

# CRDE-KRISHI VIGYAN KENDRA, DISTT. - SEHORE

## Annual Progress Report

PERIOD – JANUARY TO DECEMBER- 2021

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.)

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(Sandeep Todwal)

Head,

Krishi Vigyan Kendra, Sewania,

Distt- Sehore (M.P.)

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## Instructions for Filling the Format

1. Do not change/modify/ delete any column of any of the table. However, additional rows can be created, if required.
2. Do not merge columns, rows.
3. Please repeat the name of KVK in each table in the column “Name of KVK”
4. Do not fill the non-numerical values in numeric field
5. Do not repeat the unit while reporting data as it is already mentioned in the heading row
6. Strictly fill the data in desired unit only. If it is reported in other unit, convert it in the desired unit
7. Please mention only standard English names of crops (Do not mention Urd, Arhar, Til, Kulthi, Moong, Bajra, etc.)
8. Additional relevant information may be provided at the end of Format by creating heading “Additional Information”
9. Also read the instructions mentioned just below the table
10. Your suggestions for improvement in the format for your simplicity as well as data compilation may be given at the end of the format
11. Do not press any Enter Key in any of the columns while making entry in the columns of the table. Use only arrow key /Tab key/ mouse pointer while movement from one column/row to another.
12. Grey color cells in summary table need not to be filled.
13. Crop name should be spelled correct and standard English name should be used i.e Cereals, Pulses, Oilseed:- Rice (not use Paddy), Wheat, Barley, Kodo, Kutki, Maize, Jwar, Bajra, Pigeon pea (not use Tur, Arhar, Red gram), Blackgram (not use Urd), Greengram (not use Moong/Moongbean), Chickpea (not use Gram, Chana), Field pea, Horse gram (Kulthi), Lentil, Mustard (not use Rai, Sarsoan), Soybean, Linseed, Groundnut, Sesame (not use Til), Niger (not use Ram Til), Safflower (not use Kusum).  
Vegetable:- Vegetable pea, Bottle guard, Bitter guard, Okra (not use Bhindi or Lady finger).  
Fruits:- Mango, Guava, Custard apple, Pear etc.  
Spices:- Black Peeper, Turmeric, Ginger, Cardamom etc.

**REPORTING PERIOD – January 2021 to December 2021**  
**Summary of KVK Annual Report (Quantifiable Achievement) for the year 2021**

**i. OFT and FLD**

S.No.	KVK Name	Activity	Achievement	
			Number of technologies assessed/ activity	No. of farmers/ beneficiaries
<b>1</b>	<b>SEHORE</b>	<b>OFT</b>		
<b>a.</b>	<b>SEHORE</b>	<b>OFT- Crops (like Agronomy/Horticulture/ Soil Science/Plant Protection/Plant Breeding/ Agroforestry etc)</b>		
➤	SEHORE	Proposed OFT	16	90
➤	SEHORE	On Going OFT	08	45
➤	SEHORE	Technologies assessed (Completed OFT)	15	140
➤	SEHORE	Technologies refined	-	-
<b>b.</b>	<b>SEHORE</b>	<b>OFT- Agriculture Engineering</b>		
➤	SEHORE	Proposed OFT	-	-
➤	SEHORE	On Going OFT	-	-
➤	SEHORE	Technologies assessed (Completed OFT)	-	-
➤	SEHORE	Technologies refined	-	-
<b>c.</b>	<b>SEHORE</b>	<b>OFT- Animal Science</b>		
➤	SEHORE	Proposed OFT	04	45
➤	SEHORE	On Going OFT	02	30
➤	SEHORE	Technologies assessed (Completed OFT)	02	15
➤	SEHORE	Technologies refined	-	-
<b>d.</b>	<b>SEHORE</b>	<b>OFT- Fisheries</b>		
➤	SEHORE	Proposed OFT	-	-
➤	SEHORE	On Going OFT	-	-
➤	SEHORE	Technologies assessed (Completed OFT)	-	-
➤	SEHORE	Technologies refined	-	-
<b>e.</b>	<b>SEHORE</b>	<b>OFT- Extension</b>		
➤	SEHORE	Proposed OFT	01	60
➤	SEHORE	On Going OFT	-	-
➤	SEHORE	Technologies assessed (Completed OFT)	01	60
➤	SEHORE	Technologies refined	-	-
<b>f.</b>	<b>SEHORE</b>	<b>OFT- Home Science</b>		
➤	SEHORE	Proposed OFT	02	13
➤	SEHORE	On Going OFT	-	-
➤	SEHORE	Technologies assessed (Completed OFT)	02	13
➤	SEHORE	Technologies refined	-	-

		Activity	Area (ha) / no. of Unit/Enterprise	No. of farmers/ beneficiaries
<b>2</b>		<b>FLD</b>		
<b>a.</b>	<b>SEHORE</b>	CFLD-Oilseed (in ha)	<b>10</b>	<b>25</b>
<b>b.</b>	<b>SEHORE</b>	CFLD-Pulses (in ha)	<b>30</b>	<b>75</b>
<b>c.</b>	<b>SEHORE</b>	<b>FLD- Crop All(other than CFLD) (in ha)</b>		
➤	<b>SEHORE</b>	Proposed Frontline demonstrations	<b>31.5 ha</b>	<b>295</b>
➤	<b>SEHORE</b>	On Going Frontline demonstrations	<b>14.25 ha</b>	<b>120</b>
➤	<b>SEHORE</b>	Completed Frontline demonstrations	<b>32.25 ha</b>	<b>175</b>
<b>d.</b>	<b>SEHORE</b>	<b>FLD- Agriculture Engineering (in ha)</b>		
➤	<b>SEHORE</b>	Proposed Frontline demonstrations	-	-
➤	<b>SEHORE</b>	On Going Frontline demonstrations	-	-
➤	<b>SEHORE</b>	Completed Frontline demonstrations	-	-
<b>e.</b>	<b>SEHORE</b>	<b>FLD - Animal Science (in ha for fodder/ no. of Unit/Enterprise)</b>		
➤	<b>SEHORE</b>	Proposed Frontline demonstrations	<b>05</b>	<b>30</b>
➤	<b>SEHORE</b>	On Going Frontline demonstrations	<b>02</b>	<b>15</b>
➤	<b>SEHORE</b>	Completed Frontline demonstrations	<b>03</b>	<b>15</b>
<b>f.</b>	<b>SEHORE</b>	<b>FLD - Fisheries (in ha/ no. of Unit/ Enterprise)</b>		
➤	<b>SEHORE</b>	Proposed Frontline demonstrations	-	-
➤	<b>SEHORE</b>	On Going Frontline demonstrations	-	-
➤	<b>SEHORE</b>	Completed Frontline demonstrations	-	-
<b>g.</b>	<b>SEHORE</b>	<b>FLD - Home Science (in ha/ no. of Unit/Enterprise)</b>		
➤	<b>SEHORE</b>	Proposed Frontline demonstrations	<b>02</b>	<b>30</b>
➤	<b>SEHORE</b>	On Going Frontline demonstrations	-	-
➤	<b>SEHORE</b>	Completed Frontline demonstrations	<b>02</b>	<b>30</b>

## ii. Other Activities

S.N.	Quantifiable Achievement	Number	Beneficiaries (nos.)	
<b>1</b>	<b>Training programmes</b>	<b>No. of Course</b>	<b>Duration (days)</b>	<b>Participants</b>
<b>a.</b>	Farmers and Farm women	50	01-02	1258
<b>b.</b>	Rural youth	13	01-02	340
<b>c.</b>	Extension personnel/ In service	08	01-02	135
<b>d.</b>	Vocational trainings	04	05 days	41
<b>e.</b>	Sponsored Training	04	01-03/ 25 days	180
	<b>Total</b>	79	-	1954

<b>2</b>	<b>Extension Activities</b>	<b>No. of programmes</b>	<b>Participants</b>
<b>a.</b>	Extension Activities	319	5429
<b>3</b>	<b>Production of technology inputs etc</b>	<b>Quantity (quintal/number)</b>	<b>No. of farmers/ beneficiaries</b>
<b>3.1</b>	Seed Production (quintal)	<b>203</b>	<b>548</b>
<b>3.2</b>	<b>Planting Material</b>		
<b>a.</b>	Planting material produced (nos.)	<b>1521</b>	<b>2257</b>
<b>b.</b>	Seedling Production (No.)	35000	1800
<b>c.</b>	Sapling Production (No.)	-	-
<b>3.3</b>	<b>Livestock &amp; Fingerlings</b>	<b>Qty</b>	<b>Beneficiaries (nos.)</b>
	Livestock strains ( Nos)	-	-
	Milk Yield - Cow, Buffelo etc. (in liter)	-	-
	Fish (Kg.)	-	-
	Fingerlings (nos.)	-	-
	Poultry-Eggs (nos.)	80	38
	Ducks (nos.)	-	-
	Chicks etc. (nos.)	-	-
<b>3.4</b>	<b>Bio Products</b>	<b>Qty</b>	<b>Beneficiaries (nos.)</b>
	Bio Agents -Earth worm (Kg.)	200	25
	Trichoderma (kg.)	-	-
	Bio Fertilizers- <b>Vermi compost</b> , Rhizobium, PSB , BGA , Mycorriza , Azotobacter , Azospirillum etc. (Kg.)	<b>6000</b>	-
	Bio Pesticide-Panchgavya, Neem Extract , Neem oil etc.(lit.)	-	-
<b>4</b>	<b>Soil and Water sample</b>	<b>Number</b>	<b>No. of farmers/ beneficiaries</b>
<b>a.</b>	Soil and Water sample testing by using Mini Soil Testing Kit ( <b>Nos.</b> )	-	-
<b>b.</b>	No. of Soil health card issued by using Mini Soil Testing Kit ( <b>Nos.</b> )	-	-
<b>c.</b>	Soil and Water sample testing by using Soil Testing Laboratory ( <b>Nos.</b> )	<b>139</b>	<b>139</b>
<b>d.</b>	No. of Soil health card issued by using Soil Testing Laboratory ( <b>Nos.</b> )	<b>139</b>	<b>139</b>
<b>5</b>	<b>Rainwater Harvesting System (Nos.)</b>		
<b>6</b>	<b>SAC Meeting</b>		
<b>a.</b>	SAC Meeting ( <b>Nos.</b> )	<b>02</b>	<b>60</b>
<b>b.</b>	Proposed Date & No. of core/ official members	<b>17/06/2021&amp; 06/10/2021</b>	<b>60</b>

