return.
04.	Hypothesis		:	As per the felt need of the farmers the traditional varieties need to replace with High yielding as well as YMV resistant varieties considering the importance of this crop the present OFT with variety Non – 0137(Round Brinjal) is prospered to assess its potentiality against the specific problem of poor yield
05.	Source of technology		:	IIVR, Varanasi
06.	Technical intervention		:	Improved Seed
07.	Treatment details	Tech. option -1	:	Farmers Practice
		Tech.option-2		Cultivation of Non – 0137
08.	Replication		:	10 Farmers (0.2 ha./ treatment) 2 ha.
09.	Performance indicators	Technical	:	Vigor &Color.
		observation		Etiology
				Yield
		Economic	:	Net result & BC ratio
		indicators		
		Farmers feedback	:	Overall crop growth & gain quality

OFT-7.

01.	Title of On-Farm Trail		:	Evaluation of Chemical Wilt control in
- 02				Bottle Gourd
02.	Micro-irrigation system		:	Irrigated Upland
03.	Problem identified		:	Bottle gourd is one of the leading crop and
				is grown in an area of 1200 ha. Having the
				Average productivity of 300 Qt/ha. (net
				return Rs. 1.4 Lakh/ha.) but since last 3-4
				years there is drastic reduction in yield up
				to 40% was observed due to wilt
				infestation This has severely affected the
				economic return of this highly value crop
04.	Hypothesis		:	The traditional molecule foliar application
				is partially controlling the disease. A new
				broad spectrum fungicide having the
				combination of Pyrochlostrabin
				5%+Metiram 55% as good curative for this disease. This molecule was evaluated
				in KVK & was found significantly good for the control of Wilt.
05.	Source of technology			K.V.K., Bhojpur
05.	Technical intervention		:	Fungicide
07.	Treatment details	Tech. Option -1	:	Farmers practice two spray of
07.	Treatment details	reen. option -1	•	Mancozeb+Carbendazim @2 Kg./ha.
		Tech. Option -2		Two spray Pyrochlostrabin 5%+Metiram
				55% @ 1 Kg./ha.
08.	Replication		:	10 (0.20 ha. Per farmers)
09.	Performance indicators	Technical	:	No. Of infected plant per100mt
		observation		L L
		Economic	:	Net return B. C. Ration
		indicators		
		Farmers feedback	:	Disease infestation fruit quality
				economical return

OFT-8.

01.	Title of On-Farm Trail		:	Evaluation of Molecules for effective
				Sheath Rot Control in Maize
02.	Micro-irrigation system		:	Irrigated Upland
03.	Problem identified		:	Maize crop in general is suffering a lot due
				to Sheath Rot infection now a day. This
				disease is appearing in epidemic from in
				the initial stage of flowering & thus result
				in heavy lass in Maize production
04.	Hypothesis		:	Since the disease is composite in nature,
				application of Anti biotic may me curative.
				To assess the effectiveness the present
				OFT is being proposed.
05.	Source of technology		:	KVK, Bhojpur
06.	Technical intervention		:	Anti biotic with Fungicide and other
				chemicals
07.	Treatment details	Tech. option -1	:	Farmers practice spraying of Hexaconazole
			:	5 EC @ 1.25 lit / ha.
		Tech. option -2	:	Soil treatment with Bleaching Powder
				(3Kg /ha)
		Tech. option -3		Two spray of Streptocyclin + Copper
				OxiChloride(25gm+750 gm /ha) after 30 DAS
				and 60 DAS
08.	Replication		:	20 (0.20 ha/treatment.)
09.	Performance indicators	Technical	:	Occurrence of Sheath Blight
		observation		Increase in yield Paddy yield
		Economic	:	Net return BC ratio
		indicators		
		Farmers feedback	:	Plant health & efficiency of medicine

OFT-9.

01.	Title of On-Farm Trail		:	Management of Rust disease in Lentil
02.	Micro-irrigation system		:	Rain fed Medium land
03.	Problem identified		:	Lentil crop in general is suffering a lot due
				to Sheath Rot infection now a day. This
				disease is appearing in epidemic from in
				the later stage of flowering & thus result in
				heavy loss in Lentil production
04.	Hypothesis		:	The incidence of Rust disease in Lentil at
				flowering results in heavy loss in yield
				resulting in poor seed setting. The spread
				of disease is very fast through smutted
				spores. The application of fungicides at
				different stages may control the incidence
				of disease and combat further spread
05.	Source of technology		:	RAU, Pusa
06.	Technical intervention		:	Fungicide
07.	Treatment details	Tech. option -1	:	Farmers practices Seed treatment with
			:	Carbendazim (2g /kg seed)
		Tech. option -2	:	Seed treatment with Carbendazim (2g /kg
				seed)+Two spray of Carbendazim+ Mancozeb
				(2.0 kg a.i. /ha) after 30 DAS and 60 DAS
08.	Replication		:	20 (0.20 ha/treatment.)
09.	Performance indicators	Technical	:	Occurrence of Rust disease
		observation		Increase in yield Lentilyield
		Economic	:	Net return BC ratio
		indicators		
		Farmers feedback	:	Plant health & efficiency of medicine

