CRDE-KRISHI VIGYAN KENDRA, DISTT. - SEHORE

Annual Progress Report
PERIOD – JANUARY TO DECEMBER- 2022

CRDE

सी. आर. डी. ई. कृषि विज्ञान केन्द्र

CRDE KRISHI VIGYAN KENDRA

SEWANIA, TEHSIL ICHHAWAR DISTRICT -SEHORE(,M.P.)

Host Institute: **Centre For Rural Development & Environment**

VILLAGE- SEWANIA, TEHSIL- ICHHAWAR, DISTRICT- SEHORE,(M.P.)

PIN Co. 466115 (INDIA) E-mail: crdebpl@gmail.com Phone No : 93020–36299

(Sandeep Todwal)

Head (I/C),

Krishi Vigyan Kendra, Sewania,

Distt- Sehore (M.P.)

ANNUAL Progress Report 2022

KVK SEHORE

Year of sanction: December 1999

1.1 Name of the Programme Coordinator with phone & mobile No :

Name	Telephone / Contact		
	Office	Mobile	Email
Sri Sandeep Todwal	7000398271	9893470882	crdekvksehore@gmail.com

1.2 Staff Position on (31th Dec.2022)

S. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic (Rs.)	Date of Joining	Date of joining this KVK (Year)	Contact No.	Email ID	Photo
1	Programme Coordinator	**Vacant**								
2	Subject Matter Specialist	Mr. Sandeep Todwal	Scientist	Soil Science	Level-10	16/12/2010	2010	9893470882	sandeeptodwal292gmail.com	
3	Subject Matter Specialist	Mr. Devendra Patil	Scientist	Agronomy	Level-10	26/12/2017	2017	8827176184	dpatil889@gmail.com	
4	Subject Matter Specialist	Mr. Dharmendra	Scientist	Ag. Extn.	Level-10	11/03/2019	2019	8889469911	lalu.khandwa@gmail.com	
5	Subject Matter Specialist	Deepak Kushwaha	Scientist	Plant Protection	Level-10	01/01/2018	2018	8840485018	deep.bhu1989@gmail.com	
6	Subject Matter Specialist (Hotriculture)	**Vacant**								
7	Subject Matter Specialist (Animal Husbandry)	**Vacant**								
8	Programme Assistant (Home Science)	Dr. Kusum Shukhwal	Programme Assistant	Home Science	Level- 6	05/02/2019	2019	8005660728	kusumsukhwal90@gmail.com	
9	Computer Programmer/ Programme Assistant	Mr. Akshay Kalkar	Programme Assistant	Compuer	Level- 6	01/01/2018	2018	8518018553	akshaykalkar26@gmail.com	
10	Farm Manager	Mr. Pawan Jat	Farm Manager	Farm Manager	Level- 6	17/12/2021	2021	6263596949	pawanjat5383@gmail.com	
11	Assistant	Mr Shashikant Harde	Assitant	Accounts	Level- 6	01/08/2013	2013	8103505734	harde.shashikant@gmail.com	
12	Jr. Stenographer / Comp. Operator	Mr. Bhanu Pal Singh	Stenographer	Stenographer	Level- 4	25/01/2008	2008	8962156357	bhanukvk10@gmail.com	
13	Driver	Mr. Pradip Singh Rajput	Driver	Driver	Level- 3	18/08/2003	2003	9425661497	pradeepsinghrajput979@gmail.com	
14	Driver	Mr. Satish Upadhyay	Driver	Driver	Level- 3	04/03/2019	2019	9111066262	-	
15	Supporting staff	Mr. Ravishanker Raikwar	Office Attendant	Office Attendant	Level- 1	01/03/2001	2001	9993420677	-	
16	Supporting staff	Mr. Nirmal Kumar	Office Attendant	Office Attendant	Level- 1	25/08/2006	2006	9826998693	-	

1.3 Total land with KVK (in ha)

S. No.	Item	Area (ha)
1	Under Buildings	0.5
2	Under Demonstration Units	0.5
3	Under Crops	12.5
4	Orchard/Agro-forestry	3.0
5	Others (specify) Crop cafeteria,	0.40
	Waste land-Nala Pond etc	1.78
Total		**18.68**

1.4 Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR	2005-06	500.00		-	-	-
2.	Farmers Hostel	ICAR	2007-08	305.00		-	-	-
3.	Staff Quarters (6)	ICAR	2007-08	400.00		-	-	-
4.	Fencing	ICAR	2007-08	3250.00		-	-	-
5	Threshing floor	ICAR	2004-05	225.00		-	-	-
6	Implement Shed	-	-	-	-	-	-	-
7	Poly House	-	-	-	-	-	-	-
8	Net House	-	-	-	-	-	-	-
9	Azola Unit	ICAR	2016-17	16.7	40000.00	-	-	-
10	Demonstration Units	ICAR	2007-08	160.0		-	-	-
11	Godown	ICAR	2007-08	60		-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Marshal	-	-	-	-
Motor Cycle	2000	0.00	-	Condemn
Bolero	2017	7,99,945.00	151636	Good condition

C) Equipments& AV aids

Name of the equipment	No.	Year of purchase	Cost (Rs.)	Present status
Projector	02	2013-14		Good condition
Xerox Machine	01	2016		Good condition
Generator	01	2016-17		Good condition
Video Camera	01	2016-17		Good condition
Computer, Laser Printer	02	2012& 2017-18		Good condition
UPS 600 VA	01	2016-17		Good condition
Stabilizer 2 KVA	01	2016-17		Good condition
Stabilizer	Nil	-		-
Inverter 600 VA (2)	01	2016-17		Good condition
Inverter Battery (2)	01	2016-17		Replacement

1.5.(A). Details of SAC meeting to be conducted in the year

KVK Name	Date of SAC meeting 2022	No. of SAC members (only) attended	Major action points*
SEHORE	14/06/2022	**34**	-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 motivates about food processing and value added product and their marketing. -KVK aware to farmers for safe store of produce and their management.

2. DETAILS OF DISTRICT

Major farming systems / enterprises (based on the Agro-ecological situation analysis made by the KVK) Add AES if needed

S. No.	Farming system/enterprise	Description
1	AES – 1 Vindhyan Plateau (AES- I)	• Under block covered Sehore, Asta and Ichhawar total area 409.494 thousand ha, farming system existing Agriculture+Animal husbandry, Agriculture+Horticulture+Animal husbandry
2.	Central Narmada Valley	• Under block covered Budani & Nasrullaganj total area 246.874 thousand ha, farming system existing Agriculture+Animal husbandry, Agriculture+Horticulture+Animal husbandry

Description of Agro-climatic Zone & major agro-ecological situations (based on soil and topography)

S. No.	Agro-climatic Zone	Characteristics
1	AES – 1 Vindhyan Plateau	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.

SWOT Analysis of each Agro-Ecological Situations of district

AES-1 (name)

Strength	Weakness	Opportunities	Threats
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.	• 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.	• 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	• 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.

		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.	

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 (mm)

S.No.	Blocks	Year wise rainfall (mm)					(2017-18 to 2021-22)
		2017-18	**2018-19**	**2019-20**	**2020-21**	**2021-22**	**Average**
1	Sehore	815.0	1075.20	**1820.8**	1328.70	1004.40	**1208.74**
2	Ashta	692.0	789.65	1607.8	1325.30	952.00	**1073.35**
3	Ichhawar	933.2	931.00	1740.0	1425.00	1080.30	**1221.90**
4	Budani	1016.75	926.60	1729.8	1727.70	1050.00	**1290.17**
5	Nasrullaganj	948.0	603.2	1937.0	1277.00	1108.00	**1174.64**
Average		**880.99**	**864.29**	**1767.08**	**1416.74**	**1038.94**	1193.60

(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.

Particulars	Area "000 ha"
Total Geographical area	656368
Forest	164039
Waste Land	9605
Other than cultivated area	83830
Cultivable waste and alkaline land	13000
Pastures	36200
Bushes	-
Current Fallow	400
Other Fallow	3300
Agricultural Land	408894
Area Sown	400856
Kharif	389500
Rabi	369548
Zaid	11000
Cropping Intensity	188.32 %

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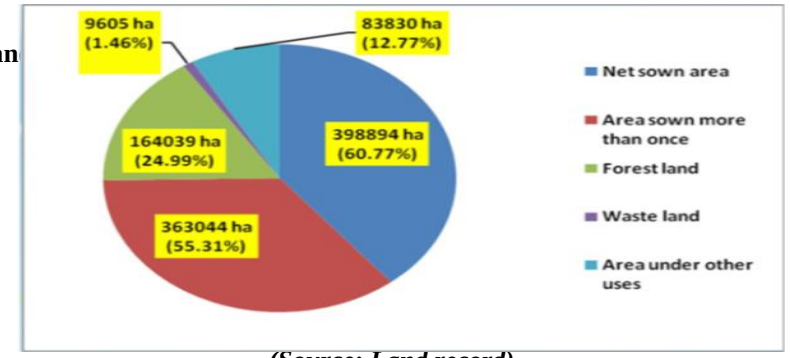
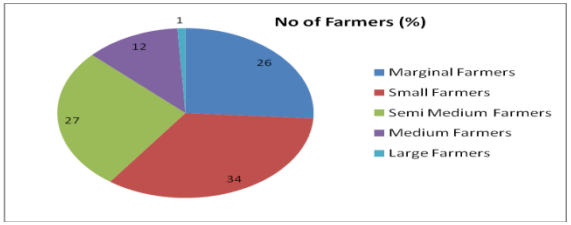


(Source: Land record)

Details of land holdings in the district (2017) – 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.)	64684	26.0	25221	6.3
Small Farmers (1-2 ha.)	72277	34.0	82299	20.6
Semi Medium Farmers (2-4 ha.)	45397	27.0	114015	28.5
Medium Farmers (4-10 ha.)	20315	12.0	136461	34.2
Large Farmers (More than 10 ha.)	1486	0.9	40898	10.2
Total	**204159**	**-**	**398894**	**-**

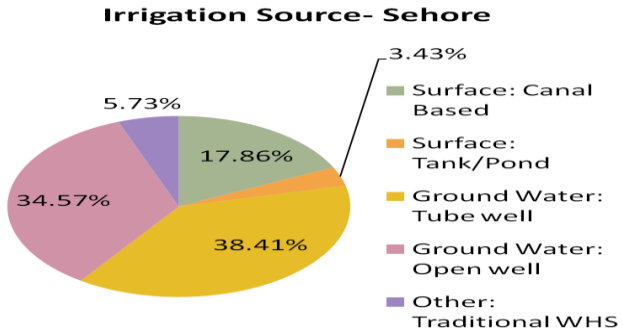
Source- DPO, Sehore

Irrigated area with different Sources:-

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**



Soil types

S. No.	Soil type	Characteristics	Area "000 ha"
1	Medium black Soil	30 to 60 cm depth (Low available N, Low to medium available P, High available K, pH range 7.2 to 8.0)	393820 ha
2	Shallow black soil	Less than 30 cm depth (Low available N, Low to medium available P, High available K, pH range 7.2 to 8.0)	131274 ha
3	deep black Soil	more than 60 cm depth (Low available N, medium available P, High available K, pH range 7.2 to 8.0)	131274 ha
	Total Area		**656368 ha**

Note: Figure. In parenthesis denotes the percentage of total area.

Area, Production and Productivity of Major Crops cultivated in the district-

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
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	290.00	390.63	1347.00	32.90	118.44	3600.00	6.60	9.11	1380.00	245.00	882.00	3600.0	107.80	199.43	1850.0	13385	13117	979
2019-20	343.44	257.58	750.0	33.79	135.16	4000.0	2.85	2.42	850.0	341.4	1604.8	4700.0	94.0	188.00	1890.0	13455	13120	985
2020-21	315.39	509.51	1450	34.10	156.86	4600	1.7	1.9	1150	333.55	1500.97	4500	52.19	93..94	1800	74442	111142	1493
2021-22	282.18	372.47	1320	51.45	237.69	4620	1-80	1.4	815	335.56	1689.2	5034	47.14	87.68	1860	88510	129580	1470
Average	**301.23**	**373.178**	**1217.4**	**36.822**	**156.398**	**4204**	**5847.52**	**4.404**	**1103**	**300.002**	**1316.322**	**4306.8**	**79.51**	**159.975**	**1821.8**	**44674.6**	**60846.6**	**1207.4**

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 40831.81 ha with an aggregate production of 617969.37 MT. The vegetable production from around 20182 ha of land under vegetable cultivation is a little more than 373560 MT. Similarly the good amount of land comes under fruit crops *i.e*.7069 ha and production is about 156167 MT. Beside this there are sizable land comes under spices 12242 ha and production is 74325 MTs similarly 946 ha area comes under flower cultivation and 9994 MTs and medicinal plants 392 ha and 1923 MT production

Area and Production of Horticultural Crops of Sehore district ***(Area in ha, production in MT)***

Year	Fruit	Vegetable	Spices	Flowers	Medicinal

	Area (ha.)	Production	Area	Production	Area	Production	Area	Production	Area	Production
2018-19	4934.00	106689.0	15518	290043.0	9555.0	58957.0	555.0	5804.0	11.30	42.13
2019-20	5149.0	114471.0	13158.0	229360.0	9582.0	59242.0	555.0	5813.0	11.30	42.13
2020-21	5205.2	118945.0	13956.0	232850.0	1062.0	60145.0	789	8410	212	1625
2021-22	7069	156167	20182	375560	12242	74325	946	9994	392	1923

(Source: Department of Horticulture, Sehore)

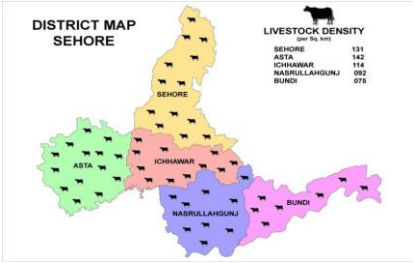
Details of Horticulture Nursery available in the district

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	Mango, Guava, Citrus, Neem
4	**Budni**	Peelikarar	5.00	Mango, Guava, Citrus, Neem
5	**Nasrullganj**	Satrana	5.00	Mango,Guava, Citrus, Neem, Jackfruit, Neem

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 is 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.



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

lock	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**

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.

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.

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.

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.
-

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.