<b>7</b>	<b>Nutri Smart Village</b>		
<b>a.</b>	OFTs	<b>07</b>	<b>38</b>
<b>b.</b>	FLDs	<b>10</b>	<b>90</b>
<b>c.</b>	Trainings	<b>11</b>	<b>322</b>
<b>d.</b>	Extension activities	<b>40</b>	<b>648</b>
<b>8</b>	<b>Technology Demonstration under Tribal Sub Plan</b>		
<b>a.</b>	<b>Tribal Sub Plan (TSP)</b>	<b>-</b>	<b>-</b>
	<b>Other Activities</b>		
<b>6</b>	<b>Any other significant achievement in the Zone</b>	<b>Nos.</b>	<b>Participants/ beneficiaries</b>
	Award (Best KVK award and scientist and farmer's award)	-	-
	Publications (Res. Paper/ pop. Art./Bulletin,etc.)	02	-
	KVK News letter	04	Mass
	KVK-KMA (Message sent and beneficiaries)	31	34154
		<b>No. of Calls</b>	<b>Respondent</b>
	Kisan Sarthi	-	-
		<b>Nos.</b>	<b>Participants/ beneficiaries</b>
	Convergence programmes	06	110
	Sponsored programmes	08	175
	KVK Progressive Farmers interaction	03	27
	No. of Technology Week Celebrations	01	471
	Attended HRD activities organized by ZPD	07	04
	Attended HRD activities organized by DES	02	02
	Attended HRD activities by KVK Staff(Refresher/Short course, Training programme etc. )	03	02
<b>7</b>	<b>Current status of Revolving Funds (Amt. in Rs.)</b>	<b>Rs. 229159.30</b>	
<b>8</b>		<b>No. of blocks</b>	<b>No. of villages</b>
	Outreach of KVK in the District	05	1049
<b>9</b>		<b>ICAR</b>	<b>SAU</b>
	No. of important visitors to KVK (nos.)	04	02
<b>10</b>		<b>Working (Yes/No)</b>	<b>No. of Updates during the year</b>
	Status of KVK Website	Yes	06
<b>11</b>		<b>Application received</b>	<b>Application disposed</b>
	Status of RTI (nos.)	01	01

<b>12</b>		<b>Query received</b>	<b>Query dissolved</b>
	Citizen Charter (nos.)	-	-
<b>13</b>		<b>Filled</b>	<b>Vacant</b>
	Staff Position	14	02
<b>14</b>	Workshop/ Seminar/ Conference attended by staff of KVK ( nos)	03	02
<b>15</b>	Publication received from ICAR /other organization (nos.)	02	02
<b>16</b>		<b>Particulars</b>	<b>Organization</b>
	Agri alerts (epidemic, high serious nature problem, Cyclone etc. reported first time to ZPD, SAU, Agri. Deptt. and ICAR)	01	RAK College, Sehore
		<b>Nos. of Activities</b>	<b>Participants/ beneficiaries</b>
<b>17</b>	Activities performed in Sansad Adarsh Gram	-	-
		<b>Nos. of Activities</b>	<b>Participants/ beneficiaries</b>
	Interventions on Drought Mitigation	-	-
<b>18</b>	Activities performed in DFI Village	49	253
<b>20</b>	Current status of Contingency ( Amt. in Rs.)	Rs. 1342314.00	
	Case study / Success Story to be developed (Nos.)	30	30
<b>19</b>	<b>Administrative</b>	<b>No. of days occupy</b>	
<b>a.</b>	Utilization of Farmers Hostel	-	-
<b>b.</b>	Utilization of Staff Quarters	04	02

## ICT Initiative

KVK Name	Activity	Number	No. of farmers/ beneficiaries	Total value of resource generated/Fund received from diff. sources (Rs.)
SEHORE	Status of KVK Website (no of monthly updates)	06	3022	-
SEHORE	Kisan Mobile Advisory (KVK-KMA)	31	45695	-
SEHORE	Kisan Sarthi	Nil	-	--
SEHORE	Whatsapp	120	1437	-
SEHORE	Facebook	14	Mass	-
SEHORE	KVK Portal	405	9685	-
SEHORE	Twitter	18	Mass	-
SEHORE	Instragram	Nil	-	-



# 1. GENERAL INFORMATION

## 1.1. Staff Position (as on 31/12/2021)

Name of KVK	Sanctioned Posts	PC (1)		SMS (6)		PA (3)		Admn. (6)		Total	
		Sanc.	Filled	Sanc.	Filled	Sanc.	Filled	Sanc.	Filled	Sanc.	Filled
KVK-SEHORE	16	01	0	06	05	03	03	06	06	16	14

Name of KVK	Sanction post	Status (Filled/Vacant)	Name of the Employee	Discipline	Highest degree	Pay scale	Present pay	Date of joining (DD/MM/YYYY)	Category (Gen/OBC/SC/ST)	Mobile Number	Email-id
SEHORE	Sr. Scientist & Head	Vacant	-	-	-	-	-	-	-	-	-
SEHORE	SMS/ Scientist 1	Filled	Mr. J. K. Kanaujia	Horticulture	M.Sc.	Level-10	91301	09/07/2005	OBC	9926980176-	<a href="mailto:jkanaujia@gmail.com">jkanaujia@gmail.com</a>
SEHORE	SMS/ Scientist 2	Filled	Mr. Sandeep Todwal	Soil Science	M.Sc.	Level-10	75400	16/12/2010	OBC	7697277171	sandeptodwal292gmail.com
SEHORE	SMS/ Scientist 3	Filled	Mr. Devendra Patil	Agronomy	M.Sc.	Level-10	63100	26/12/2017	OBC	8827176184	dpatil889@gmail.com
SEHORE	SMS/ Scientist 4	Vacant	-	-	-	-	-	-	-	-	-
SEHORE	SMS/ Scientist 5	Filled	Mr. Dharmendra	Agri. Extn.	M.sc.	Level-10	61300	11/03/2019	OBC	8889469911	<a href="mailto:lalu.khandwa@gmail.com">lalu.khandwa@gmail.com</a>
SEHORE	SMS/ Scientist 6	Filled	Dr. Vimlesh Kumar	Veterinary Science	M.V.Sc.	Level-10	61300	25/03/2019	OBC	8005227757	vimlesh8785@gmail.com
SEHORE	Programme Assistant	Filled	Dr. Kusum Shukhwal	Home Science	Phd	Level-6	39900	05/02/2019	GEN	8005660728	kusumsukhwal90@gmail.com
SEHORE	Farm Manager	Filled	Mr. Pawan Jat	Farm Manager	B.Sc.	Level-6	35400	17/12/2021	OBC	6263596949	
SEHORE	Computer Programmer	Filled	Mr. Akshay Kalkar	MCA	MCA	Level-6	39900	01/01/2018	GEN	8518018553	akshaykalkar26@gmail.com
SEHORE	Accountant / superintendent	Filled	Mr Shashikant Harde	Commerce	M.Com	Level-6	44900	01/08/2013	SC	8103505734	harde.shashikant@gmail.com
SEHORE	Stenographer	Filled	Mr. Bhanu Pal Singh	Science	B.Sc.	Level-4	38600	25/01/2008	GEN	8962156357	bhanukvk10@gmail.com
SEHORE	Driver	Filled	Mr. Pradip Singh Rajput	-	10 th	Level-3	31100	18/08/2003	GEN	9425661497	pradeepsinghrajput979@gmail.com
SEHORE	Driver	Filled	Mr. Satish Upadhyay	-	12th	Level-3	23800	04/03/2019	GEN	9111066262	-
SEHORE	Supporting staff, if any	Filled	Mr. Ravishanker Raikwar	-	10 <sup>th</sup>	Level-1	27200	01/03/2001	OBC	9993420677	-
SEHORE	Supporting staff, if any	Filled	Mr. Nirmal Kumar	-	8th	Level-1	22800	25/08/2006	ST	9826998693	-

## 1.2. Total land with KVK (in ha)

S. No.	Item	Area (ha)
1	Under Buildings	1.00
2.	Under Demonstration Units	0.50
3.	Under Crops	12.50
4.	Orchard/Agro-forestry	3.00
5.	Others (specify)	1.78

## 1.3 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

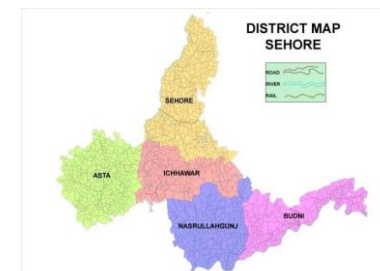
### C) Equipments& AV aids

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

## 1.4. 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" to 78°01'59" on East respectively. It stands in the foothills of *Vindhya 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 districts 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
<b>Total</b>	<b>683743</b>	<b>627589</b>	<b>197429</b>	<b>1311332</b>	<b>54256</b>	<b>271281</b>	<b>29102</b>	<b>145512</b>	<b>173952</b>	<b>894539</b>	<b>257311</b>	<b>1311332</b>

(Source: Census -2011)

### Topography and Agro climatic characteristic:-

The district falls in the Vindhya plateau, as the zone is characterized by black soil mostly medium in depth. The major crops grown in the region are Soybean and Wheat crop. The district has about 60% area 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 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
<b>Total Area</b>	<b>-</b>	<b>-</b>	<b>656.368</b>	<b>-</b>

**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 (P<sub>2</sub>O<sub>5</sub>) and medium in potash (K<sub>2</sub>O). 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 25°C to 45°C and average temperature in winter from 10°C to 25°C.

