CRDE-KRISHI VIGYAN KENDRA, DISTT. - SEHORE

ANNUAL REPORT OF KVK - SEHORE
01 January, 2019 – 31 December, 2019

CRDE

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CRDE KRISHI VIGYAN KENDRA
SEWANIA, TEHSIL ICHHAWAR DISTRICT SEHORE(,M.P.)
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Contents

REPORTING PERIOD – January 2019 to December 2019

Summary of KVK Annual Report (Quantifiable Achievement) for the year 2019

S.N.	Quantifiable Achievement	Number	Beneficiaries (nos.)	
1	**On Farm Testing**			
	Proposed OFT	**24**	276	
	On Going OFT	**13**	146	
	Technologies assessed (Completed OFT)	**18**	186	
	Technologies refined	**-**	-	
	On farm trials conducted	**23**	266	
2	**Frontline demonstrations**			
	Proposed Frontline demonstrations	24	230	
	On Going Frontline demonstrations	16	160	
	FLDs conducted on crops	17	230	
	Area under crops (ha.)	41.25	-	
	FLD on farm implement and tools	01	10	
	FLD on livestock/ AH enterprises (Dairy/ Sheep and Goat/Poultry/ Duckery/ Piggery etc.)	05	40	
	FLD on Fisheries - Finger lings	-	-	
	FLD on other enterprises (Bee keeping, lac, mushroom, sericulture, value addition, vermi compost, etc.)	-	-	
	FLD on Women in Agriculture - (Nutritional garden, Income generation, Value addition, Drudgery reduction, etc.)	01	10	
3	**Training programmes**	**No. of Course**	**Duration (days)**	**Participants**
	Farmers	35	1-2	875
	Farm women	15	1-2	375
	Rural youth	15	1-2	375
	Extension personnel/ In service	13	1-2	325
	Vocational trainings	09	05	90
	Sponsored Training	02	1-2	355
	Total	89	1-2	2395
		No. of programmes	**Participants**	
4	**Extension Programmes**	357	15351	
5	**Production of technology inputs etc**	**Qty**	**Beneficiaries (nos.)**	
	Seed (qt.)	70.55	109	
	Planting material produced (nos.)	49000	575	
6	**Livestock**	**Qty**	**Beneficiaries (nos.)**	
	Livestock strains (Nos)	15	06	
	Milk Yield - Cow, Buffelo etc. (in liter)	-	-	
	Fish (Kg.)	-	-	
	Fingerlings (nos.)	-	-	
	Poultry-Eggs (nos.)	-	-	
	Ducks (nos.)	-	-	
	Chicks etc. (nos.)	-	-	
7	**Bio Products**	**Qty**	**Beneficiaries (nos.)**	
	Bio Agents -Earth worm (Kg.)	200	15	
	Trichoderma (kg.)	-	-	
	Bio Fertilizers- Vermi compost, Rhizobium, PSB , BGA , Mycorriza , Azotobacter , Azospirillum etc. (Kg.)	**60000**	03	
	Bio Pesticide-Panchgavya, Neem Extract , Neem oil etc.(lit.)	-	-	

8	**Any other significant achievement in the Zone**	**Nos.**	**Participants/ beneficiaries**	
	Award (Best KVK award and scientist and farmer's award)	-	-	
	Publications (Res. Paper/ pop. Art./Bulletin,etc.)	20	8200	
	KVK News letter	03	3000	
	SAC Meetings conducted	02	49	
	Soil sample tested	2130	2130	
	Water sample tested	-	-	
	RWH System (Special training and field visit on RWH structure and MIS in KVKs)	-	-	
	KVK-KMA (Message and beneficiaries)	43	34557	
	Convergence programmes	06	181	
	Sponsored programmes	02	300	
	KVK Progressive Farmers interaction	01	120	
	No. of Technology Week Celebrations	-	-	
	Attended HRD activities organized by ZPD	13	05	
	Attended HRD activities organized by DES	05	03	
	Attended HRD activities by KVK Staff(Refresher /Short course, Training programme etc.)	01	01	
9	Current status of Revolving Funds (Amt. in Rs.)	69928.00		
10		**No. of blocks**	**No. of villages**	
	Outreach of KVK in the District	05	1049	
11		**ICAR**	**SAU**	**Others**
	No. of important visitors to KVK (nos.)	02	-	17
12		**Working (Yes/No)**	**No. of Update**	
	Status of KVK Website	Yes	08	
13		**Application received**	**Application disposed**	
	Status of RTI (nos.)	Nil	Nil	
14		**Query received**	**Query dissolved**	
	Citizen Charter (nos.)	Nil	Nil	
15		**Filled**	**Vacant**	
	Staff Position	14	02	
16	Workshop/ Seminar/ Conference attended by staff of KVK (nos)	19		
07	Publication received from ICAR /other organization (nos.)	17		
18		**Particulars**	**Organization**	
	Agri alerts (epidemic, high serious nature problem, Cyclone etc. reported first time to ZPD, SAU, Agri. Deptt. and ICAR)	-	-	
		-	-	
19	Activities performed in Sansad Adarsh Gram	**Nos. of Activities**	**Participants/ beneficiaries**	
20	Current status of Contingency (Amt. in Rs.)	NIL	NIL	

1. GENERAL INFORMATION

1.1. Staff Position (as on date)

Summary of Staff position in KVKs on December, 2019

Name of KVK	Sanctioned Posts	PC (1)		SMS (6)		PA (3)		Admn. (6)		Total	
		Sanc.	Filled	Sanc.	Filled	Sanc.	Filled	Sanc.	Filled	Sanc.	Filled
KVK-SEHORE	16	01	0	06	06	03	02	06	06	16	14

Name of KVK	Sanction post	Name of the incumbent	Discipline	Highest degree	Subject of specialization	Pay scale	Present pay	Date of joining	Category
SEHORE	Sr. Scientist & Head	**Vacant**	-	-	-	-	-	-	-
SEHORE	SMS/ Scientist 1	Mr. J. K. Kanaujia	Horticulture	M.Sc.	Vegetable	15600 -5400- 39100	82,400	09/07/2005	OBC
SEHORE	SMS/ Scientist 2	Mr. Sandeep Todwal	Soil Science	M.Sc.	Soil Science & Agri Chemistry	15600 -5400- 39100	67,000	16/12/2010	OBC
SEHORE	SMS/ Scientist 3	Mr. Devendra Patil	Agronomy	M.Sc.	Agronomy	15600 -5400- 39100	57,800	26/12/2018	OBC
SEHORE	SMS/ Scientist 4	Mr. Deepak Kushwaha	Plant Protection	M.Sc.	Entomology	15600 -5400- 39100	57,800	01/01/2019	OBC
SEHORE	SMS/ Scientist 5	Mr. Dharmendra	Agri. Extn.	M.sc.	Agri. Extension	15600 -5400- 39100	56,100	11/03/2019	OBC
SEHORE	SMS/ Scientist 6	Dr. Vimlesh Kumar	Animal Husbandry	M.V.sc.	Animal Husbandry	15600 -5400- 39100	56,100	25/03/2019	OBC
SEHORE	Programme Assistant	Miss Kusum Shukhwal	Home Science	M.Sc.	Home Science	9300-4200- 34800	36,500	05/02/2019	GEN
SEHORE	Farm Manager	Vacant	-	-	-	-	-	-	-
SEHORE	Computer Programmer	Mr. Akshay Kalkar	MCA	MCA	Computer Application	9300-4200- 34800	36,500	01/01/2019	GEN
SEHORE	Accountant / superintendent	Mr Shashikant Harde	Commerce	M.Com	Commerce	9300-4200- 34800	42,300	01/08/2013	SC
SEHORE	Stenographer	Mr. Bhanu Pal Singh	Science	B.Sc.	Steno	5200 - 2400- 20200	33,300	25/01/2008	GEN
SEHORE	Driver	Mr. Pradip Singh Rajput	-	10 th	-	5200 - 2000- 20200	29,300	18/08/2003	GEN
SEHORE	Driver	Mr. Satish Upadhyay	-	12^{th}	-	5200 - 2000- 20200	21,700	04/03/2019	GEN
SEHORE	Supporting staff, if any	Mr. Ravishanker Raikwar	-	10^{th}	-	4400 - 1300- 7440	24,200	01/03/01	OBC
SEHORE	Supporting staff, if any	Mr. Nirmal Kumar	-	8^{th}	-	4400 - 1300- 7440	21,500	25/08/06	ST

1.2. DISTRICT PROFILE (Detail of geographical area, Cultivation, Land, resources, Opportunities, Irrigation, Populations etc.)–

Location :-

The district is situated at central part of Madhya Pradesh with longitude and latitude of 22°33"49' to 23°41"02'North and 76°26"55 to78°01"59' on East respectively. It is stands in the foothills of *Vindhyachal Range* in the middle of *Malwa* region The District is spread over an area of 6,578 square km and it is surrounded by six district viz.. Bhopal, Raisen, Hoshangabad, Dewas, Shajapur and Raigarh. Likewise the district is well connected to the Western Railway from Bhopal to Ratlam.

Demographic Profile:

District Sehore has total population **1311332** as per census 2011. The literacy level in the district is **71%**. The total SC and ST population comes in tune of **31.78%** in the district as per census 2011. Tehsil wise population details given in the table –

Name of the Tehsil	Population				SC		ST		General		Total	
	M	F	CH*	Total	No. of household	No. of Members	No. of household	No. of Members	No. of household	No. of Members	No. of household	No. of Members
Sehore	143539	131539	38501	275078	9646	48229	2226	11128	41227	215721	53098	275078
Ashta	131462	122000	36869	253462	13680	68399	1161	5806	35597	179257	50438	253462
Ichhawar	84198	78109	26299	162307	6801	34006	6677	33384	18628	94917	32106	162307
Nasrullaganj	91834	84429	28487	176263	5352	26760	9726	48630	17909	100873	32987	176263
Budni	48652	43254	12768	91906	2907	14535	2659	13296	13450	64075	19016	91906
Shyampur	80246	72108	24099	152354	5802	29008	452	2262	23870	121084	30124	152354
Jawar	56142	52319	16139	108461	8022	40109	1229	6147	12953	62205	22204	108461
Rehti	47670	43831	14267	91501	2047	10235	4972	24859	10319	56407	17338	91501
Total	**683743**	**627589**	**197429**	**1311332**	**54256**	**271281**	**29102**	**145512**	**173952**	**894539**	**257311**	**1311332**

(Source : Census -2011)

Topography and Agro climatic characteristic:-

The district fall in the Vindhya plateau, as the zone is characterized by black soil mostly medium in depth. The major crop are grown in the region are Soybean and Wheat crop. The district has about 60% area is under medium black soil (30 - 60 cm depth) and about 20% deep (more than 60 cm depth) and about 20 % shallow soil (30 cm depth). The average mean sea level is falls in the range of 457 to 609 meter.

Agro-ecological situation :-

Agro Climate Zone	Agro- ecological situation	Block covered	Area in '000 Ha.	Soil Type
Vindhyan Plateau	Vindhyan Plateau (AES- I)	Sehore, Asta and Ichhawar	409.494	Medium Black
	Central Narmada Valley	Budani & Nasrullaganj	246.874	Medium Black & Alluvial Soil
Total Area	-	-	**656.368**	-

Soil Status :-

The district characterized by black *vertisols* mostly medium in depth, 60% area comes under medium black soil (30 to 60 cm depth) and about 20% deep black (more than 60 cm depth) and approximately 20% shallow black soil (30 cm depth). The soils are low in nitrogen (N), medium in phosphorus (P2O5) and medium in potash (K2O). About 40 % soils of Sehore, Budani and Ashta have been reported deficient in micro nutrient especially Zink (Zn), Sulpher (S) and Boron (B), soil pH rage in the scale of 7.3 to 7.8 making the soil fit for cultivation of wide range of crops.

Climate and Meteorology:-

The district experiences the sub tropical climate. The annual rainfall of the district is about 1260 mm, which is mostly concentrated during the month of July and August some time it extends up to end September. The winter rains are also received but the frequency and timing are uncertain and they are undependable under normal rainfall situation.

The summers are very hot particularly during the day time and the winters are very cold. *Rabi* cropping becomes very difficult mostly depends on available soil moisture. If the rain recedes much earlier in the *Kharif* season, the *Rabi* prospects shows down trend. Average temperature in summer varies from 250C to 450C and average temperature in winter from 100C to 250C.

Average Annual Rainfall of Previous Five Years (in mm)

S.No.	Blocks	Year wise rainfall (mm)					Average
		2015 -16	**2016-17**	**2017-18**	**2018-19**	**2019**	
1	Sehore	1012.0	1555.7	815.0	1075.2	1820.8	**1255.74**
2	Asta	1059.0	1120.5	692.0	789.65	1607.8	**1053.79**
3	Ichhawar	993.8	1556.7	933.2	931.0	1740.0	**1230.94**
4	Budani	1234.0	1613.2	1016.75	926.6	1729.8	**1304.07**
5	Nasrullaganj	1352.0	1414.0	948.0	603.2	1937.0	**1250.84**
Average		**972.08**	**1130.16**	**1452.02**	**889.6**	**1749.3**	**1219.07**

(Dept. of FW&AD, Sehore)

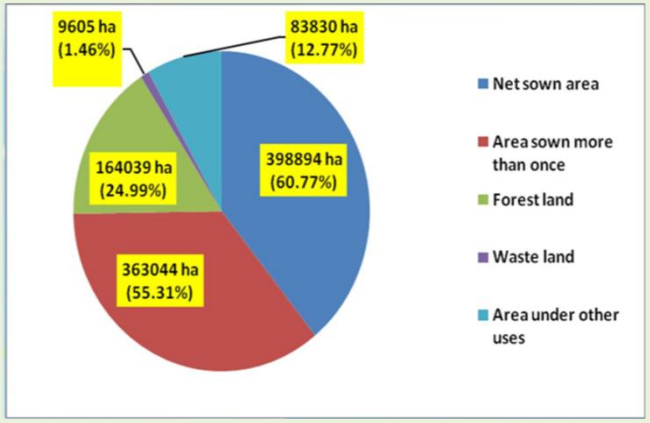
Land use pattern :-

The total arable land of Sehore district is 398894 ha, out of which, the irrigated area is about 68%. The major crop grown in *Kharif* season are Soybean, Rice, Maize, Jowar, Pigeon pea and Wheat, Chickpea and sugarcane are the popular crops in *Rabi* season.

Land Use Pattern :-

S. No.	Particulars	Details
01	Total geographical area (ha)	656368
02	Net sown area (ha)	398894
03	Area sown more than once in the year (ha)	363044
04	Gross cropped area (ha)	761938
05	Forest land (ha)	164039
06	Waste land (ha)	9605
07	Land under other uses (ha)	83830

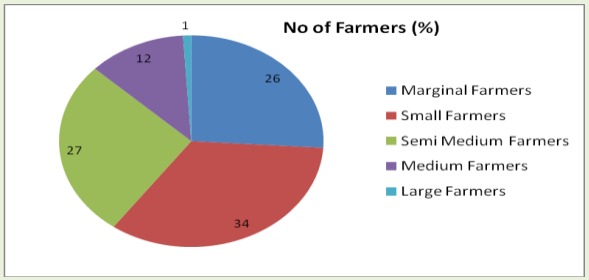
(Source: Land record)



Details of land holdings in the district (2012) – The size of operational holding plays an important role in understanding the prevailing farming system, dependent livelihoods, quality of rural life and corresponding farm economy of the any area. Higher occurrence of smaller holdings, skewed land distribution among Landholders, land capabilities and its. utilization, quality of land and its current status are some of the key Farameters determines the pace of development in agriculture sector. The district >62% of the land owners posses 49.68% land belonging to small and medium category of the farmers, >18% of the marginal farmers owns only a meager 6%, while 19% of the bigger land owners posses 42% land. The skewed ownership aggravates the problems and production potential of the district.

Type of Farmers	No.	Percentage	Area in (ha.)	Percentage
Marginal Farmers (Less than 1 ha.)	52313	26.0	25221	6.3
Small Farmers (1-2 ha.)	67430	34.0	82299	20.6
Semi Medium Farmers (2-4 ha.)	54987	27.0	114015	28.5
Medium Farmers (4-10 ha.)	23435	12.0	136461	34.2
Large Farmers (More than 10 ha.)	1898	0.9	40898	10.2
Total	**200063**	**-**	**398894**	**-**

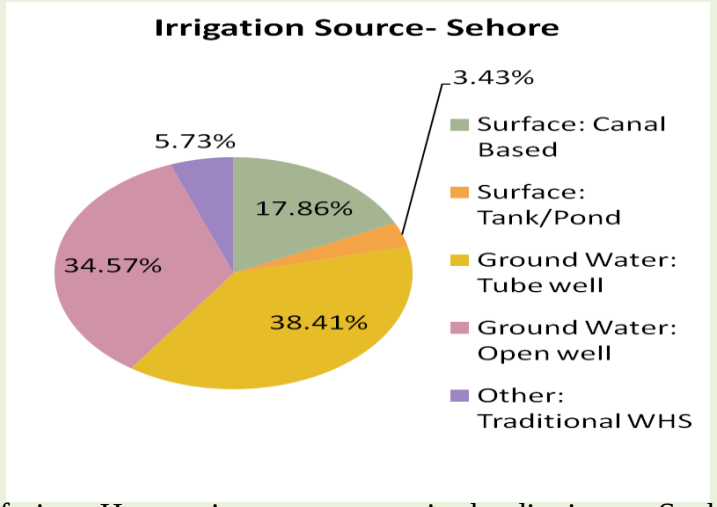
Source- DPO, Sehore



Irrigation : -The district has good potential for irrigation through different sources, though there are no major or medium irrigation scheme in the district, however, minor lift irrigation schemes, dug well, water harvesting structures, seasonal rivers and other sources provides water for irrigation. The water use and its efficiency, however, remain under question

Irrigation potential of district: -

S No	Sources	Area (ha)	%
A	***Surface Irrigation***		
1	*Canal Based*	*69607*	*17.86*
2	*Tanks/Ponds/ Reservoirs*	*13365.7*	*3.43*
	Total	*82972.7*	*21.28*
B	***Ground Water***		
1	*Tube wells*	*124824*	*38.41*
2	*Open Wells*	*97755*	*34.57*
Total		*222579*	*72.99*
C	***Other Sources - Traditional WHS***	*22136*	*5.73*
Grand Total (A+B+C)		**327687.73**	**100**



Production and productivity of major crop:-

Sehore is developing district of the state & important district for agriculture point of view. Here major crops grown in the district are Soybean, Maize, Paddy in Kharif however wheat & Chickpea in Rabi season. The prominent cropping system prevails in the district are Soybean – Wheat, Soybean – Chickpea and Paddy – Wheat. The productivity of the major crop is not better since the crops are dependent on rains. The Sharbati Wheat of the district is very popular in producing good quantum of wheat which supplying to the western part of the country. Present production and productivity of major crop in the district is given as an under:-

Present status of major crops in Sehore

Year	Soybean			Paddy			Pigeon pea			Wheat			Chickpea			Green Gram		
	A	P	Y	A	P	Y	A	P	Y	A	P	Y	A	P	Y	A	P	Y
2014-15	272.0	366.7	1348.0	35.0	176.5	5042.0	10.7	64.8	606.0	241.6	850.9	3522.0	97.0	122.5	1263.0	27022	27022	1000
2015-16	296.0	438.0	1296.6	23.6	82.56	3500.0	9.76	87.84	900.00	230.1	805.3	3500.0	91.84	116.6	1270.0	26700	26166	980
2016-17	269.91	329.29	1220.0	29.8	125.6	4200.0	9.05	11.95	1320.0	248.95	871.3	3500.0	81.93	110.61	1350.0	25900	28490	1100
2017-18	275.16	335.70	1220.0	31.87	133.84	4200.0	5.45	7.19	1320.0	244.50	904.64	3700.0	96.42	164.79	1709.0	33581	37274	1110
2018-19	290.0	390.63	1347.0	32.90	118.44	3600.0	6.60	9.11	1380.0	245.0	882.0	3600.0	107.80	199.43	1850.0	13385	13117	980
Average	**280.614**	**372.064**	**1286.32**	**30.634**	**127.388**	**4108.4**	**8.312**	**36.178**	**1105.2**	**242.03**	**862.828**	**3564.4**	**94.998**	**142.786**	**1488.4**	**25317.6**	**26413.8**	**1034**

A = Area (000ha) **P = Production (000 Ton)** **Y = Productivity (kg/ha.)**

Horticulture :-

Beside the area under field crops, significant area comes under the horticultural crops; the district register area under different horticulture is 18351.81 ha with an aggregate production of 283812.37 MT. The vegetable production from around 8334 ha of land under vegetable cultivation is a little more than 110348 MT. Similarly the good amount of land comes under fruit crops *i.e*.3234 ha and production is about 74516 MT. Beside this there are sizable land comes under spices 5237 ha and production is 81864 MTs similarly 1545 ha area comes under flower cultivation and 17075 MTs and medicinal plants 1.81 ha and 9.37 MT production.

Block wise Area and Production of Horticultural Crops Year 2013-14 ***(Area in ha, production in MT)***

S.No.	Block	Fruit		Vegetable		Spices		Flowers		Medicinal	
		Area (ha.)	Production	Area	Production	Area	Production	Area	Production	Area	Production
1	Sehore	750	16500	1986	31776	1426	109802	50	2050	1.31	6.79
2	Asta	683	15026	1775	28400	1195	92015	35	1435	-	-
3	Ichhawar	1057	23254	1885	30160	1055	81235	38	1558	0.5	2.59
4	Budani	211	4642	1660	26560	698	53746	106	4346	-	-
5	Nas,ganj	578	12716	1450	23200	868	66836	80	3288	-	-
Total		**3279**	**72138**	**8756**	**140096**	**5242**	**38563**	**309**	**12677**	**1.81**	**9.38**

(Source: Department of Horticulture, Sehore)

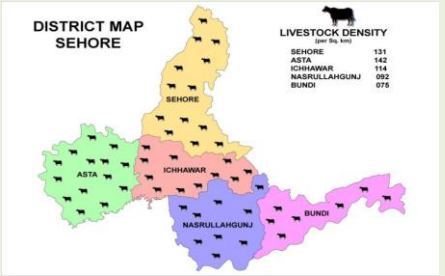
Details of Horticulture Nursery available in the district.

S.No.	Name of Block	Location	Area (ha)	Current Status
1	**Sehore**	Mahuakheda	7.63	Mango, Aonla, Citrus, Guava
2	**Asta**	Asta	2.00	Guava, Citrus, Ratanjot
		Gadrakhedi	5.00	-
3	**Ichhawar**	Jamli	16.00	Guava, Citrus, Neem, Ratanjot
4	**Budni**	Peelikarar	5.00	Guava, Citrus, Neem, Ratanjot
5	**Nasrullganj**	Satrana	5.00	Guava, Citrus, Neem, Ratanjot

Source- DOH Sehore

Livestock :-

The economy of Sehore district is primarily agriculture and livestock based. There is good quantum of animal resources in the district. As the metro like Bhopal is near to Sehore district hence, the scope for the increas e the production potentiality of the animals. Simultaneously additional employments may also be generating for the community. As forest are disappeared rapidly so that there is considerable decrease in the fodder production as mostly there is the practice of the open grazing in the rural areas. With the continues deficit in rainfall the possibilities of rain water conservation above and below the ground is decreased since traditional tanks are also neglected. In the absences of effective rainfall fodder production and water for drinking to animals is very difficult in the region.



Block	Small animals					Large animals		
	Poultry	Ducks	Pigs	Goat	Sheep	Cow	Buffalo	Draught animal
Sehore	242585	0	326	20472	0	60245	46498	5051
Ashta	21258	0	384	31535	90	70905	59560	0
Ichawar	18650	0	276	25427	0	82479	37612	0
Nasrullaganj	15310	0	443	17908	0	59771	37211	0
Budhni	5824	0	0	9793	0	34868	14205	5023
Total	**303627**	**0**	**1429**	**105135**	**90**	**308268**	**195086**	**10074**

(Source: Dept. of Animal Husbandry and Veterinary Services)

Production of Animal produces in the District

S.No.	Product	Production
01	Milk	155 Lakh Lit.
02	Meat	407.3 MT
03	Eggs	106.46 Lakh No.

(Source: Dept. of Animal Husbandry and Veterinary Services)

Fisheries :-

Sehore district has also got a good potential for fisheries. Fisheries can be a viable option for employment generation in various villages, if practiced technically. The district has got 92 village ponds and 3 irrigation tanks with total area 404177 ha. & Production 12.034 MT.

Water body	Area (ha.)	Production (Qtl.)	Productivity (Qtl./ha.)
Ponds (self)	4844.40	89621.4	18.5
Ponds (Irrigation Department)	3520.26	5984.442	1.7
Total	**8364.66**	**95605.84**	**10.1**

SWOT ANALYSIS -

SWOT Analysis is a strategic planning tool used to evaluate the Strengths, Weaknesses, Opportunities, and Threats involved in project or programme. It involves specifying the objective of the project and identifying the internal and external factors that are favorable and unfavorable to achieving that objective.

3.1 STRENGTH

There are number of strengths in the district, which need to be further strengthened and optimally harnessed to remove the existing state of poverty, backwardness and underdevelopment:

- Suitability of climate and soil (medium black) for various, Cereals, Oilseeds (soybean) Pulses & Horticultural crops.
- Excellent institutional support- Agriculture collage, Krishi Vigyan Kendra, Farm machinery training & testing centre etc.
- 78.2 % area under irrigation.
- 60.29 % area under cultivation of total geographical area.
- Sufficient average rainfall (1261.2 mm.)
- Sufficient availability of Agriculture labors.
- Good marketing connectivity (Road & rail etc.) to the metro cities.
- Quality wheat producing district.
- Existing Poultry and milk industries well established and functional.

3.2 WEAKNESS

Like in all the places, there are a large number of weaknesses in the district, which is responsible, to an extent, for its backwardness. Here's a list of some of the weaknesses of the district comprising of both the problems and the constraints: -

Unavailability of quality inputs i.e. seeds & planting material and their quality and timely availability.