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	Kothara Pipalya	2016	Nasrullaganj	68 Km.	1486	355
SEHORE	Bijlon	2017	Sehore	50 Km	2141	424
SEHORE	NarsinghKheda	2018	Ichhawar	25 Km.	2008	407
SEHORE	Gawakheda	2019	Ashta	29 Km.	2255	217
SEHORE	Bawadiya Chor	2021	Ichhawar	28 Km.	1238	238

Details of Operational area / Villages (31st December, 2022)

S.No	KVK	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
01	SEHORE	Ichhawar	Narsinghkheda	➢ Soybean ➢ Maize ➢ Paddy ➢ Black Gram ➢ Wheat ➢ Chickpea ➢ Lentil ➢ Green Gram ➢ Dairy ➢ Poultry ➢ Animal Husbandry	**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 Unavailability of high yielding varieties/ hybrids in field crops Low seed replacement rate in major Crops Lack of awareness about seed treatment Weed infestation in Crops Low yield due to Old varieties, No use of Recommended Package of Practices Low water use efficiency Low fertilizer use efficiency due to imbalance use of fertilizer Heavy infestation of insect & disease Slow crop diversification in Horticultural crops ption of farm mechanization High post harvest losses in grain, vegetable & Fruits crops Poor adoption of technology by Farmers Weed infestation of crops Water stress in critical stages of plant growth	➢ Soil Health Management, Crop management Practices (CMP) ➢ Horticulture & Végétales Corps (H & VC) ➢ Animal Science (A S) ➢ Integrated Plant Protection Techniques (IPPT) ➢ Women in Agriculture. (W A) ➢ Implements & Farm Machinery (I & FM) ➢ Natural Resource Management (NRM) ➢ Livelihood & Nutritional Security ➢ Doubling Farmers income
02	SEHORE		Golukhedi			
03	SEHORE		Bawadiya Chor			
04	SEHORE	Asta	Gular Chhapari			
05	SEHORE		Gwakheda			
06	SEHORE		BheelKhedi			
07	SEHORE		Bafapur			
08	SEHORE	Sehore	Mehtwada			
09	SEHORE		Bijlon			
10	SEHORE		Heerapur			
11	SEHORE		Ramakhedi			
12	SEHORE		Thuna Pachama			
13	SEHORE		Bichhia			
14	SEHORE	Nasrullaganj	Kothra Pipalya & Kankaria			

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
SEHORE	Resource Management (Water & Energy saving)
SEHORE	Introduction of recommended improved varieties
SEHORE	Processing, Post harvest and Storage facilities.
SEHORE	Conservation Agriculture Technologies
SEHORE	Application of Integrated Technology (IWM, ICM)

. 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	Problem are common in entire district
SEHORE	Low yield due to Old varieties, No use of Recommended Package of Practices	PRA, Field visit, Individual contact	Gawakheda, Bijlon, Narsinghkheda 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

TECHNICAL PROGRAMME

Details of targeted mandatory activities by KVK

OFT		FLD and CFLD	
1		2	
Number of OFTs	Number of Farmers	Number of FLDs	Number of Farmers
14	86	18	190

Training		Extension Activities	
3		4	
Number of Courses	Number of Participants	Number of activities	Number of participants
53	1322	454	9150

Seed Production (Qtl.)	Planting material (Nos.)
191	10000

B. Abstract of interventions undertaken

S. No.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT	Titl e of FLD	Title of Training	Title of training for extension personnel	Extension activities	Supply of seeds, planting materials etc.
1	Introduction of recommended improved varieties	Green gram	Low yield of green gram due to old varieties and exists varities are late mature	Assessment of summer green gram varriety virat .	-	-	-	Group meeting	Seed gram variety IPM 205-7 (Virat)
2	Introduction of recommended improved varieties	Lentil	Low yield of lentil due to old varieties	Assessment of lentil variety RVL 11-6	-	-	-	Group meeting	Seed lentil variety RVL 11-6
3	Introduction of recommended improved varieties	Wheat	Low yield of Wheat and lack of nutrition due to use of old varieties	Assessment of Wheat variety HI-1634 (Pusa Ahilya)	-	-	-	Group meeting	Seed Wheat variety HI-1634
4	Introduction of recommended improved varieties	chickpea	Low yield of chick pea due to Exist varieties & Manual Harvesting is Costly	Assessment of Chick pea variety RVG-204	-	-	-	-	Seed chickpea variety RVG-204
5	Introduction of recommended improved varieties	wheat	Low yield of wheat due to Exist varieties	-	Demonstration of wheat variety HI-8759	Improved agronomic technologies of Chickpea	Improved agronomic technologies of Chickpea cultivation	Field day Field visit	seed

S. No.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT	Titl e of FLD	Title of Training	Title of training for extension personnel	Extension activities	Supply of seeds, planting materials etc.
						cultivation			
6	Weed managemnt	Wheat	Low yield of wheat due to infestation of weeds	-	Demonstration of weed management in wheat	Weed management in wheat	-	Field day Field visit	Herbicide
7	Crop diversification	Maize	-	-	Diversification of soybean through Hybrid Maize	Diversification of soybean through Hybrid Maize	Diversification of soybean through Hybrid Maize	Field day Field visit Group meeting	-
8	Weed management	Soybean	Low yield of wheat due to infestation of weeds	-	Demonstration of diclosulam 84 % in soybean for weed control	Weed management in soybean	-	-	-
9	Introduction of recommended improved varieties	Soybean	Low yield of Soybean due to Exist varieties	-	Demonstration of Soybean variety RVS 2001-18	-	-	Field day Field visit	-
10	Nutritional security	Pigeon pea	Lackof protien in daily diet and no use of waste land	-	Demonstration of pigeon pea cultivation in waste land for nutritional security.	pigeon pea cultivation in waste land	pigeon pea cultivation in waste land	Field day Field visit Group meeting	Seed
11	NRM	Soybean Chickpea	High production cost of cultivation and toxicity of chemical fertilizer/ pesticide in crop and soil	Assessment of Jeevamrit and GhanJeevamrit on growth and yield of Soybean & Chickpea crop	-	-	-	-	-
12	SFM	Soybean	Low yield due to Imbalance use of Plant Nutrient in Soybean crop.	Assessment of Sulphur along with recommended dose of plant nutrient as per soil test value in Soybean crop.	-	-	-	-	Sulphur
13	SFM	Tomato	Low yield ,quality and fruit set due to Nutrient deficiency	Assessment of Foliar application of water soluble plant nutrient and micronutrient Zn & B on yield and quality	-	-	-	-	NPK 18:18:18, Boron, Zink

S. No.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT	Titl e of FLD	Title of Training	Title of training for extension personnel	Extension activities	Supply of seeds, planting materials etc.
				of Tomato.					
14	SFM	Wheat	Low fertilizer use efficiency and One time application of nitrogen 170 kg/ha through Urea	Assessment of Nano-Nitrogen technology in wheat crop.	-	-	-	-	Nano Urea
15	SFM	Soybean	Low yield & quality due to No use of potassium nutrient	-	Demonstration of Foliar spray of potassium nutrient in soybean crop	Use and application of water soluble fertilizer in soybean crop	Use and importance of water soluble fertilizer in Kharif crop	Field day	NPK 00:00:50
16	INM	Hybrid Maize	Low yield due to Nutrient deficiency	-	Demonstration of INM in hybrid Maize	Nutrient Management in hybrid maize crop	Use and importance of water soluble fertilizer in Kharif crop	Field day, method, demonstration	-
17	NRM	Enterprises	More time consume in composting process	-	Demonstration of Bio waste decomposer for composting	Application for bio west decomposer for composting	-	Field day	Bio Waste decomposer
18	SFM	Onion	Low Fertilizer use efficiency	-	Demonstration of Nutrient management in onion crop	Integrated nutrient management in rabi crop	Integrated Nutrient management in rabi Crop	method, demonstration & group meeting	-
18	IPM	Vegetable	Low yield of vegetable due to infestation of insect pest (Average yield losses up to 15-20%)	Assessment of ITK practice for the management of insect pest of vegetable crop (okra & bitter guard)	-	-	-	-	-
19	IPM	Chickpea	Low yield of chickpea due to infestation of gram pod borer (Average yield losses up to 15-20%)	Assessment of IPM module for the management of gram pod borer in chickpea	-	-	-	-	-
20	IPM	Chickpea	Low yield of chickpea due to	Assessment of seed	-	-	-	-	-

S. No.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT	Titl e of FLD	Title of Training	Title of training for extension personnel	Extension activities	Supply of seeds, planting materials etc.
			incidence of fungal diseases (Average yield losses up to 15-20%)	treatment with burn engine oil @ 10 ml/kg for the management of fungal diseases in chickpea					
21	IDM	Vegetable	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	-	-	-	-	-
22	NRM	Soybean-Chickpea	High production cost of cultivation and toxicity of chemical fertilizer/ pesticide in crop and soil	Assessment of neemastra, brahmastra, agniastra for the management of insect peat in soybean – chickpea cropping system	-	-	-	-	-
23	IDM	Green gram	Low yield of green gram due to incidence of leaf curl virus	-	Demonstration of IDM module for the management of leaf curl virus in green gram	Management of insect & Pest in Green gram	-	-	-
24	IPM	Soybean	Low yield of soybean crop due to incidence of girdle beetle and defoliators	-	Demonstration of IPM module for the management of girdle beetle and defoliators in soybean crop	IPM in soybean crop	IPM in kharif crop	-	-
25	IPM	Maize	Low yield of maize crop due to incidence of Fall army warm	-	Demonstration of IPM module for the management of Fall Army Warm in maize crop	-	IPM in kharif crop	-	-
26	IDM	Vegetable	Low yield of tomato crop due to incidence of leaf curl virus	-	Demo. Of IDM module for the management of leaf curl virus disease in tomato	Nursery management of vegetable crop	-	-	-
27	IPM	Vegetable	Low yield of cucurbits due to incidence of fruit fly	-	Demo Of IPM module for the	-	-	-	-

S. No.	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT	**Titl e of FLD**	**Title of Training**	**Title of training for extension personnel**	**Extension activities**	**Supply of seeds, planting materials etc.**
					management of fruit fly in cucurbits (Bottle Guard)				
28	IDM	Chickpea	Low yield of chickpea cop due to incidence of wilt root , rot &collar rot	-	Demonstration IDM module for the management of Wilt, root rot & Collar rot disease in chickpea.	-	IPM in Rabi crop	-	-
29	ICT	Onion & Garlic	Love yield of onion and garlic due to poor information sources	Assessment of different use of information sources for production technology of onion and garlic	-	-	-	-	-
30	SHM	Soybean	Lack of adoption based on Soil Health Card Imbalance use of fertilizers application of soybean growers	-	Demonstration of soil heath card based use of fertilizers application in soybean growers	-	Integrated nutrient Management of soybean crop	Filed day	Provide critical input of Bentonate Sulphar 90%
31	SHM	Chickpea	Lack of adoption based on Soil Health Card Imbalance use of fertilizers application of chickpea growers	-	Demonstration of soil heath card based use of fertilizers application in chickpea growers	-	Integrated nutrient Management of chickpea crop	Filed day	-
32	Nutritional Security	Enterprises	Anaemic children in rural areas	Assessment of ITK based iron rich foods supplements (Halwa) for anaemic childrens	-	-	-	-	Wheat Flour, Jaggeru
33	Nutritional Security	Enterprises			Demostration of drumstick crackers for improving hemoglobin level in blood	Developm ent of High nutrient efficiency diet	-	-	Drumstick powder
34	Nutritional Security	Enterprises			Demonstration of kitchen garden for nutritional security	Nutritional security by kithen gardening in rabi season	-	-	Seed, seedling and sapling

Technologies assessed

A.1 **Abstract on the *number of* technologies assessed in respect of crops**

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
ICM	01	-	02	-	- -	- -	-	-	-	-
SFM	01	01	-	-	01	-	-	-	-	03
NRM	-	01	-	-	-	-	-	-	-	01
ICT	-	-	-	-	02	-	-	-	-	02
INM/IWM	-	01	02	-	02	-	-	-	-	05
Nutritional Security	-	-	-	-	-	-	-	-	-	01
TOTAL	**02**	**03**	**04**	**-**	**05**	**-**	**-**	**-**	**-**	**12**

Abstract on the number of technologies assessed in respect of livestock/enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
-	-	-	-	-	-	-	-	-
TOTAL								

Detailed Information about OFT: 1 (2021-22 Rabi)

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of lentil variety RVL 11-6
Year/Season:	2021-22/ Rabi
Farming situation:	Restricted Irrigated
Problem diagnosis:	Low yield of lentil due to use of old 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-	T1 – Farmers Practice – Lentil var Local
T2 –Recommended Practice-	T2 – Lentil Var. IPL-316
T3- Recommended Practice-	T3 – RVL 11-6
Date of sowing:	Oct 2021
Date of harvesting:	Feb 2022
Source of technology:	RVSKVV, RAK, CoA. Sehore
Characteristics of technology:	Bold seed, dought tolerance, duration 115-120 day and yield 17-18 q /ha
Name of Crop/Enterprises:	Lentil
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	Lentil vareity RVL-11-6 is highest yield than local and IPL-316. Farmers are react this variety is resistance to insect and disease

Result : **(Economic Performance of OFT)** **(Please choose and give the parameters name and value according to suitable your OFT)**

Details of technology	Name and Unit of Parameter	Result	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/plant	**69.00**	**23094**	**58406**	**35312**	**2.5**
	No. of seeds/pod	**1.74**				
	Test weight (g)	**23.18**				
	Yield (q/ha)	**10.62**				
T2(Recommended Practice)	No of pods/plant	**68.60**	**24390**	**66893**	**42503**	**2.7**
	No. of seeds/pod	**1.89**				
	Test weight (g)	**24.89**				
	Yield (q/ha)	**12.16**				
T3(Recommended Practice)	No of pods/plant	**70.80**	**25306**	**75703**	**50398**	**3.0**
	No. of seeds/pod	**2.02**				
	Test weight (g)	**25.57**				
	Yield (q/ha)	**13.76**				

Detailed Information about OFT: 2 (2021-22 Rabi)

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of Wheat variety HI-1634 (Pusa Ahilya)
Year/Season:	2021-22/ Rabi
Farming situation:	Restricted Irrigated
Problem diagnosis:	Low yield of Wheat and lack of nutrition due to use of old 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-	T1 – Farmers Practice Wheat var Local (Lok 1)
T2 –Recommended Practice-	T2 – Wheat var. HI-1544
T3- Recommended Practice-	T3 – HI-1634 (Pusa Ahilya)
Date of sowing:	25-30 Oct 2021
Date of harvesting:	1-3, March, 2022
Source of technology:	ICAR-Indian Agricultural Research Institute, Regional Station, Indore
Characteristics of technology:	HI 1634 is an early flowering (60-65 days) variety which matures in 105-110 days, and produces bold grains (TGW 40.0g)
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	Higher grain yield and quality produce, Not sattering

Result : **(Economic Performance of OFT)** **(Please choose and give the parameters name and value according to suitable your OFT)**

Details of technology	Name and Unit of Parameter	Result	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 /plant	**5.23**	**27580**	**96802**	**69223**	**3.51**
	No. of kernels/ear	**44.6**				
	Test weight (g)	**43.6**				
	Yield (q/ha)	**46.10**				
T2(Recommended Practice)	No of Effective tillers /plant	**5.52**	**27900**	**103375**	**75475**	**3.71**
	No. of kernels/ear	**44.8**				
	Test weight (g)	**44.8**				
	Yield (q/ha)	**49.23**				
T3(Recommended Practice)	No of Effective tillers /plant	**6.06**	**28910**	**118482**	**89572**	**4.10**
	No. of kernels/ear	**45.4**				
	Test weight (g)	**45.6**				
	Yield (q/ha)	**56.42**				

Detailed Information about OFT: 3 (2021-22 Rabi)

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of Chick pea variety RVG-204
Year/Season:	2021-22/ Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield of chick pea due to Exist varieties & Manual Harvesting is Costly
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 – Vishal
T2 –Recommended Practice-	T2 – Chick pea var, RVG-202
T3- Recommended Practice-	T3 – Chick pea var, RVG-204
Date of sowing:	25-28 Oct 2021
Date of harvesting:	20-25 feb 2022
Source of technology:	RVSKVV, RAK, CoA. Sehore (2017)
Characteristics of technology:	Long plant, bold seeded, Resistant to wilt and tolerance to pod borer, suitable for mechanical harvesting
Name of Crop/Enterprises:	Chick Pea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	Witl resistance , more branching and height , and Suitable for mechanical harvesting

Result : (Economic Performance of OFT)

Details of technology	Name and Unit of Parameter	Result	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 Branches/plant	**14.67**	**23118**	**67256**	**44137**	**2.91**
	No of pods/plant	**28**				
	No. of seeds/pod	**1.0**				
	Test weight (g)	**192.4**				
	Yield (q/ha)	**12.93**				
T2(Recommended Practice)	No. of Branches/plant	**15.55**	**24145**	**76799**	**52754**	3.19
	No of pods/plant	**28.6**				
	No. of seeds/pod	**1.02**				
	Test weight (g)	**197.8**				
	Yield (q/ha)	**14.77**				
T3(Recommended Practice)	No. of Branches/plant	**16.67**	**24045**	**85045**	**61000**	3.54
	No of pods/plant	**31.8**				
	No. of seeds/pod	**1.06**				
	Test weight (g)	**200**				
	Yield (q/ha)	**16.35**				

Detailed Information about OFT: 4 (2022 summer)