**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	<b>1820.8</b>	1328.70	1004.40	<b>1208.74</b>
2	Ashta	692.0	789.65	1607.8	1325.30	952.00	<b>1073.35</b>
3	Ichhawar	933.2	931.00	1740.0	1425.00	1080.30	<b>1221.90</b>
4	Budani	1016.75	926.60	1729.8	1727.70	1050.00	<b>1290.17</b>
5	Nasrullaganj	948.0	603.2	1937.0	1277.00	1108.00	<b>1174.64</b>
<b>Average</b>		<b>880.99</b>	<b>864.29</b>	<b>1767.08</b>	<b>1416.74</b>	<b>1038.94</b>	1193.60

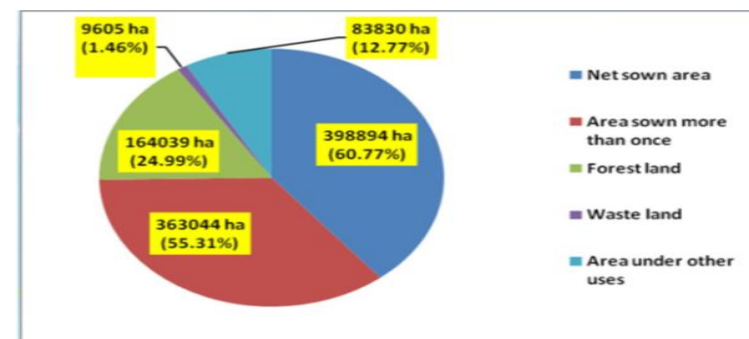
(Dept. of FW&AD, Sehore)

**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.

## Land Use Pattern:-

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

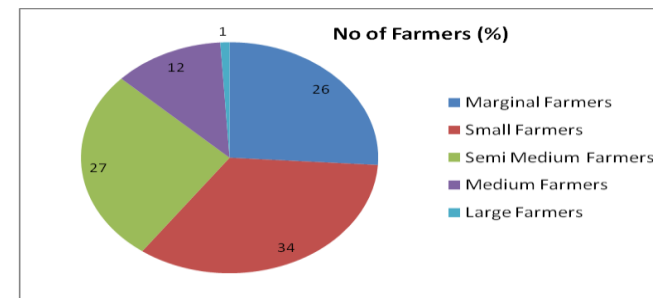
(Source: Land record)



**Details of land holdings in the district (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
<b>Total</b>	<b>204159</b>	<b>-</b>	<b>398894</b>	<b>-</b>

Source- DPO, Sehore

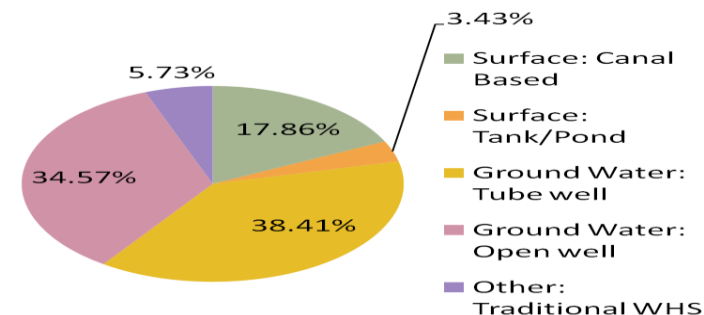


**Irrigation :** -The district has good potential for irrigation through different sources, though there are no major or medium irrigation scheme in the district, however, minor lift irrigation schemes, dug well, water harvesting structures, seasonal rivers and other sources provides water for irrigation.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

### Irrigation potential of district: -

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

### Irrigation Source- Sehore



P1

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
2016-17	269.91	329.29	1220.0	29.8	125.6	4200.0	9.05	11.95	1320.0	248.95	871.3	3500.0	81.93	110.61	1350.0	25900	28490	1100
2017-18	275.16	335.70	1220.0	31.87	133.84	4200.0	5.45	7.19	1320.0	244.50	904.64	3700.0	96.42	164.79	1709.0	33581	37274	1110
2018-19	290.00	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
Average	294.90	350.24	1166.72	30.39	119.12	3900.0	6.74	23.70	1154	261.99	1013.61	3800.0	94.40	155.89	1613.80	22604.20	23633.40	1031.00

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
2017-18	4934.00	106689.0	15518	290043.0	9555.0	58957.0	555.0	5804.0	11.30	42.13
2018-19	5149.0	114471.0	13158.0	229360.0	9582.0	59242.0	555.0	5813.0	11.30	42.13
2019-20	5205.2	118945.0	13956.0	232850.0	1062.0	60145.0	789	8410	212	1625
2020-21	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

## Livestock :-

The economy of Sehore district is primarily agriculture and livestock based. There is good quantum of animal resources the district. As the metro like Bhopal is near to Sehore district hence, the scope for the increase 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.



in

*Source- DOH Sehore*

Block	Small animals					Large animals		
	Poultry	Ducks	Pigs	Goat	Sheep	Cow	Buffalo	Draught animal
Sehore	242585	0	326	20472	0	60245	46498	5051
Ashta	21258	0	384	31535	90	70905	59560	0
Ichhawar	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
<b>Total</b>	<b>303627</b>	<b>0</b>	<b>1429</b>	<b>105135</b>	<b>90</b>	<b>308268</b>	<b>195086</b>	<b>10074</b>

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

## Production of Animal produces in the District

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

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

## Fisheries:-

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

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

## **SWOT ANALYSIS -**

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

### **3.1 STRENGTH**

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

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

### **3.2 WEAKNESS**

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

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

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

### **3.3 OPPORTUNITIES**

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

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



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

### **3.4 Threats –**

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

### **Major Problems in District :-**

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

### 1.5. 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

### 1.6 Details of Operational area / Villages (31<sup>st</sup> December, 2021)

S.No	KVK	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
01	SEHORE	Ichhawar	Narsinghkheda	<ul style="list-style-type: none"> <li>➤ Soybean</li> <li>➤ Maize</li> <li>➤ Paddy</li> <li>➤ Black Gram</li> <li>➤ Wheat</li> <li>➤ Chickpea</li> <li>➤ Lentil</li> <li>➤ Green Gram</li> <li>➤ Dairy</li> <li>➤ Poultry</li> <li>➤ Animal Husbandry</li> </ul>	<b>Soil health</b> <ul style="list-style-type: none"> <li>• High Soil erosion due to undulation &amp; non bunding of farms</li> <li>• Deterioration in Soil health due to adoption of Soybean – Wheat , Paddy – Wheat, Soybean-Chickpea cropping system</li> <li>• Deterioration in soil health due to imbalance use of plant nutrient</li> <li>• Lack of knowledge about bio fertilizer &amp; its application</li> </ul>	<ul style="list-style-type: none"> <li>➤ Soil Health Management, Crop management Practices (CMP)</li> <li>➤ Horticulture &amp; Végétales Corps (H &amp; VC)</li> <li>➤ Animal Science (A S)</li> <li>➤ Integrated Plant Protection Techniques (IPPT)</li> <li>➤ Women in Agriculture. (W A)</li> <li>➤ Implements &amp; Farm Machinery (I &amp; FM)</li> <li>➤ Natural Resource Management (NRM)</li> <li>➤ Livelihood &amp; Nutritional Security</li> <li>➤ Doubling Farmers income</li> </ul>
02	SEHORE		Golukhedi			
03	SEHORE		Bawadiya Chor			
04	SEHORE	Asta	Gular Chhapari			
05	SEHORE		Gwakheda			
06	SEHORE		BheelKhedi			
07	SEHORE	Sehore	Bafapur			
08	SEHORE		Mehtwada			
09	SEHORE		Bijlon			
10	SEHORE		Heerapur			
11	SEHORE		Ramakhedi			
12	SEHORE		Thuna Pachama			
13	SEHORE		Bichhia			
14	SEHORE	Nasrullaganj	Kothra Pipalya		<ul style="list-style-type: none"> <li>➤ Soybean</li> <li>➤ Maize</li> <li>➤ Paddy</li> <li>➤ Black Gram</li> <li>➤ Wheat</li> <li>➤ Chickpea</li> <li>➤ Lentil</li> <li>➤ Green Gram</li> <li>➤ Dairy</li> <li>➤ Poultry</li> <li>➤ Animal Husbandry</li> </ul>	
			Kankaria			

### 1.7. 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)

### 1.8. PROBLEM IDENTIFIED by KVK

KVK Name	Problem identified	Methods of problem identification	Location Name of Village & Block
SEHORE	<b>Soil health</b> 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, Extranees 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, Extranees 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, Extranees 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, Extranees 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, Narsingkheda Kothra Pipalya
SEHORE	Low water use efficiency	Field visit, Discussion, Meeting, Krisak sangosthi, PRA, SAC meeting, Interface, Extranees 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, Extranees meet etc.	Problem are common in entire district
SEHORE	Heavy infestation of insect & disease	Field visit, Discussion, Meeting, Krisak sangosthi, PRA, SAC meeting, Interface, Extranees 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, Extranees meet etc.	Problem are common in entire district

<b>SEHORE</b>	Slow adoption of farm mechanization	Field visit, Discussion, Meeting, Krisak sangosthi, PRA, SAC meeting, Interface, Extranees meet etc.	Problem are common in entire district
<b>SEHORE</b>	High post harvest losses in grain, vegetable & Fruits crops	Field visit, Discussion, Meeting, Krisak sangosthi, PRA, SAC meeting, Interface, Extranees meet etc.	Problem are common in entire district
<b>SEHORE</b>	Poor adoption of technology by Farmers	Field visit, Discussion, Meeting, Krisak sangosthi, PRA, SAC meeting, Interface, Extranees meet etc.	Problem are common in entire district
<b>SEHORE</b>	Weed infestation of crops	Field visit, Discussion, Meeting, Krisak sangosthi, PRA, SAC meeting, Interface, Extranees meet etc.	Problem are common in entire district
<b>SEHORE</b>	Water stress in critical stages of plant growth	Field visit, Discussion, Meeting, Krisak sangosthi, PRA, SAC meeting, Interface, Extranees meet etc.	Problem are common in entire district

## 2.A. Details of target and achievements of mandatory activities by KVK during 2021

OFT (Technology Assessment and Refinement)				FLD (Oilseeds, Pulses, Cotton, Other Crops)				FLD (Enterprises)			
1				2				3			
Number of OFTs		Total no. of Trials		Area in ha		Number of Farmers		Area in ha/Units in No.		Number of Farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
18	20	95	190	29.5	29.5	235	230	08	08	70	100

Training (including sponsored, vocational and other trainings carried under Rainwater Harvesting Unit)					Extension Activities			
3					4			
Number of Courses			Number of Participants		Number of activities		Number of participants	
Clientele	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
Farmers	62	56	1684	1482	150	319	15234	5429
Rural youth	16	15	365	370				
Extn. Functionaries	16	08	415	210				
Vocational Training	11	04	145	40				

Seed Production (q.)			Planting material (Nos.)		
5			6		
Target	Achievement	Distributed to no. of farmers	Target	Achievement	Distributed to no. of farmers
300	203.6	548	32800	1521	2257

## 2.1 Summary of Technology Assessment

Category	No. of Technology Assessed	No. of Trials	No. of Farmers
<b>Technology Assessed</b>			
Crops	14	42	80
Agriculture Engineering	Nil	-	-
Animal Science	04	12	45
Fisheries	Nil	-	-
Extension	01	3	60
Home Science	02	04	13
Various enterprises	-	-	-
<b>Total</b>	<b>20</b>	<b>-</b>	<b>198</b>