- Proper marketing channels for commodity chain are not well developed.
- Inadequate power (electricity) supply limiting to obtain optimum production potential.
- Focus on post harvest and storage management is very low.
- Undulated land.
- Diversifications of the farming system is very low
- Lack of awareness toward market demand at farmer's level.
- Numbers of small and marginal farmers are more which is limiting to take innovation / diversification.
- Farmers' attitude and traditional practices for the farming limiting to get optimum production potential.

3.3 OPPORTUNITIES

If one look at the strengths that are there in the district and observe the weaknesses of the district, one can easily find a lot of opportunity areas to work on, to take the district of the path of development. Here are some of the 'opportunities', clearly evident from the profile of the district, the strengths that operate in favour of the district and the weaknesses that one need to work towards addressing:

- Potential for crop/ agriculture and other components of the farming system diversification.
- Establishment of the education hubs (for agriculture- technology and latest Technical knows how).
- Strengthen the existing supply system and organize up-gradation course for the staff.
- Opportunity cost for the labour is comparatively low and labour available.
- Scope for organic cultivation enough quantity of the required material required for the same is available in sufficient quantity.

- Floriculture- an option as district is near to metro.
- Gap in production potential of the prominent crops.
- Easy e- extension in rural areas due to IT revolution in the country.
- Improving purchasing capacity.
- The dairy and diary product can be an opportunity for the marginal and small farmers.
- The farm mechanization can be enhance as the required industries are readily available as and required for.
- Scope exists to increase the returns to farmers by establishing small agro processing units in production catchments.
- Scope for entrepreneurship development for custom hiring of high capacity and costly farm machinery.

3.4 Threats –

- Over exploitation of the ground water and subsequent decline in water table.
- Small & reducing size of land holdings with associates constraints of being Resource poor, low risk taking abilities, thereby extension of new technologies further difficult.
- Natural calamities like draughts, pest and disease appearance.
- Deterioration in soil health.
- Biological and environmental degradation.

Major Problems in District :-

- Lack of high yielding varieties/ hybrids in field crops.
- Poor seed replacement rate & negligible seed treatment.
- Heavy incidence of insect & diseases.
- Heavy infestation of weeds in Kharif crops.
- Imbalance use of fertilizer declining soil health.
- Lack of soil & water conservation techniques.
- Low input use efficiency.
- Slow crop diversification under Horticultural crop and Integrated Farming System
- Poor adoption of latest technologies at farmers part.
- High post harvest losses (10 – 12 % in grain, 25 – 30 % in vegetable & fruit crops).
- Poor credit support particularly small & marginal farmers.
- Weak transfer of technology system.

1.3. DETAILS OF ADOPTED VILLAGE during the reporting period (Approved by competent Authority in meetings/workshops)

KVK Name	Village Name	Year of adoption	Block Name	Distance from KVK	Population	Number of farmers (having land in the village)
SEHORE	Bichhia	2013	Sehore	70 Km	2440	520
SEHORE	Golukhedi	2014	Ichhawar	30 Km	2576	238
SEHORE	Kothara Pipalya	2016	Nasrullaganj	68 Km.	1486	355
SEHORE	Bijlon	2017	Sehore	50 Km	2141	424
SEHORE	NarsinghKheda	2018	Ichhawar	25 Km.	2008	407

1.4. THRUST AREAS identified by KVK (Approved by competent Authority in meetings/workshop)

KVK Name	THRUST AREA
SEHORE	Soil Health Management, Crop management Practices (CMP)
SEHORE	Horticulture & Végétales Corps (H & VC)
SEHORE	Animal Science (A S)
SEHORE	Integrated Plant Protection Techniques (IPPT)
SEHORE	Women in Agriculture. (W A)
SEHORE	Implements & Farm Machinery (I & FM)
SEHORE	Natural Resource Management (NRM)
SEHORE	Livelihood & Nutritional Security
SEHORE	Doubling Farmers income by 2021-22

1.5. PROBLEM IDENTIFIED by KVK

KVK Name	Problem identified	Methods of problem identification	Location Name of Village & Block
SEHORE	**Soil health** High Soil erosion due to undulation & non bunding of farms Deterioration in Soil health due to adoption of Soybean – Wheat , Paddy – Wheat, Soybean- Chickpea cropping system Deterioration in soil health due to imbalance use of plant nutrient Lack of knowledge about bio fertilizer & its application	Field visit, Discussion, Meeting, Krisak sangosthi, PRA, SAC meeting, Interface, Extrainees meet etc.	Problem are common in entire district
SEHORE	Unavailability of high yielding varieties/ hybrids in field crops	Field visit, Discussion, Meeting, Krisak sangosthi, PRA, Interface, Extrainees meet etc.	Problem are common in entire district
SEHORE	Low seed replacement rate in major Crops	Field visit, Discussion, Meeting, Krisak sangosthi, PRA, SAC meeting, Interface, Extrainees meet etc.	Problem are common in entire district
SEHORE	Lack of awareness about seed treatment	Field visit, Discussion, Meeting, Krisak sangosthi, PRA, SAC meeting, Interface, Extrainees meet etc.	Problem are common in entire district
SEHORE	Weed infestation in Crops	Field visit, Individual contact	Bayan
SEHORE	Low yield due to Old varieties, No use of Recommended Package of Practices	PRA, Field visit, Individual contact	Golukhedi, Bichhia, Kothra Pipalya
SEHORE	Low water use efficiency	Field visit, Discussion, Meeting, Krisak sangosthi, PRA, SAC meeting, Interface, Extrainees meet etc.	Problem are common in entire district
SEHORE	Low fertilizer use efficiency due to imbalance use of fertilizer	Field visit, Discussion, Meeting, Krisak sangosthi, PRA, SAC meeting, Interface, Extrainees meet etc.	Problem are common in entire district
SEHORE	Heavy infestation of insect & disease	Field visit, Discussion, Meeting, Krisak sangosthi, PRA, SAC meeting, Interface, Extrainees meet etc.	Problem are common in entire district
SEHORE	Slow crop diversification in Horticultural crops	Field visit, Discussion, Meeting, Krisak sangosthi, PRA, SAC meeting, Interface, Extrainees meet etc.	Problem are common in entire district
SEHORE	Slow adoption of farm mechanization	Field visit, Discussion, Meeting, Krisak sangosthi, PRA, SAC meeting, Interface, Extrainees meet etc.	Problem are common in entire district
SEHORE	High post harvest losses in grain, vegetable & Fruits crops	Field visit, Discussion, Meeting, Krisak sangosthi, PRA, SAC meeting, Interface, Extrainees meet etc.	Problem are common in entire district
SEHORE	Poor adoption of technology by Farmers	Field visit, Discussion, Meeting, Krisak sangosthi, PRA, SAC meeting, Interface, Extrainees meet etc.	Problem are common in entire district
SEHORE	Weed infestation of crops	Field visit, Discussion, Meeting, Krisak sangosthi, PRA, SAC meeting, Interface, Extrainees meet etc.	Problem are common in entire district
SEHORE	Water stress in critical stages of plant growth	Field visit, Discussion, Meeting, Krisak sangosthi, PRA, SAC meeting, Interface, Extrainees meet etc.	Problem are common in entire district

2. On Farm Testing (OFT)

2.1 Details of OFT on Crop

KVK name	Year	Season	Problem diagnose	Title of OFT	Category of technology (Assessment/ Refinement)	Name of Technology/Variety used			Thematic Area	No. of Trials	No. of Farmers involved	Farming Situations	Date of Sowing	Date of Harvesting	Source of technology	Characteristic of technology	Name of Crop/ Enterprises	Recommendation of farmers	Recommendation of Deptt. Personal	Results (q./ha)		
						T1	T2	T3												FP (T_1)	RP (T_2)	T3
SEHORE	2018-19	Rabi	Low yield of wheat due to existing varieties in under restricted irrigation condition	Assessment of Wheat variety HI-1605 (Pusa Ujala) under restricted irrigation condition (02 irrigations)	Assessment	Use of wheat variety LOK-1	Use of Wheat variety HI- 1544 (	Use of Wheat variety HI-1605 (Pusa Ujala)	CMP	05	05	Restricted Irrigated	24 Oct, 2018	01 mar, 2019	IARI, Indore	Erect ,semi tall, *aestivum* wheat , good for chapati	Wheat	This technology is appropriate with farming situation and farmer convenience for adoption.	This technology has to be spread by the Dept. personnel between farm ring communities.	31.62	38.31	43.61
SEHORE	2019	Kharif	Low yield of maize due to use of old and impotent varieties	Assessment of maize variety Pratap Hybrid Maize-3 in kharif season	Assessment	Use of Local Variety - Sathi Makka	PAC-740.	Maize, Var. Pratap Hybrid Maize-3	CMP	10	10	Rainfed	03 july, 2019	05 Oct, 2019	Maharana Pratap University of Agriculture & Technology Udaipur, Rajasthan	The hybrid variety PHM-3 has grain yield potential of 55-60 q/ha. with maturity duration of 84-88 days. It has stay green fodder at the time of harvesting.	Maize	This technology is appropriate with farming situation and farmer convenience for adoption.	This technology have to be spread by the Dept. personnel between farm ring community	22.14	24.89	28.21
SEHORE	2019	Kharif	Low yield of soybean due to heavy infestation of weeds at early stage.	Assessment of Pre emergence herbicide diclosulam 84 % WDG @ 26 g/ha in soybean	Assessment	Farmers Practice – Post emergence herbicide	Pre emergence herbicide Pendimethalin 30 EC@ 1.liter / ha	Pre emergence herbicide **Diclosulam 84 % WDG** @ 26 g/ha	CMP	10	10	Restricted Irrigation	28 Jun, 2019	02 Oct, 2019	Indian Institute of Soybean Research, Indore	Effective control of monocot and dicot weeds in soybean	Soybean	This technology is appropriate with farming situation and farmer convenience for adoption.	This technology have to be spread by the Dept. personnel between farm ring community	9.80	10.42	12

KVK name	Year	Season	Problem diagnose	Title of OFT	Category of technology (Assessment/ Refinement)	Name of Technology/Variety used			Thematic Area	No. of Trials	No. of Farmers involved	Farming Situations	Date of Sowing	Date of Harvesting	Source of technology	Characteristic of technology	Name of Crop/ Enterprises	Recommendation of farmers	Recommendation of Deptt. Personal	Results (q./ha)		
						T1	T2	T3												FP (T_1)	RP (T_2)	T3
SEHORE	2019-20	Rabi	Low yield of wheat due to use of old and impotent varieties.	Assessment of Wheat variety HI 8759 (Pusa Tejus) in irrigated Condition.	Assessment	Farmers Practice – Wheat var Malav shakti	Wheat Var. HI 8737 (Anmol).	Wheat var. HI 8759 (Pusa Tejus)	CMP	05	05	Irrigated	14 Nov, 2019	-	IARI, Indore	Having a High level of rust resistance. It is a high durum wheat variety with an averagee yield of 57 q/ha and potential yield of 76 q/ha	Wheat	In Progress				
SEHORE	2018-19	Rabi	Low yield of Wheat due to heavy infestation of termite	Assessment of IPM module for the management of termite in wheat crop under Rainfed condition	Assesment	Application of Insecticide	SDP+ Seed Treatment with Fipronil 5 % SC @ 5 ml/kg Seed	SDP+ Seed Treatment with Fipronil 5 % SC @ 5 ml/kg Seed+ Soil treatment by Chloropyriphos 25 kg/ha.	PLP	10	10	Rainfed	25 Oct. 2018	05 march 2019	JNKVV, Jabalpur	Reduce Termite Infestation	Wheat	This technology is appropriate with farming situation and farmer convenience for adoption	This technology have to be spread by the Dept. personnel between farming community	23.24	25.85	27.66
SEHORE	2018-19	Zaid	Low yield of Green Gram due to heavy incidence of yellow mosaic disease (Avg. yield losses up to 15-20 %)	Assessment of IDM module for the management of Yellow mosaic disease in Green gram	Assesment	Application of Insecticides	Removal of infected plantat initial stage+ spraying of imidachloprid 17.8% SL@ 125 ml/ha. Along with sulphor@ 0.1%	SDP+ Resistant Variety + seed treatment with thiomethoxam 70 WS @3g/kg. seed + yellow sticky trap+ Rought out of Infected plants at initial stage+ need based spray of Imidachloprid 17.8% SL@ 125 m.l/ha. .	PLP	10	10	Irrigated	28 March 2019	30 may 2019	JNKVV, Jabalpur	Reduce disease incidence	Green Gram	This technology is appropriate with farming situation and farmer convenience for adoption	This technology have to be spread by the Dept. personnel between farming community	7.2	8.6	9.8

KVK name	Year	Season	Problem diagnose	Title of OFT	Category of technology (Assessment/ Refinement)	Name of Technology/Variety used			Thematic Area	No. of Trials	No. of Farmers involved	Farming Situations	Date of Sowing	Date of Harvesting	Source of technology	Characteristic of technology	Name of Crop/ Enterprises	Recommendation of farmers	Recommendation of Deptt. Personal	Results (q./ha)		
						T1	T2	T3												FP (T_1)	RP (T_2)	T3
SEHORE	2019	Kharif	Lowe yield of Tomato due to heavy infestation of tomato leaf curl disease	Assessment of IDM module for the management of Tomato leaf curl disease	Assessment	Application of Insecticide	SDP+ Optimum Planting distance + Resistance Variety+ Seedling Treatment with Imidachlopri d 48% Fs+ Need based Application of Insecticide	SDP +Optimum seed rate (75 -100 g/ ha) +Yellow Sticky trap 25 no/ha + Need based spray of Imidachloro prid 17.8 SL @ 0.35ml./Lit. water	PLP	10	10	Irrigated	05 June 2019	30 Sept. 2019	ICAR-NCIPM New Delhi	Reduce disease incidence	Tomato	Crop loss due to continue heavy rainfall				
SEHORE	2019	Kharif	Low yield of Cucurbits due to heavy infestation of Fruit Fly	Assessment of IPM Module for the management of Fruit fly in Cucurbits (Bottle gourd & Pumpkin)	Assessment	Spray of Insecticide at the time of Infestation	SDP+ Recommended dose of Nitrogenous Fertilizers + Fruit Fly Trap	SDP+ Recommended dose of Nitrogenous Fertilizers + Poison baiting (01 kg. pumpkin+ 100 g. me Jiggery + 10 ml Melathion) Removal of Infected fruit+ Fruit Fly	PLP	05	05	Irrigated	13 July 2019	30 Sept. 2019	ICAR-NCIPM New Delhi	Reduce insect infestation	Cucurbits (Bottle guard)	Crop loss due to continue heavy rainfall				
SEHORE	2019-20	Rabi	Low yield of chickpea crop due to infestation of gram pod borer	Assessment of IPM module for the management of gram pod borer in chickpea crop	Assessment	Application of insecticides	SDP+ resistance variety +optimum seed rate (75kg/ha)+ mix 5g rabi sorghum seed with chickpea seed/bird percher 20/ha+ *Bacillus thuringiens*	SDP+Resistance variety+Optimum seed rate (75kg/ha)+Mix 5g rabi sorghum seed with chickpea seed/bird percher 20/ha+light trap 1 /acre+pheromone trap 10/ha+*Bacillus*	PLP	05	05	Rainfed	01 Nov. 2019	-	ICAR-NCIPM New Delhi	Reduce insect infestation	Chickpea	In progress				

KVK name	Year	Season	Problem diagnose	Title of OFT	Category of technology (Assessment/ Refinement)	Name of Technology/Variety used			Thematic Area	No. of Trials	No. of Farmers involved	Farming Situations	Date of Sowing	Date of Harvesting	Source of technology	Characteristic of technology	Name of Crop/ Enterprises	Recommendation of farmers	Recommendation of Deptt. Personal	Results (q./ha)		
						T1	T2	T3												FP (T_1)	RP (T_2)	T3
							is var. Kurstaki 1kg/ha+need based application of Emmamectin benzoate 5%SG 220 g/ha	*thuringiensis var. Kurstaki* 1kg/ha+ Need based application of emmamectin benzoate 5%SG 220 g/ha													
SEHORE	2019-20	Rabi	Low yield of garlic due to incidence of stemphylium blight and Purple Blotch (Average yield losses up to 15-20%)	Assessment of IDM module for the management of stemphylium blight and Purple Blotch in Garlic	Assessment	Application of Fungicides	Foliar application Mancozeb @ 025 % at 30, 60 and 90 DAP	Soil app. Of Pseudomonas fluorescens @ 5 kg/ha + foliar spray Cabriotop (pyraclostrobin +metiram) @ 0.25 % at 30,60 and 90 DAP.	PLP	05	05	Irrigated	25 Oct. 2019	-	ICAR-IIHR Bangalore	Reduce disease incidence	Garlic	In Progress				
SEHORE	2018-19	Summer	Low body weight gain & less egg production due to heat stress	Assessment of Electrolytes to manage heat stress condition in poultry (White leg horn)	Assessment	Feeding concentrate + watering	Feeding concentrate with aonla powder @ 2 gm / lit of water	Feeding concentrate with electrolyte @ 0.5 gm / lit of water	Poultry production and Management	06	06	-	April, 2019	July, 2019	IVRI, Izzatnagar	Electrolytes reduced Heat stress in Poultry.	Poultry	The recommended technology found compatible with farmers practice & recommended for farming situations.	This technology should be spread by the Dept. personnel between farming community	Body weight gain 805 gm/90days	Body weight gain 913.33 gm/90days	Body weight gain 970 gm/90days
SEHORE	2019	Kharif	Low milk yield of buffalo during summ	Assessment of Bajra + Cowpea (Green Fodder) on producti	Assessment	Dry fodder @ 5 kg + concentrate feed @ 2 kg/	Dry fodder @ 4 kg + green fodder (Bajra) @ 10 Kg + concentrate feed @ 2	Dry fodder @ 4 kg + green fodder (Bajra + cow pea) @ 10 Kg + concentrate feed @ 2 kg for	Animal Feed/ Fodder Management	05	05	-	June, 2019	Sep, 2019	IGFRI, Jhansi	Bajra + Cowpea will supplement additional protein	Dairy	The recommended technology found compatible with farmers practice &	This technology should be spread by the Dept. personnel between	Milk Yield lit/day/ animal (3	Milk Yield lit/day/ animal (3	Milk Yield lit/day/ animal

KVK name	Year	Season	Problem diagnose	Title of OFT	Category of technology (Assessment/ Refinement)	Name of Technology/Variety used			Thematic Area	No. of Trials	No. of Farmers involved	Farming Situations	Date of Sowing	Date of Harvesting	Source of technology	Characteristic of technology	Name of Crop/ Enterprises	Recommendation of farmers	Recommendation of Deptt. Personal	Results (q./ha)		
						T1	T2	T3												FP (T_1)	RP (T_2)	T3
			er season	on performance of lactating buffalo in summer season		day/ buffalo	kg for maintenance & 1 Kg for every 2.5 Lit milk production	maintenance & 1 Kg for every 2.5 Lit milk production										recommended for farming situations.	farming community	months) 5.54	months) 6.06	(3 months) 6.43
SEHORE	2019	Winter	Low milk yield from cow due to less absorption of minerals	Assessment of chelated minerals supplement on milk yield of cow	Asssessment	Imbalance use of mineral as supplement	50 gm plane minerals & vitamins supplement/cow /day	30 gm chelated minerals & vitamins supplement/cow /day	Animal Nutrition management	10	10	-	Oct, 2019	Jan, 2020	NDRI Karnal	Increase minerals use efficiency	Dairy	In Progress				
SEHORE	2019	Round the year	Low return from milch animals	Assessment of round the year green fodder production & use of cow dung as Vermi compost	Assessment	Use of green fodder up to 8 months	Use of green fodder Round the year	Use of green fodder Round the year + Vermicomposting from Cow dung .	Livestock production & management	10	10	-	April, 2019	March, 2020	Innovative approach of KVK Sehore	Increase return and generate employment	Dairy	In Progress				
SEHORE	2018-19	Rabi	Low yield & poor quality of cabbage and cauliflower	Assessment of Integrated Management of diamond Black Mouth in Cabbage and cauliflower	Assesment	Farmers Practice (No use of correct pesticide at correct stage)	Chemical Control (Use of chemicals at correct stage)	Integrated Management	H&VC	10	Cabbage & Cauliflower	Irrigated	Oct. 2018	Feb. 2019	IIHR, Banglore	Use of Mustard as trap crop (10:1) - Use of Neem Oil @ 35 & 65 days - Use of Pheromone Traps@25 /ha. - Reduce in chemical pesticide up to 80%	Cabbage & Cauliflower	This technology is appropriate with farming situation and farmer convenience for adoption	This technology have to be spread by the Dept. personnel between farming community	168.0	215.0	232.0

KVK name	Year	Season	Problem diagnose	Title of OFT	Category of technology (Assessment/ Refinement)	Name of Technology/Variety used			Thematic Area	No. of Trials	No. of Farmers involved	Farming Situations	Date of Sowing	Date of Harvesting	Source of technology	Characteristic of technology	Name of Crop/ Enterprises	Recommendation of farmers	Recommendation of Deptt. Personal	Results (q./ha)		
						T1	T2	T3												FP (T_1)	RP (T_2)	T3
SEHORE	2018-19	Rabi	Low yield of Tomato and higher production cost.	Assessment of Tomato Hybrid Arka Rakshak.	Assessment	Farmers Practice (Local Hybrids)	Hybrid Arka Samrat	Hybrid Arka Rakshak	H&VC	Vegetable	Tomato	Irrigated	July 2018	March 2019	IIHR, Bangalore	- High yielding F1 Hybrid - Triple disease resistance (TOLCV +BW+EB) - Fruit weight 90-100 gm. - Yield 700 -800 (q./ha.) in 140 days	Onion	This technology is appropriate with farming situation and farmer convenience for adoption	This technology have to be spread by the Dept. personnel between farming community	632.0	781.0	796.0
SEHORE	2019	Kharif	Low yield of Kharif onion due to high intensity of weeds	Assessment of IWM Technology in Kharif Onion	Assessment	Farmers Practice – (Two hand weeding)	Pre emergence weedicide (Pendimethline) & one hand weeding	Pre emergence weedicide (Pendimethline) + Post emergence(Oxiflorefane) weedicide & one hand weeding at 35-40 DAT	H&Vsc. (Horticulture & Vegetable crops)	05	05	Irrigated	May-2019	October-2019	DOGR, Pune	Control of Narrow & Broad leaves weeds	Onion	This technology is appropriate with farming situation and farmer convenience for adoption	This technology have to be spread by the Dept. personnel between farming community	148	158	182
SEHORE	2019-20	Kharif, Rabi & Zaid	Low income of small and medium farmers.	Assessment of Integrated Farming System Approach for Doubling income for farmers Income of small farmers.	Assessment	Farmers Practice (Existing Farming System)	Integrated Farming System	-	Income Generation	05	05	-	May - 2019	March - 2020	IIFSR, Modipuram ,Meerut	Increase in Sources of income, Employment generation	Enterprises	In Progress				

KVK name	Year	Season	Problem diagnose	Title of OFT	Category of technology (Assessment/ Refinement)	Name of Technology/Variety used			Thematic Area	No. of Trials	No. of Farmers involved	Farming Situations	Date of Sowing	Date of Harvesting	Source of technology	Characteristic of technology	Name of Crop/ Enterprises	Recommendation of farmers	Recommendation of Deptt. Personal	Results (q./ha)		
						T1	T2	T3												FP (T_1)	RP (T_2)	T3
SEHORE	2019-20	Rabi	Low yield & poor quality of cabbage and cauliflower	Assessment of Integrated Management of Diamond Back Moth in Cabbage and cauliflower.	Assessment	No use of correct pesticide at correct stage	Chemical Control (Use of chemicals at correct stage)	Integrated Management Use of Mustard as trap crop (10:1) Use of Neem Oil Use of Pheromone Traps Need based application of Chemical	H&VSc.	05	05	Irrigated	October-2019	Feb-2020	IIHR, Bangalore	Use of Mustard as trap crop (10:1) - Use of Neem Oil @ 35 & 65 days - Use of Pheromone Traps@25 /ha. - Reduce in chemical pesticide up to 80%	Cabbage and cauliflower	In Progress				
SEHORE	2018-19	Rabi	Low yield of chick pea crop due to imbalance use of plant nutrients	Assessment of INM in chickpea	Assessment	Imbalance use of plant nutrient (09:23:0 kg/ha NP&K)	RDF as per STV (20:60:20 NPK kg/ha)	STCR (Targeted yield 20q/ha) + seed inoculation with Rhizobium + PSB @5 g/kg seed each	INM	10	10	Irrigated	28 oct, 2018	27 Feb,2019	IISS, Bhopal	Integration with chemical fertilizer and Bio fertilizer increase crop yield	Chick pea	The technology was found compatible with farmer practices and recommendation for micro level situation	Technology found more effectively but it was more testing require for analysis of data.	12.34	14.92	15.39
SEHORE	2018-19	Rabi	Low yield of onion due to mbalance use of plant nutrient (80:40:00 NPK kg./ha.)	Assessment of Nutrient Management in onion crop	Assessment	Farmer Practices imbalance use of plant nutrient 80:45:00 kg/ha NPK	RDF as per STV+ 40 kg/ha sulphur of the time of transplanting	RDF as per STV+ 40 kg/ha + foliar spray of 18:18:18 @ 2.5 kg/ha as 30 DAT + 13:00:45 @ 2.5 kg/ha at 75 DAT	SFM	10	10	Irrigated	27 Oct, 2018	05 March, 2019	NHRDF	Balance use of plant nutrient and use of water soluble fertilizer	Onion	Nuttrient management in onion crop was found more effective over farmer practices and recommendation for micro level situation	Technology found best for onion grower but it was more testing require for analysis of data	193.75	237.75	240.75