01.	Title of On-Farm Trail		:	Evaluation of N application in Lentil
02.	Micro-irrigation system		:	Irrigated
03.	Problem identified		:	Farmers are not using the Rhizobium Culture and the FYM due to in proper supply. This result in poor Nitrogen availability in the Rhizosphere of Lentil leading to poor vegetative growth and branching and as a result low yield of Lentil
04.	Hypothesis		:	Application of Nitrogen in addition to the normal recommendation of DAP which is supplementing partial Nitrogen will cover up the demand of Lentil crop for proper vegetative growth, which is now going to be a bigger problem in Lentil growing area. The proper branching & vegetative growth will result in increased no. of flower per plant leading to more grain setting and ultimately better yield
05.	Source of technology		:	ICAR, IIPR, Kanpur
06.	Technical intervention		:	Application of N Fertilizer
07.	Treatment details	Tech. option -1 Tech.option-2 Tech.option-3	:	Farmers Practice application of DAP@125 kg./ha. DAP @125Kg/ha + 30 Kg Urea/ha as basal DAP @125Kg/ha + 10 gram Urea/liter as foliar 30-35 days after DAS
08.	Replication		:	20 Farmers (0.2 ha./ treatment) 8 ha.
09.	Performance indicators	Technical observation Economic	:	No. of plant / sq. meter plant height No. of grain per pot yield Test weight Net result & BC ratio
		indicators		
		Farmers feedback	:	Overall crop growth & gain quality

OFT-11.

01.	Title of On-Farm Trail		:	Evaluation of Pre-sowing irrigation on Germination and Yield of Lentil
02.	Micro-irrigation system		:	Irrigated
03.	Problem identified		:	The frequent tillage operations over long periods have detrimental effect on surface of soil. It pulverizes the soil into dust and breaks down soil aggregates. Tillage hastens the oxidation of organic matter
				from the soil, reduces infiltration and induces runoff and soil erosion.
04.	Hypothesis		:	The area under Lentil is around 20000 ha. with average yield of around 8 quintal / ha. it since to be very low as compare to the potential yield of the existing cultivars which is more than 10 Q. / ha The pre sowing irrigation may result is better crop stand with good vegetative smooth and high nutrient use efficiency leading to improvement in yield.
05.	Source of technology		:	B.A.U., Sabour
06.	Technical intervention		:	Irrigation
07.	Treatment details	Tech. option -1 Tech.option-2	:	Farmers Practice is no Pre sowing irrigation Pre sowing irrigation
08.	Replication		:	20 Farmers (0.2 ha./ treatment) 4 ha.
09.	Performance indicators	Technical observation	:	No. of plant / sq. meter plant height No. of sowing per pot yield Test weight (1000 grin weight)
		Economic indicators	:	Net result BC ratio
		Farmers feedback	:	Overall crop growth & gain quality

01.	Title of On-Farm Trail		:	Evaluation of Conservation Tillage
				Practices in cultivation of Lentil
02.	Micro-irrigation system		:	Rain fed
03.	Problem identified		:	Traditionally Lentil is shown in major part after harvesting of Paddy on residue moisture. This result in poor germination and crop stand leading to poor yield of Lentil with all Agronomical practices.
04.	Hypothesis		:	The area under Lentil is around 20000 ha. With average yield of around 8 quintal /ha, very low as compare to the potential yield of the existingcultivars (16 Q. / ha). This is mainly due to poor moisture leading to under supply of nutrients. To control above disadvantages of repeated tillage operations in cultivation of lentil, Sowing of seeds by drilling might be better optionsfor resource conservation
05.	Source of technology		:	CSISA, Bihar &UP Hub
06.	Technical intervention		:	Irrigation
07.	Treatment details	Tech.option-1 Tech.option-2	:	Farmers Practice conventional of Sowing Sowing of Lentilwith ZT drilling
08.	Replication		:	20 Farmers (0.2 ha./ treatment) 4 ha.
09.	Performance indicators	Technical	:	No. of plant / sq. meter plant height
		observation		Test weight (1000 gram weight), Yield
		Economic	:	
		indicators		
		Farmers feedback	:	Overall crop growth & gain quality

01.	Title of On-Farm Trail		:	Evaluation of Conservation Tillage
				Practices in cultivation of Gram
02.	Micro-irrigation system		:	Rain fed
03.	Problem identified		:	Traditionally Gram is shown in major part
				after harvesting of Paddy on residue
				moisture. This result in poor germination
				and crop stand leading to poor yield of
				Gram input of all agronomical practices.
04.	Hypothesis		:	The area under Gram is around 18000 ha. with
				average yield of around 8-9 quintal/ ha,very
				low as compare to the potential yield of the existing cultivars (16-18Q./ ha). This is mainly
				due to poor moisture leading to under supply
				of nutrients. To control above disadvantages
				of repeated tillage operations in cultivation
				of lentil, Sowing of seeds by drilling might
				be better options for resource conservation
05.	Source of technology		:	CSISA, Bihar &UP Hub
06.	Technical intervention		:	Irrigation
07.	Treatment details	Tech. option -1	:	Farmers Practice conventional of Sowing
		Tech.option-2		Sowing of Gram with ZT drilling
08.	Replication		:	20 Farmers (0.2 ha/ treatment) 4 ha.
09.	Performance indicators	Technical	:	No. of plant / sq. meter plant height
		observation		Test weight (1000 gram weight), Yield
		Economic	:	Net result BC ratio
		indicators		
		Farmers feedback	:	Overall crop growth & Grain quality

(P. K. Dwivedi)

Senior Scientist & Head KVK, SCADA, Bhojpur, Ara