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of Green gram variety IPM 205-7 (Virat) in summer season
Year/Season:	2022/ Summer
Farming situation:	Irrigated
Problem diagnosis:	Delay in Kharif Crop Sowing due to lack of Early mature variety of Green gram
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-	T1 – Farmers Practice – Green gram Var. Local (Mungdi)
T2 –Recommended Practice-	T2 – Green gram Var. PDM-139
T3- Recommended Practice-	T3 – Green gram Var. IPM 205-7 (Virat)
Date of sowing:	27 march-5April 2022
Date of harvesting:	31 May-6June ,2022
Source of technology:	Indian Institute of Pulses Research, Kanpur (2016)
Characteristics of technology:	Early maturing (52-55 days), high yielding and resistant to yellow mosaic disease
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	Maturity period at par with PDM-139 our climatic condition

Result : (Economic Performance of OFT)

Details of technology	Name and Unit of Parameter	Result	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/plant	**17.19**	**21856**	**73353**	**51497**	**3.36**
	No. of seeds/pod	**7.34**				
	Test weight (g)	**28.85**				
	Yield (q/ha)	**10.15**				
T2(Recommended Practice)	No of pods/plant	**17.95**	**22556**	**82983**	**60427**	**3.68**
	No. of seeds/pod	**7.58**				
	Test weight (g)	**29.20**				
	Yield (q/ha)	**11.49**				
T3(Recommended Practice)	No of pods/plant	**18.45**	**24856**	**95780**	**70924**	**3.85**
	No. of seeds/pod	**8.28**				
	Test weight (g)	**30.03**				
	Yield (q/ha)	**13.26**				

Information about OFT (5): Agronomy 2022-23(On going)

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of Chick pea variety RVG-204
Year/Season:	2022/ Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield of chick pea due to Exist varieties & Manual Harvesting is Costly
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 – Vishal
T2 –Recommended Practice-	T2 – Chick pea var, RVG-202
T3- Recommended Practice-	T3 – Chick pea var, RVG-204
Date of sowing:	Oct 2022
Date of harvesting:	-
Source of technology:	RVSKVV, RAK, CoA. Sehore (2017)
Characteristics of technology:	Long plant, bold seeded, Resistant to wilt and tolerance to pod borer, suitable for mechanical harvesting
Name of Crop/Enterprises:	Chick Pea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result : (Economic Performance of OFT)

Details of technology	Name and Unit of Parameter	Result	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 Branches/plant	In Progress	In Progress			
	No of pods/plant					
	No. of seeds/pod					
	Test weight (g)					
	Yield (q/ha)					
T2(Recommended Practice)	No. of Branches/plant		In Progress			
	No of pods/plant					
	No. of seeds/pod					
	Test weight (g)					
	Yield (q/ha)					
T3(Recommended Practice)	No. of Branches/plant		In Progress			
	No of pods/plant					
	No. of seeds/pod					
	Test weight (g)					
	Yield (q/ha)					

Information about OFT: (6) Agronomy 2022-23(Ongoing)

Name of Discipline	Agronomy
Title of on-farm trial:	Assessment of Wheat variety HI-1634 (Pusa Ahilya)
Year/Season:	2022/ Rabi
Farming situation:	Restricted Irrigated
Problem diagnosis:	Low yield of Wheat and lack of nutrition due to use of old 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-	T1 – Farmers Practice Wheat var Local (Lok 1)
T2 –Recommended Practice-	T2 – Wheat var. HI-1544
T3- Recommended Practice-	T3 – HI-1634 (Pusa Ahilya)
Date of sowing:	Oct 2022
Date of harvesting:	-
Source of technology:	ICAR-Indian Agricultural Research Institute, Regional Station, Indore
Characteristics of technology:	HI 1634 is an early flowering (60-65 days) variety which matures in 105-110 days, and produces bold grains (TGW 40.0g)
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result : (Economic Performance of OFT)

Details of technology	Name and Unit of Parameter	Result	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/hill	In progress	In progress			
	No of Grains/panical					
	Test weight (g)					
	Yield (q/ha)					
T2(Recommended Practice)	No of effective tillers/hill		In progress			
	No of Grains/panical					
	Test weight (g)					
	Yield (q/ha)					
T3(Recommended Practice)	No of effective tillers/hill		In progress			
	No of Grains/panical					
	Test weight (g)					
	Yield (q/ha)					

Information about OFT: (07)

Name of Discipline	**Soil Science**
Title of on-farm trial:	Assessment of Foliar application of water soluble plant nutrient and micronutrient Zn & B on yield and quality of Tomato.
Year/Season:	2021-22/ Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield ,quality and fruit set due to Nutrient deficiency
Thematic area:	SFM.
No of trials:	05 No.
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Application of 120:75:40 NPK kg/ha.
T2 –Recommended Practice-	Application of 120:75:40 NPK kg/ha.+ Foliar application of NPK 18:18:18 at 30 and 45 DAT.
T3- Recommended Practice-	Application of 120:75:40 NPK kg/ha.+ Foliar application of NPK 18:18:18 at 30 and 45 DAT.+ Foliar application of Zinc 0.5 % and Baron 0.1 % at 30 and 45 DAT.
Date of sowing:	September – 2021
Date of harvesting:	March – 2022
Source of technology:	IIVR, Varanasi (U.P.)
Characteristics of technology:	Foliar application 0f NPK, Zn & B increase yield and quality of Tomato
Name of Crop/Enterprises:	Tomato
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	**Average fruit weight**	**Unit of Parameter**	**Result Yield (q/ha)**	**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)	62	G	754	104120	301600	197480	2.89
T2(Recommended Practice)	66	g	789	314800	314800	207510	2.93
T3(Recommended Practice)	72	G	812	324800	324800	215760	2.98

Information about OFT: (08)

Name of Discipline	**Soil Science**
Title of on-farm trial:	Assessment of Nano- Nitrogen technology in wheat crop.
Year/Season:	2021-22/ Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low fertilizer use efficiency and One time application of nitrogen 170 kg/ha through Urea
Thematic area:	SFM.
No of trials:	05 No.
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	One time application of nitrogen 170 kg/ha through Urea
T2 –Recommended Practice-	Foliar application of Nano- Nitrogen @ 625 ml/ha. at 20 and 40 days after sowing
T3- Recommended Practice-	Application of 60 kg/ ha Nitrogen at 20 days after sowing and Nano- Nitrogen @ 625 ml/ha. at 40 days after sowing
Date of sowing:	October – 2021
Date of harvesting:	March – 2022
Source of technology:	ICAR- CIRCOT, Nagpur and IFFICO
Characteristics of technology:	Enhancing fertilizer use efficiency and reduce input cost
Name of Crop/Enterprises:	Wheat
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	**no. of Effective tiller/plant**	**Test weight (g)**	**Result yield (q/ha)**	**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)	6.28	46.86	52.59	29780	101241	71462	3.40
T2(Recommended Practice)	5.4	44.92	43.30	29366	83346	52980	2.84
T3(Recommended Practice)	6.2	46.66	52.28	29668	100634	70966	3.39

Information about OFT: (09)

Name of Discipline	**Soil Science**
Title of on-farm trial:	Assessment of Vegetable Micronutrients Mixture on yield of Garlic crop
Year/Season:	2021-22/ Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield of Garlic crop due to no use of micronutrient
Thematic area:	SFM.
No of trials:	10 No.
No. of farmers involved	10
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Basal dose of NPK 80: 60: 20 kg/ha
T2 –Recommended Practice-	Foliar application of Zinc Sulphate @ 3 g/L at 30, 60 and 90 DAS
T3- Recommended Practice-	Foliar application of vegetable micronutrient mixture @ 5 g/L at 30, 60 and 90 DAS
Date of sowing:	October – 2021
Date of harvesting:	March – 2022
Source of technology:	IIHR, Bangalore
Characteristics of technology:	Foliar spray of vegetable micronutrient mixture, increase yield of garlic
Name of Crop/Enterprises:	Garlic
Recommendations for Farmers	The technology was found compatible with farmer practices and recommendation for micro level situation
Recommendations for Deptt. Personnel	Technology found best for garlic grover farmer, 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	**No. of clove /bulb**	**100 clove weight**	**Result Yield (q/ha)**	**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)	17.21	57.43	62.28	76675	155711	79036	2.03
T2(Recommended Practice)	17.81	58.63	65.81	77410	164532	87122	2.13
T3(Recommended Practice)	18.01	60.82	69.03	77600	172271	94971	2.22

Information about OFT: (10)

Name of Discipline	**Soil Science**
Title of on-farm trial:	Assessment of Jeevamrit and GhanJeevamrit on growth and yield of Soybean & Chickpea crop
Year/Season:	2022/ Kharif
Farming situation:	Irrigated
Problem diagnosis:	High production cost of cultivation and toxicity of chemical fertilizer/ pesticide in crop and soil
Thematic area:	NRM
No of trials:	05 No.
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Recommended dose of plant nutrient NPK 20:60:20 kg/ha through fertilizer in soybean and chickpea crop
T2 –Recommended Practice-	Application GhanJeevamrit @ 5 q/ha and foliar spray of Jeevamrit @ 100 ml/liter of water at 15 days interval in Soybean & Chickpea crop
T3- Recommended Practice-	-
Date of sowing:	June 2022
Date of harvesting:	March 2023
Source of technology:	Natural Farming Technology (Shri SubhashPalakar)
Characteristics of technology:	Microbial prepared GhanJeevamrit and Jeevamrit promotes biological activity in soil and enhances nutrient availability and uptake by the crop
Name of Crop/Enterprises:	Soybean& 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	**Fertilizer Saving**	**Unit of Parameter**	**Result (qtl./ha)**	**Average Cost of cultivation Fertilizer Saving**	**Average Gross Return (Rs/ha)**	**Average Net Return (Rs/ha)**	**Benefit-Cost Ratio (Gross Return / Gross Cost)**
Soybean Crop							
T1 (Farmers Practice)	-	Rs/ha	11.79	23250	44803	21553	1.93
T2(Recommended Practice)	2525	Rs/ha	12.49	20725	47460	26735	2.29
Chickpea Crop							
T1 (Farmers Practice)	-	Rs/ha	13.16	23960	61201	34609	2.44
T2(Recommended Practice)	2454	Rs/ha	13.76	21506	64205	39765	2.84

Information about OFT: (11)

Name of Discipline	**Soil Science**
Title of on-farm trial:	Assessment of Sulphur along with recommended dose of plant nutrient as per soil test value in Soybean crop.
Year/Season:	2022/ Kharif
Farming situation:	Irrigated
Problem diagnosis:	Low yield due to Imbalance use of Plant Nutrient in Soybean crop.
Thematic area:	SFM.
No of trials:	10 No.
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 (09:23:00 NPK kg/ha)
T2 –Recommended Practice-	Balance use of plant nutrient (20:60:20 NPK kg/ha)
T3- Recommended Practice-	Balance use of plant nutrient (20:60:20 NPK kg/ha) + 40 kg/ha. sulphur.
Date of sowing:	June – 2022
Date of harvesting:	October – 2023
Source of technology:	IISS, Bhopal
Characteristics of technology:	Application of Sulphur & Balance use of Plant Nutrient as per STV, Increase yield and quality of Soybean crop.
Name of Crop/Enterprises:	Soybean
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	**Parameter Name**	**Unit of Parameter**	**Result Yield (q/ha)**	**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)	Test weight	93.40 g	11.30	22521.67	46983.09	24461.42	2.09
T2(Recommended Practice)	Test weight	94.30 g	12.67	23971.67	52759.50	28787.83	2.20
T3(Recommended Practice)	Test weight	94.90 g	13.07	24971.67	54419.47	29447.80	2.18

Information about OFT: (12)

Name of Discipline	**Soil Science**
Title of on-farm trial:	Assessment of Foliar application of water soluble plant nutrient and micronutrient Zn & B on yield and quality of Tomato.
Year/Season:	2022-23/ Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low yield ,quality and fruit set due to Nutrient deficiency
Thematic area:	SFM.
No of trials:	05 No.
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	Application of 120:75:40 NPK kg/ha.
T2 –Recommended Practice-	Application of 120:75:40 NPK kg/ha.+ Foliar application of NPK 18:18:18 at 30 and 45 DAT.
T3- Recommended Practice-	Application of 120:75:40 NPK kg/ha.+ Foliar application of NPK 18:18:18 at 30 and 45 DAT.+ Foliar application of Zinc 0.5 % and Baron 0.1 % at 30 and 45 DAT.
Date of sowing:	August – 2022
Date of harvesting:	March – 2023
Source of technology:	IIVR, Varanasi (U.P.)
Characteristics of technology:	Foliar application 0f NPK, Zn & B increase yield and quality of Tomato
Name of Crop/Enterprises:	Tomato
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	**Parameter Name**	**Unit of Parameter**	**Result**	**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)							

Information about OFT: (13)

Name of Discipline	**Soil Science**
Title of on-farm trial:	Assessment of Nano- Nitrogen technology in wheat crop.
Year/Season:	2022-23/ Rabi
Farming situation:	Irrigated
Problem diagnosis:	Low fertilizer use efficiency and One time application of nitrogen 170 kg/ha through Urea
Thematic area:	SFM.
No of trials:	05 No.
No. of farmers involved	05
Type of OFT (Assessment/ Refinement):	Assessment
Details of technology selected for assessment/ refinement:	
T1 – Farmers Practice-	One time application of nitrogen 170 kg/ha through Urea
T2 –Recommended Practice-	Foliar application of Nano- Nitrogen @ 625 ml/ha. at 20 and 40 days after sowing
T3- Recommended Practice-	Application of 60 kg/ ha Nitrogen at 20 days after sowing and Nano- Nitrogen @ 625 ml/ha. at 40 days after sowing
Date of sowing:	November – 2022
Date of harvesting:	March – 2023
Source of technology:	ICAR- CIRCOT, Nagpur& IFFICO
Characteristics of technology:	Enhancing fertilizer use efficiency and reduce input cost
Name of Crop/Enterprises:	Wheat
Recommendations for Farmers	The technology was found compatible with farmer practices and recommendation for micro level situation
Recommendations for Deptt. Personnel	Technology found best for wheat grower farmer, 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	**Parameter Name**	**Unit of Parameter**	**Result**	**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)							

Detailed Information about OFT (14)-

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of ITK practice for the management of insect pest of vegetable crop (okra & bitter guard)
Year/Season:	2022 kharif
Farming situation:	Irrigated
Problem diagnosis:	Low yield of vegetable due to infestation of insect pest (Average yield losses up to 15-20%)
Thematic area:	Integrated Pest 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-	Application of insecticide only
T2 –Recommended Practice-	spraying of starch, animal urin and dusting of cowdung ash in vegetables three time 15 day interval (Okra & Bitter Gourd)
Date of sowing:	15 june, 2022
Date of harvesting:	18 August, 2022
Source of technology:	ICAR- IIHR Bangalore (2017)
Characteristics of technology:	Reduce Disease Incidence
Name of Crop/Enterprises:	Okra & bitter guard
Recommendations for Farmers	Technology was appropriate with farming situation and farmers convince to adopt but low cost not economically effective
Recommendations for Deptt. Personnel	Thechnology was suitable in farming situation and deptt. Personnel was spread the technology other farmers
Feedback	Farmers was observed cow dung ash and animal urin not effective to insect pest population

Result : **(Economic Performance of OFT)** **(Please choose and give the parameters name and value according to suitable your OFT)**

Details of technology	Parameter Name	Unit of Parameter	Result		Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
			Incidence (%)	Yield (q/ha)				
T1 (Farmers Practice)	Yield	q/ha	8.74	80.80	20556	363600	343044	17.69
T2(Recommended Practice)	Incidence	%	6.2	76	22348	342000	319652	15.30

Detailed Information about OFT: (15)

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of IPM module for the management of gram pod borer in chickpea
Year/Season:	2022-23/Rabi
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:	Integrated Pest 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-	Application of insecticide only
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:	5 Nov, 2022
Date of harvesting:	In progress
Source of technology:	ICAR- NCIPM, New Delhi (2017)
Characteristics of technology:	Reduce insect infestation
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result : **(Economic Performance of OFT)**

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

Detailed Information about OFT: (16)