## 2. On Farm Testing (OFT)

### 2.2 Information about OFT:01 (Soil Science) -

<b>Name of Discipline</b>	Soil Science
<b>Title of on-farm trial:</b>	Assessment of Integrated Nutrient Management in Soybean- Chickpea Cropping System.
<b>Year/Season:</b>	2020-21/Kharif and Rabi
<b>Farming situation:</b>	Irrigated
<b>Problem diagnosis:</b>	Low yield due to imbalance use of plant nutrient in soybean- chickpea cropping system.
<b>Thematic area:</b>	INM
<b>No of trials:</b>	10
<b>No. of farmers involved</b>	10
<b>Type of OFT (Assessment/ Refinement):</b>	Assessment
<b>Details of technology selected for assessment/ refinement:</b>	
T1 – Farmers Practice-	Imbalance use of plant nutrient (09:23:00 NPK kg/ha)
T2 –Recommended Practice-	2 t/ha FYM and 100 % RDF in Soybean and 75 % RDF in Chickpea.
T3- Recommended Practice-	-
<b>Date of sowing:</b>	1 July 2020 & 24 Oct, 2020
<b>Date of harvesting:</b>	21 September 2020 & 21 February 2021
<b>Source of technology:</b>	IISS, Bhopal
<b>Characteristics of technology:</b>	Balance use of Plant Nutrient through INM in Soybean Chickpea cropping system, Increase yield and quality and reduce input cost.
<b>Name of Crop/Enterprises:</b>	Soybean- chickpea
<b>Recommendations for Farmers</b>	The technology was found compatible with farmer practices and recommendation for micro level situation
<b>Recommendations for Deptt. Personnel</b>	Technology found best for soybean-chickpea grower, Recommended for demonstration.
<b>Feedback</b>	The Farmers had shown the result between farmer practice & Technology, according to farmers adopted technology.

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

Details of technology	Name of Parameter	Unit of Parameter		Average Cost of cultivation (Rs/ha)		Average Gross Return (Rs/ha)		Average Net Return (Rs/ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)	
		Soybean	Chickpea	Soybean	Chickpea	Soybean	Chickpea	Soybean	Chickpea	Soybean	Chickpea
T1 (Farmers Practice)	No. of Pods	8.41 Per plant	23.81 Per plant	21068.00	23532.00	16198.52	61330.08	4861.48	37798.00	0.77	2.61
	No. of Grains	1.40 Per pod	1.02 Per pod								
	Test weight	90.38 Gram	216.80 Gram								
	Yield	4.17 qtl/ha	12.64 qtl/ha								
T2(Recommended Practice)	No. of Pods	8.72 Per plant	25.22 Per plant	21385.00	22832.00	18040.82	69283.01	3344.18	46451.01	0.85	3.03
	No. of Grains	1.50 Per pod	1.05 Per pod								
	Test weight	90.61 Gram	224.90 Gram								
	Yield	4.65 qtl/ha	14.28 qtl/ha								

## Information about OFT: 02 (Soil Science) -

<b>Name of Discipline</b>	Soil Science
<b>Title of on-farm trial:</b>	Assessment of Bio-waste decomposer for quality organic product to enhance soil health
<b>Year/Season:</b>	2020-21
<b>Farming situation:</b>	-
<b>Problem diagnosis:</b>	Low quality of organic manure and more time require
<b>Thematic area:</b>	NRM
<b>No of trials:</b>	50
<b>No. of farmers involved</b>	50
<b>Type of OFT (Assessment/ Refinement):</b>	Assessment
<b>Details of technology selected for assessment/ refinement:</b>	
T1 – Farmers Practice-	Traditional method of composting
T2 –Recommended Practice-	Use of Bio-waste decomposer. (Consortium of microbes)
T3- Recommended Practice-	-
<b>Date of sowing ( Start ):</b>	September 2020
<b>Date of harvesting ( Complete ):</b>	January 2021
<b>Source of technology:</b>	National centre of organic farming, Ghaziabad
<b>Characteristics of technology:</b>	Composting for quality man use and time saving
<b>Name of Crop/Enterprises:</b>	Enterprises
<b>Recommendations for Farmers</b>	The technology was found compatible with farmer practices and recommendation for micro level situation
<b>Recommendations for Deptt. Personnel</b>	Technology found best for composting, Recommended for demonstration.
<b>Feedback</b>	The Farmers had shown the result between farmer practice & Technology, according to farmers adopted technology.

### Result : (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of composting (Rs./ton)	Average Gross Return (Rs./ton)	Average Net Return (Rs./ton)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	Time taken for decomposition	12.1 Month	2000.00	3000.00	1000.00	1.50
T2(Recommended Practice)	Time taken for decomposition	3.4 Month	2600.00	5000.00	2400.00	1.92

## Information about OFT: 03 (Soil Science) -

<b>Name of Discipline</b>	Soil Science
<b>Title of on-farm trial:</b>	Assessment of INM in chickpea
<b>Year/Season:</b>	2020-21/Rabi
<b>Farming situation:</b>	Irrigated
<b>Problem diagnosis:</b>	Low yield of chickpea crop due to imbalance use of plant nutrients
<b>Thematic area:</b>	INM
<b>No of trials:</b>	05
<b>No. of farmers involved</b>	05
<b>Type of OFT (Assessment/ Refinement):</b>	Assessment
<b>Details of technology selected for assessment/ refinement:</b>	
T1 – Farmers Practice-	Imbalance use of plant nutrient (09:23:0 kg/ha NP& K)
T2 –Recommended Practice-	RDF as per STV (20:60:20 NPK kg./ha.) + seed inoculation with Rhizobium + PSB @ 3 ml/kg seed each
T3- Recommended Practice-	STCR (Targeted yield 20q/ha) + seed inoculation with Rhizobium + PSB @ 3ml/kg seed each
<b>Date of sowing:</b>	28 October, 2020
<b>Date of harvesting:</b>	23 February 2021
<b>Source of technology:</b>	IISS, Bhopal
<b>Characteristics of technology:</b>	Integration with chemical fertilizer and Bio fertilizer increase crop yield
<b>Name of Crop/Enterprises:</b>	Chickpea
<b>Recommendations for Farmers</b>	The technology was found compatible with farmer practices and recommendation for micro level situation
<b>Recommendations for Deptt. Personnel</b>	Technology found best for chickpea farmer, Recommended for demonstration.
<b>Feedback</b>	The Farmers had shown the result between farmer practice & Technology, according to farmers adopted technology.

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

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	No. of Pods	23.70 Per plant	23270.00	62660.51	39390.51	2.69
	No. of Grains	1.05Per pod				
	Test weight	218.20 Gram				
	Yield	12.92qtl/ha				
T2(Recommended Practice)	No. of Pods	25.04Per plant	24770.00	71139.08	46369.08	2.87
	No. of Grains	1.10Per pod				
	Test weight	224.20 Gram				
	Yield	14.64qtl/ha				
T3(Recommended Practice)	No. of Pods	25.28Per plant	25070.00	74415.52	49345.52	2.97
	No. of Grains	1.13Per pod				
	Test weight	226.80 Gram				
	Yield	15.34qtl/ha				

## Information about OFT: 04 (Soil Science) -

<b>Name of Discipline</b>	Soil Science
<b>Title of on-farm trial:</b>	Assessment of Vegetable Micronutrients Mixture on yield of Garlic crop.
<b>Year/Season:</b>	2020-21/Rabi
<b>Farming situation:</b>	Irrigated
<b>Problem diagnosis:</b>	Low yield of Garlic crop due to no use of micro nutrient
<b>Thematic area:</b>	SFM
<b>No of trials:</b>	10
<b>No. of farmers involved</b>	10
<b>Type of OFT (Assessment/ Refinement):</b>	Assessment
<b>Details of technology selected for assessment/ refinement:</b>	
T1 – Farmers Practice-	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 date of sowing
T3- Recommended Practice-	Foliar application of vegetable micronutrient mixture @ 5 g/L at 30, 60 and 90 date of sowing
<b>Date of sowing:</b>	20 Oct, 2020
<b>Date of harvesting:</b>	18 March 2021
<b>Source of technology:</b>	IIHR
<b>Characteristics of technology:</b>	Foliar spray of vegetable micro nutrient mixture
<b>Name of Crop/Enterprises:</b>	Garlic
<b>Recommendations for Farmers</b>	The technology was found compatible with farmer practices and recommendation for micro level situation
<b>Recommendations for Deptt. Personnel</b>	Technology found best for chickpea farmer, Recommended for demonstration.
<b>Feedback</b>	The Farmers had shown the result between farmer practice & Technology, according to farmers adopted technology.

### Result : (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	No. of cloves/Bulb	17.51 Per bulb	76975.00	224468.10	147493.10	2.92
	100 clove Weight	55.74 gram				
	Yield	62.35qtl/ha				
T2(Recommended Practice)	No. of cloves/Bulb	18.11 Per bulb	77710.00	237547.97	159837.97	3.06
	100 clove Weight	57.28 gram				
	Yield	65.99qtl/ha				
T3(Recommended Practice)	No. of cloves/Bulb	18.33Per bulb	77900.00	248777.97	170877.97	3.19
	100 clove Weight	59.20 gram				
	Yield	69.10qtl/ha				



## Information about OFT: 05 (Soil Science)

<b>Name of Discipline</b>	Soil Science
<b>Title of on-farm trial:</b>	Assessment of Sulphur along with recommended dose of plant nutrient as per soil test value in Soybean crop
<b>Year/Season:</b>	2021/ Kharif
<b>Farming situation:</b>	Rainfed
<b>Problem diagnosis:</b>	Low yield of onion due to imbalance use of plant nutrient (80:40:00 NPK kg./ha.)
<b>Thematic area:</b>	SFM
<b>No of trials:</b>	10
<b>No. of farmers involved</b>	10
<b>Type of OFT (Assessment/ Refinement):</b>	Assessment
<b>Details of technology selected for assessment/ refinement:</b>	
T1 – Farmers Practice-	Farmer Practices 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) + 20 kg Sulphur
T3- Recommended Practice-	Balance use of plant nutrient (20:60:20 NPK kg/ha) + 40 kg Sulphur
<b>Date of sowing:</b>	25 Jun 2021
<b>Date of harvesting:</b>	30 September 2021
<b>Source of technology:</b>	IISS, Bhopal
<b>Characteristics of technology:</b>	Application of Sulphur &Balance use of plant nutrient as per STV, increase yield and quality of soybean crop
<b>Name of Crop/Enterprises:</b>	Soybean
<b>Recommendations for Farmers</b>	The technology was found compatible with farmer practices and recommendation for micro level situation
<b>Recommendations for Deptt. Personnel</b>	Technology found more effectively but it was more testing require for analysis of data
<b>Feedback</b>	The Farmers had shown the result between farmer practice & Technology, according to farmers adopted technology.