KVK name	Year	Season	Problem diagnose	Title of OFT	Category of technology (Assessment/ Refinement)	Name of Technology/Variety used			Thematic Area	No. of Trials	No. of Farmers involved	Farming Situations	Date of Sowing	Date of Harvesting	Source of technology	Characteristic of technology	Name of Crop/ Enterprises	Recommendation of farmers	Recommendation of Deptt. Personal	Results (q./ha)		
						T1	T2	T3												FP (T_1)	RP (T_2)	T3
SEHORE	2018-19	Rabi	Low quality of organic manure and more time require	Assessment of Bio-waste decomposer for quality organic product to enhance soil health	Assessment	Dumping the farm waste and residue in pits exposed to extreme weather condition s	Use of Bio-waste decomposer. (Consortium of microbes)	-	NRM	10	10	Irrigated	11 Nov, 2018	12 March, 2019	National centre of organic farming, Ghaziabad	Composting for quality man use and time saving	Enterprises	Technology was found more effective compatible with farmer practices & recommendation for micro level situation	Technology was found more effective, recommendation for demonstration but it was 1 year OFT more testing require for analysis of data	1800	3600	-
SEHORE	2019-20	Kharif & Rabi	Low yield due to imbalance use of plant nutrient in soybean-chickpea cropping system.	Assessment of Integrated Nutrient Management in Soybean-Chickpea Cropping System.-	Assessment	Imbalance use of Fertilizer (09:23:00 NPK kg/ha)	2 t/ha FYM and 100 % RDF in Soybean and 50 % RDF in Chickpea.	-	INM	10	10	Irrigated	Soybean 10 July, 2019	Soybean 12 Oct, 2019	IISS, Bhopal	Balance use of Plant Nutrient through INM in Soybean Chickpea cropping system, Increase yield and quality and reduce input cost.	Soybean-Chickpea	-	-	Soybean 8.99	Soybean 10.55	-
													Chickpea 12 Oct. 2019	-						Chickpea In Progress		
SEHORE	2019	Kharif	Low quality of organic manure and more time require	Assessment of Bio-waste decomposer for quality organic product to enhance soil health	Assessment	Dumping the farm waste and residue in pits exposed to extreme weather condition	Use of Bio-waste decomposer. (Consortium of microbes)	-	NRM	10	10	Irrigated	July, 2019	December, 2019	National centre of organic farming, Ghaziabad	Composting for quality man use and time saving	Enterprises	Technology was found more effective compatible with farmer practices & recommendation for micro level situation	Technology was found more effective , recommended for demonstration	Rs. 1700	Rs. 3400	-

KVK name	Year	Season	Problem diagnose	Title of OFT	Category of technology (Assessment/ Refinement)	Name of Technology/Variety used			Thematic Area	No. of Trials	No. of Farmers involved	Farming Situations	Date of Sowing	Date of Harvesting	Source of technology	Characteristic of technology	Name of Crop/ Enterprises	Recommendation of farmers	Recommendation of Deptt. Personal	Results (q./ha)		
						T1	T2	T3												FP (T_1)	RP (T_2)	T3
SEHORE	2019	Rabi	Low yield of chickpea crop due to imbalance use of plant nutrients	Assessment of INM in chickpea	Assessment	Imbalance use of plant nutrient (09:23:0 kg/ha NP&K)	RDF as per STV (20:60:20 NPK kg/ha)	STCR (Targeted yield 20q/ha) + seed inoculation with Rhizobium + PSB @5 g/kg seed each	INM	05	05	Irrigated	10 Oct, 2019	-	IISS, Bhopal	Integration with chemical fertilizer and Bio fertilizer increase crop yield	Chick pea	In Progress				
SEHORE	2019	Rabi	Low yield of Garlic crop due to no use of micro nutrient	Assessment of Micron utrient on yield and quality of Garlic crop	Assessment	Farmer practice (No. foliar spray of micro nutrients)	Foliar spray of zinc sulphate @ 3 g/l at 30,60 and 90 DAP	-	SFM	10	10	Irrigated	23 Oct, 2019	-	IIHR Bangalore	Foliar spray of vegetable micro nutrient mixture	Garlic	In Progress				
SEHORE	2019	Rabi	Low yield of Onion crop due to imbalance use of Plant nutrient	Assessment of nutrient management in Onion Crop	Assessment	Farmer practice imbalance use of Plant nutrient 80:40:00 kg/ha NPK	RDF as per STV+ 40 kg/ha sulphur at the time of transplanting	RDF as per STV + 40 kg/ha sulphur with time of transplanting + foliar spray of 18:18:18 @ 2.5 kg/ha at 30 DAT + foliar spray NPK 12:00:45 @ 2.5 kg/ha 75 DAT	SFM	05	05	Irrigated	29 Dec, 2019	-	NHRDF, Nasik	Balance use of plant nutrient and use of water soluble fertilizer	Onion	In Progress				

SEH ORE	20 19	Khar if	Lack of knowl edge and adopti on of soil health card based fertili zer applic ation.	Assessm ent of Adoption of Soil health card based fertilizer applicati on in soybean crop.	Asses sment	Non users of soil health card.	General Soil health card user	Soil health card with consultation of KVK	Soil Health Card	60	60	-	03 July, 2019	17Oct. 2019		Use of fertilizer application based on soil health card in Soybean crop	Soybea n	Technology tested are found appropriate with farmer practice & recommend for micro level situation	This technology have to be spread by the Dept. personnel between farm ring community	10.62	12.0 6	14. 25
SEH ORE	20 19	Rabi	Lack of timely disse minati on of agricu ltural messa ge	Assessm ent on effective use of different informati on source for producti on technolo gy of Onion and Garlic	Asses sment	Non users	Printed literature onion & garlic	Use of electronic media (whatsapp) for onion & garlic production technology	ICT	60	60	-	15 , oct, 19	-	-	Use of electronic media (Whatsapp) for onion & Garlic production technology	Onion & Garlic	Awaited	Awaited	Awaited		

2.1 Information about OFT: 1 (Crop Production):

Title of on-farm trial:	Assessment of Wheat variety HI-1605 (Pusa Ujala) under restricted irrigation condition (02 irrigations)
Year/Season:	2018-19 Rabi
Farming situation:	Restricted Irrigated
Problem diagnosis:	Low yield of wheat due to existing varieties in under restricted irrigation condition
Thematic area:	CMP
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of wheat variety Lok-1
T2 –Recommended Practice-	Use of Wheat variety HI- 1544
T3- Recommended Practice-	Use of Wheat variety HI- 1605 (Pusa Ujala)
Date of sowing:	24 Oct, 2018
Date of harvesting	01 march, 2019
Source of technology:	IARI, Indore
Characteristics of technology:	Erect ,semi tall, *aestivum* wheat , good for chapati
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	This technology is appropriate with farming situation and farmer convenience for adoption.
Recommendations for Deptt. Personnel	This technology has to be spread by the Dept. personnel between farm ring community.
Feedback	HI- 1605 have specific character is not lodging, Higher yield as compare to other variety. Farmers are prepare to sowing the PUSA UJALA under limited irrigation

Result : (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	No. of Effective tillers	Per plant	25283	63235	37951	2.50
	No. of Kernal	Per ear				
	Test Weight	gram				
	Yield	Qtl/ha				
T2(Recommended Practice)	No. of Effective tillers	Per plant	25483	76615	51131	3.01
	No. of Kernal	Per ear				
	Test Weight	gram				
	Yield	Qtl/ha				
T3(Recommended Practice)	No. of Effective tillers	Per plant	25080	86743	61659	3.46
	No. of Kernal	Per ear				
	Test Weight	gram				
	Yield	Qtl/ha				

2.1 Information about OFT: 2 (Crop Production):

Title of on-farm trial:	Assessment of maize variety Pratap Hybrid Maize-3 in kharif season
Year/Season:	Kharif 2019
Farming situation:	Rainfed
Problem diagnosis:	Low yield of maize due to use of old and impotent varieties
Thematic area:	CMP
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Use of Local Variety - Sathi Makka
T2 –Recommended Practice-	Maize Var. Hybrid. PAC 740
T3- Recommended Practice-	Maize, Var. Pratap Hybrid Maize-3
Date of sowing:	03 july,2019
Date of harvesting	028 Sept, 2019
Source of technology:	Maharana Pratap University of Agriculture & Technology Udaipur, Rajasthan
Characteristics of technology:	The hybrid variety PHM-3 has grain yield potential of 55-60 q/ha. with maturity duration of 84-88 days. It has stay green fodder at the time of harvesting.
Name of Crop/Enterprises:	Maize
Recommendations for Farmers	This technology is appropriate with farming situation and farmer convenience for adoption.
Recommendations for Deptt. Personnel	This technology has to be spread by the Dept. personnel between farm ring community.
Feedback	Pratap Hybrid Maize short duration variety mature at 85-90 days as compare to other varieties of Maize

Result : (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	No. of Cobs	Per plant	24624	42065	17441	1.71
	No. of grains	Per cob				
	Test Weight	gram				
	Yield	Qtl/ha				
T2(Recommended Practice)	No. of Cobs	Per plant	25824	47299	22474	1.91
	No. of grains	Per cob				
	Test Weight	gram				
	Yield	Qtl/ha				
T3(Recommended Practice)	No. of Cobs	Per plant	25599	53601	28002	2.09
	No. of grains	Per cob				
	Test Weight	gram				
	Yield	Qtl/ha				

2.1 Information about OFT: 3 (Crop Production):

Title of on-farm trial:	Assessment of Pre emergence herbicide diclosulam 84 % WDG @ 26 g/ha in soybean
Year/Season:	Kharif 2019-20
Farming situation:	Restricted Irrigated
Problem diagnosis:	Low yield of soybean due to heavy infestation of weeds at early stage.
Thematic area:	CMP
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Farmers Practice – Post emergence herbicide
T2 –Recommended Practice-	Pre emergence herbicide Pendimethalin 30 EC@ 1.liter / ha
T3- Recommended Practice-	Pre emergence herbicide **Diclosulam 84 % WDG** @ 26 g/ha
Date of sowing:	28 Jun, 2019
Date of harvesting	02 Oct, 2019
Source of technology:	Indian Institute of Soybean Research, Indore
Characteristics of technology:	Effective control of monocot and dicot weeds in soybean
Name of Crop/Enterprises:	Soybean
Recommendations for Farmers	This technology is appropriate with farming situation and farmer convenience for adoption.
Recommendations for Deptt. Personnel	This technology have to be spread by the Dept. personnel between farm ring community.
Feedback	The significantly weed control was observes under application of Diclosulam 84% @26 g/ha. as compare to post emergence herbicide

Result : (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	Weed Density	Per sqm	20965	28696	7731	1.37
	No. of Pods	Per plants				
	Test Weight	gram				
	Yield	Qtl/ha				
T2(Recommended Practice)	Weed Density	Per sqm	22430	39589	17159	1.77
	No. of Pods	Per plants				
	Test Weight	gram				
	Yield	Qtl/ha				
T3(Recommended Practice)	Weed Density	Per sqm	23509	48613	25104	2.07
	No. of Pods	Per plants				
	Test Weight	gram				
	Yield	Qtl/ha				

2.1 Information about OFT: 4 (Crop Production):

Title of on-farm trial:	Assessment of Wheat variety HI 8759 (Pusa Tejus) in irrigated Condition.
Year/Season:	Rabi 2019
Farming situation:	Irrigated
Problem diagnosis:	Low yield of wheat due to use of old and impotent varieties.
Thematic area:	CMP
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Farmers Practice – Wheat var Malavshakti
T2 –Recommended Practice-	Wheat Var. HI 8737 (Anmol).
T3- Recommended Practice-	Wheat var. HI 8759 (Pusa Tejus)
Date of sowing:	14 Nov, 2019
Date of harvesting	-
Source of technology:	IARI, Indore
Characteristics of technology:	Having a High level of rust resistance. It is a high durum wheat variety with an averagee yield of 57 q/ha and potential yield of 76 q/ha
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result : (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	No. of Effective tillers	Per plant	In Progress			
	No. of Kernal	Per ear				
	Test Weight	gram				
	Yield	Qtl/ha				
T2(Recommended Practice)	No. of Effective tillers	Per plant				
	No. of Kernal	Per ear				
	Test Weight	gram				
	Yield	Qtl/ha				
T3(Recommended Practice)	No. of Effective tillers	Per plant				
	No. of Kernal	Per ear				
	Test Weight	gram				
	Yield	Qtl/ha				

2.1 Information about OFT: 05 (Plant Protection)

Title of on-farm trial:	Assessment of IPM module for the management of termite in wheat under Rainfed condition
Year/Season:	Rabi – 2018-19
Farming situation:	Rainfed
Problem diagnosis:	Low yield of Wheat due to infestation of Termite (Average yield losses up to 10-15 %)
Thematic area:	PLP
No of trials:	10 Nos.
No. of farmers involved	10 Farmers
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Application of Chloropyriphos 20 EC at the time of infestation.
T2 –Recommended Practice-	SDP+Seed treatment with Fipronil 5% SC @ 5 ml/ Kg seed
T3- Recommended Practice-	Summer deep Ploughing +Seed treatment with Fipronil 5 % SC @ 5 ml/ Kg Seed + Soil treatment by Choloropyriphos @ 25 Kg/ ha
Date of sowing:	25 October-2018
Date of harvesting	05 March- 2019
Source of technology:	JNKVV, Jabalpur
Characteristics of technology:	Reduce Termite Infestation
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	This technology is appropriate with farming situation and farmer convenience for adoption
Recommendations for Deptt. Personnel	This technology have to be spread by the Dept. personnel between farm ring community
Feedback	The Farmers sown the result between farmer practice & Technology, according to farmers adopted technology.

Result : (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	Insect infestation	(%)	19480	69720	50240	3.58
T2(Recommended Practice)			20710	77550	56840	3.75
	Yield	(q/ha.)				
T3(Recommended Practice)			21540	82980	61440	3.86

2.1 Information about OFT: 06(Plant Protection)

Title of on-farm trial:	Assessment of IDM module for management of Yellow mosaic virus in green gram
Year/Season:	Zaid –2019
Farming situation:	Irrigated
Problem diagnosis:	Low yield of green gram due to incidence of yellow mosaic virus Area affected 10000 ha.
Thematic area:	PLP
No of trials:	10 Nos.
No. of farmers involved	10 Farmers
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Spray of insecticide at the time of incidence of disease
T2 –Recommended Practice-	SDP+ Resistant variety (PDM-139) + One spray of imidachloprid 17.8% SL @ 125 ml /ha
T3- Recommended Practice-	SDP+ Resistant variety + seed treatment with thiomethoxam 70ws @ 3 gm/ Kg seed + Yellow sticky trap + roughing out of infected plants at initial stage + Need based spray of systemic insecticide
Date of sowing:	28 March-2019
Date of harvesting	30 May- 2019
Source of technology:	JNKVV, Jabalpur
Characteristics of technology:	Reduce disease incidence
Name of Crop/Enterprises:	Green Gram
Recommendations for Farmers	This technology is appropriate with farming situation and farmer convenience for adoption
Recommendations for Deptt. Personnel	This technology have to be spread by the Dept. personnel between farm ring community
Feedback	The Farmers had shown the result between farmer practice & Technology, according to farmers adopted technology.

Result : (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	Disease Incidence	(%)	17250	39600	22350	2.29
T2(Recommended Practice)	Yield	(q/ha.)	18280	47300	29020	2.58
T3(Recommended Practice)			20200	53900	33700	2.66

2.1 Information about OFT: 07 (Plant Protection)

Title of on-farm trial:	Assessment of IDM module for the management of Leaf Curl virus disease in Tomato.
Year/Season:	Kharif, 2019
Farming situation:	Irrigated
Problem diagnosis:	Low yield of Tomato due to heavy incidence of leaf curl virus disease.
Thematic area:	PLP
No of trials:	10 Nos.
No. of farmers involved	10Farmers
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Application of Insecticide.
T2 –Recommended Practice-	SDP +Optimum Planting Distance, Resistance Variety + Seedling Treatment Imidachloropide 70WS and Need based Application of Insecticide.
T3- Recommended Practice-	SDP +Optimum seed rate (75 -100 g/ ha) +Yellow Sticky trap 25 no/ha + Need based spray of Flonicamid 50WG @ 175g/ha
Date of sowing:	05 June -2019
Date of harvesting	30 September- 2019
Source of technology:	NCIPM, New Delhi
Characteristics of technology:	Reduce Vector population in Tomato Crop.
Name of Crop/Enterprises:	Tomato
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result : (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	Infestation	(%)	Crop loss due to continuous heavy rainfall			
T2(Recommended Practice)	Yield	(q/ha.)				
T3(Recommended Practice)						

2.1 Information about OFT: 08 (Plant Protection)

Title of on-farm trial:	Assessment of IPM module for the management of fruit fly in cucurbits (Bottle gourd & Pumpkin)
Year/Season:	Kharif- 2019
Farming situation:	Irrigated
Problem diagnosis:	Low & poor quality yield of cucurbits due to infestation of fruit fly (Av. Yield losses up to 12-15 %)
Thematic area:	PLP
No of trials:	05 Nos.
No. of farmers involved	05 Farmers
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Spray of Insecticides at the time of Infestation.
T2 –Recommended Practice-	SDP + Recommended dose of Nitrogen + Need based spray of indoxacarb @ 0.75 ml/ lit of water .
T3- Recommended Practice-	SDP + Recommended dose of Nitrogen + poison baiting (1 Kg crush pumpkin +100 gm jaggery + 10 ml malathion) +removal of Infected Fruits+ Need based spray of indoxacarb @ 0.75 ml/ lit) of water .
Date of sowing:	13 July-2019
Date of harvesting	30 September – 2019
Source of technology:	NICPM, New Delhi
Characteristics of technology:	Reduce fruit fly infestation, Improve quality, Increase in Yield.
Name of Crop/Enterprises:	Bottle Guard
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result : (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	Infestation	(%)	Crop loss due to continuous heavy rainfall			
T2(Recommended Practice)	Yield	(q/ha.)				
T3(Recommended Practice)						

2.1 Information about OFT: 09 (Plant Protection)

Title of on-farm trial:	Assessment of IPM module for the management of gram pod borer in chickpea
Year/Season:	Rabi – 2019-20
Farming situation:	Rainfed
Problem diagnosis:	– Low yield of chickpea due to infestation of gram pod borer (Average yield losses up to 15-20%)
Thematic area:	PLP
No of trials:	05 Nos.
No. of farmers involved	05 Farmers
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Application of insecticides
T2 –Recommended Practice-	SDP+ resistance variety +optimum seed rate (75kg/ha)+mix 5g rabi sorghum seed with chickpea seed/bird percher 20/ha+ *Bacillus thuringiensis var. Kurstaki* 1kg/ha+need based application of Emmamectin benzoate 5%SG 220 g/ha
T3- Recommended Practice-	SDP+Resistance variety+Optimum seed rate (75kg/ha)+Mix 5g rabi sorghum seed with chickpea seed/bird percher 20/ha+light trap 1 /acre+pheromone trap 10/ha+*Bacillus thuringiensis var. Kurstaki* 1kg/ha+ Need based application of emmamectin benzoate 5%SG 220 g/ha
Date of sowing:	01 November – 2019
Date of harvesting	-
Source of technology:	ICAR, NCIPM, New Delhi
Characteristics of technology:	Reduce the insect infestation
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result : (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	Infestation	(%)	In Progress			
T2(Recommended Practice)	Yeiald	(q/ha.)				
T3(Recommended Practice)						

2.1 Information about OFT: 10 (Plant Protection)

Title of on-farm trial:	Assessment of IDM module for the management of stemphylium blight and Purple Blotch in Garlic
Year/Season:	Rabi – 2019-20
Farming situation:	Irrigated
Problem diagnosis:	Low yield of garlic due to incidence of stemphylium blight and Purple Blotch (Average yield losses up to 15-20%)
Thematic area:	PLP
No of trials:	05 Nos.
No. of farmers involved	05 Farmers
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Application of Fungicides
T2 –Recommended Practice-	Foliar application Mancozeb @ 025 % at 30, 60 and 90 DAP
T3- Recommended Practice-	Soil app. of Pseudomonas fluorescens @ 5 kg/ha + foliar spray Cabriotop (pyraclostrobin+metiram) @ 0.25 % at 30,60 and 90 DAP.
Date of sowing:	25 October- 2019
Date of harvesting	-
Source of technology:	ICAR-IIHR, Bangalore
Characteristics of technology:	Reduce diseases incidence
Name of Crop/Enterprises:	Garlic
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result : (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	Infestation	(%)	In Progress			
T2(Recommended Practice)	Yield	(q/ha.)				
T3(Recommended Practice)						

2.1 Information about OFT: 11 (Vet. Science)

Title of on-farm trial:	Assessment of Electrolytes to manage heat stress condition in poultry (White leg horn)
Year/Season:	2019 /Summer
Farming situation:	-
Problem diagnosis:	Low body weight gain & less egg production due to heat stress
Thematic area:	Poultry production and Management
No of trials:	06
No. of farmers involved	06
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Feeding concentrate + watering
T2 –Recommended Practice-	Feeding concentrate with aonla powder @ 2 gm / lit of water
T3- Recommended Practice-	Feeding concentrate with electrolyte @ 0.5 gm / lit of water
Date of sowing:	April, 2019
Date of harvesting	July, 2019
Source of technology:	IVRI, Izzatnagar
Characteristics of technology:	Electrolytes reduced Heat stress in Poultry.
Name of Crop/Enterprises:	Poultry
Recommendations for Farmers	The recommended technology found compatible with farmers practice & recommended for farming situations.
Recommendations for Deptt. Personnel	This technology should be spread by the Dept. personnel between farming community.
Feedback	Farmers were involved actively in each activity. They observed more weight gain and less mortality in recommended practices.

Result : (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/bird) 90 days	Average Gross Return (Rs/bird) 90 days	Average Net Return (Rs/bird) 90 days	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	Body weight gain	gram	174	241.42	67.5	1.39
T2(Recommended Practice)	Body weight gain	gram	183	274	91	1.50
T3(Recommended Practice)	Body weight gain	gram	176	291	115	1.65

2.1 Information about OFT: 12 (Vet. Science)

Title of on-farm trial:	Assessment of Bajra + Cowpea (Green Fodder) on production performance of lactating buffalo in summer season
Year/Season:	Kharif -2019
Farming situation:	-
Problem diagnosis:	Low milk yield of buffalo during summer season
Thematic area:	Animal Feed/ Fodder Management
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Dry fodder @ 5 kg + concentrate feed @ 2 kg/ day/ buffalo
T2 –Recommended Practice-	Dry fodder @ 4 kg + green fodder (Bajra) @ 10 Kg + concentrate feed @ 2 kg for maintenance & 1 Kg for every 2.5 Lit milk production
T3- Recommended Practice-	Dry fodder @ 4 kg + green fodder (Bajra + cow pea) @ 10 Kg + concentrate feed @ 2 kg for maintenance & 1 Kg for every 2.5 Lit milk production
Date of sowing:	June, 2019
Date of harvesting	Sep, 2019
Source of technology:	IGFRI, Jhansi
Characteristics of technology:	Bajra + Cowpea will supplement additional protein
Name of Crop/Enterprises:	Dairy
Recommendations for Farmers	The recommended technology found compatible with farmers practice & recommended for farming situations.
Recommendations for Deptt. Personnel	This technology should be spread by the Dept. personnel between farming community.
Feedback	Farmers were actively involved in each activity from start to completion of demonstration , they observed increase in milk yield and improvement in animal health.

Result : (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/Animal) 90 days	Average Gross Return (Rs/Animal) 90 days	Average Net Return (Rs/Animal) 90 days	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	Milk yield	Lit/day/animal	12420	18946.8	6526.8	1.53
T2(Recommended Practice)	Milk yield	Lit/day/animal	12060	20725.2	8701.2	1.72
T3(Recommended Practice)	Milk yield	Lit/day/animal	12510	22004.28	9494.28	1.76

2.1 Information about OFT: 13 (Vet. Science)

Title of on-farm trial:	Assessment of chelated minerals supplement on milk yield of cow
Year/Season:	Winter
Farming situation:	-
Problem diagnosis:	Low milk yield from cow due to less absorption of minerals
Thematic area:	Animal Nutrition management
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
T1 – Farmers Practice-	Imbalance use of mineral as supplement
T2 –Recommended Practice-	50 gm plane minerals & vitamins supplement/cow /day
T3- Recommended Practice-	30 gm chelated minerals & vitamins supplement/cow /day
Date of sowing:	Oct, 2019
Date of harvesting	Jan, 2020
Source of technology:	NDRI Karnal
Characteristics of technology:	Increase minerals use efficiency
Name of Crop/Enterprises:	Dairy
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result : (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/Animal) 90 days	Average Gross Return (Rs/Animal) 90 days	Average Net Return (Rs/Animal) 90 days	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	Milk yield	Lit/day/animal	In Progress			
T2(Recommended Practice)	Milk yield	Lit/day/animal				
T3(Recommended Practice)	Milk yield	Lit/day/animal				

2.1 Information about OFT: 14 (Vet. Science)

Title of on-farm trial:	Assessment of round the year green fodder production & use of cow dung as Vermi compost
Year/Season:	Round the year
Farming situation:	Kharif , Rabi & Summer 2019
Problem diagnosis:	Low return from milch animals
Thematic area:	Livestock production & management
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
T1 – Farmers Practice-	Use of green fodder up to 8 months
T2 –Recommended Practice-	Use of green fodder Round the year
T3- Recommended Practice-	Use of green fodder Round the year + Vermi composting from Cow dung.
Date of sowing:	April, 2019
Date of harvesting	March, 2020
Source of technology:	Innovative approach of KVK Sehore
Characteristics of technology:	Increase return and generate employment
Name of Crop/Enterprises:	Enterprise (Dairy)
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result : (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/Animal) 90 days	Average Gross Return (Rs/Animal) 90 days	Average Net Return (Rs/Animal) 90 days	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	Milk yield Availability of Green fodder	Lit/day/animal q/year	In Progress			
T2(Recommended Practice)						
T3(Recommended Practice)						

2.1 Information about OFT: 15 (Horticulture)

Title of on-farm trial:	Assessment of Integrated Management of Diamond Back Moth in Cabbage and cauliflower.
Year/Season:	Rabi 2018-19
Farming situation:	Irrigated
Problem diagnosis:	Low yield & poor quality of cabbage and cauliflower
Thematic area:	H&Vc.
No of trials:	05 Nos.
No. of farmers involved	05 Farmers
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use of correct pesticide at correct stage
T2 –Recommended Practice-	Chemical Control (Use of chemical s at correct stage)
T3- Recommended Practice-	Integrated Management Use of Mustard as trap crop (10:1) Use of Neem Oil Use of Pheromone Traps Need based application of Chemical
Date of sowing:	October-2018
Date of harvesting	March- 2019
Source of technology:	IIHR, Bangalore
Characteristics of technology:	Use of Mustard as trap crop (10:1) - Use of Neem Oil @ 35 & 65 days - Use of Pheromone Traps@25 /ha. - Reduce in chemical pesticide up to 80%
Name of Crop/Enterprises:	Cabbage & Cauliflower vegetables
Recommendations for Farmers	This technology is appropriate with farming situation and farmer convenience for adoption
Recommendations for Deptt. Personnel	This technology have to be spread by the Dept. personnel between farm ring community
Feedback	The Farmers had sown the result between farmer practice & Technology, according to farmers adopted technology.