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of seed treatment with burn engine oil @ 10 ml/kg for the management of fungal diseases in chickpea
Year/Season:	2022-23/Rabi
Farming situation:	Rainfed
Problem diagnosis:	Low yield of chickpea due to incidence of fungal diseases (Average yield losses up to 15-20%)
Thematic area:	IDM based on ITK
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-	Seed treatment with carbendazim 25% + Menchozeb 50% @ 3g/kg seed
T2 –Recommended Practice-	Seed treatment with burn engine oil @ 10 ml/kg seed
T3- Recommended Practice-	Seed treatment with carbendazim 25% + Menchozeb 50% @ 3g/kg seed+ burnt engine oil @ 10 ml/kg seed
Date of sowing:	8 Nov, 2022
Date of harvesting:	In progress
Source of technology:	ICAR- NCIPM, New Delhi (2017)
Characteristics of technology:	Reduce disease incidence
Name of Crop/Enterprises:	Chickpea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result : **(Economic Performance of OFT)**

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

Detailed Information about OFT: (17)

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of IDM module for the management of stemphylium blight and Purple Blotch in Garlic
Year/Season:	2022-23/Rabi
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:	Integrated Disease 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-	Application of Fungicide only
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:	15 Nov, 2022
Date of harvesting:	In progress
Source of technology:	ICAR- IIHR Bangalore (2017)
Characteristics of technology:	Reduce Disease Incidence
Name of Crop/Enterprises:	Garlic
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result : **(Economic Performance of OFT)**

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

Detailed Information about OFT: (18)

Name of Discipline	Plant Protection
Title of on-farm trial:	Assessment of neemastra, brahmastra, agniastra for the management of insect peat in soybean – chickpea cropping system
Year/Season:	2022-23/Rabi
Farming situation:	Irrigated
Problem diagnosis:	High production cost of cultivation and toxicity of chemical fertilizer/ pesticide in crop and soil
Thematic area:	NRM
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-	Application of insecticides (Imidacloprid 17.8%SL @ 225 ml/ha, Profenophos 40% +Cypermethrin 4% EC @ 1 Lit/ha, EmmamectineBanzoate 5% SG @ 220g/ha)
T2 –Recommended Practice-	Application of foliar spray of Neemastra @ 500 L/ha for control of sucking –insect, foliar spray of Brahmstra @ 15 L/ha & Agni Astra @ 15 L/ha for control of leaf defoliators in Soybean & Chickpea crop
T3- Recommended Practice-	03 june, 2022
Date of sowing:	In progress
Date of harvesting:	ICAR- IIHR Bangalore (2017)
Source of technology:	Reduce Disease Incidence
Characteristics of technology:	Soybean & Chickpea
Name of Crop/Enterprises:	Soybean & Chickpea
Recommendations for Farmers	-
Recommendations for Deptt. Personnel	-
Feedback	-

Result : **(Economic Performance of OFT)**

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

Information about Extension OFT: (19)

Title	Assessment of effective use of different information sources for production technology of onion & Garlic
Season & Year	Rabi, 2021-22
Problem identified	Low yield of Onion & Garlic due to poor information sources
Thematic Area	Information and Communication Technology
Farming situation	Irrigated
Name of Technology under study	Use of what's app for Onion & Garlic Production technology information
Farmers Practice	Use traditional information Sources
No. of replication (Farmers)	60

Results / findings (Please choose and give the parameters name and value according to suitable your OFT)

Performance indicators/ parameters	Unit/ details	Observation		
		T1 (Farmers Practice)	T2(Recommended Practice)	T3(Recommended Practice)
Knowledge Change	%	**38.40**	**54.16**	**66.71**
Adoption of Share Technology	%	**37.75**	**47.50**	**57.00**
Information Reliability	%	**47.53**	**59.60**	**71.21**
Timeliness	%	**37.60**	**49.50**	**58.30**

Information about Home Science OFT: (20)

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

Title of On-Farm Trial	Assessment of ITK based Iron rich food supplements (Halwa) for anaemic children (6 month-59 Months)
Year/Season	2022
Problem Diagnosis	Anaemic children in Rural areas
Thematic Area	Nutritional Security
No. of Trials	01
No. of farmers/farm women involved	16
Type of OFT (Assessment/Refinement)	Assessment
Details of Technology Selected for Assessment	
T_1 - Farmers Practice	Intake low iron diet in first half day.
T_2 – Recommended Practice	Wheat Flour + Jaggery + Use iron utensils for preparation of Halwa.
Characteristics of Technology	Iron rich halwa reduce anaemia in children
Name of Crop/Enterprises	-
Farming Situation	Homestead
Date of Sowing	Start Date – June., 2022
Date of Harvesting	End Date – August, 2022
Recommendation of Farmers	-
Recommendation of Department Personal	-
Feedback	Children ate food with excitement and improved in their health

Economic Performance: (Nutritional Security)

Name	Name of Product/enterprise		Per capita Consumption gm/ day		Nutrient Intake (Unit) Energy (kcal)		Protein (gm)		Iron (mg)		Calcium (mg)		Age	Anthropometric measurements Increase in Wt. (kg)		Increase in Ht.(cm)		Increase in 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
Bharti	-	Halwa	0	40	0	132	0	3.24	0	14.4	-	-	1.3	7.5	8.9	72	72.1	14.46	17.12
Raj	-	Halwa	0	50	0	165	0	4.05	0	18	-	-	1.5	7.2	9.0	73.3	73.5	13.40	16.65
Krishna	-	Halwa	0	75	0	247.5	0	6.07	0	27	-	-	2.10	10.8	12	87.5	87.6	14.10	15.63
Khushi	-	Halwa	0	50	0	165	0	4.05	0	18	-	-	1.5	7.0	9.2	73	73.2	13.13	17.16
Vanya	-	Halwa	0	30	0	99	0	2.43	0	10.8	-	-	1.0	6.7	8.1	72	72.1	12.92	15.58
Vihan	-	Halwa	0	65	0	214.5	0	5.26	0	23.4	-	-	2.5	10.2	11	86.5	86.5	13.63	14.70
Priya	-	Halwa	0	30	0	99	0	2.43	0	10.8	-	-	1.0	7.0	8.4	72	73	13.50	15.76
Yogeshwari	-	Halwa	0	60	0	198	0	4.86	0	21.6	-	-	1.9	8.2	10.7	75	75.5	14.57	18.77
Aerage		Halwa	**0**	**50**	**0**	**169.71**	**0**	**4.04**	**0**	**18.0**	**-**	**-**		**8.075**	**9.66**	**76.41**	**76.68**	**13.71**	**16.42**

Economic Performance: (Nutritional Security)

Name of Product/enterprise		Per capita Consumption gm/ day		Nutrient Intake (Unit) Energy (kcal)		Protein (gm)		Iron (mg)		Calcium (mg)		Anthropometric measurements Increase in Wt. (kg)		Increase in Ht.(cm)		Increase in 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
-	Halwa	**0**	**50**	**0**	**169.71**	**0**	**4.04**	**0**	**18.0**	-	-	**8.075**	**9.66**	**76.41**	**76.68**	**13.71**	**16.42**

(B) Economic Performance Home Science OFT: (For Drudgery Reduction)- NA

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 - NA

Name of Enterprise : -……..

Detail of Technology	Parameter of	Production per	Average Cost of	Average Gross	Average Net Return	Benefit-Cost Ratio (Gross

	enterprise	unit (qt/no/lit)	input (Rs/unit	Return (Rs/unit)	(Rs/unit)	Return / Gross Cost)
T_1(Farmers Practices)						
T_2 (Recommended Practices)						
T_3(Recommended Practices)						

(D) Economic Performance Home Science OFT: (For value addition)- NA

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						

Frontline Demonstrations

Details of FLDs organized (Based on soil test analysis)

KVK Name	Season	Discipline (Agronomy /Horticulture/ Soil Science/Plant Protection/ Plant Breeding/ Agroforestry)	Thematic area	Technology for demonstration	Crop Category	Name of Crop	Name of Variety	Farming Situation (rainfed/irrigated/semi-irrigated)	Completed/ Ongoing	Crop-Area (ha)	No. of farmers			
											SC	ST	Others	General
SEHORE	Rabi 201-22	Agronomy	ICM	Wheat Variety HI-8759(Pusa Tejus)	Cereal	Wheat	HI- 8759	Irrigated	Completed	2.0	-	08	02	-
SEHORE	Rabi 201-22	Agronomy	IWM	Application of Metsulfuron + Clodinofop ai @ 64 g/ha	Cereal	Wheat	HI- 1544 /8759	Irrigated	Completed	2.0	01	02	02	-
SEHORE	Kharif 2022	Agronomy	Crop diversification	Hybrid maize +BMP	Cereal	Maize	Hybrid	Irrigated and Restricted Irrigated	Completed	4.0	-	05	05	-
SEHORE	Kharif 2022	Agronomy	IWM	Application of PE Herbicide Diclosulam 84 %WDG @26 g ai/ha	Oilseed	Soybean	JS-2034/9560	Irrigated	Completed	2.0	01	-	04	-
SEHORE	Kharif 2022	Agronomy	ICM	Improved soybean variety RVS 2001-18	Oilseed	Soybean	RVS 2001-18	Restricted Irrigated	Completed	2.0	05	-	-	-
SEHORE	Kharif 2022	Agronomy	ICM	Pigeon pea cultivation in wasteland for nutritional security	Pulses	Pigeon pea	TJT-501	Irrigated and Restricted Irrigated	In-progress	1.0	05	10	35	-
SEHORE	Rabi 2021-22	Agronomy	ICM	Wheat Variety HI-8759(Pusa Tejus)	Cereal	Wheat	HI- 8759	Irrigated	In-progress	2.0	01	-	09	-
SEHORE	Rabi 2021-22	Agronomy	ICM	Application of Metsulfuron + Clodinofop ai @ 64 g/ha	Cereal	Wheat	HI- 1544 /8759	Irrigated	In-progress	2.0	-	05	-	-
SEHORE	2021-22 Rabi	Soil Science	INM	Demonstration of Integrated Nutrient Management in Chickpea crop	Leguminous	Chickpea	RVG-202	Irrigated	completed	2.0	01	-	02	02
SEHORE	2021-22 Rabi	Soil Science	SFM	Demonstration of Nutrient Management in onion crop	Bulb crop	onion	Fursungi	Irrigated	completed	2.0	01	-	02	02
SEHORE	2022	Soil	SFM	Demonstration of Foliar Spray of	Oil	Soybean	Rvs-18	Irrigated	completed	2.0	01	-	02	02

KVK Name	Season	Discipline (Agronomy /Horticulture/ Soil Science/Plant Protection/ Plant Breeding/ Agroforestry)	Thematic area	Technology for demonstration	Crop Category	Name of Crop	Name of Variety	Farming Situation (rainfed/irrigated/semi-irrigated)	Completed/ Ongoing	Crop-Area (ha)	No. of farmers			
											SC	ST	Others	General
	Kharif	Science		Potassium Nutrient in Soybean crop.	seed									
SEHORE	Kharib 2022	Soil Science	INM	Demonstration of INM module in hybrid maize crop	Cereal crop	Hybrid maize		Irrigated	completed	2.00	01	-	04	-
SEHORE	2022 Kharif	Soil Science	NRM	Demonstration of Bio Waste-Decomposer for composting	Enterprise	Enterprise	-	-	completed	-	01	-	04	-
SEHORE	2022-23 Rabi	Soil Science	SFM	Demonstration of Nutrient Management in onion crop	Bulb crop	onion	Fursungi	Irrigated	ongoing	1.0	01	-	04	-
SHEORE	Summer, 2022	Plant Protection	IDM	Demonstration of IDM module for the management of leaf curl virus in green gram	Pulse	Green gram	IPM-410-3 (Shikha)	Irrigated	Completed	2.0	-	05	05	-
SEHORE	Kharif 2022	Plant Protection	IPM	Demonstration of IPM module for the management of girdle beetle and defoliators in soybean crop	Oilseeed	Soybean	RVS-18 (Raj soya-18)	Irrigated	Completed	1 ha	-	-	3	2
SEHORE	Kharif 2022	Plant Protection	IPM	Demonstration of IPM module for the management of Fall Army Warm in maize crop	cereals	Maize	Hybrid	Irrigated	Completed	1 ha	-	3	-	2
SEHORE	Kharif 2022	Plant Protection	IDM	Demo. Of IDM module for the management of leaf curl virus disease in tomato	Vegetable	Tomato	Hybrid	Irrigated	Completed	1 ha	-	-	5	-
SEHORE	Kharif 2022	Plant Protection	IPM	Demo Of IPM module for the management of fruit fly in cucurbits (Bottle Guard)	vegetable	Bottle guard	Hybrid	Irrigated	completed	1 ha	-	-	5	-
SEHORE	Rabi 2022-23	Plant Protection	IDM	Demonstration IDM module for the management of Wilt, root rot & Collar rot disease in chickpea.	Pulse	Chick pea	JAKI-9218	Rainfed	In progress	4 ha	-	-	6	4
SEHORE	Kharif 2022	Agri. Extn.	Soil Health Management	Demonstration of Soil Health Card Based use of Fertilizer Application in Soybean Crops	Oilseed	Soybean	RVS-2000-18	Rainfed	Completed	4.0	02	-	-	08
SEHORE	Rabi 2022-23	Agri. Extn.	Soil Health Management	Demonstration of Soil Health Card Based use of Fertilizer Application in Chickpea Crops.	Pulses	Chickpea	RVG-202	Semi Irrigated	Completed	4.0	02	-	-	08

KVK Name	Season	Discipline (Agronomy /Horticulture/ Soil Science/Plant Protection/ Plant Breeding/ Agroforestry)	Thematic area	Technology for demonstration	Crop Category	Name of Crop	Name of Variety	Farming Situation (rainfed/irrigated/semi-irrigated)	Completed/ Ongoing	Crop-Area (ha)	No. of farmers			
											SC	ST	Others	General
SEHORE	-	Home Science	Nutritional Security	Demonstration of Drumstick Crackers for Improving Haemoglobin level in Blood	-	Drumstick Leaves	PKM-1	-	Completed	Adolescent Girls / Pregnant Women	12	-	03	-
SEHORE	-	Home Science	Nutritional Security	Demonstration on Kitchen garden for nutritional security	-	Seasonal Vegetables	Seasonal Vegetables Round the Year	-	-	0.75	In Progress			

Economic Impact of Crop FLD

KVK Name	Technology for demonstration	Name of Crop/ Enterprise	Name of Parameter	Name of Unit	Result		Average Cost of cultivation (Rs/ha)		Average Gross Return (Rs/ha)		Average Net Return (Rs/ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)	
					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	Wheat Variety HI-8759 (Pusa Tejus)	Wheat	No. of Effective tillers	per hill	5.52	6.05	26965	27365	101421	112524	74456	85160	3.76	4.11
			No. of grain	per panical	45.03	46.00								
			Test Weight	(g)	45.82	46.47								
			Yield	(qtl/ha)	50.33	55.84								
SEHORE	Application of Metsulfuron + Clodinofop ai @ 64 g/ha	Wheat	Weed Density	m^2	8.35	4.65	27540	27858	97104	112323	69564	84465	3.53	4.03
			No. of Effective tillers	per hill	5.10	5.70								
			No. of grain	per panical	44.40	44.60								
			Test Weight	(g)	46.00	46.00								
			Yield	Q/ha)	46.24	53.49								
SEHORE	Hybrid maize +BMP	T1:maize T:2 Soybean	No.of Cobs/Pods	Per plant	19.27	1.03	22410	21738	51089	65852	28679	44114	2.28	3.0
			No. of graiins/cob/pod	Per cob/Pods	1.42	305.50								
			Test Weight	(g)	90.18	227.90								
			Yield	(Q/ha)	10.64	37.63								
SEHORE	Application of PE Herbicide	Soybean	Weed Density	m^2	13.11	3.01	22640	21444	50999	60319	28359	38875	2.25	2.81