### Result : (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	No. of Pods	16.61Per plant	22445.00	42419.00	19974.00	1.89
	No. of Grains	1.79Per pod				
	Test weight	93.27Gram				
	Yield	11.16qtl/ha				
T2(Recommended Practice)	No. of Pods	17.27Per plant	23895.00	47606.00	23711.00	1.99
	No. of Grains	1.91Per pod				
	Test weight	94.24Gram				
	Yield	12.53qtl/ha				
T3(Recommended Practice)	No. of Pods	17.38Per plant	24895.00	49107.00	24212.00	1.97
	No. of Grains	1.94Per pod				
	Test weight	94.83Gram				
	Yield	12.92qtl/ha				

## Information about OFT: 06 (Soil Science) – Ongoing

<b>Name of Discipline</b>	Soil Science
<b>Title of on-farm trial:</b>	Assessment of Foliar application of water soluble plant nutrient and micronutrient Zn & B on yield and quality of Tomato.
<b>Year/Season:</b>	2021-22/ Rabi
<b>Farming situation:</b>	Irrigated
<b>Problem diagnosis:</b>	Low yield ,quality and fruit set due to Nutrient deficiency
<b>Thematic area:</b>	SFM.
<b>No of trials:</b>	05 No.
<b>No. of farmers involved</b>	05
<b>Type of OFT (Assessment/ Refinement):</b>	Assessment
<b>Details of technology selected for assessment/ refinement:</b>	
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.
<b>Date of sowing:</b>	October – 2021
<b>Date of harvesting:</b>	-
<b>Source of technology:</b>	IIVR, Varanasi (U.P.)
<b>Characteristics of technology:</b>	Foliar application Of NPK, Zn & B increase yield and quality of Tomato
<b>Name of Crop/Enterprises:</b>	Tomato
<b>Recommendations for Farmers</b>	-
<b>Recommendations for Deptt. Personnel</b>	-
<b>Feedback</b>	-

## Result : (Economic Performance of OFT)

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

## Information about OFT: (Soil Science) – 07 Ongoing

<b>Name of Discipline</b>	Soil Science
<b>Title of on-farm trial:</b>	Assessment of Nano- Nitrogen technology in wheat crop.
<b>Year/Season:</b>	2021-22/ Rabi
<b>Farming situation:</b>	Irrigated
<b>Problem diagnosis:</b>	Low fertilizer use efficiency and One time application of nitrogen 170 kg/ha through Urea
<b>Thematic area:</b>	SFM.
<b>No of trials:</b>	05 No.
<b>No. of farmers involved</b>	05
<b>Type of OFT (Assessment/ Refinement):</b>	Assessment
<b>Details of technology selected for assessment/ refinement:</b>	
T1 – Farmers Practice-	One time application of nitrogen 250 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
<b>Date of sowing:</b>	October – 2021
<b>Date of harvesting:</b>	-
<b>Source of technology:</b>	ICAR- CIRCOT, Nagpur and IFFICO
<b>Characteristics of technology:</b>	Enhancing fertilizer use efficiency and reduce input cost
<b>Name of Crop/Enterprises:</b>	Wheat
<b>Recommendations for Farmers</b>	-
<b>Recommendations for Deptt. Personnel</b>	-
<b>Feedback</b>	-

## Result : (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter	Average Cost of cultivation (Rs/ha)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	No of Effective Tillers	Per sq meter	In Progress			
	Test Weight	gram				
	Yield	qtl/ha				
T2(Recommended Practice)	No of Effective Tillers	Per sq meter				
	Test Weight	gram				
	Yield	qtl/ha				
T3(Recommended Practice)	No of Effective Tillers	Per sq meter				
	Test Weight	gram				
	Yield	qtl/ha				

## Information about OFT: 08 (Soil Science) - Ongoing

<b>Name of Discipline</b>	Soil Science
<b>Title of on-farm trial:</b>	Assessment of Vegetable Micronutrients Mixture on yield of Garlic crop.
<b>Year/Season:</b>	2021-22/Rabi
<b>Farming situation:</b>	Irrigated
<b>Problem diagnosis:</b>	Low yield of Garlic crop due to no use of micro nutrient
<b>Thematic area:</b>	SFM
<b>No of trials:</b>	10
<b>No. of farmers involved</b>	10
<b>Type of OFT (Assessment/ Refinement):</b>	Assessment
<b>Details of technology selected for assessment/ refinement:</b>	
T1 – Farmers Practice-	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 date of sowing
T3- Recommended Practice-	Foliar application of vegetable micronutrient mixture @ 5 g/L at 30, 60 and 90 date of sowing
<b>Date of sowing:</b>	October, 2021
<b>Date of harvesting:</b>	-
<b>Source of technology:</b>	IIHR
<b>Characteristics of technology:</b>	Foliar spray of vegetable micro nutrient mixture
<b>Name of Crop/Enterprises:</b>	Garlic
<b>Recommendations for Farmers</b>	-
<b>Recommendations for Deptt. Personnel</b>	-
<b>Feedback</b>	-

## Result : (Economic Performance of OFT)

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

## Information about OFT: 09 (Agronomy )

<b>Name of Discipline</b>	Agronomy
<b>Title of on-farm trial:</b>	Assessment of Wheat variety HI 8759 (Pusa Tejus) in irrigated Condition.
<b>Year/Season:</b>	2020-21/Rabi
<b>Farming situation:</b>	Irrigated
<b>Problem diagnosis:</b>	Low yield of wheat due to use of old and impotent varieties (Malavshakti)
<b>Thematic area:</b>	CMP
<b>No of trials:</b>	05
<b>No. of farmers involved</b>	05
<b>Type of OFT (Assessment/ Refinement):</b>	Assessment
<b>Details of technology selected for assessment/ refinement:</b>	
T1 – Farmers Practice-	Farmers Practice – Wheat var Malavshakti
T2 –Recommended Practice-	Wheat Var. HI 8737 (Anmol).
T3- Recommended Practice-	Wheat var. HI 8759 (Pusa Tejus)
<b>Date of sowing:</b>	10-15 Nov, 2020
<b>Date of harvesting:</b>	25-30 March1,2021
<b>Source of technology:</b>	IARI, Indore
<b>Characteristics of technology:</b>	Having a High level of rust resistance. It is a high durum wheat variety with an average yield of 57 q/ha and potential yield of 76 q/ha
<b>Name of Crop/Enterprises:</b>	Wheat
<b>Recommendations for Farmers</b>	This technology is appropriate with farming situation and farmer convenience for adoption
<b>Recommendations for Deptt. Personnel</b>	This technology have to be spread by the Dept. personnel between farm ring community
<b>Feedback</b>	Wheat variety HI-8759 (Pusa Tejus) is highest yield than Malavshakti and Pusa Anmol wheat variety under irrigated situation farmers are react this variety is good for higher production

### 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	5.38	26780	88456	60876	3.21
	No of Grains/panical	43.45				
	Test weight (g)	44.22				
	Yield (q/ha)	44.79				
T2(Recommended Practice)	No of effective tillers/hill	5.93	27100	103215	75315	3.70
	No of Grains/panical	44.86				
	Test weight (g)	45.14				
	Yield (q/ha)	52.26				
T3(Recommended Practice)	No of effective tillers/hill	6.47	28110	121610	92700	4.21
	No of Grains/panical	46.45				
	Test weight (g)	46.79				
	Yield (q/ha)	61.57				

## Information about OFT : 10 (Agronomy)

<b>Name of Discipline</b>	Agronomy
<b>Title of on-farm trial:</b>	Assessment of lentil variety RVL 11-6
<b>Year/Season:</b>	2020-21/ Rabi
<b>Farming situation:</b>	Restricted Irrigated
<b>Problem diagnosis:</b>	Low yield of lentil due to use of old varieties
<b>Thematic area:</b>	CMP
<b>No of trials:</b>	05
<b>No. of farmers involved</b>	05
<b>Type of OFT (Assessment/ Refinement):</b>	Assessment
<b>Details of technology selected for assessment/ refinement:</b>	
T1 – Farmers Practice-	T1 – Farmers Practice – Lentil var Local
T2 –Recommended Practice-	T2 – Lentil Var. IPL-316
T3- Recommended Practice-	T3 – RVL 11-6
<b>Date of sowing:</b>	Oct 2020
<b>Date of harvesting</b>	Feb 2021
<b>Source of technology:</b>	RVSKVV, RAK, CoA. Sehore
<b>Characteristics of technology:</b>	Bold seed, drought tolerance, duration 115-120 day and yield 17-18 q /ha
<b>Name of Crop/Enterprises:</b>	Lentil
<b>Recommendations for Farmers</b>	-
<b>Recommendations for Deptt. Personnel</b>	-
<b>Feedback</b>	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)

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. Branches/plant	3.98	22944.00	54768.96	31824.96	2.39
	No of pods/plant	69.00				
	No. of seeds/pod	1.75				
	Test weight (g)	23.00				
	Yield (q/ha)	10.74				
T2(Recommended Practice)	No. Branches/plant	4.13	24240.00	65711.07	41471.07	2.71
	No of pods/plant	70.60				
	No. of seeds/pod	1.91				
	Test weight (g)	24.91				
	Yield (q/ha)	12.88				
T3(Recommended Practice)	No. Branches/plant	4.38	25255.80	73478.04	48222.24	2.91
	No of pods/plant	72.80				
	No. of seeds/pod	2.04				
	Test weight (g)	25.38				
	Yield (q/ha)	14.41				