Result : (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	Yield	(q/ha.)	62000	134400	72400	2.16
T2(Recommended Practice)			65000	182750	117750	2.81
T3(Recommended Practice)			60000	208800	148800	3.48

2.1 Information about OFT: 16 (Horticulture)

Title of on-farm trial:	Assessment of Tomato Hybrid Arka Rakshak.
Year/Season:	Rabi – 2018-19
Farming situation:	Irrigated
Problem diagnosis:	Low yield of Tomato and higher production cost.
Thematic area:	H&Vc.
No of trials:	05 Nos.
No. of farmers involved	05 Farmers
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Local Hybrids
T2 –Recommended Practice-	Hybrid Arka Samrat
T3- Recommended Practice-	Hybrid Arka Rakshak
Date of sowing:	July-2018
Date of harvesting	March- 2019
Source of technology:	IIHR, Banglore
Characteristics of technology:	- High yielding F1 Hybrid - Triple disease resistance (TOLCV +BW+EB) - Fruit weight 90-100 gm. - Yield 700 -800 (q./ha.) in 140 days
Name of Crop/Enterprises:	Tomato
Recommendations for Farmers	This technology is appropriate with farming situation and farmer convenience for adoption
Recommendations for Deptt. Personnel	This technology have to be spread by the Dept. personnel between farm ring community
Feedback	The Farmers had sown the result between farmer practice & Technology, according to farmers adopted technology.

Result : (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	Yield	(q/ha.)	130600	409800	279200	3.13
T2(Recommended Practice)			154300	542425	388125	3.51
T3(Recommended Practice)			158700	576200	417500	3.63

2.1 Information about OFT: 17 (Horticulture)

Title of on-farm trial:	Assessment of IWM Technology in Kharif Onion
Year/Season:	Kharif, 2019
Farming situation:	Irrigated
Problem diagnosis:	Low yield of Kharif onion due to high intensity of weeds
Thematic area:	H&Vc.
No of trials:	05 Nos.
No. of farmers involved	05 Farmers
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Farmers Practice – (Two hand weeding
T2 –Recommended Practice-	Pre emergence weedicide (Pendimethline) & one hand weeding
T3- Recommended Practice-	Pre emergence weedicide (Pendimethline) + Post emergence(Oxiflorefane) weedicide & one hand weeding at 35-40 DAT
Date of sowing:	May -2019
Date of harvesting	October- 2019
Source of technology:	DOGR, Pune
Characteristics of technology:	Control of Narrow & Broad leaves weeds
Name of Crop/Enterprises:	Onion
Recommendations for Farmers	This technology is appropriate with farming situation and farmer convenience for adoption
Recommendations for Deptt. Personnel	This technology have to be spread by the Dept. personnel between farm ring community
Feedback	The Farmers had sown the result between farmer practice & Technology, according to farmers adopted technology.

Result : (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	Weed Density Yield	m^2 q/ha.	50300	147800	97500	2.94
T2(Recommended Practice)			48800	158000	109200	3.24
T3(Recommended Practice)			49300	181800	132500	3.69

2.1 Information about OFT: 18 (Horticulture)

Title of on-farm trial:	Assessment of Integrated Farming System approach for Doubling farmer's income of small farmers.
Year/Season:	Kharif, Rabi & Zaid 2019-20
Farming situation:	Irrigated
Problem diagnosis:	Low income of small & medium farmers.
Thematic area:	Income generation.
No of trials:	05 Nos.
No. of farmers involved	05 Farmers
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Crop + Animal Husbandary
T2 –Recommended Practice-	Integrated farming system(Crop + Animal Husbandry + Horticulture + Enterprise)
T3- Recommended Practice-	-
Date of sowing:	May -2019
Date of harvesting	March- 2020
Source of technology:	IIFSR, Modipuram ,Meerut
Characteristics of technology:	Increase in Sources of income, Employment generation.
Name of Crop/Enterprises:	Enterprises
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result : (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)			In Progress			
T2(Recommended Practice)						
T3(Recommended Practice)						

2.1 Information about OFT: 19 (Horticulture)

Title of on-farm trial:	Assessment of Integrated Management of Diamond Back Moth in Cabbage and cauliflower.
Year/Season:	Rabi – 2019-20
Farming situation:	Irrigated
Problem diagnosis:	Low yield & poor quality of cabbage and cauliflower
Thematic area:	H& vc.
No of trials:	05 Nos.
No. of farmers involved	05 Farmers
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	No use of correct pesticide at correct stage
T2 –Recommended Practice-	Chemical Control (Use of chemical s at correct stage)
T3- Recommended Practice-	Integrated Management Use of Mustard as trap crop (10:1) Use of Neem Oil Use of Pheromone Traps & Need based application of Chemical
Date of sowing:	October- 2019
Date of harvesting	Feb. - 2020
Source of technology:	IIHR, Bangalore
Characteristics of technology:	Use of Mustard as trap crop (10:1) - Use of Neem Oil @ 35 & 65 days - Use of Pheromone Traps@25 /ha. - Reduce in chemical pesticide up to 80%
Name of Crop/Enterprises:	Cabbage and cauliflower
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result : (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	Yield	(q/ha.)	In Progress			
T2(Recommended Practice)						
T3(Recommended Practice)						

2.1 Information about OFT: 20 (Soil Science) -

Title of on-farm trial:	Assessment of INM in chickpea
Year/Season:	2018/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield of chickpea crop due to imbalance use of plant nutrients
Thematic area:	INM
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Imbalance use of plant nutrient (09:23:0 kg/ha NP& K)
T2 –Recommended Practice-	RDF as per STV (20:60:20 NPK kg/ha)
T3- Recommended Practice-	STCR (Targeted yield 20q/ha) + seed inoculation with Rhizobium + PSB @5 g/kg seed each
Date of sowing:	28 oct, 2018
Date of harvesting:	27 Feb,2019
Source of technology:	IISS, Bhopal
Characteristics of technology:	Integration with chemical fertilizer and Bio fertilizer increase crop yield
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	The technology was found compatible with farmer practices and recommendation for micro level situation
Recommendations for Deptt. Personnel	Technology found more effectively but it was more testing require for analysis of data.
Feedback	The Farmers had shown the result between farmer practice & Technology, according to farmers adopted technology.

Result : (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	No. of Pods	Per plant	23630	54283.30	30653.30	2.30
	No. of Grains	Per pod				
	Test weight	Gram				
	Yield	qtl/ha				
T2(Recommended Practice)	No. of Pods	Per plant	24880	65626.76	40746.76	2.64
	No. of Grains	Per pod				
	Test weight	Gram				
	Yield	qtl/ha				
T3(Recommended Practice)	No. of Pods	Per plant	25180	67737.68	42557.68	2.69
	No. of Grains	Per pod				
	Test weight	Gram				
	Yield	qtl/ha				

2.1 Information about OFT: 21 (Soil Science) -

Title of on-farm trial:	Assessment of Nutrient Management in onion crop
Year/Season:	2018-19/ Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield of onion due to imbalance use of plant nutrient (80:40:00 NPK kg./ha.)
Thematic area:	SFM
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Farmer Practices imbalance use of plant nutrient 80:45:00 kg/ha NPK
T2 –Recommended Practice-	RDF as per STV+ 40 kg/ha sulphur of the time of transplanting
T3- Recommended Practice-	RDF as per STV+ 40 kg/ha + foliar spray of 18:18:18 @ 2.5 kg/ha as 30 DAT + 13:00:45 @ 2.5 kg/ha at 75 DAT
Date of sowing:	27 Oct, 2018
Date of harvesting:	05 March, 2019
Source of technology:	NHRDF
Characteristics of technology:	Balance use of plant nutrient and use of water soluble fertilizer
Name of Crop/Enterprises:	Onion
Recommendations for Farmers	Nutrient management in onion crop was found more effective over farmer practices and recommendation for micro level situation
Recommendations for Deptt. Personnel	Technology found best for onion grower but it was more testing require for analysis of data
Feedback	The Farmers had shown the result between farmer practice & Technology, according to farmers adopted technology.

Result : (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	No. of Bulb	M^2	67375	155000	87625	2.30
	Avg Bulb Weight	gram				
	Yield	qtl/ha				
T2(Recommended Practice)	No. of Bulb	M^2	70124	186200	116075	2.66
	Avg Bulb Weight	gram				
	Yield	qtl/ha				
T3(Recommended Practice)	No. of Bulb	M^2	71329	192600	121275	2.70
	Avg Bulb Weight	gram				
	Yield	qtl/ha				

2.1 Information about OFT: 22 (Soil Science) -

Title of on-farm trial:	Assessment of Bio-waste decomposer for quality organic product to enhance soil health
Year/Season:	2018-19/Rabi
Farming situation:	Irrigated
Problem diagnosis:	**Low quality of organic manure and more time require**
Thematic area:	NRM
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Dumping the farm waste and residue in pits exposed to extreme weather conditions
T2 –Recommended Practice-	Use of Bio-waste decomposer. (Consortium of microbes)
T3- Recommended Practice-	-
Date of sowing:	11 Nov, 2018
Date of harvesting:	12 March, 2019
Source of technology:	National centre of organic farming, Ghaziabad
Characteristics of technology:	Composting for quality man use and time saving
Name of Crop/Enterprises:	Enterprises
Recommendations for Farmers	Technology was found more effective compatible with farmer practices & recommendation for micro level situation
Recommendations for Deptt. Personnel	Technology was found more effective, recommendation for demonstration but it was 1 year OFT more testing require for analysis of data
Feedback	The Farmers had shown the result between farmer practice & Technology, according to farmers adopted technology.

Result : (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	Time taken for decomposition	Month	1200	3000	1800	2.5
T2 (Recommended Practice)	Comparison of NPK of FYM with decomposer compost	(%)	1400	5000	3600	3.57
T3 (Recommended Practice)			-	-	-	-

2.1 Information about OFT: 23 (Soil Science) -

Title of on-farm trial:	Assessment of Integrated Nutrient Management in Soybean- Chickpea Cropping System.
Year/Season:	2019-20/Kharif
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to imbalance use of plant nutrient in soybean- chickpea cropping system.
Thematic area:	INM
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Imbalance use of Fertilizer (09:23:00 NPK kg/ha)
T2 –Recommended Practice-	2 t/ha FYM and 100 % RDF in Soybean and 50 % RDF in Chickpea.
T3- Recommended Practice-	-
Date of sowing:	10 July, 2019 & 12 Oct, 2019
Date of harvesting:	12 Oct,2019
Source of technology:	IISS, Bhopal
Characteristics of technology:	Balance use of Plant Nutrient through INM in Soybean Chickpea cropping system, Increase yield and quality and reduce input cost.
Name of Crop/Enterprises:	Soybean- chickpea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	

Result : (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/ha)		Average Gross Return (Rs/ha)		Average Net Return (Rs/ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)	
			Soybean	Chickpea	Soybean	Chickpea	Soybean	Chickpea	Soybean	Chickpea
T1 (Farmers Practice)	**Soybean**	**Soybean**	23509	-	35965	-	12456	-	1.53	-
T2(Recommended Practice)	No. of Pods No. of Grains Test weight Yield	Per plant Per pod Gram qtl/ha	23900	-	42209	-	18309	-	1.77	-
T3(Recommended Practice)	**Chickpea** No. of Pods No. of Grains Test weight Yield	**Chickpea** Per plant Per pod Gram qtl/ha	In Progress							

2.1 Information about OFT: 24 (Soil Science) -

Title of on-farm trial:	Assessment of Bio-waste decomposer for quality organic product to enhance soil health
Year/Season:	2019-20
Farming situation:	Kharif
Problem diagnosis:	Low quality of organic manure and more time require
Thematic area:	NRM
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Dumping the farm waste and residue in pits exposed to extreme weather conditions
T2 –Recommended Practice-	Use of Bio-waste decomposer. (Consortium of microbes)
T3- Recommended Practice-	-
Date of sowing:	July, 2019
Date of harvesting:	December, 2019
Source of technology:	National centre of organic farming, Ghaziabad
Characteristics of technology:	Composting for quality man use and time saving
Name of Crop/Enterprises:	Enterprises
Recommendations for Farmers	Technology was found more effective compatible with farmer practices & recommendation for micro level situation
Recommendations for Deptt. Personnel	Technology was found more effective , recommended for demonstration
Feedback	The Farmers had shown the result between farmer practice & Technology, according to farmers adopted technology.

Result : (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	Time taken for decomposition	Month	1300	3000	1700	2.30
T2(Recommended Practice)			1600	5000	3400	3.15
T3(Recommended Practice)	Comparison of NPK of FYM with decomposer compost	(%)	-	-	-	-

2.1 Information about OFT: 25 (Soil Science) -

Title of on-farm trial:	Assessment of INM in chickpea
Year/Season:	2019-20/ Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield of chickpea crop due to imbalance use of plant nutrients
Thematic area:	INM
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Imbalance use of plant nutrient (09:23:0 kg/ha NP& K)
T2 –Recommended Practice-	RDF as per STV (20:60:20 NPK kg/ha)
T3- Recommended Practice-	STCR (Targeted yield 20q/ha) + seed inoculation with Rhizobium + PSB @5 g/kg seed each
Date of sowing:	10 Oct, 2019
Date of harvesting:	-
Source of technology:	IISS, Bhopal
Characteristics of technology:	Integration with chemical fertilizer and Bio fertilizer increase crop yield
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	

Result : (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	No. of Pods	Per plant	In Progress			
T2(Recommended Practice)	No. of Grains	Per pod				
T3(Recommended Practice)	Test weight	Gram				
	Yield	qtl/ha				

2.1 Information about OFT: 26 (Soil Science) -

Title of on-farm trial:	Assessment of Micronutrient on yield and quality of Garlic crop
Year/Season:	2019-20/Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield of Garlic crop due to no use of micro nutrient
Thematic area:	SFM
No of trials:	10
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Farmer practice (No. foliar spray of micro nutrients)
T2 –Recommended Practice-	Foliar spray of zinc sulphate @ 3 g/l at 30,60 and 90 DAP
T3- Recommended Practice-	-
Date of sowing:	23 Oct, 2019
Date of harvesting:	-
Source of technology:	IIHR
Characteristics of technology:	Foliar spray of vegetable micro nutrient mixture
Name of Crop/Enterprises:	Garlic
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result : (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	No. of cloves/Bulb	Per bulb	In Progress			
T2(Recommended Practice)	Avg. Bulb Weight	gram				
T3(Recommended Practice)	Yield	qtl/ha				

2.1 Information about OFT: 27 (Soil Science) –

Title of on-farm trial:	Assessment of nutrient management in Onion Crop
Year/Season:	2019-20/ Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield of Onion crop due to imbalance use of Plant nutrient
Thematic area:	SFM
No of trials:	05
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Farmer practice imbalance use of Plant nutrient 80:40:00 kg/ha NPK
T2 –Recommended Practice-	RDF as per STV+ 40 kg/ha sulphur at the time of transplanting
T3- Recommended Practice-	RDF as per STV + 40 kg/ha sulphur with time of transplanting + foliar spray of 18:18:18 @ 2.5 kg/ha at 30 DAT + foliar spray NPK 12:00:45 @ 2.5 kg/ha 75 DAT
Date of sowing:	29 Dec, 2019
Date of harvesting:	-
Source of technology:	NHRDF, Nasik
Characteristics of technology:	Balance use of plant nutrient and use of water soluble fertilizer
Name of Crop/Enterprises:	Onion
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result : (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	No. of Bulb	M^2	In Progress			
T2(Recommended Practice)	Avg Bulb Weight	gram				
T3(Recommended Practice)	Yield	qtl/ha				

2.2. Information about Extension OFT:

Title	Assessment of Adoption of Soil health card based fertilizer application in soybean crop.
Season & Year	Kharif -2019
Problem identified	Lack of knowledge and adoption of soil h1ealth card based fertilizer application.
Thematic Area	Soil health management
Farming situation	Rainfed
Name of Technology under study	Soil health card with consultation of KVK (T3)
Farmers Practice	General Soil health card user **(T2)** and Non users of soil health card. **(T1)**
No. of replication (Farmers)	**60**

Results / findings

Performance indicators/ parameters	**Unit/ details**		
	T1	T2	T3
Adoption (%)	26.88	51.99	69.88
Knowledge (%)	30.32	56.33	71.00
Constraints (%)	69.68	43.67	29.00
Production (qtl/ha)	10.62	12.06	14.25

2.2. Information about Extension OFT:

Title	Assessment on effective use of different information source for production technology of onion and garlic
Season & Year	Rabi- 2019
Problem identified	Lack of timely dissemination of agricultural message
Thematic Area	ICT
Farming situation	-
Name of Technology under study	Use of electronic media (whatsapp) for onion& garlic production technology
Farmers Practice	Printed literature onion & garlic **(T2)** and Non users **(T1)**
No. of replication (Farmers)	**60**

Results / findings

Performance indicators/ parameters	**Unit/ details**		
	T1	T2	T3
Adoption (%)	In progress		
Knowledge (%)			
Constraints (%)			
Production (qtl/ha)			

2.3. Information about Home Science OFT:

Title of on-farm trial:	Assessment of Drumstick crackers for improving hemoglobin level in blood
Year/Season:	2019-20
Problem diagnosis:	Low level of Hemoglobin in Pregnant women & Adolescent girls
Thematic area:	Nutritional Security (WOE)
No of trials:	01
No. of farmers/farm women involved	10 Farm Women
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment:	
T1 – Farmers Practice-	Intake low iron in daily diet
T2 –Recommended Practice-	Intake iron rich diet in daily diet (Drumstick crackers)
Source of technology:	IARI, Delhi
Characteristics of technology:	-
Name of Crop/Enterprises:	-
Farming situation:	-
Date of sowing:	**Start date** - June, 2019
Date of harvesting:	**End date-** February, 2020
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

(A) Economic Performance Home Science OFT: (For Nutritional security)

Name of Enterprise /product : - Drumstick crackers

Detail of Technology	Name of Product/enterprise	Per capita Consumption gm/ day	Nutrient Intake (Unit)				Anthropometric measurements		
			Energy (kcal)	Protein (gm)	Iron (mg)	Calcium (mg)	Increase in Weight (Kg)	Increase in Height (cm)	BMI ((Weight (Kg)/ (Height(in m) * Height(in m)))
T_1(Farmers Practices)	Parle –G	20 g	79.5	1.0	-	-	43.5	155.14	19.5
T_2 (Recommended Practices)	Drumstick crackers	40 g	158.7	2.12	0.24	10	In Progress		
T_3(Recommended Practices	-	-	-	-	-	-	-	-	-

(B) Economic Performance Home Science OFT: (For Drudgery Reduction) – *Nil*

Detail of Technology	Output *	Est. Energy Expenditure kj/min	WHR beat/min	% reduction in drudgery	% increase in efficiency	Cardiac Cost of Work	% Saving of cardiac Cost
T_1(Farmers Practices)	-	-	-	-	-	-	-
T_2 (Recommended Practices)	-	-	-	-	-	-	-
T_3(Recommended Practices	-	-	-	-	-	-	-

***Kindly use Unit as per the machine/implement/equipment used for drudgery reduction**

(C) Economic Performance Home Science OFT: (For Income Generation) Enterprises wise *Nil*

Name of Enterprise : -……..

Detail of Technology	Parameter of enterprise	Production per unit (qt/no/lit)	Average Cost of input (Rs/unit	Average Gross Return (Rs/unit)	Average Net Return (Rs/unit)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T_1(Farmers Practices)	-	-	-	-	-	-
T_2 (Recommended Practices)	-	-	-	-	-	-
T_3(Recommended Practices)	-	-	-	-	-	-

(D) Economic Performance Home Science OFT: (For value addition) *Nil*

Detail of Technology	Composition of product	Production per unit	Average Cost of input (Rs/unit	Average Gross Return (Rs/unit)	Average Net Return (Rs/unit)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T_1(Farmers Practices)	-	-	-	-	-	-
T_2 (Recommended Practices)	-	-	-	-	-	-
T_3(Recommended Practices	-	-	-	-	-	-

Achievements of Frontline Demonstrations (FLD)

3.1 Details of FLDs on Crop implemented during Jan-2019 to Dec-2019

KVK Name	Year	Season	Thematic area	Technology demonstrated	Crop Category	Name of Crop	Name of Variety	Farming Situation (rainfed/irrigated/semi-irrigated)	Completed/Ongoing	Crop - Area (ha)	Results (q/ha)		% change	No. of farmers				
											FP (T_1)	RP (T_2)		SC	ST	Others	General	Total
SEHORE	2018-19	Rabi	CMP	Wheat Variety HI- 8713 (Pusa Mangal)	Cereal	Wheat	HI- 8713	Irrigated	Completed	4.0	49.35	59.81	17	02	02	06	-	10
SEHORE	2018-19	Rabi	WM	Application of Metsulfuron + Clodinofop ai @ 64 g/ha	Cereal	Wheat	GW-322	Irrigated	Completed	4.0	45.83	52.22	12	02	-	08	-	10
SEHORE	2018-19	Rabi	CMP	Wheat Variety HI- 8663 (Poushan)	Cereal	Wheat	HI-8663	Irrigated	Completed	2.0	39.98	48.07	17	02	-	08	-	10
SEHORE	2019	Zaid	CMP	Use of improved variety IPM-410-03 + Seed treatment with Carboxin + Thiram @ 3 g per kg seed fb Seed dressing with Thiamethoxam 70FS @ 1.33 ml/ kg Seed + Rhizobium & PSB culture @ 5g/kg seed +Seed rate 20 kg / ha + Nutrient management as per STV@ 20:60:20 N:P:K kg/ha + timely weed management and plant protection measures.	Pulses	Green Gram	Sikha (IPM-410-03)	Irrigated	Completed	2.0	9.70	12.75	23	-	01	04	-	05
SEHORE	2019	Kharif	I&FM	Demo. of Furrow irrigated raised bed planting machine	Oilseed	Soybean	JS-9560	Irrigated	Completed	4.0	9.03	12.81	29	-	-	10	-	10
SEHORE	2019	Kharif	CMP	Use of Hybrid seed INDAM -1122+ Nutrient management as per STV@1 20:60:40 N:P:K kg/ha + timely weed management and Plant protection measures.	Cereal	Maize	INDAM-1122	Irrigated	Completed	4.0	23.56	26.86	12	1	3	6	-	10
SEHORE	2019	Rabi	CMP	Wheat Variety (Pusa Ujala) HI- 1605	Cereal	Wheat	HI- 1605	Irrigated	Ongoing	2.0	In Progress			1	-	4	-	05
SEHORE	2019	Rabi	CMP	Application of Metsulfuron + Clodinofop ai @ 64 g/ha	Cereal	Wheat	HI- 1544	Semi Irrigated	Ongoing	4.0	In Progress			-	-	-	-	10
SEHORE	2019	Rabi	CMP	Wheat Variety HI- 8663 (Poushan)	Cereal	Wheat	HI-8663	Irrigated		2.0	In Progress			1	-	4	-	05
SEHORE	2018-19	Rabi	PLP	Demonstration of IDM Module for the management of Wilt, Root rot, Collar Rot disease in chickpea	Pulses	Chickpea	JAKI-9218	Rainfed	Completed	4.0	16.03	21.27	24.63 %	3	-	6	1	10