	Diclosulam 84 %WDG @26 g ai/ha		No of Pods	per Plant	17.80	20.20									
			No of seeds	Per pod	1.60	1.63									
			Test Weight	(g)	90.59	91.78									
			Yield)	(Q/ha	10.62	12.57									
SEHORE	Improved soybean variety RVS 2001-18	Soybean	No.of Pods	Per plant	15.20	16.80	23363	24409	60664	73551	37300.	49141	2.60	3.01	
			No. of graiins	Per Pods	1.91	2.09									
			Test Weight	(g)	92.56	92.92									
			Yield	(Q/ha)	11.03	13.37									
SEHORE	Pigeon pea cultivation in wasteland for nutritional security	Pigeon pea	Protien	%	In progress										
			Consumption per day	g											
			yield	(Q/ha)											
SEHORE	Wheat Variety , HI-8759 (Pusa Tejus)	Wheat	No. of Effective tillers	per hill	In Progress										
			No. of grain	per panical											
			Test Weight	(g)											
			Yield	(qtl/ha)											
Sehore	Application of Metsulfuron + Clodinofop ai @ 64 g/ha	Wheat	Weed Density	m2	In Progress										
			No. of Effective tillers	per hill											
			No. of grain	per panical											
			Test Weight	(g)											
			Yield	Q/ha)											
SEHORE	Demonstration of Integrated Nutrient Management in Chickpea crop	Chickpea	No. of pods/ plant	**FP (T1)**	**RP (T2)**	13.76	15.70	24030.00	26880.00	64004.59	73025.15	37221.70	43004.29	2.55	2.60
				23.4	24.94										
			No. of grains/ pod	1.082	1.12										
			Test Weight (g)	215	222.2										
SEHORE	Demonstration of Nutrient Management in onion crop	Onion	No. of bulbs/ sqm	50.6	50.6	200	226	68878	72048	160667	181206	91789	109158	2.33	2.51
			Average bulb weight (g)	39.68	44.76										
SEHORE	Demonstration of Foliar Spray of Potassium Nutrient in Soybean crop.	Soybean	No. of pods/ plant	17.0	17.5	11.09	12.31	23170.00	23670.00	49887.65	55399.93	26717.65	31729.93	2.15	2.34
			No. of grains/ pod	1.79	1.91										
			Test Weight (g)	92.18	92.66										
SEHORE	Demonstration of INM module in hybrid maize crop	Hybrid maize	No. of cobs/ plant	1.055	1.155	56.70	65.48	25493.40	26963.40	79392.62	91682.42	53899.22	64719.02	3.11	3.40
			No. of seed/ cob	380.02	392.41										
			Test weight (g)	229.66	234.56										
SEHORE	Demonstration of Bio Waste-Decomposer for composting	Enterprise	Time taken for decomposition (Month)	12.2	5.5	-	-	2000.00	26000.00	3000.00	5000.00	1000.00	2400.00	1.50	1.92
SEHORE	Demonstration of Nutrient	Onion	No. of bulbs/ sqm	-	-										

KVK Name	Technology for demonstration	Name of Crop/ Enterprise	Name of Parameter	Name of Unit	Result		Average Cost of cultivation (Rs/ha)		Average Gross Return (Rs/ha)		Average Net Return (Rs/ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)	
					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	Wheat Variety HI-8759 (Pusa Tejus)	Wheat	No. of Effective tillers	per hill	5.52	6.05	26965	27365	101421	112524	74456	85160	3.76	4.11
			No. of grain	per panical	45.03	46.00								
			Test Weight	(g)	45.82	46.47								
			Yield	(qtl/ha)	50.33	55.84								
SEHORE	Application of Metsulfuron + Clodinofop ai @ 64 g/ha	Wheat	Weed Density	m^2	8.35	4.65	27540	27858	97104	112323	69564	84465	3.53	4.03
			No. of Effective tillers	per hill	5.10	5.70								
			No. of grain	per panical	44.40	44.60								
			Test Weight	(g)	46.00	46.00								
			Yield	Q/ha)	46.24	53.49								
SEHORE	Hybrid maize +BMP	T1:maize T:2 Soybean	No.of Cobs/Pods	Per plant	19.27	1.03	22410	21738	51089	65852	28679	44114	2.28	3.0
			No. of graiins/cob/pod	Per cob/Pods	1.42	305.50								
			Test Weight	(g)	90.18	227.90								
			Yield	(Q/ha)	10.64	37.63								
SEHORE	Application of PE Herbicide Diclosulam 84 %WDG @26 g ai/ha	Soybean	Weed Density	m^2	13.11	3.01	22640	21444	50999	60319	28359	38875	2.25	2.81
			No of Pods	per Plant	17.80	20.20								
			No of seeds	Per pod	1.60	1.63								
			Test Weight	(g)	90.59	91.78								
			Yield)	(Q/ha	10.62	12.57								
SEHORE	Improved soybean variety RVS 2001-18	Soybean	No.of Pods	Per plant	15.20	16.80	23363	24409	60664	73551	37300.	49141	2.60	3.01
			No. of graiins	Per Pods	1.91	2.09								
			Test Weight	(g)	92.56	92.92								
			Yield	(Q/ha)	11.03	13.37								
SEHORE	Pigeon pea cultivation in wasteland for nutritional security	Pigeon pea	Protien	%	In progress									
			Consumption per day	g										
			yield	(Q/ha)										
SEHORE	Wheat Variety , HI-8759 (Pusa Tejus)	Wheat	No. of Effective tillers	per hill	In Progress									
			No. of grain	per panical										
			Test Weight	(g)										
			Yield	(qtl/ha)										
	Management in onion crop		Average bulb weight (g)	- -										
Sehore	Demonstration of IDM module for the management of leaf curl virus in green gram	Green gram	Disease Incidence	%	7.17	5.00	22300	24284	92400	105700	41496	53374	2.8	3.07
			Yield	(q/ha)	13.20	15.10								

KVK Name	Technology for demonstration	Name of Crop/ Enterprise	Name of Parameter	Name of Unit	Result		Average Cost of cultivation (Rs/ha)		Average Gross Return (Rs/ha)		Average Net Return (Rs/ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)	
					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	Wheat Variety HI-8759 (Pusa Tejus)	Wheat	No. of Effective tillers	per hill	5.52	6.05	26965	27365	101421	112524	74456	85160	3.76	4.11
			No. of grain	per panical	45.03	46.00								
			Test Weight	(g)	45.82	46.47								
			Yield	(qtl/ha)	50.33	55.84								
SEHORE	Application of Metsulfuron + Clodinofop ai @ 64 g/ha	Wheat	Weed Density	m^2	8.35	4.65	27540	27858	97104	112323	69564	84465	3.53	4.03
			No. of Effective tillers	per hill	5.10	5.70								
			No. of grain	per panical	44.40	44.60								
			Test Weight	(g)	46.00	46.00								
			Yield	Q/ha)	46.24	53.49								
SEHORE	Hybrid maize +BMP	T1:maize T:2 Soybean	No.of Cobs/Pods	Per plant	19.27	1.03	22410	21738	51089	65852	28679	44114	2.28	3.0
			No. of graiins/cob/pod	Per cob/Pods	1.42	305.50								
			Test Weight	(g)	90.18	227.90								
			Yield	(Q/ha)	10.64	37.63								
SEHORE	Application of PE Herbicide Diclosulam 84 %WDG @26 g ai/ha	Soybean	Weed Density	m^2	13.11	3.01	22640	21444	50999	60319	28359	38875	2.25	2.81
			No of Pods	per Plant	17.80	20.20								
			No of seeds	Per pod	1.60	1.63								
			Test Weight	(g)	90.59	91.78								
			Yield)	(Q/ha	10.62	12.57								
SEHORE	Improved soybean variety RVS 2001-18	Soybean	No.of Pods	Per plant	15.20	16.80	23363	24409	60664	73551	37300.	49141	2.60	3.01
			No. of graiins	Per Pods	1.91	2.09								
			Test Weight	(g)	92.56	92.92								
			Yield	(Q/ha)	11.03	13.37								
SEHORE	Pigeon pea cultivation in wasteland for nutritional security	Pigeon pea	Protien	%	In progress									
			Consumption per day	g										
			yield	(Q/ha)										
SEHORE	Wheat Variety , HI-8759 (Pusa Tejus)	Wheat	No. of Effective tillers	per hill	In Progress									
			No. of grain	per panical										
			Test Weight	(g)										
			Yield	(qtl/ha)										
Sehore	Demonstration of IPM module for the management of girdle beetle and defoliators in soybean crop	Soybean	Insect infestation	(%)	12.80	5.6	22984	25666	64480	79040	41496	53374	2.80	3.08
			Yield	(q/ha)	12.40	15.20								
Sehore	Demonstration of IPM module for the management of Fall	Maize	Insect infestation	(%)	14.00	5.80	23426	25190	30800	82800	7374	57610	1.32	3.29

KVK Name	Technology for demonstration	Name of Crop/ Enterprise	Name of Parameter	Name of Unit	Result		Average Cost of cultivation (Rs/ha)		Average Gross Return (Rs/ha)		Average Net Return (Rs/ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)	
					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	Wheat Variety HI-8759 (Pusa Tejus)	Wheat	No. of Effective tillers	per hill	5.52	6.05	26965	27365	101421	112524	74456	85160	3.76	4.11
			No. of grain	per panical	45.03	46.00								
			Test Weight	(g)	45.82	46.47								
			Yield	(qtl/ha)	50.33	55.84								
SEHORE	Application of Metsulfuron + Clodinofop ai @ 64 g/ha	Wheat	Weed Density	m^2	8.35	4.65	27540	27858	97104	112323	69564	84465	3.53	4.03
			No. of Effective tillers	per hill	5.10	5.70								
			No. of grain	per panical	44.40	44.60								
			Test Weight	(g)	46.00	46.00								
			Yield	Q/ha)	46.24	53.49								
SEHORE	Hybrid maize +BMP	T1:maize T:2 Soybean	No.of Cobs/Pods	Per plant	19.27	1.03	22410	21738	51089	65852	28679	44114	2.28	3.0
			No. of graiins/cob/pod	Per cob/Pods	1.42	305.50								
			Test Weight	(g)	90.18	227.90								
			Yield	(Q/ha)	10.64	37.63								
SEHORE	Application of PE Herbicide Diclosulam 84 %WDG @26 g ai/ha	Soybean	Weed Density	m^2	13.11	3.01	22640	21444	50999	60319	28359	38875	2.25	2.81
			No of Pods	per Plant	17.80	20.20								
			No of seeds	Per pod	1.60	1.63								
			Test Weight	(g)	90.59	91.78								
			Yield)	(Q/ha	10.62	12.57								
SEHORE	Improved soybean variety RVS 2001-18	Soybean	No.of Pods	Per plant	15.20	16.80	23363	24409	60664	73551	37300.	49141	2.60	3.01
			No. of graiins	Per Pods	1.91	2.09								
			Test Weight	(g)	92.56	92.92								
			Yield	(Q/ha)	11.03	13.37								
SEHORE	Pigeon pea cultivation in wasteland for nutritional security	Pigeon pea	Protien	%	In progress									
			Consumption per day	g										
			yield	(Q/ha)										
SEHORE	Wheat Variety , HI-8759 (Pusa Tejus)	Wheat	No. of Effective tillers	per hill	In Progress									
			No. of grain	per panical										
			Test Weight	(g)										
			Yield	(qtl/ha)										
	Army Warm in maize crop		Yield	(q/ha)	15.40	18.40								
Sehore	Demo. Of IDM module for the management of leaf curl virus disease in tomato	Tomato	Disease Incidence	(%)	9.20	5.00	78030	77832	346200	381000	268170	303168	4.44	4.90
			Yield	(q/ha)	346.20	381								

KVK Name	Technology for demonstration	Name of Crop/ Enterprise	Name of Parameter	Name of Unit	Result		Average Cost of cultivation (Rs/ha)		Average Gross Return (Rs/ha)		Average Net Return (Rs/ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)	
					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	Wheat Variety HI-8759 (Pusa Tejus)	Wheat	No. of Effective tillers	per hill	5.52	6.05	26965	27365	101421	112524	74456	85160	3.76	4.11
			No. of grain	per panical	45.03	46.00								
			Test Weight	(g)	45.82	46.47								
			Yield	(qtl/ha)	50.33	55.84								
SEHORE	Application of Metsulfuron + Clodinofop ai @ 64 g/ha	Wheat	Weed Density	m^2	8.35	4.65	27540	27858	97104	112323	69564	84465	3.53	4.03
			No. of Effective tillers	per hill	5.10	5.70								
			No. of grain	per panical	44.40	44.60								
			Test Weight	(g)	46.00	46.00								
			Yield	Q/ha)	46.24	53.49								
SEHORE	Hybrid maize +BMP	T1:maize T:2 Soybean	No.of Cobs/Pods	Per plant	19.27	1.03	22410	21738	51089	65852	28679	44114	2.28	3.0
			No. of graiins/cob/pod	Per cob/Pods	1.42	305.50								
			Test Weight	(g)	90.18	227.90								
			Yield	(Q/ha)	10.64	37.63								
SEHORE	Application of PE Herbicide Diclosulam 84 %WDG @26 g ai/ha	Soybean	Weed Density	m^2	13.11	3.01	22640	21444	50999	60319	28359	38875	2.25	2.81
			No of Pods	per Plant	17.80	20.20								
			No of seeds	Per pod	1.60	1.63								
			Test Weight	(g)	90.59	91.78								
			Yield)	(Q/ha	10.62	12.57								
SEHORE	Improved soybean variety RVS 2001-18	Soybean	No.of Pods	Per plant	15.20	16.80	23363	24409	60664	73551	37300.	49141	2.60	3.01
			No. of graiins	Per Pods	1.91	2.09								
			Test Weight	(g)	92.56	92.92								
			Yield	(Q/ha)	11.03	13.37								
SEHORE	Pigeon pea cultivation in wasteland for nutritional security	Pigeon pea	Protien	%	In progress									
			Consumption per day	g										
			yield	(Q/ha)										
SEHORE	Wheat Variety , HI-8759 (Pusa Tejus)	Wheat	No. of Effective tillers	per hill	In Progress									
			No. of grain	per panical										
			Test Weight	(g)										
			Yield	(qtl/ha)										
Sehore	Demo Of IPM module for the management of fruit fly in cucurbits (Bottle Guard)	Bottle guard	Insect infestation	(%)	12.40	4.80	78064	77710	188600	210000	110536	132290	2.42	2.70
			Yield	(q/ha)	188.60	210								

KVK Name	Technology for demonstration	Name of Crop/ Enterprise	Name of Parameter	Name of Unit	Result		Average Cost of cultivation (Rs/ha)		Average Gross Return (Rs/ha)		Average Net Return (Rs/ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)	
					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	Wheat Variety HI-8759 (Pusa Tejus)	Wheat	No. of Effective tillers	per hill	5.52	6.05	26965	27365	101421	112524	74456	85160	3.76	4.11
			No. of grain	per panical	45.03	46.00								
			Test Weight	(g)	45.82	46.47								
			Yield	(qtl/ha)	50.33	55.84								
SEHORE	Application of Metsulfuron + Clodinofop ai @ 64 g/ha	Wheat	Weed Density	m^2	8.35	4.65	27540	27858	97104	112323	69564	84465	3.53	4.03
			No. of Effective tillers	per hill	5.10	5.70								
			No. of grain	per panical	44.40	44.60								
			Test Weight	(g)	46.00	46.00								
			Yield	Q/ha)	46.24	53.49								
SEHORE	Hybrid maize +BMP	T1:maize T:2 Soybean	No.of Cobs/Pods	Per plant	19.27	1.03	22410	21738	51089	65852	28679	44114	2.28	3.0
			No. of graiins/cob/pod	Per cob/Pods	1.42	305.50								
			Test Weight	(g)	90.18	227.90								
			Yield	(Q/ha)	10.64	37.63								
SEHORE	Application of PE Herbicide Diclosulam 84 %WDG @26 g ai/ha	Soybean	Weed Density	m^2	13.11	3.01	22640	21444	50999	60319	28359	38875	2.25	2.81
			No of Pods	per Plant	17.80	20.20								
			No of seeds	Per pod	1.60	1.63								
			Test Weight	(g)	90.59	91.78								
			Yield)	(Q/ha	10.62	12.57								
SEHORE	Improved soybean variety RVS 2001-18	Soybean	No.of Pods	Per plant	15.20	16.80	23363	24409	60664	73551	37300.	49141	2.60	3.01
			No. of graiins	Per Pods	1.91	2.09								
			Test Weight	(g)	92.56	92.92								
			Yield	(Q/ha)	11.03	13.37								
SEHORE	Pigeon pea cultivation in wasteland for nutritional security	Pigeon pea	Protien	%	In progress									
			Consumption per day	g										
			yield	(Q/ha)										
SEHORE	Wheat Variety , HI-8759 (Pusa Tejus)	Wheat	No. of Effective tillers	per hill	In Progress									
			No. of grain	per panical										
			Test Weight	(g)										
			Yield	(qtl/ha)										
Sehore	Demonstration IDM module for the management of Wilt, root rot & Collar rot disease in chickpea.	Chickpea	Disease incidence	%	In progress									
			Yield	q/ha										