## Information about OFT : 11 (Agronomy)

<b>Name of Discipline</b>	Agronomy
<b>Title of on-farm trial:</b>	Assessment of Green gram variety IPM 205-7 (Virat) in summer season
<b>Year/Season:</b>	2021/ Summer
<b>Farming situation:</b>	Irrigated
<b>Problem diagnosis:</b>	Delay in Kharif Crop Sowing due to lack of Early mature variety of Green gram
<b>Thematic area:</b>	CMP
<b>No of trials:</b>	05
<b>No. of farmers involved</b>	05
<b>Type of OFT (Assessment/ Refinement):</b>	Assessment
<b>Details of technology selected for assessment/ refinement:</b>	
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)
<b>Date of sowing:</b>	25 march-1April 2021
<b>Date of harvesting:</b>	30 May-5 Juner ,2021
<b>Source of technology:</b>	Indian Institute of Pulses Research, Kanpur (2016)
<b>Characteristics of technology:</b>	Early maturing (52-55 days), high yielding and resistant to yellow mosaic disease
<b>Name of Crop/Enterprises:</b>	Green gram
<b>Recommendations for Farmers</b>	-
<b>Recommendations for Deptt. Personnel</b>	-
<b>Feedback</b>	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	20.20	21856	80330	58474	3.67
	No. of seeds/pod	8.40				
	Test weight (g)	29.20				
	Yield (q/ha)	11.31				
T2(Recommended Practice)	No of pods/plant	21.00	22556	87071	64515	3.86
	No. of seeds/pod	8.80				
	Test weight (g)	30.20				
	Yield (q/ha)	12.26				
T3(Recommended Practice)	No of pods/plant	21.40	24856	98247	73391	3.95
	No. of seeds/pod	9.60				
	Test weight (g)	30.60				
	Yield (q/ha)	13.84				

## Information about OFT : 12 (Agronomy)

<b>Name of Discipline</b>	Agronomy
<b>Title of on-farm trial:</b>	Assessment of Soybean variety RVS 2001- 18 ( Raj Soya-18)
<b>Year/Season:</b>	2021/ Kharif
<b>Farming situation:</b>	Irrigated
<b>Problem diagnosis:</b>	Low yield of soybean due to Exist Variety JS- 9560 & JS- 9305
<b>Thematic area:</b>	CMP
<b>No of trials:</b>	05
<b>No. of farmers involved</b>	05
<b>Type of OFT (Assessment/ Refinement):</b>	Assessment
<b>Details of technology selected for assessment/ refinement:</b>	
T1 – Farmers Practice-	T1 – Farmers Practice – JS 9305
T2 –Recommended Practice-	T2 – Soybean variety JS 9560
T3- Recommended Practice-	T3 – Soybean variety RVS 2001- 18
<b>Date of sowing:</b>	25 June-1July 2021
<b>Date of harvesting:</b>	28 Sept-2 October ,2021
<b>Source of technology:</b>	RVSKVV, RAK, CoA. Sehore (2017)
<b>Characteristics of technology:</b>	High yield, suitable for mechanical harvesting Resistance to YMV and chorcol rot
<b>Name of Crop/Enterprises:</b>	Soybean
<b>Recommendations for Farmers</b>	This technology is appropriate with farming situation and farmer convenience for adoption
<b>Recommendations for Deptt. Personnel</b>	This technology have to be spread by the Dept. personnel between farm ring community
<b>Feedback</b>	Soybean variety RVS 2001-18 is highest yield than JS 9305 and JS 9560. Farmers are react this variety is resistance to insect and disease

## 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	12.60	21778	44253	22475	2.03
	No. of seeds/pod	1.56				
	Test weight (g)	91.14				
	Yield (q/ha)	7.38				
T2(Recommended Practice)	No of pods/plant	14.60	23113	63245	40132	2.74
	No. of seeds/pod	1.90				
	Test weight (g)	92.70				
	Yield (q/ha)	10.54				
T3(Recommended Practice)	No of pods/plant	15.80	24159	76165	52005	3.15
	No. of seeds/pod	2.09				
	Test weight (g)	93.50				
	Yield (q/ha)	12.69				



## Information about OFT: 13 (Agronomy) (Ongoing)

<b>Name of Discipline</b>	Agronomy
<b>Title of on-farm trial:</b>	Assessment of Wheat variety HI-1634 (Pusa Ahilya)
<b>Year/Season:</b>	2021/ Rabi
<b>Farming situation:</b>	Restricted Irrigated
<b>Problem diagnosis:</b>	Low yield of Wheat and lack of nutrition due to use of old varieties
<b>Thematic area:</b>	CMP
<b>No of trials:</b>	05
<b>No. of farmers involved</b>	05
<b>Type of OFT (Assessment/ Refinement):</b>	Assessment
<b>Details of technology selected for assessment/ refinement:</b>	
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)
<b>Date of sowing:</b>	October - 2021
<b>Date of harvesting:</b>	-
<b>Source of technology:</b>	ICAR-Indian Agricultural Research Institute, Regional Station, Indore
<b>Characteristics of technology:</b>	HI 1634 is an early flowering (60-65 days) variety which matures in 105-110 days, and produces bold grains (TGW 40.0g)
<b>Name of Crop/Enterprises:</b>	Wheat
<b>Recommendations for Farmers</b>	-
<b>Recommendations for Deptt. Personnel</b>	-
<b>Feedback</b>	-

### 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 : 14 (Agronomy) (On going)

<b>Name of Discipline</b>	Agronomy
<b>Title of on-farm trial:</b>	Assessment of lentil variety RVL 11-6
<b>Year/Season:</b>	2021/ Rabi
<b>Farming situation:</b>	Restricted Irrigated
<b>Problem diagnosis:</b>	Low yield of lentil due to use of old varieties (Masuri)
<b>Thematic area:</b>	CMP
<b>No of trials:</b>	05
<b>No. of farmers involved</b>	05
<b>Type of OFT (Assessment/ Refinement):</b>	Assessment
<b>Details of technology selected for assessment/ refinement:</b>	
T1 – Farmers Practice-	T1 – Farmers Practice – Lentil var Local
T2 –Recommended Practice-	T2 – Lentil Var. IPL-316
T3- Recommended Practice-	T3 – RVL 11-6
<b>Date of sowing:</b>	October- 2021
<b>Date of harvesting:</b>	-
<b>Source of technology:</b>	RVSKVV, RAK, CoA. Sehore (2017)
<b>Characteristics of technology:</b>	Bold seed, drought tolerance, duration 115-120 day and yield 17-18 q /ha
<b>Name of Crop/Enterprises:</b>	Lentil
<b>Recommendations for Farmers</b>	-
<b>Recommendations for Deptt. Personnel</b>	-
<b>Feedback</b>	-

### 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	In Progress	In Progress			
	No. of seeds/pod					
	Test weight (g)					
	Yield (q/ha)					
T2(Recommended Practice)	No of pods/plant		In Progress			
	No. of seeds/pod					
	Test weight (g)					
	Yield (q/ha)					
T3(Recommended Practice)	No of pods/plant		In Progress			
	No. of seeds/pod					
	Test weight (g)					
	Yield (q/ha)					

## Information about OFT : 15 (Agronomy) (On going)

<b>Name of Discipline</b>	Agronomy
<b>Title of on-farm trial:</b>	Assessment of Chick pea variety RVG-204
<b>Year/Season:</b>	2021/ Rabi
<b>Farming situation:</b>	Irrigated
<b>Problem diagnosis:</b>	Low yield of chick pea due to Exist varieties & Manual Harvesting is Costly
<b>Thematic area:</b>	CMP
<b>No of trials:</b>	05
<b>No. of farmers involved</b>	05
<b>Type of OFT (Assessment/ Refinement):</b>	Assessment
<b>Details of technology selected for assessment/ refinement:</b>	
T1 – Farmers Practice-	farmers Practice – Vishal
T2 –Recommended Practice-	T2 – Chick pea var, RVG-202
T3- Recommended Practice-	T3 – Chick pea var, RVG-204
<b>Date of sowing:</b>	Oct 2021
<b>Date of harvesting:</b>	-
<b>Source of technology:</b>	RVSKVV, RAK, CoA. Sehore (2017)
<b>Characteristics of technology:</b>	Long plant, bold seeded, Resistant to wilt and tolerance to pod borer, suitable for mechanical harvesting
<b>Name of Crop/Enterprises:</b>	Chick Pea
<b>Recommendations for Farmers</b>	-
<b>Recommendations for Deptt. Personnel</b>	-
<b>Feedback</b>	-

### 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: 16 (Plant Protection)

<b>Name of Discipline</b>	Plant Protection
<b>Title of on-farm trial:</b>	Assessment of IPM module for the management of gram pod borer in chickpea
<b>Year/Season:</b>	2020-21/ Rabi
<b>Farming situation:</b>	Rainfed
<b>Problem diagnosis:</b>	Low yield of chickpea due to infestation of gram pod borer (Average yield losses up to 15-20%)
<b>Thematic area:</b>	IPM
<b>No of trials:</b>	05 No.
<b>No. of farmers involved</b>	05
<b>Type of OFT (Assessment/ Refinement):</b>	Assessment
<b>Details of technology selected for assessment/ refinement:</b>	
T1 – Farmers Practice-	Application of insecticides.
T2 –Recommended Practice-	SDP+ resistance variety +optimum seed rate (75kg/ha)+mix 5g rabi sorghum seed with chickpea seed/bird percher 50/ha+ <i>Bacillus thuringiensis var. Kurstaki</i> 1kg/ha+need based application of Emamectin 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 50/ha+light trap 5/ha + pheromone trap 10/ha+ <i>Bacillus thuringiensis var. Kurstaki</i> 1kg/ha+ Need based application of emamectin benzoate 5%SG 220 g/ha.
<b>Date of sowing:</b>	05/11/2020
<b>Date of harvesting:</b>	10/03/2021
<b>Source of technology:</b>	ICAR- NCIPM, New Delhi (2017)
<b>Characteristics of technology:</b>	Reduce insect infestation
<b>Name of Crop/Enterprises:</b>	Chickpea
<b>Recommendations for Farmers</b>	Technology was appropriate with farming situation and farmers convenience to adopt
<b>Recommendations for Deptt. Personnel</b>	Technology was suitable in farming situation and deptt. Personnel was spread the technology other farmers
<b>Feedback</b>	<ul style="list-style-type: none"> <li>Farmers was observed pheromone trap effective to trap male adult of Gram pod borer which reduce the count of larvae.</li> <li>One spray of bio- pesticide <i>Bacillus thuringiensis var Kurstaki</i> @ 1kg/ha at pre- pod stage was found effective to manage Grap Pod Borer.</li> </ul>

### Result : (Economic Performance of OFT)

Details of technology	Name and 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)
	% Insect Infestation					
<b>T1 (Farmers Practice)</b>	13.51	12.02	23120	61302	38182	2.65
<b>T2 (Recommended Practice)</b>	5.28	14.76	22546	75255.6	52709.6	3.34
<b>T3 (Recommended Practice)</b>	3.15	18.90	22258	96369.6	74111.6	4.33