KVK Name	Year	Season	Thematic area	Technology demonstrated	Crop Category	Name of Crop	Name of Variety	Farming Situation (rainfed/irrigated/semi-irrigated)	Completed/Ongoing	Crop - Area (ha)	Results (q/ha)		% change	No. of farmers				
											FP (T_1)	RP (T_2)		SC	ST	Others	General	Total
SEHORE	2018-19	Rabi	PLP	Demonstration of Imidacloprid 17.8 % SL for the management of Sucking pest in Rabi Onion	Vegetable	Onion	AFLR	Irrigated	Completed	2.0	214.3	251.6	14.82	2	-	8	-	10
SEHORE	2019	Kharif	PLP	Demonstration of IPM Module for the management of Girdle beetle and defoliators in soybean	Oilseed	Soybean	JS- 9560	Irrigated	Completed	4.0	6.8	8.6	20.9	2	2	4	2	10
SEHORE	2019-20	Rabi	PLP	Demonstration of Imidacloprid 17.8 % SL for the management of Sucking pest in Rabi Onion	Vegetable	Onion	AFLR	Irrigated	Ongoing	2.0	In Progress			2	1	7	-	10
SEHORE	2019-20	Rabi	PLP	Demonstration of IDM Module for the management of Wilt, Root rot, Collar Rot disease in chickpea	Pulses	Chickpea	JAKI-9218	Rainfed	Ongoing	4.0	In Progress			2	2	4	2	10
SEHORE	2019-20	Rabi	PLP	Demonstration of IPM module for the management of termite in rainfed condition	Cereal	Wheat	C-306	Rainfed	Ongoing	3.0	In Progress			2	2	6	-	10
SEHORE	2018-19	Kharif & Rabi	H&VC	Demonstration of plug tray & medium far raising healthy vegetable seedlings	Vegetable	Vegetable	Hybrid	Irrigated	Completed	1.0	Mortality 6.53	Mortality 1.10	16.8	2	-	6	2	10
SEHORE	2018-19	Kharif & Rabi	H&VC	Demonstration of cropping system (Okra- Spinach – Onion)	Okra Spinach Onion	Vegetable	Hybrid	Irrigated	Completed	0.5	Cropping intensity 200	Cropping intensity 300	50	-	-	4	1	05
SEHORE	2018-19	Rabi	H&VC	Demonstration of improved variety Garlic G-282	Spices	Garlic	G-282	Irrigated	Completed	1.0	84.0	96.0	14	1	-	3	1	5
SEHORE	2018-19	Kharif, Rabi & Zaid	H&VC	Demonstration on Kitchen gardening in Backyard for nutritional and Livelihood security	Vegetable	Vegetables	Hybrid	Irrigated	Completed	0.75	Annual 173 kg	Annual 315 kg	82	5	5	30	10	50
SEHORE	2019	Kharif	H&VC	Demonstration of Kharif Onion variety- Bheema Super	Spices	Kharif Onion	Bheema Super	Irrigated	Completed	1.0				02	-	08	-	10
SEHORE	2019-20	Round the year, 2019-20	H&VC	Demonstration of Kitchen gardening in Backyard for nutritional & Livelihood security	Vegetables	Seasonal vegetable	Hybrid	Irrigated	Ongoing	0.75	In Progress			08	05	37	-	50

SEHORE	2019-20	Rabi	H&VC.	Demonstration of improved Tomato Hybrid- Arka Rakshak	Vegetables	Tomato	Arka Rkshak	Irrigated	Ongoing	0.5	In Progress			01	-	04	-	05
SEHORE	2019-20	Rabi 2019-20	H&VC	Demonstration of improved variety Garlic G-282	Spices	Garlic	G- 282	Irrigated	Ongoing	1.0	In Progress			01	-	04	-	05
SEHORE	2018-19	Rabi	SFM	Demonstration of STCR in wheat crop (Targeted yield 50 q/ha) + seed inoculation with Azotobactor & PSB	Wheat	Wheat	HI- 8713	Irrigated	Completed	04	44.10	51.05	15.75	02	01	05	03	10
SEHORE	2018-19	Rabi	INM	Demonstration of Integrated Nutrient management in Garlic (75:40:40:40 NPK & S kg/ha) as per STV along with 15 ton FYM/ha	Garlic	Garlic	G-282	Irrigated	Completed	1.0	64.85	78.36	19.73	02	-	08	-	10
SEHORE	2018-19	Kharif & Rabi	INM	Demonstration of Application of 5 ton FYM + 50 % recommended dose of plant nutrient i.e. 20:60:20:20 kg/ha NPK& S + Seed inoculation with Rhizobium & PSB 5-5 g/kg seed in soybean & 75 % recommended dose of plant nutrient 120:60:40:5.25 NPK& Zn kg/ha + Seed inoculation with Azotobactor & PSB 5-5 g/kg seed in wheat crop	Soybean	Soybean	JS- 9560	Irrigated	Completed	02	12.50	14.24	13.92	01	-	04	-	5
					Wheat	Wheat	HI- 1544			02	41.39	46.86	13.20	01	-	04	-	5
SEHORE	2019	Kharif	INM	Demonstration of INM in Hybrid Maize crop	Maize	Maize	Hybrid	Irrigated	Completed	02	23.48	25.99	10.68	01	01	07	01	10
SEHORE	2019	Kharif	SFM	Foliar Spray of Potassium nutrient in Soybean crop	Soybean	Soybean	JS- 9560	Irrigated	Completed	04	9.22	10.29	10	0	02	04	04	10
SEHORE	2019-20	Rabi	SFM	Demonstration of STCR (targeted yield 50 q/ha) in wheat crop	Wheat	Wheat	HI- 8713	Irrigated	Ongoing	02	In Progress			01	-	04	-	05
SEHORE	2019-20	Rabi	INM	Demonstration of INM in Garlic Crop (RDF 75:40:40:40 NPK & S kg/ha as per STV along with 15 ton/ha FYM)	Garlic	Garlic	G-282	Irrigated	Ongoing	01	In Progress			01	-	04	-	05

3.2 Economic Impact of Crop FLD

KVK Name	Technology demonstrated	Name of Crop/ Enterprise	Parameters			Average Cost of cultivation (Rs/ha)		Average Gross Return (Rs/ha)		Average Net Return (Rs/ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)	
			Name and unit of Parameter	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)
SEHORE	Demonstration of HI-8686 (Poushan) wheat variety under nutritional security	Wheat	No. of Plants/ m^2	44.84	44.09	25397	25598	79959	96141	54561	70544	2.15	2.76
			No. of Effective tillers per plant	4.69	5.36								
			No. of Kernal per year	43.45	44.51								
			Test Weight (g)	43.70	45.70								
			Yield (qtl/ha)	39.98	48.07								
SEHORE	Demonstraion of HI 8713 (Pusa Mangal	Wheat	No. of Plants/m^2	44.11	43.45	25465	25865	98706	119618	73241	93753	2.88	3.62
			No. of Effictive Tillers/Plants	5.84	6.35								
			No. of Kernel/Ear	44.39	46.50								
			Test Weight (g)	45.99	46.67								
			Yield (Q/ha)	49.35	59.81								
SEHORE	Application of Metsulfuron + Clodinofop ai @ 64 g/ha	Wheat	Weed Density/m^2	8.68	4.98	25572	25448	91657	104443	66084	78995	3.59	3.99
			No. of Plants/ m^2	45.34	44.59								
			No. of Effictive Tillers/Plants	4.99	5.56								
			No. of Kernel/Ear	44.20	45.20								
			Test Weight (g)	45.80	46.58								
			Yield (Q/ha)	45.83	52.22								
SEHORE	Use of Improved Variety Sikha+ Seed Treatment with carboxin+ Thirum 3g/kg seed + Rhizobium 8 PSB culture @ 5g/kg seed + Nutrient managemen as per STV+ Timely weed management and plant protection measures	Green Gram	No. of Plants/m^2	28.0	29.12	19269	20457	48250	63750	29251	43293	2.51	3.12
			No. of Pods/ Plants	15.91	17.78								
			No. of seed/ pod	5.60	6.86								
			Test Weight (g)	33.72	35.89								
			Yield (Q/ha)	9.70	12.75								
SEHORE	Furrow irrigated raised bed planting machine	Soybean	No. of Plants/m^2	40.68	41.55	23509	23900	36135	51226	12626	27326	1.54	2.14
			No. of Pods/ Plants	11.04	14.10								
			No. of seed/ pod	1.98	2.11								
			Test Weight (g)	101	103								
			Yield (Q/ha)	9.03	12.81								
SEHORE	Use of Hybrid seed INDAM - 1122+ Nutrient management as per STV@1 20:60:40 N:P:K kg/ha + timely weed management and Plant protection measures.	Maize	No. of Plants/m^2	5.14	5.28	26674	25236	44758	51031	20084	25795	1.81	2.02
			No. of Pods/ Plants	1.0	1.01								
			No. of seed/ pod	215	228								
			Test Weight (g)	212	220								
			Yield (Q/ha)	23.56	26.86								

SEHORE	Application of Metsulfuron + Clodinofop ai @ 64 g/ha	Wheat	-	-	-	In Progress							
SEHORE	Wheat Variety HI- 8663 (Poushan)	Wheat	-	-	-								
SEHORE	Wheat Variety (Pusa Ujala) HI- 1605	Wheat	-	-	-								
SEHORE	Demonstration of IDM Module for the management of Wilt, Root rot, Collar Rot disease in chickpea	Pulses	Disease Incidence %	11.77	4.04	22590	24660	72135	95715	49545	71055	3.20	3.88
			Yield (q/ha)	16.03	21.27								
SEHORE	Demonstration of Imidacloprid 17.8 % SL for the management of Sucking pest in Rabi Onion	Vegetable	Insect infestation %	11.44	2.91	54220	58710	171440	201280	117220	142570	3.16	3.43
			Yield (q/ha)	214.30	251.60								
SEHORE	Demonstration of IPM Module for the management of Girdle beetle and defoliators in soybean	Oilseed	Insect infestation %	17.91	12.36	20530	23150	30600	38700	10070	15550	1.49	1.67
			Yield (q/ha)	6.8	8.6								
SEHORE	Demonstration of Imidacloprid 17.8 % SL for the management of Sucking pest in Rabi Onion	Vegetable	Insect infestation %	-	-	In Progress							
			Yield (q/ha)	-	-								
SEHORE	Demonstration of IDM Module for the management of Wilt, Root rot, Collar Rot disease in chickpea	Pulses	Disease Incidence %	-	-	In Progress							
			Yield (q/ha)	-	-								
SEHORE	Demonstration of IPM module for the management of termite in rainfed condition	Cereal	Insect infestation %	-	-	In Progress							
			Yield (q/ha)	-	-								
SEHORE	Demonstration of plug tray & medium far raising healthy vegetable seedlings	Vegetables	Mortality %	6.53	1.10	85000	92000	240000	275000	155000	183000	2.82	2.98
			Increase change	-	16.8								
SEHORE	Demonstration of cropping system (Okra- Spinach – Onion)	Vegetables	Cropping intensity	200	300	113000	142000	263000	317000	150000	205000	2.32	2.53
SEHORE	Demonstration of improved variety Garlic G-282	Spice	Yield (q/ha.)	84.0	96.0	93000	98000	210000	240000	117000	142000	2.25	2.40
SEHORE	Demonstration on Kitchen gardening in Backyard for nutritional and Livelihood security	Vegetables	Annual yield	173 kg.	315 kg.	-	-	-	-	-	-	-	-
SEHORE	Demonstration of Kharif Onion variety- Bheema Super	Spices	Avg, Bulb Weight (g)										
			Yield (q/ha.)										
SEHORE	Demonstration of Kitchen gardening in Backyard for nutritional & Livelihood security	Vegetables	Annual yield			In Progress							
SEHORE	Demonstration of improved Tomato Hybrid- Arka Rakshak	Vegetables	Yield (q/ha.)			In Progress							
			% increase in yield (q./ha.)										
SEHORE	Demonstration of improved variety Garlic G-282	Spices	Yield (q/ha.)			In Progress							

KVK Name	Technology demonstrated	Name of Crop/ Enterprise	Parameters			Average Cost of cultivation (Rs/ha)		Average Gross Return (Rs/ha)		Average Net Return (Rs/ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)	
			Name and unit of Parameter	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)
SEHORE	Demonstration of Application of 5 ton FYM + 50 % recommended dose of plant nutrient i.e. 20:60:20:20 kg/ha NPK& S + Seed inoculation with Rhizobium & PSB 5-5 g/kg seed in soybean & 75 % recommended dose of plant nutrient 120:60:40:5.25 NPK& Zn kg/ha + Seed inoculation with Azotobactor & PSB 5-5 g/kg seed in wheat crop	Soybean	No. of Pods/ Plant	16.96	17.30	20560	21990	41899	46480	20339	24490	1.99	2.11
			No. of grains/ Pods	1.89	2.09								
			Test Weight (g)	97.30	98.20								
		Wheat	No. of effective tiller/ plant	5.07	5.53	28500	28700	74508	83343	46003	55648	2.61	2.94
			Grains/ ear	41.25	41.55								
			Test weight (g)	45.60	43.00								
SEHORE	Demonstration of STCR in wheat crop (Targeted yield 50 q/ha) + seed inoculation with Azotobactor & PSB	Wheat	No. of effective tiller/plant	5.15	5.79	26965	29525	79631	95142	52666	65617	2.95	3.22
			No. of Grains/ ear	43.25	43.56								
			Test Weight (g)	45.00	46.00								
			Yield (q/ha)	44.10	51.05								
SEHORE	Demonstration of Integrated Nutrient management in Garlic (75:40:40:40 NPK & S kg/ha) as per STV along with 15 ton FYM/ha	Garlic	No. of clove/ bulb	17.53	18.8	77320	80920	194551	235103	117232	154183	2.52	2.91
			100 clove weight (g)	56.92	64.14								
			Yield (qtl/ha)	64.85	78.36								
SEHORE	Demonstration of INM in Hybrid Maize crop	Hybrid Maize	No. of cobs/ plant	1.0	1.01	24674	25236	44616	49372	19941	24136	1.81	1.96
			No. of seed/ cob	215	228								
			Test weight (g)	211	218								
			Yield (qtl/ha)	23.48	25.99								
SEHORE	Foliar Spray of Potassium nutrient in Soybean crop	Soybean	No. of pods/ plant	11.24	11.92	23489	23800	36883	41164	13394	17364	1.57	1.73
			No. of grains/ pod	1.99	2.08								
			Yield (qtl/ha)	9.22	10.29								
SEHORE	Demonstration of STCR (targeted yield 50 q/ha) in wheat crop	Wheat	No. of effective tiller/plant	-	-	In Progress							
			No. of Grains/ ear	-	-								
			Test Weight (g)	-	-								
SEHORE	Demonstration of INM in Garlic Crop (RDF 75:40:40:40 NPK & S kg/ha as per STV along with 15 ton/ha FYM)	Garlic	No. of clove/ bulb	-	-	In Progress							
			100 clove weight (g)	-	-								
			Yield (qtl/ha)	-	-								

3.2 Details of FLDs on Agriculture Engineering implemented during Jan-2019 to Dec-2019

KVK Name	Year	Season	Thematic area	Technology demonstrated	Crop/ Enterprise Category	Name of Crop/ Enterprise	Name of Variety /Technology/ Enterprise	Farming Situation (rainfed/irrigated/semi-irrigated)	Completed/Ongoing	Crop-Area (ha) / Entrep - No.	Results (q/ha)		% change	No. of farmers				
											FP (T_1)	RP (T_2)		SC	ST	Others	General	Total
SEHORE	2019	Kharif	I&FM	Demo. of Furrow irrigated raised bed planting machine	Oilseed	Soybean	JS-9560	Irrigated	Completed	4.0	9.03	12.81	29	-	-	10	-	10

3.3 Economic Impact of Agriculture Engineering FLD

KVK Name	Technology demonstrated	Name of Crop/ Enterprise	Parameters			Average Cost of cultivation (Rs/ha)		Average Gross Return (Rs/ha)		Average Net Return (Rs/ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)	
			Name and unit of Parameter	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)
SEHORE	Demo. of Furrow irrigated raised bed planting machine	Soybean	No. of Plants/m^2	40.68	41.55	23509	23900	36135	51226	12626	27326	1.54	2.14
			No. of Pods/ Plants	11.04	14.10								
			No. of seed/ pod	1.98	2.11								
			Test Weight (g)	101	103								
			Yield (Q/ha)	9.03	12.81								

3.5 Details of FLDs on Animal Science implemented during Jan-2019 to Dec-2019

KVK Name	Year	Season	Thematic area	Technology demonstrated	Crop/ Enterprise Category	Name of Crop/ Enterprise	Name of Variety/Technology / Enterprise	Farming Situation (rainfed/irrigated/semi-irrigated)	Completed/Ongoing	Crop - Area (ha) / Entrep - No.	Results (q/ha)		% change	No. of farmers				
											FP (T_1)	RP (T_2)		SC	ST	Others	General	Total
SEHORE	2019	Kharif Rabi	Animal Nutrition Management	Demonstration of balance feeding with Azolla in cross bred cow.	Dairy	Enterprise	Balance feeding	-	Completed	10	Milk Yield 6.44 lit/day/ Animal (03 months)	Milk Yield 7.28 lit/day/ Animal (03 months)	13.12	-	-	10	-	10
SEHORE	2019-20	Winter	LPM	Demonstration of calf management technology in buffalo to manage calf mortality	Dairy	Enterprise	Calf management	-	Ongoing	10	In Progress			01	-	09	-	10
SEHORE	2019-20	Winter	Animal Disease Management	Demonstration of vitamin E in sub clinical Mastitis of buffalo	Dairy	Enterprise	Vitamin E	-	Ongoing	05	In Progress			01	-	04	-	05
SEHORE	2019-20	Round the Year	Poultry Production & Management	Demonstration of improved breed for back yard poultry (Gramapriya)	Poultry	Enterprise	Improved Breed Gramapriya	-	Ongoing	05	In Progress			-	05	-	-	05
SEHORE	2019-20	Winter	LPM	Demonstration of Parasite Management in Lactating Cow	Dairy	Enterprise	Parasite management	-	Ongoing	10	In Progress			-	-	09	01	10

3.6 Economic Impact of Animal Science FLD

KVK Name	Technology demonstrated	Name of Crop/ Enterprise	Parameters			Average Cost of cultivation (Rs/ha)		Average Gross Return (Rs/ha)		Average Net Return (Rs/ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)	
			Name and unit of Parameter	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)
SEHORE	Demonstration of balance feeding with Azolla in crossbred cow	DAIRY	Milk yield Lit/day/animal	6.44	7.28	9000	9450	16228.8	18295.6	7229.2	8895.6	1.8	1.94

SEHORE	Demonstration of calf management technology in buffalo to manage calf mortality		Calf Mortality (%)	-	-	In Progress
			B.W. Gain (kg.)	-	-	
SEHORE	Demonstration of vitamin E in sub clinical Mastitis of buffalo		Sub clinical mastitis (%)	-	-	In Progress
			Milk yield (lit./day)	-	-	
SEHORE	Demonstration of improved breed for back yard poultry (Gramapriya)		B.W. gain (g.)	-	-	In Progress
			Egg production (no.)	-	-	
SEHORE	Demonstration of Parasite Management in Lactating Cow		Milk yield (lit./day)	-	-	In Progress

3.7 Details of FLDs on Fishery implemented during Jan-2019 to Dec-2019 – *Nil*

KVK Name	Year	Season	Thematic area	Technology demonstrated	Crop/ Enterprise Category	Name of Crop/ Enterprise	Name of Variety /Technology/ Enterprise	Farming Situation (rainfed/irrigated/semi-irrigated)	Completed/Ongoing	Crop-Area (ha) / Entrep - No.	Results (q/ha)		% change	No. of farmers				
											FP (T_1)	RP (T_2)		SC	ST	Others	General	Total

3.8 Economic Impact of fishery FLD *Nil*

KVK Name	Technology demonstrated	Name of Crop/ Enterprise	Parameters			Cost of cultivation (Rs/ha)		Gross Return (Rs/ha)		Average Net Return (Rs/ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)	
			Name and unit of Parameter	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)

3.9 Information about Home Science FLDs - (For All Thematic Area)

KVK Name	year	Season	Thematic area	Technology demonstrated	Name of Crop/ Enterprise	Name of Variety/Technology/Enterprises	Crop-Area (ha) / Entrep - No.	Results		% change	No. of farmers				
								FP (T_1)	RP (T_2)		SC	ST	Others	General	Total
SEHORE	2018-19	-	WOE	Value added soya products for nutritional security	Enterprises	Soya products	-	Consume only wheat flour	Consume soya flour		22	-	28	-	50
SEHORE	2018-19	-	WOE	Demonstration of preservative seasonal fruits (Mango, Amla & Guava)	Enterprises	Mango amla & Guava products	-	Low consumption seasonal fruits in daily diet	Consume soya flour and soya nuts		1	-	8	1	10

Economic Performance Home Science FLD: (For Nutritional security)

KVK name	Technology demonstrated	Performance Indicator / Parameter				Nutrient Intake (Unit)								Anthropometric measurements					
		Name of Product		Per capita Consumption gm/ day		Energy (kcal)		Protein (gm)		Iron (mg)		Calcium (mg)		Increase in Weight (Kg)		Increase in Height (cm)		BMI ((Weight (Kg)/ (Height(in m) * Height(in m)))	
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2
SEHORE	Value added Soya products for nutritional security	Wheat flour	Soya flour & Soya nuts	245.8	255.8	646.8	699.2	19.72	25.46	5.80	10.49	90.62	116.56	49.76	51.25	154.61	154.99	20.79	21.31
SEHORE	Demonstration of Preservative seasonal fruits (Mango, Amla & Guava)	Mango, Mango pickle, Aonla Pichle & Guava	Mango Jem, Mango Papad, Guava Jem, Aonla Kandi, Murrba, Aonla Juice & Gatagat	100	150	74.6	111.9	1.43	2.15	0.5	0.75	9.6	14.4	52.1	In Progress	152.69	In Progress	22.22	In Progress

Economic Performance Home Science FLD: (Drudgery Reduction) *Nil*

KVK name	Technology demonstrated	Performance Indicator / Parameter													
		Output *		Est. Energy Expenditure kj/min.		WHR beat/min		% reduction in drudgery		% increase in efficiency		Cardiac Cost of Work		% Saving of cardiac Cost	
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2

***Kindly use Unit as per the machine/implement/equipment used for drudgery reduction**

Economic Performance Home Science FLD: (Income Generation) *Nil*

KVK name	Technology demonstrated	Performance Indicator / Parameter									
		Production per unit (Q/No/Lit)		Average Cost of input (Rs/unit)		Average Gross Return(Rs/unit)		Average Net Return(Rs/unit)		Benefit-Cost Ratio (Gross Return / Gross Cost)	
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2

Economic Performance Home Science FLD: (For value addition) *Nil*

KVK name	Technology demonstrated	Performance Indicator / Parameter											
		Composition of product		Production per unit (Q/ Lit)		Average Cost of input (Rs/unit		Average Gross Return (Rs/unit)		Average Net Return (Rs/unit)		Benefit-Cost Ratio (Gross Return / Gross Cost)	
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2

3.10 Training and Extension activities conducted under FLD

KVK Name	Crop	Activity	No. of activities organized	Number of participants	Remarks
SEHORE	Wheat	Farmers Training	3	75	2018-19
SEHORE		Field Day	3	96	-
SEHORE	Green Gram	Farmers Training	1	25	-
SEHORE		Field Day	1	40	-
SEHORE	Maize	Farmers Training	1	25	-
SEHORE		Field Day	1	35	-
SEHORE	Soybean	Farmers Training	1	25	-
SEHORE	Wheat	Farmers Training	3	75	-
SEHORE	Dairy	Farmers training	04	100	-
SEHORE	Poultry	Farmers training	01	25	-
SEHORE	Soybean	Field Day	02	70	-
SEHORE		Farm women training	02	45	-

KVK Name	Crop	Activity	No. of activities organized	Number of participants	Remarks
SEHORE	Soybean	Farmers Training	01	25	To aware about IPM technology
SEHORE		In Service Training	01	25	
SEHORE		Field Day	01	25	
SEHORE	Chick pea	Farmers Training	01	25	To aware about IPM technology
SEHORE		In Service Training	01	25	
SEHORE		Field Day	01	25	
SEHORE	Onion	Farmers Training	01	25	To aware about IPM technology
SEHORE	Cropping system Okra- Spinach- Onion	Farmers Training	01	25	To Aware about Cropping system Okra- Spinach- Onion
SEHORE		Field Day	01	21	
SEHORE		Training for Extension Functionaries	01	40	
SEHORE	Kitchen Garden	Farm Women Training	02	100	To aware about Kitchen Gardening
SEHORE		Field Day	02	104	
SEHORE		Training for Extension Functionaries	01	40	
SEHORE	Garlic	Farmers Training	01	25	To aware about Improved variety Garlic G- 282
SEHORE		Field Day	01	42	
SEHORE		Extension Activities Others	01	45	
SEHORE	Soybean- Wheat	Field day	02	78	INM in soybean- wheat cropping system
SEHORE		Farmer training	03	75	
SEHORE		Media coverage	01	Mass	
SEHORE		Training to Extension functionaries	01	25	
SEHORE	Wheat	Field day	01	30	Nutrient management in wheat crop
SEHORE		Farmer training	02	50	
SEHORE		Training to Extension functionaries	01	25	
SEHORE	Garlic	Field day	01	37	Nutrient management in Garlic crop
SEHORE		Farmer training	01	25	
SEHORE		Training to Extension functionaries	01	25	
SEHORE	Hybrid Maize	Field day	01	30	INM in Hybrid Maize
SEHORE		Farmer training	02	50	
SEHORE		Training to Extension functionaries	01	24	
SEHORE	Soybean	Field day	01	40	Foliar spray of Potassium nutrient in Soybean crop
SEHORE		Farmer training	01	25	
SEHORE		Media coverage	01	Mass	
SEHORE		Training to Extension functionaries	01	24	

3.11 Details of FLD on crop hybrids.

S. No.	*Name of the KVK*	*Name of the Crop*	*Name of the Hybrids*	*Source of Hybrid (Institute/Firm)*	*No. of farmers*	*Area in ha.*
1	SEHORE	Maize	`- 1122	Firm - Indo American Seed Pvt. Ltd.	10	4.0