KVK Name	Technology for demonstration	Name of Crop/ Enterprise	Name of Parameter	Name of Unit	Result		Average Cost of cultivation (Rs/ha)		Average Gross Return (Rs/ha)		Average Net Return (Rs/ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)	
					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	Wheat Variety HI-8759 (Pusa Tejus)	Wheat	No. of Effective tillers	per hill	5.52	6.05	26965	27365	101421	112524	74456	85160	3.76	4.11
			No. of grain	per panical	45.03	46.00								
			Test Weight	(g)	45.82	46.47								
			Yield	(qtl/ha)	50.33	55.84								
SEHORE	Application of Metsulfuron + Clodinofop ai @ 64 g/ha	Wheat	Weed Density	m^2	8.35	4.65	27540	27858	97104	112323	69564	84465	3.53	4.03
			No. of Effective tillers	per hill	5.10	5.70								
			No. of grain	per panical	44.40	44.60								
			Test Weight	(g)	46.00	46.00								
			Yield	Q/ha)	46.24	53.49								
SEHORE	Hybrid maize +BMP	T1:maize T:2 Soybean	No.of Cobs/Pods	Per plant	19.27	1.03	22410	21738	51089	65852	28679	44114	2.28	3.0
			No. of graiins/cob/pod	Per cob/Pods	1.42	305.50								
			Test Weight	(g)	90.18	227.90								
			Yield	(Q/ha)	10.64	37.63								
SEHORE	Application of PE Herbicide Diclosulam 84 %WDG @26 g ai/ha	Soybean	Weed Density	m^2	13.11	3.01	22640	21444	50999	60319	28359	38875	2.25	2.81
			No of Pods	per Plant	17.80	20.20								
			No of seeds	Per pod	1.60	1.63								
			Test Weight	(g)	90.59	91.78								
			Yield)	(Q/ha	10.62	12.57								
SEHORE	Improved soybean variety RVS 2001-18	Soybean	No.of Pods	Per plant	15.20	16.80	23363	24409	60664	73551	37300.	49141	2.60	3.01
			No. of graiins	Per Pods	1.91	2.09								
			Test Weight	(g)	92.56	92.92								
			Yield	(Q/ha)	11.03	13.37								
SEHORE	Pigeon pea cultivation in wasteland for nutritional security	Pigeon pea	Protien	%	In progress									
			Consumption per day	g										
			yield	(Q/ha)										
SEHORE	Wheat Variety , HI-8759 (Pusa Tejus)	Wheat	No. of Effective tillers	per hill	In Progress									
			No. of grain	per panical										
			Test Weight	(g)										
			Yield	(qtl/ha)										
SEHORE	Demonstration of Soil Health Card Based use of Fertilizer Application in Soybean Crops	Soybean	Yield,	q/ha	12.68	13.46	21060	21385	36393	67290	42333	45905	3.01	3.15
			Yield Enhancement	%										

KVK Name	Technology for demonstration	Name of Crop/ Enterprise	Name of Parameter	Name of Unit	Result		Average Cost of cultivation (Rs/ha)		Average Gross Return (Rs/ha)		Average Net Return (Rs/ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)	
					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	Wheat Variety HI-8759 (Pusa Tejus)	Wheat	No. of Effective tillers	per hill	5.52	6.05	26965	27365	101421	112524	74456	85160	3.76	4.11
			No. of grain	per panical	45.03	46.00								
			Test Weight	(g)	45.82	46.47								
			Yield	(qtl/ha)	50.33	55.84								
SEHORE	Application of Metsulfuron + Clodinofop ai @ 64 g/ha	Wheat	Weed Density	m^2	8.35	4.65	27540	27858	97104	112323	69564	84465	3.53	4.03
			No. of Effective tillers	per hill	5.10	5.70								
			No. of grain	per panical	44.40	44.60								
			Test Weight	(g)	46.00	46.00								
			Yield	Q/ha)	46.24	53.49								
SEHORE	Hybrid maize +BMP	T1:maize T:2 Soybean	No.of Cobs/Pods	Per plant	19.27	1.03	22410	21738	51089	65852	28679	44114	2.28	3.0
			No. of graiins/cob/pod	Per cob/Pods	1.42	305.50								
			Test Weight	(g)	90.18	227.90								
			Yield	(Q/ha)	10.64	37.63								
SEHORE	Application of PE Herbicide Diclosulam 84 %WDG @26 g ai/ha	Soybean	Weed Density	m^2	13.11	3.01	22640	21444	50999	60319	28359	38875	2.25	2.81
			No of Pods	per Plant	17.80	20.20								
			No of seeds	Per pod	1.60	1.63								
			Test Weight	(g)	90.59	91.78								
			Yield)	(Q/ha	10.62	12.57								
SEHORE	Improved soybean variety RVS 2001-18	Soybean	No.of Pods	Per plant	15.20	16.80	23363	24409	60664	73551	37300.	49141	2.60	3.01
			No. of graiins	Per Pods	1.91	2.09								
			Test Weight	(g)	92.56	92.92								
			Yield	(Q/ha)	11.03	13.37								
SEHORE	Pigeon pea cultivation in wasteland for nutritional security	Pigeon pea	Protien	%	In progress									
			Consumption per day	g										
			yield	(Q/ha)										
SEHORE	Wheat Variety , HI-8759 (Pusa Tejus)	Wheat	No. of Effective tillers	per hill	In Progress									
			No. of grain	per panical										
			Test Weight	(g)										
			Yield	(qtl/ha)										
SEHORE	Demonstration of Soil Health Card Based use of Fertilizer	Chickpea	Yield,	q/ha	14.09	16.17	22455	24065	71857	82460	49402	58394	3.20	3.43

KVK Name	Technology for demonstration	Name of Crop/ Enterprise	Name of Parameter	Name of Unit	Result		Average Cost of cultivation (Rs/ha)		Average Gross Return (Rs/ha)		Average Net Return (Rs/ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)	
					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	Wheat Variety HI-8759 (Pusa Tejus)	Wheat	No. of Effective tillers	per hill	5.52	6.05	26965	27365	101421	112524	74456	85160	3.76	4.11
			No. of grain	per panical	45.03	46.00								
			Test Weight	(g)	45.82	46.47								
			Yield	(qtl/ha)	50.33	55.84								
SEHORE	Application of Metsulfuron + Clodinofop ai @ 64 g/ha	Wheat	Weed Density	m^2	8.35	4.65	27540	27858	97104	112323	69564	84465	3.53	4.03
			No. of Effective tillers	per hill	5.10	5.70								
			No. of grain	per panical	44.40	44.60								
			Test Weight	(g)	46.00	46.00								
			Yield	Q/ha)	46.24	53.49								
SEHORE	Hybrid maize +BMP	T1:maize T:2 Soybean	No.of Cobs/Pods	Per plant	19.27	1.03	22410	21738	51089	65852	28679	44114	2.28	3.0
			No. of graiins/cob/pod	Per cob/Pods	1.42	305.50								
			Test Weight	(g)	90.18	227.90								
			Yield	(Q/ha)	10.64	37.63								
SEHORE	Application of PE Herbicide Diclosulam 84 %WDG @26 g ai/ha	Soybean	Weed Density	m^2	13.11	3.01	22640	21444	50999	60319	28359	38875	2.25	2.81
			No of Pods	per Plant	17.80	20.20								
			No of seeds	Per pod	1.60	1.63								
			Test Weight	(g)	90.59	91.78								
			Yield)	(Q/ha	10.62	12.57								
SEHORE	Improved soybean variety RVS 2001-18	Soybean	No.of Pods	Per plant	15.20	16.80	23363	24409	60664	73551	37300.	49141	2.60	3.01
			No. of graiins	Per Pods	1.91	2.09								
			Test Weight	(g)	92.56	92.92								
			Yield	(Q/ha)	11.03	13.37								
SEHORE	Pigeon pea cultivation in wasteland for nutritional security	Pigeon pea	Protien	%	In progress									
			Consumption per day	g										
			yield	(Q/ha)										
SEHORE	Wheat Variety , HI-8759 (Pusa Tejus) Application in Chickpea Crops.	Wheat	No. of Effective tillers	per hill	In Progress									
			No. of grain	per panical										
			Test Weight	(g)										
			Yield	(qtl/ha)										
			Yield Enhancement	%										

Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	09	March & September,December, 2022	196
2	Farmers Training	07	July, August, October, November, 2022	175
3	Media coverage	03	-	Mass
4	Training for extension functionaries	02	August & Nov, 2022	64

Details of FLD on Enterprises

Farm Implements

Details of FLDs on Agriculture Engineering implemented during Jan-2022 to Dec-2022- NA

KVK Name	Season	Thematic area	Technology for demonstration	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.	No. of farmers			
										SC	ST	Others	General
-	-	-	-	-	-	-	-	-	-	-	-	-	-

Economic Impact of Agriculture Engineering FLD- NA

KVK Name	Technology for demonstration	Name of Crop/ Enterprise	Name of Performance parameters / indicators	Name of Unit	* Data on parameter in relation to technology demonstrated		Average Cost of cultivation (Rs/ha)		Average Gross Return (Rs/ha)		Average Net Return (Rs/ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)	
					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)
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**Field efficiency, labour saving etc.*

Livestock Enterprises

Details of FLDs on Animal Science implemented during Jan-2022 to Dec-2022

KVK Name	Thematic area	Technology for demonstration	Name of Enterprise	Name of Breed	Completed/Ongoing	No. of unit (animals, poultry birds etc.)	No. of farmers			
							SC	ST	Others	Gen
-	-	-	-	-	-	-	-	-	-	-

Economic Impact of Animal Science FLD

KVK Name	Technology for demonstration	Name of Enterprise	Performance parameters / indicators		*Data on parameter in relation to technology demonstrated		Average Cost of cultivation (Rs/ha)		Average Gross Return (Rs/ha)		Average Net Return (Rs/ha)		B:C Ratio (Gross Return / Gross Cost)	
			Name of Parameter	Name of unit	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)
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**Milk production, meat production, egg production, reduction in disease incidence etc.*

Details of FLDs on Fishery implemented during Jan-2022 to Dec-2022

KVK Name	Thematic area	Technology for demonstration	Name of Enterprise	Completed/Ongoing	Area (ha) / Entrep - No.	No. of farmers			
						SC	ST	Others	General
-	-	-	-	-	-	-	-	-	-

Economic Impact of Fishery FLD

KVK Name	Technology for demonstration	Name of Enterprise	Performance parameters / indicators		Data on parameter in relation to technology demonstrated		Average Cost of cultivation (Rs/ha)		Average Gross Return (Rs/ha)		Average Net Return (Rs/ha)		B:C Ratio (Gross Return / Gross Cost)	
			Name of Parameter	Name of unit	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)
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Economic Performance Home Science FLD: (For Nutritional security)

Name of Enterprise /product: - Drumstick Crackers - Adolescent Girls = 10

Detail of Technology	Name of Product/enterprise	Per capita Consumption gm/ day	Nutrient Intake (Unit)				Anthropometric measurements			Increase Hemoglobin
			Energy (kcal)	Protein (gm)	Iron (mg)	Calcium (mg)	Increase in Weight (Kg)	Increase in Height (cm)	BMI (Weight (Kg)/ (Height(in m^2)*	
T_1(Farmers Practices)	Intake Low Iron Diet in Breakfast	100	75	3.0	0	120	40.5	156	17.6	9.3
T_2 (Recommended Practices)	Consume Drumstick Crackers in Breakfast	40	306	6.08	1.56	48.8	44.4	156	19.4	10.7

*Data is calculated on the basis of early morning diet of the beneficiaries.

Name of Enterprise /product: - Drumstick Crackers - Pregnant Women = 05

Detail of Technology	Name of Product/enterprise	Per capita Consumption gm/ day	Nutrient Intake (Unit)				Anthropometric measurements			Increase Hemoglobin
			Energy (kcal)	Protein (gm)	Iron (mg)	Calcium (mg)	Increase in Weight (Kg)	Increase in Height (cm)	BMI (Weight (Kg)/ (Height(in m^2)*	
T_1(Farmers Practices)	Intake Low Iron Diet in Breakfast	100	75	3.0	0	120	45.6	155.94	19.8	10.05
T_2 (Recommended Practices)	Consume Drumstick Crackers in Breakfast	40	306	6.08	1.56	48.8	50	155.94	20.8	12.07

*Data is calculated on the basis of early morning diet of the beneficiaries.

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

Thematic area	Technology demonstrated	Name of Crop/ Enterprise	Crop- Area (ha) / Entrep - No.	No. of farmers			
				SC	ST	Others	General
-	-	-	-	-	-	-	-

Economic Performance Home Science FLD: (Drudgery Reduction)- NA

Technology for demonstration	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)- NA

Technology for demonstration	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)- NA

Technology for demonstration	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
-	-	-	-	-	-	-	-	-	-	-		

Cluster Demonstration of Oilseed and Pulses under NFSM (2022-23)

Sl. No.	Crop	Thematic area	Technology for demonstration	Critical inputs	*Season and year*	Area (ha)	No. of farmers/ demonstration	Parameters identified
1	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-

Extension and Training activities under CFLDs Oilseed and Pulses

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	-	-	-
2	Farmers Training	-	-	-
3	Media coverage	-	-	-
4	Training for extension functionaries	-	-	-

Training (Including the sponsored and FLD training programmes):

A) ON Campus

Category (F/ FW / F &FW) (do not leave column blank)	Category	Sub Theme	Training Title	No. of Courses	Duration (Days)	Participants							
						Gen		SC		ST		Others	
						M	F	M	F	M	F	M	F
F	**Soil Health and Fertility Management**	Others (Natural Farming)	Natural Farming	01	01	06	-	03	-	-	-	24	-
F	**Capacity Building and Group Dynamics**	Group dynamics (Agri. Extn.)	Group formation and its importance	01	01	10	-	2	-	2	-	11	-

B) OFF Campus

Category (F/ FW / F &FW) (do not leave column blank)	Category	Sub Theme	Training Title	No. of Courses	Duration (Days)	Participants							
						Gen		SC		ST		Others	
						M	F	M	F	M	F	M	F
F	**Crop Production**	Weed Management	Weed management in soybean and maize	02	01	18	-	02	-	-	-	-	-
FW	**Crop Production**	Weed Management	Women friendly weed equipments	01	01	--	-	-	-	-	20	-	-
F	**Crop Production**	Crop Diversification	Crop Diversification throuhj Hy maize	01	01	15	-	02		03	-	-	-
F	**Crop Production**	Integrated Crop Management	Improved agronomic practices of summer green gram			-	-	-	-	8		14	-
F	**Crop Production**	Integrated Crop Management	Improved agronomic technologies of rabi	02	01	-	-	-	-	25	0	-	-