## Information about OFT: 17 (Plant Protection)

<b>Name of Discipline</b>	Plant Protection
<b>Title of on-farm trial:</b>	Assessment of Seed treatment with Burn Engine Oil @10 ml/kg for the management of fungal diseases in chickpea
<b>Year/Season:</b>	2020-21/ Rabi
<b>Farming situation:</b>	Rainfed
<b>Problem diagnosis:</b>	Low yield of chickpea due to incidence of fungal diseases (Average yield losses up to 15-20%)
<b>Thematic area:</b>	IDM based on ITK
<b>No of trials:</b>	05 No.
<b>No. of farmers involved</b>	05
<b>Type of OFT (Assessment/ Refinement):</b>	Assessment
<b>Details of technology selected for assessment/ refinement:</b>	
T1 – Farmers Practice-	Seed treatment with Carbendazim 25% + Mancozeb 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% + Mencozeb 50% @ 3g/kg Seed + burn engine oil @ 10 ml/kg seed
<b>Date of sowing:</b>	08/11/2020
<b>Date of harvesting:</b>	13/03/2021
<b>Source of technology:</b>	ICAR- NCIPM, New Delhi (2017)
<b>Characteristics of technology:</b>	Reduce Disease Incidence
<b>Name of Crop/Enterprises:</b>	Chickpea
<b>Recommendations for Farmers</b>	Technology was appropriate with farming situation and farmers convenience to adopt
<b>Recommendations for Deptt. Personnel</b>	Technology was suitable in farming situation and deptt. Personnel was spread the technology other farmers
<b>Feedback</b>	<ul style="list-style-type: none"> <li>Farmers was observed Burn engine oil effective to prevent disease incidence.</li> <li>This technology was cost effective and easy to use adoption .</li> </ul>

### Result : (Economic Performance of OFT)

Details of technology	Name and 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)
	% Disease Incidence					
<b>T1 (Farmers Practice)</b>	8.87	15.97	21278	79901.7	58623.7	3.76
<b>T2 (Recommended Practice)</b>	12.99	13.91	20720	70984.8	50261.8	3.43
<b>T3 (Recommended Practice)</b>	6.93	18.33	21561	93467.7	71906.7	4.34

## Information about OFT: 18 (Plant Protection)

<b>Name of Discipline</b>	Plant Protection
<b>Title of on-farm trial:</b>	Assessment of IDM module for the management of stem Phyllum blight and Purple Blotch in Garlic
<b>Year/Season:</b>	2020-21/ Rabi
<b>Farming situation:</b>	Irrigated
<b>Problem diagnosis:</b>	Low yield of garlic due to incidence of stephylium blight and Purple Blotch (Average yield losses up to 15-20%)
<b>Thematic area:</b>	Integrated Disease Management
<b>No of trials:</b>	05 No.
<b>No. of farmers involved</b>	05
<b>Type of OFT (Assessment/ Refinement):</b>	Assessment
<b>Details of technology selected for assessment/ refinement:</b>	
T1 – Farmers Practice-	Application of Fungicides 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 (metiram 55%+ pyraclostrobin 5% WDP) @ 0.25 % at 30,60 and 90 DAP
<b>Date of sowing:</b>	15/11/2020
<b>Date of harvesting:</b>	20/04/2021
<b>Source of technology:</b>	ICAR- IIHR Bangalore (2017)
<b>Characteristics of technology:</b>	Reduce Disease incidence
<b>Name of Crop/Enterprises:</b>	Garlic
<b>Recommendations for Farmers</b>	Technology was appropriate with farming situation and farmers convenience to adopt
<b>Recommendations for Deptt. Personnel</b>	Technology was suitable in farming situation and deptt. Personnel was spread the technology other farmers
<b>Feedback</b>	<ul style="list-style-type: none"> <li>Soil Application of bio-pesticide pseudomonas fluorescens @ 5 kg/ha at pre- sowing stage was found effective to manage wilt of chickpea.</li> </ul>

### Result : (Economic Performance of OFT)

Details of technology	Name and 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)
	% Disease Incidence					
<b>T1 (Farmers Practice)</b>	16.022	46.696	52402	326872	274470	6.24
<b>T2 (Recommended Practice)</b>	9.166	58.15	53388	407050	353662	7.62
<b>T3 (Recommended Practice)</b>	6.158	67.406	54232	571842	417610	8.70

## Information about OFT: (Horticulture) – 19 (In Progress)

<b>Name of Discipline</b>	Horticulture
<b>itle of on-farm trial:</b>	Assessment of <b>Pingali Dhanti</b> for Intercultural operation in Tomato
<b>Year/Season:</b>	2020-21/ Kharif –Rabi
<b>Farming situation:</b>	Irrigated
<b>Problem diagnosis:</b>	Low income of small & medium farmers.
<b>Thematic area:</b>	H&Vc. (Horticulture & Vegetable crops)
<b>No of trials:</b>	05 Nos.
<b>No. of farmers involved</b>	05 Farmers
<b>Type of OFT (Assessment/ Refinement):</b>	Assessment
<b>Details of technology selected for assessment/ refinement:</b>	
T1 – Farmers Practice-	Weeding through Khurpi
T2 –Recommended Practice-	Weeding through Pingali Dhanti
T3- Recommended Practice-	Use of weedicide (Metribuzin70wp.)
<b>Date of sowing:</b>	August- 2020
<b>Date of harvesting</b>	February- 2021
<b>Source of technology:</b>	
<b>Characteristics of technology:</b>	Effective in weed control in both Kharif and Rabi, Clean weeding and cost effective.
<b>Name of Crop/Enterprises:</b>	Tomato
<b>Recommendations for Farmers</b>	-
<b>Recommendations for Deptt. Personnel</b>	-
<b>Feedback</b>	-

## Result : (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter			Average Cost of cultivation (Rs/ha)			Average Gross Return (Rs/ha)			Average Net Return (Rs/ha)			Benefit-Cost Ratio (Gross Return / Gross Cost)		
		FPT1	FPT2	FPT3	FPT1	FPT2	FPT3	FPT1	FPT2	FPT3	FPT1	FPT2	FPT3	FPT1	FPT2	FPT3
Assessment of <b>Pingali Dhanti</b> for Intercultural operation in Tomato	Intensity of weeds/sq.mt. (Nos.)	<i>Result Awaited</i>														
	% increase in yield (q./ha.)															

## Information about OFT: (Horticulture) – 20 (In Progress)

<b>Name of Discipline</b>	Horticulture
<b>itle of on-farm trial:</b>	Assessment of Integrated Farming System approach for Doubling farmer's income of small farmers.
<b>Year/Season:</b>	2020-21/ Kharif –Rabi
<b>Farming situation:</b>	Irrigated
<b>Problem diagnosis:</b>	Low income of small & medium farmers.
<b>Thematic area:</b>	Income generation.
<b>No of trials:</b>	05 Nos.
<b>No. of farmers involved</b>	05 Farmers
<b>Type of OFT (Assessment/ Refinement):</b>	Assessment
<b>Details of technology selected for assessment/ refinement:</b>	
T1 – Farmers Practice-	Crop + Animal Husbandary
T2 –Recommended Practice-	Integrated farming system(Crop + Animal Husbandry + Horticulture + Enterprise)
T3- Recommended Practice-	-
<b>Date of sowing:</b>	May -2020
<b>Date of harvesting</b>	March- 2021
<b>Source of technology:</b>	IIFSR, Modipuram ,Meerut
<b>Characteristics of technology:</b>	Increase in Sources of income, Employment generation.
<b>Name of Crop/Enterprises:</b>	Enterprises
<b>Recommendations for Farmers</b>	-
<b>Recommendations for Deptt. Personnel</b>	-
<b>Feedback</b>	-

## Result : (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter			Average Cost of cultivation (Rs/ha)			Average Gross Return (Rs/ha)			Average Net Return (Rs/ha)			Benefit-Cost Ratio (Gross Return / Gross Cost)		
		FPT1	FPT2	FPT3	FPT1	FPT2	FPT3	FPT1	FPT2	FPT3	FPT1	FPT2	FPT3	FPT1	FPT2	FPT3
Assessment of Integrated Farming System approach for Doubling farmer's income of small farmers.	Increase source of Income	<i>Result Awaited</i>														
	Employment generation (no.)															



## Information about OFT: (Horticulture) – 21

<b>Name of Discipline</b>	Horticulture
<b>Title of on-farm trial:</b>	Assessment of cowpea variety Kashi Kanchan
<b>Year/Season:</b>	2021/ Rabi
<b>Farming situation:</b>	Irrigated
<b>Problem diagnosis:</b>	Low yield of cow pea due to infestation of disease and poor bearing in existing.
<b>Thematic area:</b>	H&Vc. (Horticulture & Vegetable crops)
<b>No of trials:</b>	05 Nos.
<b>No. of farmers involved</b>	05
<b>Type of OFT (Assessment/ Refinement):</b>	Assessment
<b>Details of technology selected for assessment/ refinement:</b>	
T1 – Farmers Practice-	Farmers Practice (Local seeds)
T2 –Recommended Practice-	Improved variety – Kashi Kanchan
T3 –Recommended Practice-	-
<b>Date of sowing:</b>	January, 2021
<b>Date of harvesting:</b>	June, 2021
<b>Source of technology:</b>	IIHR, Bangalore
<b>Characteristics of technology:</b>	Dwarf & bush type early flowering (40-45 days), suitable for spring summer and rainy season, Pods are 30-35 cm. long, dark green, sof, flashy. Green pod yield is 150-175 q/ha. resistant to golden mosaic virus.
<b>Name of Crop/Enterprises:</b>	Improved Cowpea variety Kashi Kanchan
<b>Recommendations for Farmers</b>	Cowpea
<b>Recommendations for Deptt. Personnel</b>	-
<b>Feedback</b>	-

### Result : (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter			Average Cost of cultivation (Rs/ha)			Average Gross Return (Rs/ha)			Average Net Return (Rs/ha)			Benefit-Cost Ratio (Gross Return / Gross Cost)		
		FPT1	FPT2	FPT3	FPT1	FPT2	FPT3	FPT1	FPT2	FPT3	FPT1	FPT2	FPT3	FPT1	FPT2	FPT3
Assessment of cowpea variety Kashi Kanchan	Plant Height (cm)	Result Awaited														
	Yield (Q/ha)															