4. Feedback System

4.1. Feedback of the Farmers to KVK

Name of KVK	Feedback			
	Technology appropriations	**Methodology used**	**Benefits of OFT/FLD**	**Future Adoption**
SEHORE	Value added Soya Products for Nutritional security	Soya Products – Soya flour , soya nuts • Selected farm women. • Trained to make soya flour and soya nuts. • Participated in every activity conducted under FLD.	• Beneficiaries consumed soya products in their daily diet. • They founded that their health were better and they increased in weight.	Technology found better for beneficiaries health. This technology will be adopt in that situation.
SEHORE	Technology tested are found appropriate with farmers practice & Recommended for micro level situation	Need based resource available with farmers assess the technology as compared to farmers practice during assessment farmers are involves.	Assessment technologies are given higher return, balance use of fertilizer & reduce the cost as compare to farmer practices.	Farmers are observe the yield & reduce the cost from unit of assess technologies as compare to farmer practice , these technologies useful/ economically acceptable they convenience for future adoption.
SEHORE	Demonstration of HI-8663 (Poshan) Wheat Variety under Nutritional Security.	Farmers training, individual contact, group meeting & field day	Higher yield and Temperature tolerant variety	Yes
SEHORE	Demonstration of HI-8713 (Pusa mangal) Wheat Variety	Farmers training, individual contact, group meeting & field day	Higher yield obtained because yield attribute is higher	Yes
SEHORE	Demonstration of Weed management in Wheat	Farmers training, individual contact, group meeting & field day	Higher yield and net return due to effective control of monocot & dicot weeds.	Yes
SEHORE	Production technology of Summer green gram	Farmers training, individual contact, group meeting & field day	Higher yield and Net return and Early maturity YVM Resistance variety	Yes
SEHORE	Demonstration of FIRBS Machine in Soybean	Farmers training, individual contact, group meeting & field day	Higher yield under water stress condition	Yes
SEHORE	Production technology of Hybrid Maize	Farmers training, individual contact, group meeting & field day	Higher production and Early than other hybrids	Yes
SEHORE	Technologies tested of electrolyte to manage heat stress.	Need based, Individual contact, participated in every activity.	Higher body weight gain and more return compare to farmer practices.	Yes
SEHORE	Technologies of Bajra + cowpea green fodder on production performance.	Need based, Individual contact, participated in every activity.	More milk yield and better health as compared to farmers practices	Yes
SEHORE	Demonstration of balance feeding with Azolla	Farmers training, individual contact	Higher milk yield and improvement in health	Yes
SEHORE	Farmers are growing seedling on flate beds without line sowing which resulted high mortality and unhealthy seedling. Pro Tray provided to farmers 10 No. each for seedling production.	Identified & selected those farmers which growing seedlings. Pro tray was provided 10 No. of each farmers selected under demo.. They were trained on the technical aspect of pro tray seedling technology.	There was only 1.6% mortality in pro tray as compared F.P. (6.31%) 10.6% increase in yield was also found.	Technology found best for vegetable growers. They found less mortality and healthy seedling in pro tray. They found satisfy for adoption
SEHORE	Farmers growing traditional vegetables in there back yard in haphazard manner with limited vegetables scientific module of Kitchen gardening was finalized under demo. for increasing in their daily diet.	Farmers were selected under demo. who had a piece of land near by their home for Kitchen gardening farmers were provided by quality seeds of seasonal vegetables.	Under demo. 224.9 Kg vegetable was found as compare to F.P. (120.7Kg.). 47% change in yield was found with increase in availability of vegetable per day.	Technology was found convenient easy to understand. The results attracted to farmers for future adoption
SEHORE	Technology tested under OFT/FLD are found appropriate with farmers practice and recommended for micro level situation	Need based resource available with farmers assessment and demonstration. The technology compare with farmers practice during assessment and demonstration farmers are invoke.	Assessment/ Demonstration technologies are given higher return than the farmers practice	Farmers are observe yield attribute parameter & return from per unit of assessment/ Demonstration technology compare with farmers practice they realize these technology

				useful/ economically convenient with future adoption.
SEHORE	No use of Bio fertilizer & organic manure in Soybean- Wheat cropping system and depend on only chemical fertilizer	Selected farmers trained and involved in every activity conducted under FLDs for use of organic manure , fertilizer and bio fertilizer, balance nutrient as per STV	Under demo. found 14.24 q./ha. in soybean crop and 46.86 q./ha in wheat crop compared to FP 12.50 q./ha. in soybean crop and 41.39 q./ha. in wheat crop. 13.92 % yield increase in Soybean crop & 13.2 % yield increase in wheat crop	Technology found the best for Soybean- wheat cropping system and recommendation for micro level situation
SEHORE	STCR (Target yield 50 q/ha) + seed inoculation with Azotobactor and PSB @ 5 g/kg seed each in wheat crop	Farmers are grown wheat in major crop in rabi season. Low yield of wheat crop due to imbalance of plant nutrient & poor fertilizer application system.	Under Demo. found 15.75% yield increase due to STCR based fertilizer application as per plant required.	Technology found best for irrigated wheat growers and increase yield and income so good chance for adoption.
SEHORE	No. use of organic manure and imbalance use of plant nutrient in garlic crop	Farmer selected who grown Garlic crop and proper trained for use of organic manure and balance use of plant nutrient as per STV.	Under Demo. found 78.36 q/ha yield in Garlic crop compare to F.P. 68.85 q/ha yield in Garlic 19.78% yield increase in garlic crop.	Technology found best for garlic grown farmer and recommended for micro level situation.

4.2. Feedback from KVK to Research System.

Name of KVK	Feedback basic of OFT on Technology Tested
SEHORE	Assessment of knowledge and adoption of soil health card based use of fertilizers application of soybean growers .this technology appropriate and adoptable with farmer situation.
SEHORE	Assessment of Pre emergence herbicide diclosulam 84% WDG @ 26 g/ha in Soybean- Technology assess the current year 2019 and again assess next year.
SEHORE	Assessment of PHM-3 Maize variety- Technology is appropriate
SEHORE	Assessment of Wheat variety HI- 1605 under Semi irrigated situation.
SEHORE	Assessment of electrolyte to manage heat stress in poultry. The technology found appropriate and adoptable with farming situation.
SEHORE	Technologies of Bajra + cowpea as a green fodder on production performance of lactating buffalo. The technology found appropriate and adoptable with farming situation.
SEHORE	Need to develop to resistant variety against disease & insect.
SEHORE	Need to develop IPM module in major insect of vegetable crop.
SEHORE	Need to develop INM module as per cropping system.
SEHORE	Need to develop technology for water soluble complex fertilizer as per crop for foliar spray.
SEHORE	Need to develop soil analysis based nutrient recommended technology model
SEHORE	Nutrient management in Wheat crop technology is appropria

4.3. Documentation of the need assessment conducted by the KVK for the training programme

Name of KVK	Category of the training	Methods of need assessment	Date and place	No. of participants involved
SEHORE	Farmers & Farm Women	PRA, SAC Meeting, Field Visit, Diagnostic Visit, Farmers Workshop	It is continuous process to assess the need in current year & incorporation of need in next year action plan	PRA – 100 SAC Meeting - 30 Field Visit & Diagnostic Visit - 5-10 in each visit Farmers workshop - 100 Group discussion - 15- 20 Field day – 30-50 in each filed day
SEHORE	Rural Youth	PRA, SAC Meeting, Interface.	It is continuous process to assess the need in current year & incorporation of need in next year action plan	PRA – 100 SAC Meeting - 30 Field Visit & Diagnostic Visit - 5-10 in each visit Farmers workshop - 100 Group discussion - 15- 20
SEHORE	Vocational Training	PRA, SAC Meeting, Interface	It is continuous process to assess the need in current year & incorporation of need in next year action plan	PRA – 100 SAC Meeting - 30 Farmers workshop - 100 Group discussion - 15- 20
SEHORE	Extension Personal	SAC Meeting, Field Visit, monthly workshop, interface.	It is continuous process to assess the need in current year & incorporation of need in next year action plan	SAC Meeting - 30 Field Visit & Diagnostic Visit - 5-10 in each visit Interface – 25-30 In-service Training - 20 – 25

5. TRAINING PROGRAMMES

Table 5.1. Details of Training programmes conducted by the KVKs for Farmers (Jan. 2019 to Dec. 2019)

Name of KVK	Category (F &FW /FW)	Training Type (ONC/ OFC)	Category	Sub Theme	Training Title	No. of Courses	Duration (Days)	Participants							
								Gen		SC		ST		Others	
								M	F	M	F	M	F	M	F
SEHORE	F&FW	OFC	Crop Production	Weed Management	Integrated weed management in Soybean	01	01	-	-	-	-	-	-	25	-
SEHORE	F&FW	OFC	Crop Production	Weed Management	Weed management in Wheat	01	01	-	-	-	-	-	-	25	-
SEHORE	FW	OFC	Crop Production	Weed Management	Women friendly weeding equipments and their Operation	01	01	-	-	-	15	-	-	-	10
SEHORE	F&FW	OFC	Crop Production	Crop Diversification	Production technology of Maize crop	01	01	-	-	5	-	5	-	15	-
SEHORE	F&FW	ONC	Crop Production	Integrated Crop management	Production technology of Kharif crops	02	01	-	-	4	-	-	-	21	-
SEHORE	F&FW	OFC	Crop Production	Integrated Crop management	Production technology of summer green gram	01	01	-	-	3	-	9	-	13	-
SEHORE	F&FW	ONC	Crop Production	Integrated Crop management	Production technology of Rabi crop	02	01	-	-	5	-	4	-	16	-
SEHORE	FW	OFC	Crop Production	Others (Nutritional security)	Nutritional security through Fe & carotin rich durum wheat	01	01	-	-	-	9	-	-	-	16
SEHORE	FW	OFC	Horticulture (Vegetable Crops)	Off season vegetables	Kitchen Gardening in Backyard	02	03	-	20	-	8	-	8	-	40
SEHORE	FW	OFC	Horticulture (Vegetable Crops)	Others(Pl. Specify)	Production Organic vegetables for better health	01	01	-	5	-	-	-	-	-	25
SEHORE	FW	OFC	Horticulture (Vegetable Crops)	Others(Pl. Specify)	Production Organic vegetables for better health	01	01	-	9	-	4	-	-	-	17
SEHORE	F& FW	OFF	Horticulture(Plantation crops)	Production and Management technology	Plantation Technique of fruit Plants and their promising varieties	02	2	30	-	6	-	4	-	10	-
SEHORE	F& FW	OFF	Horticulture(Spices)	Production and Management technology	Package & Practices of Garlic cultivation	01	01	5	-	3	-	2	-	15	-
SEHORE	F& FW	OFF	Horticulture(Spices)	Production and Management technology	Package & Practices of Kharif Onion	01	01	5	-	2	-	2	-	11	-
			Horticulture(Spices)	Processing and value addition	-										
SEHORE	F& FW	OFF	Horticulture(Spices)	Others (Horticultural Crop Spices)	Package & Practices of Chilli & Tomato (Hybrid)	01	01	5	-	2	-	2	-	16	-
SEHORE	F& FW	OFF	Horticulture(Spices)	Others (Horticultural Crop Spices)	Package & Practices of Chilli & Tomato (Hybrid)	01	01	3	-	2	-	-	-	20	-
SEHORE	F&FW	OFC	Soil Health and Fertility Management	Soil & water testing	Importance of Soil Testing & Collection of Soil sample	01	01	3	-	2	-	-	-	20	-
SEHORE	F&FW	ONC	Soil Health and Fertility Management	Integrated Nutrient Management	Integrated Nutrient Management in Kharif Crop	01	01	4	-	3	-	2	-	16	-
SEHORE	F&FW	OFC	Soil Health and Fertility Management	Balance Use of fertilizer	Nutrient Management in Kharif Crops	01	01	3	-	-	-	-	-	22	-
SEHORE	F&FW	OFC	Soil Health and Fertility Management	Balance Use of fertilizer	Nutrient Management in Rabi Crops	01	01	3	-	10	-	-	-	12	-
SEHORE	F&FW	ONC	Soil Health and Fertility Management	Micro nutrient deficiency in crops	Micro Nutrient deficiency symptoms & management	01	01	3	-	10	-	-	-	20	-
SEHORE	F&FW	OFC	Soil Health and Fertility Management	Nutrient Use Efficiency	Importance & use of water soluble fertilizer	01	01	4	-	1	-	1	-	19	-

Name of KVK	Category (F &FW /FW)	Training Type (ONC/ OFC)	Category	Sub Theme	Training Title	No. of Courses	Duration (Days)	Participants							
								Gen		SC		ST		Others	
								M	F	M	F	M	F	M	F
SEHORE	F& FW	ONC	**Livestock Production and Management**	Dairy Management	Breeding management in dairy animals	01	01	3	-	2	-	-	-	20	-
SEHORE	F & FW	OFC	**Livestock Production and Management**	Dairy Management	Calf management	01	01	1	-	2	-	-	-	22	-
SEHORE	FW	OFC	**Livestock Production and Management**	Poultry Management	Backyard poultry farming	01	01	-	-	-	-	-	25	-	-
SEHORE	F & FW	OFC	**Livestock Production and Management**	Animal Nutrition Management	Feeding management of animals	01	01	7	-	-	-	-	-	18	-
SEHORE	F& FW	OFC	**Livestock Production and Management**	Disease Management	Parasite management in animals	01	01	1	-	-	-	-	-	24	-
SEHORE	F& FW	OFC	**Livestock Production and Management**	Disease Management	Mastitis management in animals	01	01	2	-	1	-	-	-	22	-
SEHORE	FW	OFC	**Livestock Production and Management**	Disease Management	Disease management in animals	01	01	-	-	-	6	-	-	-	19
SEHORE	F & FW	ONC	**Livestock Production and Management**	Feed & fodder technologies	Round the year green fodder production	01	01	3	-	3	-	2	-	17	-
SEHORE	FW	OFF	**Home Science/Women empowerment**	Household food security by kitchen gardening and nutrition gardening	Household food security by nutritional garden	01	01	-	-	-	7	-	-	-	18
SEHORE	FW	OFF	**Home Science/Women empowerment**	Design and development of low/minimum cost diet	Importance of Balanced diet in daily life	01	01	-	-	-	7	-	-	-	18
SEHORE	FW	OFF	**Home Science/Women empowerment**	Gender mainstreaming through SHGs	Gender mainstreaming through SHGs	01	01	-	-	-	-	-	25	-	-
SEHORE	FW	OFF	**Home Science/Women empowerment**	Value addition	Preservation of seasonal fruits and vegetables	03	01	-	-	-	27	-	-	-	48
SEHORE	FW	OFF	**Home Science/Women empowerment**	Women empowerment	Income generation activities for empowerment of Rural women	01	01	-	8	-	-	-	-	-	17
SEHORE	FW	OFF	**Home Science/Women empowerment**	Women and child care	Health care of Pregnant women, Children &Adolescent girls	01	01	-	-	-	11	-	-	-	14
SEHORE	F&FW	OFF	**Plant Protection**	Integrated Pest Management	Management of insect & Pest in Green gram	01	01	3	-	1	-	8	-	13	-
SEHORE	F&FW	OFF	**Plant Protection**	Integrated Pest Management	Management of sucking pest in Onion & Garlic	01	01	-	-	3	-	-	-	22	-
SEHORE	F&FW	OFF	**Plant Protection**	Integrated Pest Management	Management of Gram Pod borer in Chickpea	01	01	-	-	5	-	-	-	35	-
SEHORE	F&FW	OFF	**Plant Protection**	Integrated Pest Management	Integrated Pest Management in Cucurbits crop	01	01	-	-	2	-	1	-	22	-
SEHORE	F&FW	OFF	**Plant Protection**	Integrated Pest Management	IPM in Soybean for the management of Girdle beetle & Defoliators	01	01	-	-	5	-	10	-	10	-
SEHORE	F&FW	OFF	**Plant Protection**	Integrated Pest Management	Management of sucking pest in onion and garlic	01	01	2	-	2	-	1	-	20	
SEHORE	F&FW	OFF	**Plant Protection**	Integrated Disease Management	Plant Protection measures in Kharif Crops	04	01	4	-	2	-	2	-	17	-
SEHORE	F&FW	OFF	**Plant Protection**	Production of bio control agents and bio pesticides	Importance and use of bio/botanical pesticides in vegetable crop	02	01			2		1		22	
SEHORE	FW	OFF	**Plant Protection**	Others (Plant Protection)	Nursery Management in Vegetable crop	01	01	-	-	-	2	-	2	-	21
SEHORE	FW	OFF	**Plant Protection**	Others (Plant Protection)	Management of Store grain pest	01	01	-	-	-	2	-	1	-	22
SEHORE	F& FW	OFF	**Plant Protection**	Others (Plant Protection)	Importance & Method of Seed treatment	01	01	-	-	2	-	1	-	22	-
SEHORE	FT	ONC	**Agri Extension**	Others (Agri. Extension – Awareness Programme)	Crop insurance	01	01	5	-	2	-	2	-	16	-
SEHORE	FT	OFC	**Agri Extension**	Others (Agri. Extension – Awareness Programme)	Cashless Transaction	01	01	7	-	2	-	-	-	18	-

Table 5.2. Details of Training Programmes conducted by the KVKs for Rural Youth

Name of KVK	Category (RY)	Training Type (ONC/OFC)	Thematic Area of training	Training Title	No. of Courses	Duration (Days)	Participants							
							Gen		SC		ST		Others	
							M	F	M	F	M	F	M	F
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
SEHORE	**RY**		Nursery Management of Horticulture crops											
SEHORE	**RY**		Training and pruning of orchards											
SEHORE	**RY**	OFF	Protected cultivation of vegetable crops	Protected Cultivation of Vegetable crops	01	02	10	-	2	-	2	-	11	-
	RY		Commercial fruit production	-										
SEHORE	**RY**	ONC	Integrated farming System	Integrated Farming System for small & marginal farmers	02	03	30	-	6	-	4	-	10	-
SEHORE	**RY**	ONC	**Others(Horticulture)**	Climate resilience of Horticultural Crops	01	01	10	-	3	-	2	-	10	-
SEHORE	**RY**	**ONC**	Repair and maintenance of farm machinery and implements	Repair and maintenance of farm machinery and implements	01	01	-	-	4	-	-	-	20	-
SEHORE	**RY**		Value addition	Development of high nutrient efficiency diet	01	02	-	-	-	9	-	-	--	16
SEHORE	**RY**		Tailoring and Stitching	Dress Designing and tailoring	01	02	-	-	-	1	-	-	-	24
SEHORE	**RY**		Rural Crafts	Skill Development through Rural Craft	01	02	-	-	-	5	-	-	-	20
SEHORE	**RY**	ONC	Sheep and goat rearing	Goat farming	01	01	2	-	8	-	-	-	10	-
SEHORE	**RY**	ONC	Poultry production	Backyard poultry faming	01	01	-	-	10	-	2	-	8	-
SEHORE	**RY**	ONC	**Others(Balance use of fertilizer)**	Fertilizer application as per soil test value	01	01	3	-	2	-	3	-	18	-
SEHORE	**RY**	ONC	**Others(Plant Protection)**	Calculation of Pesticide dose & preparation of stock solution	02	01	-	-	2	-	2	-	21	-
SEHORE	**RY**	ONC	**Others(Integrated Pest Management)**	IPM module in Soybean, Pigeon pea & Maize crop	03	01	-	-	2		2		21	-
SEHORE	**RY**	ONC	**Others(Integrated Pest Management)**	IPM in Vegetable crop	03	01	-	-	2		3		20	-
SEHORE	**RY**	ONC	**Others(Integrated Pest Management)**	Management of gram pod borer in chickpea crop	02	01	-	-	2		2		21	-
SEHORE	**RY**	OFC	Agri Extension	Role of electronic media in agriculture	01	01	2	-	1	-	1	-	21	-

Table 5.3. Details of Training Programmes conducted by the KVKs for Extension Personnel

Name of KVK	Category (IS)	Training Type (ONC/OFC)	Thematic Area of training (if other please specify name)	Training Title	No. of Courses	Duration (Days)	Participants							
							Gen		SC		ST		Others	
							M	F	M	F	M	F	M	F
1	2	3	4		6	7	8	9	10	11	12	13	14	15
SEHORE	**IS**	ONC	Productivity enhancement in field crops	Improved technology of Soybean & Maize	02	01	-	-	-	-	-	-	25	-
SEHORE	**IS**	ONC	Integrated Pest Management	IPM module in Soybean, Pigeon pea & Maize crop	03	01	-	-	-	-	-	-	25	-
SEHORE	**IS**	ONC	Integrated Pest Management	Plant protection issues in Kharif crops	01	01	-	-	-	-	-	-	25	-
SEHORE	**IS**	ONC	Integrated Pest Management	Plant protection issues in Rabi crops	01	01	-	-	-	-	-	-	25	-
SEHORE	**IS**	ONC	Integrated Nutrient management	Nutrient management in Kharif crops	01	01	24	-	-	-	-	-	-	-

Name of KVK	Category (IS)	Training Type (ONC/OFC)	Thematic Area of training (if other please specify name)	Training Title	No. of Courses	Duration (Days)	Participants							
							Gen		SC		ST		Others	
							M	F	M	F	M	F	M	F
1	2	3	4		6	7	8	9	10	11	12	13	14	15
SEHORE	IS	ONC	Integrated Nutrient management	Importance & use of water & soluble fertilizer	01	01	28	-	-	-	-	-	-	-
	IS		Rejuvenation of old orchards											
	IS		Protected cultivation technology											
	IS		Production and use of organic inputs											
SEHORE	IS	ONC	Women and Child care	Health care of children, Pregnant women & Adolescent girls & Awareness cum training programme on health and hygiene.	02	02	-	5	-	13	-	7	-	25
SEHORE	IS	ONC	Management in farm animals	Feeding management in animals	01	01	8	-	1	-	-	-	16	-
SEHORE	IS	ONC	Management in farm animals	Parasite management in animals	01	01	6	-	-	-	-	-	14	-
SEHORE	IS	ONC	Others(Horticulture)	Integrated Farming System model for higher income	01	01	-	-	-	-	-	-	15	5
SEHORE	IS	ONC	Others (Vegetables crop)	Kitchen Gardening for nutritional and Livelihood security	01	01	-	25	-	-	-	-	-	-
SEHORE	IS	ONC	Others(Horticulture)	Integrated Farming System model for higher income	01	01	20	5	-	-	-	-	-	-
SEHORE	IS	ONC	Agri Extension	Participatory rural appraisal (PRA) for programme planning	01	01	-	-	-	-	-	-	17	1

Table 5.4. Details of Vocational training programmes for Rural Youth conducted by the KVKs

Name of KVK	Thematic Area	Sub Theme	Training title	Name of Crop / Enterprise	Identified Thrust Area	No of Courses	Duration of training (days)	Number of Beneficiaries							
								Gen		SC		ST		Others	
								M	F	M	F	M	F	M	F
	Crop production and management	Commercial floriculture													
SEHORE	**Crop production and management**	Commercial fruit production	High Tech- Horticulture	Vegetables	Income Generation	05	05	-	-	-	-	-	-	10	-
SEHORE	**Income generation activities**	Vermi-composting	Vermi- composting	Enterprises	Income Generation	01	05	2	-	2	1	1	-	5	-
SEHORE	**Post harvest technology and value addition**	Value addition	Value addition, Preservation & storage of fruits & vegetables	Enterprise	Nutritional security	02	05	-	2	-	10	-	-	-	28
SEHORE	**Livestock and fisheries**	Sheep and goat rearing	Goatery management	Goatery	LPM	01	05	-	-	10	-	-	-	-	-
SEHORE	**Income generation activities**	Rural Crafts	Dress designing and tailoring	Enterprise	Income Generation	01	05	-	3	-	2	-	-	-	15
SEHORE	**Income generation activities**	Mushroom cultivation	Mushroom Production Technology	Enterprise	Income Generation	05	05	4	-	1	-	-	-	5	-
SEHORE	**Income generation activities**	**Others(Income Generation-PLP)**	Bee Keeping	Enterprise	Income Generation	05	05	3	-	3	-	-	-	14	-
SEHORE	**Income generation activities**	**Others(Income Generation-PLP)**	Plant Clinic	Enterprise	Income Generation	05	05	3	-	-	-	-	-	7	-
SEHORE	**Income generation activities**	**Others(Horticulture)**	Establishment of High- tech Nursery	Vegetables	Income Generation	05	05	-	-	3	-	2	-	5	-

Table 5.5. Sponsored Training Programmes

Name of KVK	Client (F&FW/FW/ RY/ IS)	Title	Thematic area	Sub-theme	Training Title	Duration (days)	No. of courses	No. of Participants								Sponsoring Agency	Fund received for training (Rs.)
								Gen		Others		SC		ST			
								M	F	M	F	M	F	M	F		
SEHORE	F&FW	PLP	**Plant Protection**	**Others(Plant Protection)**	Farmer Training on Safe & Judicious use of Pesticides	01	01	10	06	282	10	34	-	8	-	HIL, (India) Limited, Bhopal	1,66,000.00
SEHORE	F&FW	CMP	**Crop Production**	**Others(Awareness Programme)**	Farmers Training WDRA Awareness Programme	01	01	5	-	37	-	5	-	3	-	WDRA, New Delhi	50,500.00

Table 5.6. Details of training programme conducted for livelihood security in rural areas by the KVKs

Name of KVK	Training title	Self employed after training			Number of persons employed else where
		Type of units	Number of units	Number of persons employed	
SEHORE	Goatry Management	10	03	03	-

Table 5.7 Training Programmes for Panchayati raj Institutions Office-bearers & members – *Nil*

Name of KVK	Title	Thematic area	Sub-theme	Client (FW/ RY/ IS)	Dura-tion (days)	No. of courses	No. of Participants								Sponsoring Agency	Fund received for training (Rs.)
							Gen		Others		SC		ST			
							M	F	M	F	M	F	M	F		
SEHORE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 5.8 Subject area wise details of women farmer specific training programmes organized by KVKs during Jan-Dec-2019

Area of Training	Jan-Dec-2019	
	Courses	Participants
Household food security by kitchen gardening and nutrition gardening	04	150
Design and development of low/minimum cost diet	01	25
Designing and development for high nutrient efficiency diet	01	25
Minimization of nutrient loss in processing	-	-
Processing and cooking	-	-
Gender mainstreaming through SHGs	01	25
Storage loss minimization techniques	01	25
Value addition	05	115
Women empowerment	01	25
Location specific drudgery reduction technologies	-	-
Rural Crafts	02	45
Women and child care	02	50
Others-Agro-Based IGP programme Training Exposure on Sustainable Agriculture	-	-

Table 5.9 Subject area wise details of other than women farmer specific training programmes organized by KVKs during Jan-Dec-2019

Area of Training	Jan-Dec-2019	
	Courses	Participants
Crop Production	-	-
Horticulture	06	190
Soil Health and Fertility Management	-	-
Livestock Production and Management	01	25
Agril. Engineering	-	-
Plant Protection	-	-
Fisheries	-	-
Production of Input at site	-	-
Capacity Building and Group Dynamics	-	-
Agro forestry	-	-

Table 5.10 Evaluation/Follow up & Impact of the training programmes conducted by the KVK (all types of trainings)