Category (F/ FW / F &FW) (do not leave column blank)	Category	Sub Theme	Training Title	No. of Courses	Duration (Days)	Participants							
						Gen		SC		ST		Others	
						M	F	M	F	M	F	M	F
			crops								2		
F	**Crop Production**	Production of organic inputs	Natural farming	01	01	25	-	10		05	-	-	-
FW	**Soil Health and Fertility Management**	Soil fertility management	Application of Bio fertilizer in field crop	01	01	-	-	-	03	-	15	-	-
F	**Soil Health and Fertility Management**	Integrated Nutrient Management	Integrated Nutrient Management in Kharif crop	01	01	03	-	01	-	-	-	15	-
F	**Soil Health and Fertility Management**	Integrated Nutrient Management	Integrated Nutrient Management in Rabi crop	01	01	05	-	05	-	15	-	-	-
F	**Soil Health and Fertility Management**	Nutrient Use Efficiency	Use and application 0f water soluble fertilizer in soybean crop	01	01	07	-	02	-	-	-	21	-
F	**Soil Health and Fertility Management**	Balance Use of fertilizer	Nutrient management in hybrid maize crop	01	01	02	-	06	-	-	-	16	-
F	**Soil Health and Fertility Management**	Balance Use of fertilizer	Nutrient management in rabi crop	01	01	04	-	06	-	-	-	22	-
F	**Soil Health and Fertility Management**	Balance Use of fertilizer	Nutrient management in rabi crop	01	01	-	-	11	-	18	-	06	-
F	**Soil Health and Fertility Management**	Others (Natural Farming)	Natural Farming	01	01	-	-	06	-	13	-	-	-
FW	**Soil Health and Fertility Management**	Others (Natural Farming)	Natural Farming	01	01	-	-	-	03	-	-	-	16
F	**Soil Health and Fertility Management**	Others (Natural Farming)	Natural Farming	01	01	08	-	02	-	-	-	11	-
F	**Soil Health and Fertility Management**	Others (Natural Farming)	Natural Farming	01	01	05	-	18	-	18	-	10	-
F	**Soil Health and Fertility Management**	Others (Natural Farming)	Natural Farming	01	01	06	-	02	-	-	-	20	-
F	**Production of Input at site**	Vermi0compost production	Vermicomposting	01	01	-	-	-	-	20	-	-	-
F	**Production of Input at site**	Organic manures production	Application for bio west decomposer for composting	01	01	-	-	-	-	20	-	-	-
F	**Livestock Production and Management**	Animal Nutrition Management	Importance of balanced diet in calves	01	01	-	-	-	-	-	-	16	-
F &FW	**Livestock Production and Management**	Feed & fodder technologies	Round the year Green Fodder production technology	01	01	-	-	-	-	-	-	12	11
F	**Livestock Production and Management**	Feed & fodder technologies	Importance of pulse and green fodder in milch animal	01	01	-	-	-	-	-	-	20	-

Category (F/ FW / F &FW) (do not leave column blank)	Category	Sub Theme	Training Title	No. of Courses	Duration (Days)	Participants							
						Gen		SC		ST		Others	
						M	F	M	F	M	F	M	F
F	**Livestock Production and Management**	Others (Poultry)	Importance of electrolytes powder to temperature tolerance in chicks	01	01	-	-	-	-	-	-	18	-
FW	**Home Science/Women empowerment**	Women and child care	Health Care of Adolescent Girls and Children	01	01	-	-	-	8	-	-	-	14
FW	**Home Science/Women empowerment**	Women and child care	Balanced Diet of Pregnant Women	01	01	-	-	-	-	-	25	-	-
FW	**Home Science/Women empowerment**	Processing & cooking	Development of High Nutrient efficiency Diet	01	01	-	11	-	02	-	-	-	05
FW	**Home Science/Women empowerment**	Household food security by kitchen gardening and nutrition gardening	Nutritional Security by Kitchen Gardening in Rabi Season	01	01	-	-	-	6	-	-	-	13
FW	**Home Science/Women empowerment**	Value Addition	Value Addition of Seasonal Fruits and Vegetables	01	01	-	-	-	-	-	26	-	-
FW	**Home Science/Women empowerment**	Processing & cooking	Making Drumstick Crackers	01	01	-	-	-	7	-	-	-	13
F	**Plant Protection**	Integrated Disease Management	Management of insect & Pest in Green gram	01	01	2	-	3	-	17	-	3	-
FW	**Plant Protection**	Integrated Pest Management	Store grain pest management	01	01	-	5	-	5	-	5	-	10
FW	**Plant Protection**	Integrated Pest Management	Nursery management of vegetable crop	01	01	-	10	-	2	-	2	-	11
F	**Plant Protection**	Integrated Pest Management	IPM in green gram	01	01	5	-	2	-	2	-	16	-
F	**Plant Protection**	Integrated Pest Management	IPM in kharif crop	01	4	10	-	5	-	3	-	24	-
F	**Plant Protection**	Integrated Pest Management	IPM in soybean crop	01	01	5	-	2	-	2	-	16	
F	**Capacity Building and Group Dynamics**	Others (Agri. Extn.)	Crop Insurance	02	01	12	-	09	-	4	-	24	-
FW	**Capacity Building and Group Dynamics**	Others (Agri. Extn.)	Role of SHG for income generation	01	01	-	5		5	-	4		11
F	**Capacity Building and Group Dynamics**	Others (Agri. Extn.)	Cashless transaction	01	01	-	-	5	-	-	-	20	-
FW	**Capacity Building and Group Dynamics**	Others (Agri. Extn.)	Awareness programme on health and sanitation	01	01	-	5		5	-	4		11
F	**Capacity Building and Group Dynamics**	Others (Agri. Extn.)	Pradhan Mantri Krishi Sinchayee Yojana	01	01	5	-	3	-	2	-	11	-

Details of Training Programmes conducted by the KVKs for Rural Youth

A. ON Campus

Thematic Area of training	Training Title	No. of Courses	Duration (Days)	Participants							
				Gen		SC		ST		Others	
				M	F	M	F	M	F	M	F
Production of organic inputs	Preparation of jivamrit & ghan jivamrit	01	01	04	-	06	-	07	-	09	-
Repair and maintenance of farm machinery and implements	Repair and maintenance of farm machinery and implements	01	01	14	-	02		03	-	-	-
Sheep and goat rearing	Goat farming	01	01	-	-	-	-	-	-	18	02

B. OFF Campus

Thematic Area of training	Training Title	No. of Courses	Duration (Days)	Participants							
				Gen		SC		ST		Others	
				M	F	M	F	M	F	M	F
Value addition	Preservation of Seasonal Vegetables	01	01	-	5	-	01	-		-	19
Others(Agri. Extn.)	Role of electronic media in Agriculture	01	01	02	-	2	-	-	-	17	-
Others(Agri. Extn.)	Custom hiring centre	01	01	2	-	5	-	-	-	14	-

Details of Training Programmes conducted by the KVKs for Extension Personnel

A. ON Campus

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
Management in farm animals	-	-	-	-	-	-	-	-	-	-	-
Livestock feed and fodder production	-	-	-	-	-	-	-	-	-	-	-
Household food security	-	-	-	-	-	-	-	-	-	-	-
Others(Pl. Specify)	-	-	-	-	-	-	-	-	-	-	-

B. OFF Campus

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
Integrated Pest Management	IPM in kharif crop	04	01	-	-	-	-	-	-	26	-
	IPM in rabi crop	04	01	-	-	-	-	-	-	32	-
Integrated Nutrient management	Integrated Nutrient management in wheat and chickpea crop	02	01	-	-	-	-	-	-	30	-
Others(water soluble fertilizer)	Use and importance of water soluble fertilizer in kharif crop	01	01	-	-	-	-	-	-	26	-
Others(post harvesting)	Post harvest technology in kharif crop	01	01	-	-	-	-	-	-	30	-

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

Thematic Area	Sub Theme	Training title	No of Courses	Duration of training (days)	Number of Beneficiaries							
					Gen		SC		ST		Others	
					M	F	M	F	M	F	M	F
Income generation activities	Tailoring, stitching, embroidery, dying etc.	-	-	-	-	-	-	-	-	-	-	-
Income generation activities	Agril. para0workers, para0vet training	-	-	-	-	-	-	-	-	-	-	-
Income generation activities	**Others(Pl. Specify)**	-	-	-	-	-	-	-	-	-	-	-
Agricultural Extension	Capacity building and group dynamics	-	-	-	-	-	-	-	-	-	-	-
Agricultural Extension	**Others(Pl. Specify)**	-	-	-	-	-	-	-	-	-	-	-

Table 5.5. Sponsored Training Programmes

Client (F &FW/F W/ RY/ IS)	Thematic area	Sub-theme	Training Title	No. of courses	Duration (days)	No. of Participants								Sponsoring Agency	Fund received for training (Rs.)
						Gen		Others		SC		ST			
						M	F	M	F	M	F	M	F		
	Agricultural Extension	**Others(Pl. Specify)**	-	-	-	-	-	-	-	-	-	-	-	-	-

Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	32	620	117	737	22	02	24	642	119	761
Kisan Mela	01	221	67	288	10	-	10	231	67	298
Kisan Ghosthi	04	186	70	256	14	06	20	200	76	276
Exhibition	02	221	67	288	10	-	10	231	67	298
Film Show	09	190	92	282	22	11	33	212	103	315
Method Demonstrations	09	188	33	221	05	03	08	193	36	229
Farmers Seminar	02	103	17	120	04	-	04	107	17	124
Workshop	-	-	-	-	-	-	-	-	-	-
Group meetings	11	138	24	162	-	-	-	138	24	162
Lectures delivered as resource persons	58	708	167	875	57	21	78	765	188	953
Newspaper coverage	82	Mass								
Radio talks	01	-	-	-	-	-	-	-	-	-
TV talks	14	Mass								
Popular articles	-	-	-	-	-	-	-	-	-	-
Extension Literature	01	-	-	-	-	-	-	-	-	-
Advisory Services	48	232	59	291	41	16	57	273	75	348
Scientific visit to farmers field	102	603	232	835	44	11	55	647	243	890

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Farmers visit to KVK	-	2396	435	2831	172	41	213	2568	476	3044
Diagnostic visits	10	32	-	32	13	-	13	45	-	45
Exposure visits	-	-	-	-	-	-	-	-	-	-
Ex-trainees Sammelan	02	60	-	60	02	-	02	62	-	62
Soil health Camp	-	-	-	-	-	-	-	-	-	-
Animal Health Camp	01	52	-	52	08	-	08	60	-	60
Agri mobile clinic	-	-	-	-	-	-	-	-	-	-
Soil test campaigns	-	-	-	-	-	-	-	-	-	-
Farm Science Club Conveners meet	-	-	-	-	-	-	-	-	-	-
Self Help Group Conveners meetings	-	-	-	-	-	-	-	-	-	-
Mahila Mandals Conveners meetings	-	-	-	-	-	-	-	-	-	-
Celebration of important days *(World Water Day, World Women Day, World Environment Day, Kisan Diwas, World Food Day, Kisan Mahila Divas, and World Soil Health Day, World Breast Feeding Day, National Nutrition Month)*	09	200	219	419	10	02	12	210	221	431
Others (Celebration International day)	06	-	320	320	-	20	20	-	340	340
Others (Awareness programme- Clean India Campagign, PMFBY and PMKSY)	48	312	122	434	-	-	-	312	122	434
Others (Awarness program of balance use of fertilizer)	01	30	-	30	-	-		30	-	30
Others (World Soil Health day)	01	45	-	45	05	-	05	50	-	50
Total	**454**	**6537**	**2041**	**8578**	**439**	**133**	**572**	**6976**	**2174**	**9150**

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 Talk	01	Akashvani	Bhopal	Regional
TV talks	14	Doordarshan Bhopal & Reliance Foundation	Bhopal and KVK, Farm	Regional
Newspaper coverage	100	Dainik bhaskar, Patrika, Navduniya, Haribui and local	KVK, Farm	Local/ Regional
Social media (Whats App, Facebook, Instagram, Twitter etc.)	132	-	-	Local/ Regional

Production and supply of Technological products

I) SEED production

Crop Category	Name of Crop	Name of Variety (pl. give the name instead of local)	Quantity (qt.)	Value (Rs.)	Provided to no. of Farmers/society	Expected area coverage (ha.)
Oilseed	Soybean	RVS-2000-18	09	-	30	-
Cereals	Wheat	HI 1634	30	108000	56	-
		HI-8802	21	75600	31	-
		HI-8805	20	72000	27	-
		DDW-47	41	82000	Mandi Sell	-
		DBW 187	59	118000	Mandi Sell	-
Pulses	Pigeonpea	TJT 501	7	38500	Mandi Sell	-
Vegetables	Onion	NHRDF Red 3	1.5	150000	78	
	Fenugreek	RMT 305	0.6	6000	08	
	Corriander	G-2	1.91	19000	36	
	Pea	Kashi Nandini	0.50	5000	32	

II) Planting Materials production

Major group/class	Name of Crop	Name of Variety (pl. give the name instead of local)	Nos.	Value (Rs.)	Provided to No. of Farmers	Expected area coverage (ha.)
Fruit	Drumstick	PMK-1	200	2000	100	-
	Papaya	Red Lady	500	5000	62	-
Vegetable	Chilli	Hybrid	1000	-	100	-
	Brinjal	Hybrid	1000	-	100	-
	Tomato	Hybrid	1000	-	100	-
	Onion	Bheema Supper	5000	-	100	-

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

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
Bio Fertilizers	Vermicompost	5000	-	25000	86	
	Azolla	25	-	2500	20	-
	Earthworms	50	-	7500	15	-
	NADEP	2000	02	4000	-	-
Bio Agents(Worms)	*Eisenia fetida*	-	26	3900	-	-

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
	Eudrilus eugeniae	-	-	-	-	-
	Earth worm	-	-	-	-	-
	Any other **(pl. specify)**	-	-	-	-	-

S.No	List of Major Group Bio agent/Bio fertilizers/Bio Pesticides	Name of the Product	Species	Qty (in Kg)	Qty (in No.)	Value (Rs.)	Provided to no. of Farmers	Expected area coverage (ha.), if applied
1	**Bio Fertilizers**	Vermicompost	-	30000	-	90000	-	10
		Azolla						
		Earthworms	Eisenia fetida					
		Compost	Bio we Aste decomposer	10000	-	-	-	04
		NADEP	-	16000	-	32000	-	04
		Other (pl. sp.)						
6	**Bio Agents(Worms)**	*Eisenia fetida*	-	26	-	3900	-	-
		Eudrilus eugeniae						
		Earth worm						
		Any other **(pl. specify)**						

LIVESTOCK

Type	Name of the animal / bird / aquatics	Breed	Type of Produce	Quantity		Value (Rs.)	No. of Beneficiaries
				unit (kg/qt./liter/no)	Qty.		
Dairy animals	Cow	**Gir**	**Heifers**	**No.**	**05**	**193000**	**05**
Poultry	Poultry	**Gramapriya**	**Hen & Cock**	***No.***	**106**	**30000**	**Sale to local consumers**

KVK News Letter

Period	Quarter	Number of copies printed	Number of copies distributed	Type of beneficiaries receiving the newsletter (Farmer, District/block/Panchayat Official, D.M. etc.
January to March 2022	Q1	-	-	Share in face book and whatsapp group for farmer
April to June 2022	Q2	-	-	Share in face book and whatsapp group for farmer
July to September 2022	Q3	-	-	Share in facebook and whatsapp group for farmer
October to December 2022	Q4	-	-	Share in facebook and whatsapp group for farmer

Literature developed/published

Type	Number (please don't give mass please fill number only)	Number of copies printed (please don't give mass please fill number only)
Abstract	-	-
Book	-	-
Book Chapter	-	-
Booklet	-	-
CD/DVD	-	-
Leaflets/ Folder/ Pamphlet	02	2000
Popular article	-	-
Research Paper	01	-
Technical Bulletin	01	-
Training Manual	02	-
Technical Report	01	-
Year Planner	01	-
Others (pl. specify)	-	-

Activities of Soil and Water Testing Laboratory

Year of establishmenr: 2012

Details of Soil samples analyzed:

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				
Sanctioned	Procured	Collected by KVKs	Provided by Dept./ DDA	Mini Soil Testing kit	Soil testing laboratory		Mini Soil Testing kit	Soil testing laboratory				Through Mini Soil Testing kit	Through Soil testing laboratory
-	-	150	-		146	2040	-	148	2040	87	-	-	148