Name of KVK	Title of the training	No. of trainees	Change in knowledge (Score)		Change in Production (q/ha)		Change in Income (Rs./ha or Rs./ year)		Impact on		
			Before	After	Before	After	Before	After	% change in knowledge, production & Income	No. of farmers/farm women adopted (no.)	No. of unit established/Area expanded (ha)
SEHORE	Production Technology of Hybrid Maize	25	15	35	45-5	55-60	49400	61367	57.0%	35	25
SEHORE	Production Technology of Wheat	25	20	40	48-52	58-60	73241	93753	50%	50	100
SEHORE	Calculation of herbicides and its preparation	25	10	30	12	14	12000	14000	66%	40	20
SEHORE	Nutritional Security through Durum Wheat	25	10	20	-	-	-	-	50%	25	-
SEHORE	Mushroom Production	15	-	33.	33.33	-	-	-	33.33%	15	-
SEHORE	Bee keeping	20		50	-	-	-	-	50%	20	-
SEHORE	IPM in Kharif Crop (Soybean)	25	10	15	12.45	16.86	15702.8	27891.6	33.33%	25	-
SEHORE	IPM in Rabi Crop	25	7	13	23.8	28.2	51100	62400	46.15%	25	-
SEHORE	IPM in Chickpea	25	10	14	16.03	21.27	49545	71055	28.57%	25	-
SEHORE	Kitchen Gardening for Nutritional Security	25	17	21	-	-	-	-	30.37%	25	-
SEHORE	Value addition in Seasonal crops	45	08	19	-	-	-	-	50%	45	-
SEHORE	Dress Designing and tailoring	25	15	25	-	-	-	-	66.6%	25	-
SEHORE	Nutritional management of Children & Pregnant women	50	08	19	-	-	-	-	50%	50	-
SEHORE	Nutrition, Health and Hygiene	25	07	19	-	-	-	-	52.18%	25	-
SEHORE	Skill Development for Craft Material	20	09	18	-	-	-	-	42.85%	20	-
SEHORE	Impact of soil testing & collection of Soil samples	25	**3**	**7**	-	-	-	-	40 %	**25**	-
SEHORE	Integrated nutrient management in Kharif Crop	25	4	7	12.24	14.24	20339	24490	20 %	19	15
SEHORE	Nutrient Management in Kharif Crop	25	4	8	12.74	14.82	18119	23415	16.32 %	15	12
SEHORE	Nutrient Management in Rabi Crop	25	4	8	48.52	57.64	57936	72900	18.19%	24	15
SEHORE	Importance & use of water soluble fertilizer	25	4	7	9.22	10.29	13394	17364	29%	25	8
SEHORE	Fertilizer application as per soil test value	25	3	6	49.50	57.32	58374	72349	17%	15	9
SEHORE	Vermi Composting	11	2	10	-	-	-	-	100 %	20	10

6. EXTENSION ACTIVITIES

Name of the KVK	Activity	No. of activities (Targeted)	No. of activities (Achieved)	Detail of Participants (only in no.) *								Remarks		
				Farmers (Others)		Farmers SC		Farmers ST		Extension Officials		Purpose	Topics	Crop Stages
				M	F	M	F	M	F	M	F			
SEHORE	Agri mobile clinic	-	-	-	-	-	-	-	-	-	-	-	-	-
SEHORE	Animal Health Camp	03	03	120	-	15	-	01	-	07	-	-	-	-
SEHORE	Awareness programme	04	06	1315	205	216	78	251	-	49	15	Awareness Programme	WDRA awareness, Parthenium Eridication week, Pradhanmantri fasal bema yojana, Swachhta hi sewa, ndian constitution & Swachhta Pakhwada	-
SEHORE	Celebration of important days	04	06	186	-	27	-	08	-	12	01	Popularization of latest technology	World Food day, Kisan Diwas, Kisan Mahila Diwas, World Environment day, Sewa Diwas, National Swachhta Day, World Women day, World Water Day	-
SEHORE	Diagnostic visits	12	11	38	-	04	-	04	-	07	-	-	-	-
SEHORE	Exhibition	10	07	1045	121	281	109	78	59	35	05	Popularization of Technology	Farmer Fair, Pri Rabi Camp. HIL india ,WDRA	-
SEHORE	Exposure visits	02	-	-	-	-	-	-	-	-	-			
SEHORE	Ex-trainees Sammelan	03	02	54	-	06	-	01	-	-	-	Need assessment & feedback	Impact of Kharif crops Impact of Rabi crops	Standing crops
SEHORE	Farm advisory Services	48	43	1150	72	285	35	101	07	37	-	-	-	-
SEHORE	Farmers visit to KVK	4000	4561	2526	357	629	224	398	170	123	34	-	-	-
SEHORE	Field Day	22	20	498	38	74	12	37	23	03	01	Popularization of technology	IDM in chilli	Maturity stage
													IDM in chickpea	Maturity stage
													Management of sucking pest in Rabi onion crop	Maturity stage
													Nutrient Management in garlic	Maturity stage
													Demonstration of wheat variety HI- 8713	Maturity stage
													Demonstration of weed management of wheat crop	Maturity stage
													Cropping system Okra-Spinach- Onion	Maturity stage
													Kitchen garden	Productive stage
													Garlic G- 282	Maturity stage
													IPM in soybean	Maturity stage
													IPM in hybrid maize	Maturity stage

Name of the KVK	Activity	No. of activities (Targeted)	No. of activities (Achieved)	Detail of Participants (only in no.) *								Remarks		
				Farmers (Others)		Farmers SC		Farmers ST		Extension Officials		Purpose	Topics	Crop Stages
				M	F	M	F	M	F	M	F			
													Production technology of Green gram	Maturity stage
													INM in Hybrid Maize	Maturity stage
													Kharif onion variety Bheema supar	Productive stage
													Buffalo calf management practices	-
													INM in Soybean & Wheat	Maturity stage
													FIRBS machine in soybean	Maturity stage
													Demonstration of Hybrid Maize	Maturity stage
													Nutrient management in Wheat	Maturity stage
													Foliar Spray of Potassium in Soybean	Maturity stage
SEHORE	Group meetings	18	12	116	27	38	09	26	03	02	01	Need Assessment & Feedback	Nursery Management	-
													Vegetable Production	-
													Protected Cultivation	-
													Kitchen Gardening	-
													PMFBY	-
													PMFBY	-
													PMKSY	-
													Soil Health Management	-
													Nutrient Management	-
													Care of Animal in winter	-
SEHORE	Kisan Ghosthi/Sammelan	03	03	180	-	25	-	26	-	05	-	Feedback & popularization of technology	Production technology of kharif crop	Standing crop
													IPM in kharif crops	Standing crop
													IPM in Rabi crops	Standing crop
SEHORE	Kisan Mela	01	01	252	227	82	64	39	23	20	10	Awarness for latest agri technology	Doubling income of farmer	Standing crop
SEHORE	Krishi Mahotsav	-	-	-	-	-	-	-	-	-	-	-	-	-
SEHORE	Lectures delivered as resource persons	60	63	-	-	-	-	-	-	As per programmes			-	-
SEHORE	Mahila Mandals conveners meetings	-	-	-	-	-	-	-	-	-	-	-	-	-
SEHORE	Method Demonstrations	08	06	45	25	19	13	12	10	02	04	Capacity building	soil sampling	Before of sowing
													soil sampling	

Name of the KVK	Activity	No. of activities (Targeted)	No. of activities (Achieved)	Detail of Participants (only in no.) *								Remarks		
				Farmers (Others)		Farmers SC		Farmers ST		Extension Officials		Purpose	Topics	Crop Stages
				M	F	M	F	M	F	M	F			
													soil sampling	
													Layout of Kitchen Garden	
													Seed treatment	At the time of Sowing seed
													Filling of Plug Tray	
SEHORE	Pradhanmantri phasal beema yojana	04	03	41	-	07	-	07	-	-	-	Awareness	Pradhan Mantri Fasal Beema Yojana	Before & After of sowing Kharif & Rabi crops
SEHORE	Scientific visit to farmers field	170	159	475	50	144	20	24	10	-	10	-	-	-
SEHORE	Self Help Group conveners meetings	-	-	-	-	-	-	-	-	-	-	-	-	-
SEHORE	Soil health Camp	01	01	25	-	05	-	19	-	-	-	Capacity building	Soil health management	Before crop sowing
SEHORE	Soil test campaigns	01	-	-	-	-	-	-	-	-	-	-	-	-
SEHORE	Technology Week	01	-	-	-	-	-	-	-	-	-	-	-	-
SEHORE	Extension literature	08	06	-	-	-	-	-	-	-	-	-	Production technology of chickpea, Wheat & Root aphid of wheat , Soya product etc.	-
SEHORE	Film Show	12	08	169	92	51	19	31	14	09	05	Awareness of agriculture technology	Related to training programme	-
Others Programmes :-														
SEHORE	Workshop	01	01	62	-	10	-	06	-	18	-	Feedback & Popularization of technology	Vaccination of disease control and artificial insemination	-
SEHORE	Interface	02	02	68	-	17	-	18	-	05	01	Feedback & Popularization of technology	Production technology of Rabi crops	Standing crop
													Production technology of Kharif crops	Standing crop
SEHORE	Farmers seminar	01	01	180	-	33	-	27	-	-	-	Popularization of technology	Use of balance fertilizer application	Before sowing of Rabi crops
SEHORE	Newspaper Coverage	100	76	-	-	-	-	-	-	-	-	Mass	Important activities	-
SEHORE	Clean india campaign	48	41	282	69	116	29	102	28	12	05	-	Swachh Bharat Abhiyan	-
SEHORE	Celebration International day Programme	02	02	27	50	04	19	-	06	-	04	Awareness	World breast feeding week, National nutrition month	-
SEHORE	Animal Disease Control Awareness Programme	-	01	62	-	10	-	06	-	18	-	Awareness	Awareness on NADCP (National animal disease control programme)	-
SEHORE	Fertilizer awareness Programme	-	01	180	-	33	-	27	-	05	-	Awareness	Balance use of fertilizer	-
SEHORE	Mega Plantation Programme	-	01	62	-	10	-	06	-	05	-	Awareness	Sustainable Agriculture	-

Mass media used for wide publicity

Name of media	Number of events	Name of channel/ Newspaper used	Place of delivery or publication	Coverage of the media (Local/ Regional/National)
Radio talks	-			
TV talks	13	Doordarshan	Doordarshan	Mass
Newspaper coverage	76	Hari Bhumi, Dainik Bhaskar, Patrika, Nav Duniya, Nav Bharat	District Level News coverage paper	Mass
Internet (Youtube)	-	-	-	-
Social media (Whats App, Facebook, Instagram, Twitter etc.)	110	Facebook & Whatsapp Instagram	At KVK, Sewania	Mass

7. Literature Developed/Published (with full title, author & reference)

7.1 KVK Newsletters (Jan to Dec. 2019)

KVK Name	Period	Quarter	Number of copies printed	Number of copies distributed	Type of beneficiaries receiving the newsletter (Farmer, District/block/Panchayat Official, D.M. etc.
SEHORE	January to March 2019	Q1	1000	1000	Farmer & Extension officials
SEHORE	April to June 2019	Q2	1000	1000	Farmer & Extension officials
SEHORE	July to September 2019	Q3	-	-	-
SEHORE	October to December 2019	Q4	1000	1000	Farmer & Extension officials

7.2 Literature developed/published

KVK Name	Type	Number of copies (please don't give mass please
SEHORE	Abstract	-
SEHORE	Book	-
SEHORE	Book Chapter	-
SEHORE	Booklet	-
SEHORE	Leaflets (Seed Treatment, IPM in Chickpea, Production technology of Wheat, Chickpea, Soybean, Maize, Kitchen gardening, etc.) & Pamphlet - Root aphid in Wheat	8000 nos.
SEHORE	Popular article	-
SEHORE	Technical Bulletin	-
SEHORE	Training Manual	-
SEHORE	Technical Report (NFL Demo. under Rabi -05Nos., Cluster Demo. under Rabi (Pulses- Chickpea) 05Nos., Cluster Demo. under Kharif (Soybean) 05 Nos.	15
SEHORE	Year Planner	225

KVK Name	Type	Number of copies (please don't give mass please
SEHORE	Others (Contingent Plan 2019-20)	100

Research paper /Review paper published during Jan to Dec. 2019

Name of KVK	Title of Research/Review paper	Authors/credit line	Name of Journal	Type of journal (National/International)	NASS Rating (2020) /impact factor
SEHORE	Mirid bugs as an emerging threat to bottle gourd cultivation in India : dynamics and bioregional Management	Deepak Kushwaha	Journal of Agriculture Science & Technology	International	6.19
SEHORE	Interaction effects between Entomopathogenic fungi and neonicotinoid insecticides against lipaphis erysimi in vegetables ecosystem	Deepak Kushwaha	International Journal of Agricultural Sciences	International	6.65

7.3 Details of Electronic Media Produced

KVK Name	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
SEHORE	-	-	-

8. Production and supply of Technological products

8.1 SEED production

KVK Name	Major group/class	Crop	Variety	Quantity (qt.)	Value (Rs.)	Provided to No. of Farmers	Expected area coverage (ha.)
SEHORE	Cereal	Wheat	HI-1605	33.20	101260.00	34	28.5
SEHORE		Wheat	C- 306	6.95	-	-	Sown at KVK Farm
SEHORE	Pulses	Pigeon pea	TJT- 501	1.75	1600.00	05	150kg. mundi sale
SEHORE		Chick pea	RVG- 202	22.50	126375.00	50	20
SEHORE		Chick pea	JAKI -9218	2.5	15000.00	02	2.5
SEHORE	Spice	Garlic	G-282	3.50	55750.00	03	01
SEHORE	Horticulture Seed	Drumstick	PKM-1	0.154	30800.00	15	-

8.2 Planting Material production

KVK Name	Major group/class	Name of Crop	Variety	Nos.	Value (Rs.)	Provided to No. of Farmers	Expected area coverage (ha.)
SEHORE	Fruit	Drumstick	PKM-1	1000	2000.00	66	-
SEHORE		Papaya	Vinayak Hybrid	500	8250.00	50	-
SEHORE	Vegetable	Chilli	Hybrid	10000	10000.00	146	Provided to farmers under gate vole
SEHORE		Brinjal	Hybrid	10000	10000.00	228	
SEHORE		Tomato	Hybrid	10000	10000.00	235	
SEHORE		Onion	Bheema Supper	5000	5000.00	128	
SEHORE	Flower	Marigold	Hybrid	10000	10000.00	114	
SEHORE		Gladiolus	Hybrid	2500	7500.00	08	

8.3 Production Units (bio-agents / bio pesticides/ bio fertilizers etc.)

*** Name of product should follow same pattern**

KVK Name	List of Major Group Bio agent/Bio fertilizers/Bio Pesticides	Name of the Product	Qty (in Kg)	Qty (in No.)	Value (Rs.)	Provided to no. of Farmers	Expected area coverage (ha.), if applied
SEHORE	**Bio Fertilizers**	Vermi compost	60000	04	120000.00	03	12
SEHORE		Earthworms	200	04	28400.00	15	-
SEHORE		Compost	12000	-	24000.00	-	3
SEHORE		NADEP	18000	04	36000.0	-	3
	Bio Pesticides	Neem extract	-	-	-	-	-
		Neem powder	-	-	-	-	-
		Tobacco extract	-	-	-	-	-
		Trichoderma viride	-	-	-	-	-
		Trichoderma harjinum	-	-	-	-	-
		Trichogramma chilonis	-	-	-	-	-
		Beauveria bassiana	-	-	-	-	-
		Metarhizium anisopliae	-	-	-	-	-
		Pseudomonas fluorescens	-	-	-	-	-
		SlNPV	-	-	-	-	-
		HaNPV	-	-	-	-	-
		GF1	-	-	-	-	-
		Baco Lures	-	-	-	-	-
		Heli Lures	-	-	-	-	-

KVK Name	List of Major Group Bio agent/Bio fertilizers/Bio Pesticides	Name of the Product	Qty (in Kg)	Qty (in No.)	Value (Rs.)	Provided to no. of Farmers	Expected area coverage (ha.), if applied
		Leucin Lures	-	-	-	-	-
		Paeciliomyces	-	-	-	-	-
		Panchagavya	-	-	-	-	-
		Verticillium	-	-	-	-	-
SEHORE	**Bio Agents(Worms)**	Assinia foetida	200	04	28400.00	15	-
SEHORE		Cow dung (dry)	44250	-	35400.00	Used at KVK Farm	-

8.4 Livestock and fisheries production

KVK Name	Type	Name of the animal / bird / aquatics	Breed	Type of Produce	Quantity		Value (Rs.)	No. of Beneficiaries
					unit (kg/qt./liter/no)	Qty.		
SEHORE	Dairy Animals	Cow	Gir	Heifer	06	-	3,31,000.00	06

9. Activities of Soil and Water Testing Laboratory

9.1 Details of soil samples analyzed during Jan to Dec. 2019 :

KVK Name	Status of establishment of Soil testing Laboratory (Y/N) and year, if yes	Soil Testing Kits till date		No of soil samples		No. of Samples analyzed			No. of Farmers benefited			No. of Villages covered	Amount realized	Soil health card distributed to the farmers by KVK (Nos)	
						by KVKs		By Department	By KVK		By Department			Through Mini Soil Testing kit	Through Soil testing laboratory
		Sanctioned	Procured	Collected by KVKs	Provided by Dept./ DDA	Mini Soil Testing kit	Soil testing laboratory		Mini Soil Testing kit	Soil testing laboratory					
SEHORE	**Yes & 2012**	**-**	**-**	**130**	**2000**	**-**	**130**	**3692**	**-**	**130**	**-**	**84**	**-**	**-**	**130**

9.2 Details of water samples analyzed so far : *Nil*

KVK Name	No. of Samples	No. of Farmers	No. of Villages	Amount realized	Test report distributed to the farmers (Nos)
SEHORE	-	-	-	-	-

10. Rainwater Harvesting – *Nil*

10.1. Training programmes conducted by using Rainwater Harvesting Demonstration Unit

Name of KVK	Date	Title of the training course	Client (PF/RY/EF)	No. of Courses	No. of Participants								
					SC		ST		Other		General		Total
					Male	Female	Male	Female	Male	Female	Male	Female	
SEHORE	-	-	-	-	-	-	-	-	-	-	-	-	-

10.2. Information of Visit in Rainwater Harvesting Demonstration Unit - *Nil*

Name of KVK	No. of Training programmes under Rain water Harvesting	No. of Demonstration s	No. of plant materials produced	Visit by farmers (No.)	Visit by officials (No.)
SEHORE	-	-	-	-	-

11. Training Programmes on Micro irrigation (Drip and Sprinkler) -*Nil*

Name of KVK	Date	Title of the training course	Client	No. of Courses	No. of Participants								
					SC		ST		Other		General		Total
					Male	Female	Male	Female	Male	Female	Male	Female	
SEHORE	-	-	-	-	-	-	-	-	-	-	-	-	-

12. Utilization of Farmers Hostel facilities

KVK Name	Months	Year	No. of trainees/ farmers/ visitors stayed	Duration of Stay (days)	Reason for vacant farmers hostel (if any)	Accommodation available in F.H. (No. of beds)
SEHORE	January	2019	Capacity Building Training by Bandhan KOA Nagar, Bhopal	03	-	40 Nos. Beds
SEHORE	January	2019	Capacity Building Training by Bandhan KOA Nagar, Bhopal	03	-	40 Nos. Beds
SEHORE	January	2019	Capacity Building Training NYC by NYK, Sehore (M.P.)	03	-	40 Nos. Beds
SEHORE	January	2019	Skill Development Training by KVK High tech Horticulture	05	-	40 Nos. Beds
SEHORE	January	2019	Capacity Building Training NYC by NYK, Sehore (M.P.)	03	-	40 Nos. Beds
SEHORE	January	2019	Farmers Training by ATMA, Rajgrah (M.P.)	05	-	40 Nos. Beds
SEHORE	January	2019	Farmer Exposure visit by ATMA, Agarmalva (M.P.)	01	-	40 Nos. Beds
SEHORE	February	2019	Exposure visit by CADMAP, Bhopal	03	-	40 Nos. Beds

SEHORE	March	2019	Farmers Exposure visit by Dept. of Horticulture, Hoshangabad	01	-	40 Nos. Beds
SEHORE	March	2019	Farmers Training by BSLD,BAIF, Bina, Dist- Sagar (M.P.)	02	-	40 Nos. Beds
SEHORE	March	2019	Skill Development Training by KVK Bee Keeping	05	-	40 Nos. Beds
SEHORE	May	2019	Farmers Exposure visit under M.M.Kh.T.Y. by ATMA, Vidisha	01	-	40 Nos. Beds
SEHORE	June	2019	Skill Development Training by KVK – Plant Clinic	05	-	40 Nos. Beds
SEHORE	July	2019	RY Training IPM in Soybean, Pigeon pea, Black gram etc. by KVK	01	-	40 Nos. Beds
SEHORE	July	2019	Farmers Training by CIPA Samarthan, Sehore	04	-	40 Nos. Beds
SEHORE	August	2019	Farmers Training & Exposure Visitby CIPA Samarthan, Sehore	01	-	40 Nos. Beds
SEHORE	October	2019	Farmers Exposure Visit by IIFT, Dehradoon	01	-	40 Nos. Beds
SEHORE	November	2019	Farmers Exposure visit under MMKhTY by Agri. Dept. Vidisha	01	-	40 Nos. Beds
SEHORE	November	2019	Farmers Exposure visit under MMKhTY by Agri. Dept. Vidisha	01	-	40 Nos. Beds
SEHORE	December	2019	Skill Development Training By KVK – Goatry Farming	05	-	40 Nos. Beds
SEHORE	December	2019	Farmers Exposure visit under MMKhTY by Agri. Dept. Vidisha	01	-	40 Nos. Beds
SEHORE	December	2019	Farmers Exposure visit under MMKhTY by Agri. Dept. Vidisha	01	-	40 Nos. Beds
SEHORE	December	2019	Skill Development Training by KVK- Vermi Composting	05	-	40 Nos. Beds
SEHORE	December	2019	Skill Development Training by KVK- Mashroom Production	05	-	40 Nos. Beds

13. Utilization of Staff Quarters facilities

KVK Name	Year of construction	Year of allotment	No. of quarters occupied	No. of quarters vacant	Reasons for vacant quarters, if any
SEHORE	2010-11	2010-11	06	02	-

14. Details of SAC Meeting during Jan to Dec. 2019

KVK Name	Date of SAC meeting 2019	No. of SAC members (only) attended	Major action points*
SEHORE	**24/09/2019**	**33**	-KVK Aware the farmers for their doubling income through Integrated Farming System - KVK motivate about water conservation, soil conservation, organic farming & sustainable agriculture. - Motivate latest Agricultural Farm Machineries & tools. -KVK aware to farmer for Zero budget farming. -KVK aware to farmer for soil health card based use of fertilizer application. - KVK creates awareness about plantation of fruit plant and established of kitchen garden. -Motive about back yard poultry. -KVK motivate about food processing and value added product and their marketing. -KVK aware to farmers for safe store of produce and their management.
SEHORE	**16/10/2019**	**16**	- Aware to farmers about crop diversification. - Effective management of crop residues and other materials by waste decomposer & NADEP composting method. - More extension of farm mechanization.

			- KVK Establish the Rapid composting unit for farmers. - KVK Provide quality planting material to farming community. - Promote integrated farming system. - KVK published their work in different journal & magazine for Extension.

15. Footfall of farmers in KVKs (Jan. 2019 to Dec. 2019)

Name of KVK	Footfall during 2019			
	No. of Farmers	No. of officials	No. of VIPs	Total
SEHORE	4561	280	17	4858

***Separate JPEG Photographs (2-3 only)**

16. Status of Kisan Mobile Advisory (KVK-KMA)

KVK	S. No.	Thematic area	Particulars	No of Calls	No of Messages sent	No. of farmers received messages	Total no of villages in District	No of village Covered by KVK through KMA
SEHORE	1	Crop Management	Crop Production Technology	6850	07	33168	1049	1049
			Integrated Farming	-	-	-	-	-
			Field Preparation	285	01	34125	1049	1049
			Any Other (Specify)		-			
	2	Weather	Advisory	650	02	34227	1049	1049
			Change in variety	-	-	-	-	-
			Change in Sowing technique	-	-	-	-	-
			Climate forecast	-	-	-	-	-
			Any Other (Specify)	-	-	-	-	-
	3	Soil Management	Soil Testing	758	02	33182	1049	1049
			INM	2050	04	34102	1049	1049
			Fertilizer Application	690	03	33165	1049	1049
			Vermi composting/ bio-waste recycling	-	-	-	-	-
			Bio-fertilizer	-	-	-	-	-
			Any Other (Specify)	-	-	-	-	-
	4	Disease & Pest Management	Disease Management	1225	02	34457	1049	1049
			Pest Management	1338	03	33582	1049	1049
			Preventive Advisory Disease Management	-	-	-	-	-
			Preventive Advisory Pest Management	2251	04	34205	1049	1049
			Bio-pesticides	-	-	-	-	-
			Any Other (Specify)	-	-	-	-	-

KVK	S. No.	Thematic area	Particulars	No of Calls	No of Messages sent	No. of farmers received messages	Total no of villages in District	No of village Covered by KVK through KMA
	5	Nutrition Security & Women Empowerment	Nutrition Awareness	425	01	34202	1049	1049
			Kitchen garden	-	-	-	-	-
			Value Addition and Processing	390	01	34205	1049	1049
			Drudgery Reduction	-	-	-	-	-
			Entrepreneurship & Income Generation	-	-	-	-	-
			Advisory	-	-	-	-	-
			Any Other (Specify)	-	-	-	-	-
	6	Horticulture	Vegetable	2885	02	34228	1049	1049
			Fruit	1215	01	34115	1049	1049
			Hi Tech Horticulture	2250	01	34157	1049	1049
			Any Other (Specify)	-	-	-	-	-
	7	Livestock	Feed and Fodder	800	02	34115	1049	1049
			Dairy Management	1280	04	34257	1049	1049
			Fisheries	-	-	-	-	-
			Poultry Management	-	-	-	-	-
			Vaccination & Disease management	1258	03	34257	1049	1049
			Any Other(Specify)	-	-	-	-	-
	8	Farm Mechanization		-	-	-	-	-
	9	Extension		-	-	-	-	-
	10	Organic Farming		-	-	-	-	-
	11	Marketing		-	-	-	-	-
	12	Awareness		-	-	-	-	-
	13	Other Enterprise		-	-	-	-	-
	14	Any Other(Specify)		550	01	34256	1049	1049

17. Status of Convergence with various agricultural schemes (Central & State sponsored)

KVK Name	Name of scheme	Name of Agency (Central/state)	Funds received (Rs.)	Activities organized	Operational Area	Remarks
SEHORE	Demonstration under NFL	NFL, Bhopal	12,000.00	Demo. in Rabi – wheat crop	Block – Sehore	06 No. of Demo.
SEHORE	Farmers Training	HIL (India) Limited	1,66,000.00	Farmers Training Safe & Judicious use of Pesticide	Entire District	-
SEHORE	WDRA Awareness Programme	WDRA, New Delhi	50,500.00	Awareness to WRDA	Entire District	-
SEHORE	Cluster Demonstration	ATARI, Zone – IX, Jabalpur	2,92,375.00	Pkg. demo of Chickpea in Rabi, 2018-19	Block – Nasrullaganj, Sehore	75 No. of Demo
			67,500.00	Pkg. demo of Soybean in Kharif – 2019	Block – Ichhawar	25 Nos. Demo.