Details of water samples analyzed:

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

Details of Plant samples analyzed :

No. of Plant Samples analyzed	No. of Farmers	No. of Villages	Amount realized
-	-	-	-

Footfall of farmers in KVKs (Jan. 2022 to Dec. 2022)

Name of KVK	Footfall during 2022			
	No. of Farmers	No. of officials	No. of VIPs	Total
-	-	-	-	-

Status of Kisan Mobile Advisory (KVK-KMA)

KVK	S. No.	Thematic area	Particulars	No of Calls	No of advisory sent	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	442	-	02	17204	1049	1049
			Integrated Farming	-	-	-	--	-	-
			Field Preparation	150	-	01	34310	1049	1049
			Any Other (Specify)	-	-	-	--	-	-
	2	Weather	Advisory	-	-	-	--	-	-
			Change in variety	450		01	34250	1049	1049
			Change in Sowing technique	-	-	-	--	-	-
			Climate forecast	-	-	-	--	-	-
			Any Other (Specify)	-	-	-	--	-	-
	3	Soil Management	Soil Testing	-	-	-	--	-	-
			INM	67	01	01	33165	1049	1049
			Fertilizer Application	128	01	01	33165	1049	1049
			Vermi composting/ bio-waste recycling	-	-	-	-	-	
			Bio-fertilizer	-	-	-	-	-	
			Any Other (Specify)	-	-	-	-	-	
	4	Disease & Pest Management	Disease Management	615	2	02	34259	1049	1049
			Pest Management	711	2	02	34259	1049	1049
			Preventive Advisory Disease Management	714	2	02	34259	1049	1049
			Preventive Advisory Pest Management	327	1	01	34259	1049	1049
	5	Nutrition Security & Women Empowerment	Nutrition Awareness	115	1	1	34209	1070	1070
			Kitchen garden	70	1	1	34199	1070	1070
			Value Addition and Processing	-	-	-	-	-	-
			Drudgery Reduction	-	-	-	-	-	-
			Entrepreneurship & Income Generation	7	-	-	-	-	-
	6	Horticulture	Vegetable	112	01	01	34259	1049	1049
			Fruit	214	01	01	34259	1049	1049
			Hi Tech Horticulture	-	-	-	-	-	-
			Any Other (Specify)	-	-	-	-	-	-
	7	Livestock	Feed and Fodder	284	-	01	34154	1049	1049
			Dairy Management	118	01	01	34251	1049	1049
			Vaccination & Disease management	412	02	02	34214	1049	1049

Status of KVK Website during Jan to Dec. 2022

Date of start of website	Address of Website	No. of updates during 2021	No. of visitors during 2021	Flag Collected	Year Planner
2015-16	*Kvksehore.nic.in*	06	8750	-	-

Mobile Apps developed by KVK during 2022

S.No	Name of KVK (Developer)	Name of Host organization	Title of Mobile App	Content (in one line)	Languages (in which app developed)	Number of downloads	Total expenditure incurred in developing app (Rs.)
-	-	-	-	-	-	-	-

ICT based module

Information on Whats app in social media by KVK

KVK	Discipline wise group with name of discipline	No of Farmer members	Activity details on whats app group
Sehore	E-Farmers, KVK, Sehore	356	Share weekly advisory and solve farmers queries
Sehore	Nutri-Smart Villages	189	Share weekly advisory and solve farmers queries

Information on social media by KVK

KVK	Facebook			Twitter		Instragram	
	Scientists linked	Farmers connected	No of Post	No of tweets	People following	No of share	People following
Sehore	**17**	**189**	**11**	**14**	**117**	**-**	**-**

DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

Types of Activities	No. of Activities	Number of Participants	Related crop/livestock /technology
Field day	02	42	- Demo. of Bio Waste D-Composure - Demo. of Pigeon pea cultivation on waste land (Bunds)
Swachhta Activities related to microbial based activities	02	56	Vermi composting & NADEP, D- Composure technology
Farmers Training	03	67	Important of Soil Health Card & PMKSY Training
Farm Women Training	01	27	Weed Management in Rabi Crops
Awareness Programme	02	47	- Scope of Agriculture Entrepreneurship for Agriculture Student
Others (Farmers Day)	01	107	- Celebrate National farmers Day Programme
Others (Sangosthi)	01	54	- Plant Protection Measures in Rabi Crops

Participation in HRD Programmes organized by ATARI

Name of KVK	Name of Staff	Post held	Programme attended (Nos)	Remarks
SEHORE	Sandeep Todwal	Head (I/C) & Scientist Soil Science	05	-
	Total		**05**	

Name of KVK	Total Number of staff Attended HRD Programme organized by ATARI (nos)	Total Number of Programme attended (Nos)
SEHORE	01	05

Participation in HRD Programmes organized by DES

Name of KVK	Name of Staff	Post held	Programme attended (Nos)	Remarks
SEHORE	Sandeep Todwal	Head (I/C) & Scientist Soil Science	04	-

Name of KVK	Total Number of staff Attended HRD Programmes organized by DES (nos)	Total Number of Programmes attended (Nos)
SEHORE	**01**	**04**

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	-	-	-	-	-

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

Information for TSP Jan-Dec-2022

Sl. No.	Farmer Training		Women Farmer Training		Rural Youths		Extension Personnel		Number of farmers involved			Participants in extension activities (No.)	Production of seed (q)	Production of Planting material (Number in lakh)	Production of Livestock strains (Number in lakh)	Production of fingerlings (Number in lakh)	Testing of Soil, water, plant, manures samples (Number)
	No. of Trainings/Demos	No. of Farmers	No. of Trainings/ Demos	No. of Women Farmers	No. of Trainings/ Demos	No. of Youths	No. of Trainings/ Demos	No. of Ext. Person	On-farm trials	Front line demos	Mobile agro-advisory to farmers						
-	-	-	-	-	--	-	-	-	-	-	-	-	-	-	-	-	-

39. Information for SCSP Jan-Dec-2022

Sl. No.	Farmer Training		Women Farmer Training		Rural Youths		Extension Personnel		Number of farmers involved			Participants in extension activities (No.)	Production of seed (q)	Production of Planting material (Number in lakh)	Production of Livestock strains (Number in lakh)	Production of fingerlings (Number in lakh)	Testing of Soil, water, plant, manures samples (Number)
	No. of Trainings/Demos	No. of Farmers	No. of Trainings /Demos	No. of Women Farmers	No. of Trainings/ Demos	No. of Youths	No. of Trainings/Demos	No. of Ext. Person	On-farm trials	Front line demos	Mobile agro-advisory to farmers						
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

40. Information for KSHAMTA Jan-Dec-2021

Sl. No.	State	Name of KVK	Number of Adopted Villages	No. of Activities		No. of farmers benefited	
				Demo	Training	Demo	Training
-	-	-	-	-	-	-	-

Activities in Nutri-Smart Village during Jan-Dec-2022

Information about Nutri-Smart Village-

Name of KVK	Block	Name of Nutri Smart Village
SEHORE	Ichhawar	Narsinghkheda

1. **Technologies Assessed (OFT) in Nutri Smart Village**

Name of KVK	Thematic area	Name of Intervention	No. of Activity	Area	No. of beneficiaries
Sehore	Nutritional Garden (activity in no. of Unit) **(m^2)**	-	-	-	-
	Bio-fortified Crops (activity in no. of Unit) **(ha)**	Wheat variety HI 1634	01	1.0	05

2. **Technologies Demonstrated (FLD) in Nutri Smart Village**

Name of KVK	Thematic area	Name of Intervention	No. of Activity	Area	No. of beneficiaries
SEHORE	Nutritional Garden (activity in no. of Unit) **(m^2)**	Kitchen Garden For Nutritional Security	01	-	10
SEHORE	Nutritional Security	Demonstration of Drumstick Crackers for Improving Hemoglobin level in Blood	01		15
SEHORE	Bio-fortified Crops (activity in no. of Unit) **(ha)**	-	-	-	-
SEHORE	Value addition (activity in no. of Unit/Enterprise)	Pigeon pea cultivation	01	0.2	10
SEHORE	Other Enterprises (activity in no. of Unit/Enterprise)	BIO waste decomposer for composting	01	-	05
SEHORE	Income generation (activity in no. of Unit/Enterprise)	-	-	-	-
SEHORE	Drudgery reduction (activity in no. of Unit/Enterprise)	-	-	-	-

3. **Training Programme conducted in Nutri Smart Village**

Name of KVK	Training Title	No. of Courses	Duration (Days)	Gen		SC		ST		Other		Total
				M	F	M	F	M	F	M	F	
SEHORE	Preservation of Seasonal fruits	**01**	**01**	-	-	-	**6**	-	-	-	**19**	**25**
SEHORE	Health Care of Adolescent Girls and children	**01**	**01**	-	-	-	**8**	-	-	-	**14**	**22**
SEHORE	Making Drumstick Crackers	**01**	**01**	-	-	-	**7**	-	-	-	**13**	**20**
SEHORE	Nutrient management in hybrid maize crop	01	01	03	-	06	-	-	-	15	-	23
SEHORE	Natural farming	01	01	05	-	02	-	-	-	21		28

4**. Extension Activities in Nutri Smart Village**

Name of KVK	Activity	No. of activities	SC		ST		Other		Officials		Total
			M	F	M	F	M	F	M	F	
SEHORE	Field Day	04	06	9	-	-	42	36	02	1	96
SEHORE	Group Meeting	02	-	11	-	-	-	19	-	1	31
SEHORE	World Breast feeding Week	01	-	16	-	-	-	26	1	1	44
SEHORE	National Nutrition Month	01	-	9	-	-	-	16	-	2	27

LINKAGES

Functional linkage with different organizations

Name of organization	Nature of linkage
CEROC	**Demonstration, Training, Field visit, camp, exposer visit and other extension activity**
Piramal Foundation	
Relience foundation	
ICT	
SIPA	
IFFCO	
NFL	
Samarthan	

Details of linkage with ATMA / NFSM

a) **Is ATMA implemented in your district** Yes/No

Name of Programme	Nature of linkage

Give details of programmes implemented under National Horticultural Mission

Name of Programme	Nature of linkage
-	-

Flagship programmes implemented at KVK

(NICRA, ARYA, Natural farming, CBBO, Seed Hub, Agri Drone etc)

Name of Flagship programmes

Month	Activity details	Beneficiaries/Area/Coverage
February, 2022	Importance of balance diet in milk producing animals	40
February, 2022	Parasite management in animals	46
March, 2022	Azolla production technique	40
March, 2022	Goat farming	40

Crop Cafeteria

Total Area of Crop cafeteria: 4000 Sq m

Crop	Season	Variety	Particulars /details	Area (Sq m)
Paddy	Kharif	Kranti, Sehbhagi, P.B.-1, P.B.- 1121, P.B.- 1509		4000
Maize		Hybrid- AHC- 2595, INDAM- 1122, PAC- 751, INDAM-1205, INDAM-1501, HIRA-1122		
Pigeaon pea		UPAS- 120, PUSA-16, JKM-183, ASHA, TJT-501		
Green gram		SHIKHA, VIRAT, IPM- 2-3		
Black gram		PU-1,UTTARA, IPU-2-43		
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		
Seasamum		TKG- 22, TKG-21, TKG-55, TKG-306, TKG- 308, GTS-8		
Wheat	Rabi	HI-1634, HI-1633, 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,		4000
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		
Lentil		JL-3 and IPL-316		
Pea		Kashi Nandni		
Mustard		RVM-02		
Castor		NARI- 6		
Linseed		JLS-9		
Garlic		G-282, G-384		
Fenugreek		RMT- 305		

Details of Demonstration Unit at KVK

Demonstration Unit	**Particulars /details**	**Area (**Sq m)	**Output /Production**
Dairy	-	-	Promote Indian Breed (Gir) at present time two breed available
Poultry	-	-	Proposed Plan
Goatry	-	-	Proposed Plan
NADEP	-	-	Composed Agri waste 16 Ton
Vermi Composting	-	-	Production of vermicompost through Portable vermibed, Pakka Pit and ground floor – 30 Ton
Natural Farming	-	1.5	Prepare Jeewamrat, Ghanjeewamrat, Neemashtra, Brahmastra etc
Organic Farming	-	-	Production of NADEP compost, Vermi compost, vermiwash
Kithcen Garden	-	-	Produce round the year nutritional vegetables and fruit
Seed Production	-	-	Produce improved crop variety seeds
Crop Cafeteria	-	-	Demonstration of different types of technology
Soil & Water Conservation	-	-	Testing of soil sampling with 12 Parameter
Azolla Production	-	-	Production of protein rich animal feed (Azolla)
Round the year Green Fodder	-	-	Napier Grass, Gini Grass, CO-4 etc variety grown for round the year green fodder

Success stories/Case studies identified for development as a case: …….(no.)

Success stories/Case studies – (best two only in the following format in separate file attached)

Name of the KVK	
TITLE	
Introduction	
KVK intervention	
Output	
Outcome	
Impact	
Photographs (2-3 Photographs with caption in .jpeg format)	

Indicate the specific training need analysis tools/methodology followed for(Viz PRA, AES, line dept, ex trainees, interface,)

S. No.	**Training**	**Need analysis tools/methodology followed**
1	Identification of courses for farmers/farm women	
2	Rural Youth	
3	In-service personnel	
4	methodology for identifying OFTs/FLDs	
5	Matrix ranking	

Field activities

Name of villages identified for adoption with block name:

S.No.	Name of Village	Name of Block	Distance of village from KVK (Km)
1	Kothara Pipalya	Nasrullaganj	68 Km.
2	Bijlon	Sehore	50 Km
3	NarsinghKheda	Ichhawar	25 Km.
4	Gawakheda	Ashta	29 Km.
5	Bawadiya Chor	Ichhawar	28 Km.

1. No. of farm families selected per village :
2. No. of survey/PRA to be conducted:

Success stories/Case studies identified for development as a case: 01.(no.)

Success stories/Case studies – (best two only in the following format in separate file attached)

Name of the KVK	Sehore	
TITLE	Best management practices of chickpea	
Introduction	Sri Chunnilal S/o Sri Hariram holding 4.0 ha areas of land with all the facilities of crop cultivation. They fallow Soybean – Wheat in irrigated situation and Soybean- Chickpea cropping System in semi-irrigated situation.	
KVK intervention	1. Improved Variety (RVG-202) @ 75 kg/ha 2. Seed Treatment with Carbendazim 25%+Menchozeb 50% @ 3g/kg Seed 3. Seed inoculation with NPK consortia@ 5 ml/kg seed 4. IPM throgh Pheromone trape@10/ha, Bird Purcher, Need based one spray of emmabectin benjoate Recommended dose of plant nutrient NPK 20:60:20 kg/ha as per soil test value in Chickpea crop	
Output		
Important Parameters	**Findings/results**	
	Varity/ Practice/Intervention	**Local/control**
Pods/ plant (No.)	30.20	26.56
No of seed/pod	1.03	1.00
Test weight (g)	200.16	192.60
Yield (q/ha)	17.38	14.55
Outcome	1.Highest benefit cost ratio in Recommended practices as Compare to Farmer 2. 19.43% yield increase in Demonstration due to Best management practices 3. Optimum seed rate 75 kg/ha,Spacing(45X10 cm), ,Improved Variety (RVG- 202), IPM throgh Pheromone trape@10/ha, Bird Purcher, Need based one spray of emmabectin benjoate.	
Impact	Technology is easily Demonstration and acceptable.	
Photographs (2-3 Photographs with caption in .jpeg format)		

Input Distribution

Field Visit

Field Visit

Observation of Crop

Observation

Field Day

Indicate the specific training need analysis tools/methodology followed for(Viz PRA, AES, line dept, ex trainees, interface,)

S. No.	Training	Need analysis tools/methodology followed
1	Identification of courses for farmers/farm women	PRA, SAC meeting, field visit and Line department
2	Rural Youth	
3	In-service personnel	
4	methodology for identifying OFTs/FLDs	
5	Matrix ranking	

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