SEHORE	Cluster Demonstration	ATARI, Zone – IX, Jabalpur	2,43,000.00	Pkg. demo of Chickpea in Rabi, 2019-20	Block – Nasrullaganj, Sehore	75 No. of Demo

18. Status of Contingency Utilization Jan-Dec-2019

Name of KVK	Total Contingency allotted (Rs.)	Fund used by KVKs (Rs)			Balance (Rs.)
		Activities	No of Activities	Exp (Rs)	
SEHORE	15,27,055.00	OFT		95,750.00	**0.00**
		FLD **(other than CFLD)**		1,22,979.00	
		Training	85	2,52,326.00	
		Extension Activities	244	1,79,234.00	
		SAC Meeting	02	16,856.00	
		Special Programme (**WDRA Aware Programme**)	01	50,500.00	
		Special Programme (Pre Rabi Mela)	01	80,000.00	
		Special Programme (Kisan Mela)	01	4,00,000.00	
		Special Programme (Animal Disease Control Aware Programme)	01	15,000.00	
		Special Programme (Plantation Awarness Programme)	01	10,000.00	
		Others (**Office Contingency**)		3,38,553.00	
		Others (**POL**)	-	3,62,574.00	
		Others (**Printing & Publication**)	-	1,29,996.00	
		Others (**Other Expense**)	-	28,787.00	

19. Status of Revolving Funds (Rs.)

KVK Name	Account No.	Opening balance on 01 .01.2019 (Rs.)	Closing balance 31.12.2019 (Rs.)	Name of major source of revolving fund
SEHORE	10637865071	2,31,847.38	69,928.70	Seed sale, Farm Produce Orchard, Earth Warms, Planting material, Live stock & Farmers Hostel stay charges

20. Awards & Recognitions

KVK Name	Name of award /awardees	Type of award (Ind./Group/Inst./Farmer)	Award category (local/ Regional/ National)	Awarding Organizations	Amount received
SEHORE	-	-	-	-	-

21. Details of Crop cafeteria in Agro-technological Park in your KVK.

Area covered under crop cafeteria (sq. meter)	Type of crop (Cereals, Pulses, Oilseeds, Vegetables, medicinal, Spices, fruits etc.)	Name of crop	Name (s) of variety	Name of best variety of concerned crop
4000 (Kharif Season)	Cereals	Paddy	Kranti, Sehbhagi, P.B.-1, P.B.- 1121, P.B.- 1509	P.B.-1
		Maize	Hybrid- AHC- 2595, INDAM- 1122, PAC- 751, INDAM-1205, INDAM-1501	INDAM- 1501
	Pulses	Pigeaon pea	UPAS- 120, PUSA-16, JKM-183, ASHA, TJT-501, IPA-2010-30-5	TJT- 501
		Green gram	SHIKHA, VIRAT, IPM- 2-3	SHIKHA
		Black gram	PU-1,UTTARA, IPU-2-43	UTTARA
	Oilseeds	Soybean	RVS- 2011-1, JS-2096, JS-2029, RKS-24, PAC-1082, JS-2117, JS-2098, JS-20-116, JS-2053, JS- 2069, JS-9560, JS-2094, RVS-24, RVS-76, RVS- 2001-04, RVS-18, PS-15	RVS-18, PS-1569, JS-2069
		Seasamum	TKG- 22, TKG-21, TKG-55, TKG-306, TKG- 308, GTS-8	TKG- 55
4000 (Rabi Season)	Cereals	Wheat	HI-8713, HI- 8736, HI-**8759,** HI-1544, HI-1454, HI-1605, HI-1612, HI-8777, HI- 8663, GW-451, GW-366, JW-3288, JW- 3382, MP- 1202,MP-1203, MPO- 1215, HD- 2962, DBW- 110,	HI-8769, HI-8713
	Pulses	Chickpea	RVG- 202,RVG- 203, RVG- 204, RVG-205, SHUBHRA, JAKI- 9218, VIKRAM PHULE, KAK-2, PKV-4, JKG-3, JG- 412, JG- 16, JG-11	RVG-202,RVG-204, VIkram phule
		Lentil	JL-3	JL-3
		Pea	Arkel	Arkel
	Oilseed	Mustard	Hybrid-5222	Hybrid- 5222
		Castor	NARI- 6	NARI- 6
		Linseed	JLS-9	JLS-9
	Vegetable	Garlic	G-282, G-384	G-282
		Fenugreek	RMT- 305	RMT- 305

22. Farm Innovators- list of 10 Farm Innovators from the District*

Sr. No.	Name of KVK	Name of Farm Innovator	Name of the Innovation	Address of the farm innovator with pin code	Mobile No.
1	SEHORE	Mr. Samandar Singh	Vermi Composting (Low cost portable vermicompost bed	Village- Sukaliya Hasan, Block- Ichhawar, District- Sehore (M.P.)	9829910776

23. KVK interaction with progressive farmers

KVK Name	Date and month of interaction programme with progressive farmers	No. of progressive farmers participated
SEHORE	26/09/2019	`120

24. Outreach of KVK

Name of KVK	Total number of Block/villages in district		Number of Blocks		Number of Villages	
	Block	Village	Intensive	Extensive	Intensive	Extensive
SEHORE	05	1049	04	05	25	925

Intensive- OFTS, FLDS etc

Extensive- Literatures, Publications, and Awareness programmes etc.

25. Technology Demonstration under Tribal Sub Plan on Pulses/ Programme on Harnessing Pulses/ Quality Protein Maize, if applicable. – Nil

KVK Name	Name of crop under Technology demonstration	Area under the programme/ Demonstration	No. of Farmers benefited	No of Villages Covered	No. of Extension Activities	No. of Farmers benefited by extension activities	Results/ Observation *
SEHORE	-	-	-	-	-	-	-

***Attached separate File**

26. KVK Ring

KVK Name	Name of Ring Partner	Name of activities/Events organized in collaboration	No. of Participants		Lessons learnt/ Experiences gained.
			Your KVK	Other KVK	
SEHORE	KVK, Shajapur				Knowledge
SEHORE	KVK, Rajgrah				Knowledge

27. Important visitors to KVK

Name of KVK	Name of Visitor	Date of Visit	ICAR	SAUs	Others	Remarks
SEHORE	Dr. Rajiv Pandey, Assistant Professor, Rajiv Gandhi Tech. University, Bhopal	20/01/2019	-	-	√	KVK Sehore impressive centre, like the farmers training on using waste for input.
SEHORE	Dr. A. K. Tiwari, Director, GOI, Directorate of Pulse Development, Bhopal	31/01/2019	√	-	-	KVK Sehore Instructional Farm, Demonstrated Integrated Farming Approaches is one of the most suited model shown be replicated across the district, intercropping of pigeon pea + Soybean in Kharif, Linseed + chickpea in Rabi and well demonstrated of Crop cafeteria
SEHORE	Dr. Anupam Mishra, Director, ICAR-ATARI, Zone- IX, Jabalpur	28/02/2019	√	-	-	KVK Sehore instructional farm is excellent for farming community of district farmers
SEHORE	Smt Amita Tripathi, Assistant general manager, NABARD, Bhopal	10/04/2019	-	-	√	All experiments are very excellent, KVK working good in relation to farming community.
SEHORE	Sri Prakash Kerketta, Civil judge, Ichhawar , Sehore	01/08/2019	-	-	√	KVK Sehore had diversified agriculture at instructional farm & excellent work for farmers.

Name of KVK	Name of Visitor	Date of Visit	ICAR	SAUs	Others	Remarks
SEHORE	Sri Karan singh verma , MLA, Ichhawar, Sehore	17/08/2019	-	-	√	KVK Sehore instructional farm is excellent for farming community of district farmers and crop cafeteria sown in different varieties of soybean , green gram, black gram, pigeon pea , seasamum, maize is very useful for farmers.
SEHORE	Miss Pragati Verma, SDM, Ichhawar, Sehore	07/09/2019	-	-	√	Integration efforts of KVK is applicable and all work done by KVK for farmers welfare.
SEHORE	Sri S. S. Dalal, Director General Manager, Marketing, IFFC, New Delhi	25/09/2019	-	-	√	Visited farm and participated in the farmers makeup at KVK Excellent relation with the farmers and well managed KVK instructional farm.

28. Status of KVK Website during Jan to Dec. 2019

S.No	Name of KVK	Date of start of website	Address of Website	No. of updates during 2019	No. of visitors during 2019
01	SEHORE	2015-16	kvksehore.nic.in	08	25547

29. Status of Mobile Apps developed by KVK

Name of KVK	Year	Title of Mobile App	Link to Play Store	No. of Installs
SEHORE	-	-	-	-

30. Status of RTI – *Nil*

Sr. No.	Name of KVK	No. of RTI applications received	No. of RTI appeals	Remarks

31. Status of Citizen Charter- ***Not Available***

Sr. No.	Name of KVK	Query received(Nos)	Query Disposed(Nos)	Remarks

32. Participation in HRD Programmes organized by ATARI

Name of KVK	Name of Staff	Post held	Programme attended (Nos)	Remarks
SEHORE	Sri Sandeep Todwal	Head & Scientist (Soil Science)	04	Expert Consultant Workshop, Large Scale Technology Workshop, Zonal Workshop, Workshop at New Delhi
SEHORE	Sri J. K. Kanaujia	Scientist, (Horticulture)	01	Expert Consultant Workshop
SEHORE	Mr. Devendra Patil	Scientist (Agronomy)	02	PPV & FRA workshop & Skill India training programme
SEHORE	Mr. Deepak Kushwaha	Scientist (Plant Protection)	01	National Seminar – Advance & Challenges in Horticulture
SEHORE	Mr. Akshay Kalkar	P.A. (Computer Programmer)	01	Zonal Workshop Programme
SEHORE	Miss Kusum Sukhwal	P. A. (Home Science)	04	Consulting Meeting, Workshop on ICT Nutrition sensitive Agri. Practices, Zonal Workshop, Nutri Smart Village Workshop
	Total	**-**	**13**	**-**

Name of KVK	Total Number of staff Attended HRD Programme organized by ATARI (nos)	Total Number of Programme attended (Nos)
SEHORE	**13**	**13**

33. Participation in HRD Programmes organized by DES

Name of KVK	Name of Staff	Post held	Programme attended (Nos)	Remarks
SEHORE	Sri Sandeep Todwal	Head & Scientist (Soil Science)	02	AAP Workshop & Natural Organic Farming Capacity Building Programme
SEHORE	Sri Dharmendra	Scientist, Agri. Extension	01	Workshop on use of Mass Media
SEHORE	Mr. Deepak Kushwaha	Scientist, (Plant Protection)	01	Training Programme on Bee Keeping
SEHORE	Sri J. K. Kanaujia	Scientist, (Horticulture)	01	Training Programme
	Total	-	**05**	-

Name of KVK	Total Number of staff Attended HRD Programmes organized by DES (nos)	Total Number of Programmes attended (Nos)
SEHORE	05	05

34. Participation in HRD Programmes by KVK Staff (Refresher course, Short course, Training programme etc.)

Name of KVK	Name of Staff	Post held	Programmes attended (Nos.)	Duration (days)	Type of HRD activities (Refresher course/CAFT/Summer winter school/short course)
SEHORE	Sri Dharmendra	Scientist, Agri. Extension	01	10	Protected Cultivation for enhancing resource use efficiency & Productivity of Horticultural crops

Name of KVK	Total Number of staff Attended HRD Programmes by KVK staff (nos)	Total Number of Programmes attended (Nos)
SEHORE	01	01

35. Agri alert report (Epidemic, high serious nature problem, Cyclone etc. reported first time to ATARI, SAU, Agri. Deptt. and ICAR)

Name of KVK	Situation observed	Date of Alert sent	Type of alert (KMA,	Reported to organization
SEHORE	-	-	-	-

36. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS – *Nil*

Name of KVK	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock /technology
SEHORE	Gosthies	-	-	-
SEHORE	Lectures organized	-	-	-
SEHORE	Exhibition	-	-	-
SEHORE	Film show	-	-	-
SEHORE	Farm/ Field Visit	-	-	-
SEHORE	Distribution of Literature (No.)	-	-	-
SEHORE	Distribution of Seed (q)	-	-	-
SEHORE	Distribution of Planting materials (No.)	-	-	-
SEHORE	Bio Product distribution (Kg)	-	-	-
SEHORE	Distribution of Bio Fertilizers (q)	-	-	-
SEHORE	Distribution of fingerlings	-	-	-
SEHORE	Distribution of Livestock specimen (No.)	-	-	-
SEHORE	Total number of farmers visited the technology week	-	-	-
SEHORE	Awareness programme	-	-	-
SEHORE	Demonstration	-	-	-
SEHORE	Exposure visit	-	-	-
SEHORE	Ex-trainees Meet	-	-	-
SEHORE	Farmer scientist interaction	-	-	-
SEHORE	Farmers Training	-	-	-
SEHORE	Group Meeting	-	-	-
SEHORE	Seed treatment campaign	-	-	-
SEHORE	Soil health Camp	-	-	-
SEHORE	Swachha Bharat Abhiyan	-	-	-
SEHORE	Others (Pl. Specify)			

37. INTERVENTIONS ON DROUGHT MITIGATION- *N.A.*

Introduction of alternate crops/varieties

Name of KVK	Crops	Variety	Area (ha)	Number of beneficiaries

Farmers-scientists interaction on livestock management

Name of KVK	Livestock components(Breading/Feeding/ Health/ Housing)	Number of interactions	No. of participants

Animal health camps organized

Name of KVK	Number of camps	No. of animals Attended	No. of farmers Benefitted

Seed distribution in drought hit area

Name of KVK	Crops	Quantity (qtl)	Coverage of area (ha)	Number of farmers

Seedlings and Saplings distributed

Name of KVK	Crops	Quantity (No.s)	Coverage of area (ha)	Number of farmers
Seedlings				

Bio-control Agents

Name of KVK	Bio-control Agents	Quantity (q)	Coverage of Area (ha)	No. of farmers

Bio-Fertilizer

Name of KVK	Bio-Fertilizer	Quantity (kg)	Coverage of Area (ha)	No. of farmers

Worms Produced

Name of KVK	Worms Produced	Quantity (q)	Coverage of Area (ha)	No. of Farmers

Large scale adoption of resource conservation technologies

Name of KVK	Crops	Variety	list of resource conservation technologies introduced	Area (ha)	Number of farmers

Awareness campaign

Name of KVK	Meetings		Gosthies		Field days		Farmers fair		Exhibition		Film show	
	No.	No. of farmers	No.	No. of farmers	No.	No. of farmers	No.	No. of farmers	No.	No. of farmers	No.	No. of farmers

38. Activities for Sansad Adarsh Gram

Information about Sansad Adarsh Gram

Name of KVK	Block	Village
SEHORE	Budani	Jahanpur

1. **Technologies to be Demonstrated-** ***Nil***

Name of Technology	Name of Crop/Enterprise	Area (ha.)	Yield	% change in Yield	No. of farmers benefitted

2**. Extension Activities -** ***Nil***

Name of Activity	Number of Participants/Beneficiaries to be Covered			
	Farmers	Farm Women	Official	Total

3. **Training Programme**

Name of Activity	Number of Participants/Beneficiaries to be Covered			
	Farmers	Farm Women	Official	Total

39. (a) Case study / Success Story– (best two only in the following format in separate file attached)

Name of the KVK	
TITLE	
Introduction	
KVK intervention	
Output	
Outcome	
Impact	

- **2-3 Photographs with caption in .jpeg format.**

(b) Summary of Case study / Success Story developed by KVK

Sr. no.	Name of KVK	No. of success stories	No. of case studies

40. Well labeled Photographs in .jpeg format with high resolution (300 dpi) of each activity of the KVK. (Separately) (pl don't paste photo in word file)

CRDE- Krishi Vigyan Kendra, Sewania, District- Sehore (M.P.)

Success Story- Pulses, Rabi 2018-19

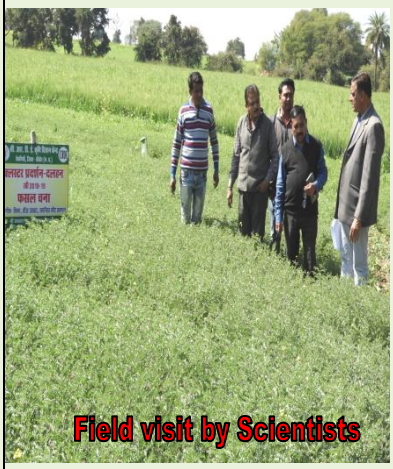
Name of KVK	KVK-SEHORE
Crop and Variety	Chick pea & RVG- 202
Name of farmer & Address	Mr. Avtar Singh S/o Sri Jamuna Prasad Village- Bichhia, Tehsil- Shyampur, Block- Sehore, Dist- Sehore (M.P.) Mo. No. - 9669708234
Background information about farmer field	Mr. Avtar Singh holding 1.4 ha. area of land with available facility of crop cultivation. They follow up Soybean –Wheat, Soybean –Chickpea cropping system from last many years irrigated situation. Soil is medium black and plain.
Technology Demonstration	Improved variety RVG-202 + optimum seed rate (75kg/ha.) + seed treatment with carbendazim + mancozeb (3 g./kg seed) + inoculation of soil with NPK consortia + Nutrient Management as per STV + IPM module (Pheromone Trap 10/ha. + Bird purcher @50/ha.) and need based application of insecticide
Institutional Involvement	• ICAR- ATARI, Zone –IX, Jabalpur (M.P.) • CRDE- Krishi Vigyan Kendra, Sewania, District- Sehore (M.P.) • Department of Farmer Welfare & Agriculture Development, Sehore (M.P.)
Success Point	➢ Highest benefit cost ratio in Recommended Practices as comparative to Farmer Practices. ➢ 32.0% yield increase in Demonstration due to technology. ➢ Technology is easily is Demonstration and acceptable.
Farmer Feedback	Farmer Conveying with the Demonstrated Technologies. They gain more yield & Profit as Compared to farmers Practice. He Wants to spread his technology next year.

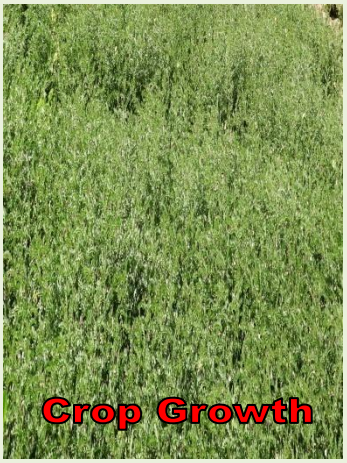
Outcome Yield (q/ha)	
- Demonstration	- 21.09 qtl/ha.
- Potential yield of variety/technology	- 20-25 qtl/ha.
- District average (Previous year)	- 12.65 qtl./ha.
- State average (Previous year)	- 11.15 qtl.ha.

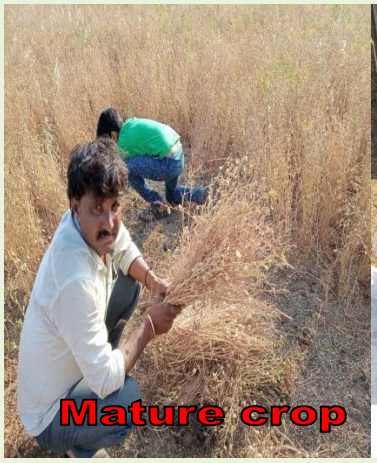
Performance of technology vis-à-vis Local check (Increase in productivity and returns)

Specific Technology	Yield (q/ha)	Gross cost (Rs/ha)	Gross income (Rs/ha)	Net income (Rs/ha	B:C ratio
Farmer practices	15.97	22850.00	70287	47437	3.07
Demonstration	21.09	23950.00	92807	68857	3.87
% Increase	**32.0**	**4.81**	**32.0**	**45.1**	**-**

Action Photographs







CRDE- Krishi Vigyan Kendra, Sewania, District- Sehore (M.P.)

Success Story- FLD Demonstration of Wheat Variety HI-8713 (Pusa Mangal)

Name of KVK	KVK-SEHORE
Crop and Variety	Wheat & HI- 8713 (Pusa Mangal)
Name of farmer & Address	Mr. Govind Meena S/o Sri Laxami Narayan Village- Kothara Pipalya, Block- Nasrullaganj, Dist- Sehore (M.P.) Mo. No.- 9617973569
Background information about farmer field	Mr. Govind Meena land holding 1.8 ha. area of land with all facilities of crop cultivation. They follow up Soybean- Wheat – Green gram, Soybean-Chickpea cropping system last many year in irrigated situation. Soil is deep black and plain. In the year 2016 adopted he village by Krishi Vigyan Kendra, Sehore. Mr. Govind participate various trainings, visits, demonstration & other extension activities under KVK guidance.
Area (ha.)	0.4
Technology Demonstration	Improved Wheat variety HI- 8713 (Pusa Mangal)
Institutional Involvement	• ICAR- ATARI, Zone –IX, Jabalpur (M.P.) • CRDE- Krishi Vigyan Kendra, Sewania, District- Sehore (M.P.)
Demonstration Yield	64.58 Q/ha.

Finding Result

Important Parameter	Variety /Intervention	Local/Control
Plant population (m^2)	43.80	44.75
No. of effective tillers/plant	6.79	5.85
No. of kernel/ ear	45.83	43.89
Test weight (g.)	47.38	46.28
Yield (q/ha.)	64.58	53.18

Economic Performance

Practice	*Yield (q/ha.)*	*Cost of cultivation (Rs./ha.)*	*Gross income (Rs./ha.)*	*Net income (Rs./ha.)*	*B:C ratio*	*% increase income*
Farmer	53.18	25595.00	98918.00	73323.00	2.86	-
Recommended	64.58	25995.00	123248.00	97253.00	3.74	32

Success Point	➢ Highest benefit cost ratio in Recommended Practices as comparative to Farmer Practices. ➢ 21.43% yield increase in Demonstration due to high yielding variety. ➢ Technology is easily is Demonstration and acceptable.
Farmer Feedback	Farmer Conveying with the Demonstrated Technologies. They gain more yield & Profit as Compared to farmers Practice. He Wants to spread his technology next year.

CRDE- Krishi Vigyan Kendra, Sewania, Dist. Sehore (M.P.)

Success Story

Specific Technology:- Integrated Nutrient Management in Soybean Crop.

Name of KVK	KVK SEHORE
Crop and variety	Soybean JS-9560
Name of farmer & address	Sri Jagdeesh Dangi Village- Bicchia, Block- Sehore Dist. Sehore (M.P.)
Background information about farmer field	Mr. Jagdeesh Dangi S/o Sri Gajraj Dangi holding 4.0 ha area of land with all the facilities of crop cultivation. They follow Soybean- Wheat, Soybean- Chickpea cropping system from last many year in irrigated situation. Soil is medium black & plain. **Nutrient Status in Soil –**

Available Nitrogen kg/ha	*Available Phosphorus kg/ha*	*Available Potash kg/ha*
252	26.5	652
Medium	Low	High

Details of technology demonstrated	INM in Soybean Crop+ Seed treatment (carbendazim+ mancozeb) 3g/kg seed + Seed inoculation with Bio Fertilizer NPK Consortia 5 ml/kg seed + Sew weed Extract 25 kg/ha. + Nutrient Management NPK& Zn as per soil test value .
Institutional involvement	ICAR, ATARI Zone-IX, Jabalpur (M.P.), CRDE- Krishi Vigyan Kendra, Sewania,Dist. Sehore (M.P.) Department of Farmer Welfare & Agriculture Development , Sehore (M.P.)
Success point	• High cost benefit ratio in recommended practices as comparative to farmer practices. • 24.04 % yield increase in Demonstration due to technology.
Farmer feedback	Farmer conveying with the Demonstrated Technology, They gain more yield & profit as compared to farmer's practices. He wants to spread his technology next year.
Yield (q/ha) - Potential yield of variety - District average (Previous year) - State average (Previous year)	 20- 22 qtl/ha 11.04 qtl/ha 10.94 qtl/ha

Used Practice	Yield (q/ha)	Gross cost (Rs/ha)	Gross income (Rs/ha)	Net income (Rs/ha	B:C ratio
Farmer practices	12.52	22400	43803	21353	1.95
Demonstration	15.53	23470	54370	30900	2.32
% Increase	24.04	4.77	24.12	44.71	-

Quality Photographs:

(Sandeep Todwal)
Head,
Krishi Vigyan Kendra, Sehore