## Information about OFT: (Horticulture) – 22

<b>Name of Discipline</b>	Horticulture
<b>Title of on-farm trial:</b>	Assessment of Integrated Farming System approach for Doubling farmer's income of small farmers.
<b>Year/Season:</b>	2021/ Kharif –Rabi
<b>Farming situation:</b>	Irrigated
<b>Problem diagnosis:</b>	Low income of small & medium farmers.
<b>Thematic area:</b>	Income generation.
<b>No of trials:</b>	05 Nos.
<b>No. of farmers involved</b>	05 Farmers
<b>Type of OFT (Assessment/ Refinement):</b>	Assessment
<b>Details of technology selected for assessment/ refinement:</b>	
T1 – Farmers Practice-	Crop + Animal Husbandary
T2 –Recommended Practice-	Integrated farming system(Crop + Animal Husbandry + Horticulture + Enterprise)
T3- Recommended Practice-	-
<b>Date of sowing:</b>	May -2021
<b>Date of harvesting</b>	March- 2022
<b>Source of technology:</b>	IIFSR, Modipuram ,Meerut
<b>Characteristics of technology:</b>	Increase in Sources of income, Employment generation.
<b>Name of Crop/Enterprises:</b>	Enterprises
<b>Recommendations for Farmers</b>	-
<b>Recommendations for Deptt. Personnel</b>	-
<b>Feedback</b>	-

## Result : (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter			Average Cost of cultivation (Rs/ha)			Average Gross Return (Rs/ha)			Average Net Return (Rs/ha)			Benefit-Cost Ratio (Gross Return / Gross Cost)		
		FPT1	FPT2	FPT3	FPT1	FPT2	FPT3	FPT1	FPT2	FPT3	FPT1	FPT2	FPT3	FPT1	FPT2	FPT3
Assessment of Integrated Farming System approach for Doubling farmer's income of small farmers.	Increase source of Income	In Progress														
	Employment generation (no.)															

## Information about OFT: (Horticulture) – 23

<b>Name of Discipline</b>	Horticulture
<b>Title of on-farm trial:</b>	Assessment of <b>Pingali Dhanti</b> for Intercultural operation in Tomato
<b>Year/Season:</b>	2021/ Kharif –Rabi
<b>Farming situation:</b>	Irrigated
<b>Problem diagnosis:</b>	Low income of small & medium farmers.
<b>Thematic area:</b>	H&Vc. (Horticulture & Vegetable crops)
<b>No of trials:</b>	05 Nos.
<b>No. of farmers involved</b>	05 Farmers
<b>Type of OFT (Assessment/ Refinement):</b>	Assessment
<b>Details of technology selected for assessment/ refinement:</b>	
T1 – Farmers Practice-	Weeding through Khurpi
T2 –Recommended Practice-	Weeding through Pingali Dhanti
T3- Recommended Practice-	Use of weedicide (Metribuzin70wp.)
<b>Date of sowing:</b>	August- 2021
<b>Date of harvesting</b>	February- 2022
<b>Source of technology:</b>	
<b>Characteristics of technology:</b>	Effective in weed control in both Kharif and Rabi, Clean weeding and cost effective.
<b>Name of Crop/Enterprises:</b>	Tomato
<b>Recommendations for Farmers</b>	-
<b>Recommendations for Deptt. Personnel</b>	-
<b>Feedback</b>	-

## Result : (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter			Average Cost of cultivation (Rs/ha)			Average Gross Return (Rs/ha)			Average Net Return (Rs/ha)			Benefit-Cost Ratio (Gross Return / Gross Cost)		
		FPT1	FPT2	FPT3	FPT1	FPT2	FPT3	FPT1	FPT2	FPT3	FPT1	FPT2	FPT3	FPT1	FPT2	FPT3
Assessment of <b>Pingali Dhanti</b> for Intercultural operation in Tomato	Intensity of weeds/sq.mt. (Nos.)	In Progress														
	% increase in yield (q./ha.)															

## Information about OFT: (Horticulture) – 24

<b>Name of Discipline</b>	Horticulture
<b>Title of on-farm trial:</b>	Assessment of Garlic variety G- 384.
<b>Year/Season:</b>	2021-22/ Rabi
<b>Farming situation:</b>	Irrigated
<b>Problem diagnosis:</b>	Low yield of Garlic due to old varieties (local Lambrata, G-282).
<b>Thematic area:</b>	H&Vc. (Horticulture & Vegetable crops)
<b>No of trials:</b>	05 Nos.
<b>No. of farmers involved</b>	05 Farmers
<b>Type of OFT (Assessment/ Refinement):</b>	Assessment
<b>Details of technology selected for assessment/ refinement:</b>	
T1 – Farmers Practice-	Use of Variety – Lambrata
T2 –Recommended Practice-	Use of Variety G-384
T3- Recommended Practice-	Use of Variety G- 282
<b>Date of sowing:</b>	October- 2021
<b>Date of harvesting</b>	March- 2022
<b>Source of technology:</b>	NHRDF, Indore (M.P.)
<b>Characteristics of technology:</b>	Bulbs are solid, 22 – 30 cloves per bulb high yield 175 -200 q./ha
<b>Name of Crop/Enterprises:</b>	Garlic
<b>Recommendations for Farmers</b>	-
<b>Recommendations for Deptt. Personnel</b>	-
<b>Feedback</b>	-

## Result : (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter			Average Cost of cultivation (Rs/ha)			Average Gross Return (Rs/ha)			Average Net Return (Rs/ha)			Benefit-Cost Ratio (Gross Return / Gross Cost)		
		FPT1	FPT2	FPT3	FPT1	FPT2	FPT3	FPT1	FPT2	FPT3	FPT1	FPT2	FPT3	FPT1	FPT2	FPT3
Assessment of Garlic variety G- 384.	Test Weight bulb (g.)	In Progress														
	Yield (Q/ha)															

## Information about OFT: (Horticulture) – 25

<b>Name of Discipline</b>	Horticulture
<b>Title of on-farm trial:</b>	Assessment of Plant growth promoting Rhizobacteria PGPR- Bacillus subtilis in Tomato crop
<b>Year/Season:</b>	2021-22/ Rabi
<b>Farming situation:</b>	Irrigated
<b>Problem diagnosis:</b>	Low yield of tomato to due to heavy infestation of Soil born pathogen
<b>Thematic area:</b>	H&Vc. (Horticulture & Vegetable crops)
<b>No of trials:</b>	05 Nos.
<b>No. of farmers involved</b>	05 Farmers
<b>Type of OFT (Assessment/ Refinement):</b>	Assessment
<b>Details of technology selected for assessment/ refinement:</b>	
T1 – Farmers Practice-	No seed or soil treatment
T2 –Recommended Practice-	Seed Treatment with carbandazime
T3- Recommended Practice-	Seed, root & Soil treatment with Bacillus isolate BS2
<b>Date of sowing:</b>	July, 2021
<b>Date of harvesting</b>	Feb, 2022
<b>Source of technology:</b>	IIVR, Varanasi , 2010-11
<b>Characteristics of technology:</b>	-
<b>Name of Crop/Enterprises:</b>	Tomato
<b>Recommendations for Farmers</b>	-
<b>Recommendations for Deptt. Personnel</b>	-
<b>Feedback</b>	-

## Result : (Economic Performance of OFT)

Details of technology	Name of Parameter	Unit of Parameter			Average Cost of cultivation (Rs/ha)			Average Gross Return (Rs/ha)			Average Net Return (Rs/ha)			Benefit-Cost Ratio (Gross Return / Gross Cost)		
		FPT1	FPT2	FPT3	FPT1	FPT2	FPT3	FPT1	FPT2	FPT3	FPT1	FPT2	FPT3	FPT1	FPT2	FPT3
Assessment of Plant growth promoting Rhizobacteria PGPR- Bacillus subtilis in Tomato crop	No.of Infected Plants	In Progress														
	Yield (Q/ha)															

## Information about OFT: (Animal Science) - 26

<b>Name of Discipline</b>	Animal Science
<b>Title of on-farm trial:</b>	Assessment of Chelated minerals supplement on milk yield in cows
<b>Year/Season:</b>	2020-21/Winter
<b>Farming situation:</b>	Animal based agriculture is prevailing in the village
<b>Problem diagnosis:</b>	Low milk yield from cow due to lack of essential minerals and vitamins in feed
<b>Thematic area:</b>	Animal Nutrition Management
<b>No of trials:</b>	10
<b>No. of farmers involved</b>	10
<b>Type of OFT (Assessment/ Refinement):</b>	Assessment
<b>Details of technology selected for assessment/ refinement:</b>	
T1 – Farmers Practice-	Imbalance use of mineral supplements
T2 –Recommended Practice-	50 g. plain minerals & vitamins supplement/cow/day
T3- Recommended Practice-	30 g. Chelated minerals & vitamins supplement/cow/day
<b>Date of start:</b>	Sept, 2020
<b>Date of end:</b>	Feb, 2021
<b>Source of technology:</b>	NDRI, Karnal
<b>Characteristics of technology:</b>	Increase minerals use efficiency, increase milk production
<b>Name of Crop/Enterprises:</b>	Dairy
<b>Recommendations for Farmers</b>	Technology was found suitable & recommended for micro level situation
<b>Recommendations for Deptt. Personnel</b>	Technology was suitable in farming situation and dept. Personnel spread this technology to farmers
<b>Feedback</b>	Farmers were actively involved in trials and found feeding chelated minerals to milking cows' results in higher milk yield better health.

### Economic Performance-

Details of technology	Name and Unit of Parameter	Result	Average Cost of rearing (Rs/cow) for 3 month	Average Gross Return (Rs/cow) for 3 month	Average Net Return (Rs/cow) for 3 month	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	Milk yield (lit/day/cow)	7.5	10530	20250	9720	1.92
T2(Recommended Practice)	Milk yield (lit/day/cow)	7.86	10845	21222	10377	1.96
T3(Recommended Practice)	Milk yield (lit/day/cow)	8.34	10850	22518	11668	2.08

## Information about OFT: (Animal Science) - 27

<b>Name of Discipline</b>	Animal Science
<b>Title of on-farm trial:</b>	Assessment of treatment of diarrhoea in cattle and buffalo by a <b>paste made from leaves of Shisham (<i>Dalbergia sissoo</i>)</b>
<b>Year/Season:</b>	2020-21/ rainy & winter
<b>Farming situation:</b>	Animal based agriculture is prevailing in the village
<b>Problem diagnosis:</b>	Decrease in milk production and health in adult, higher mortality rate & poor growth in calves due to diarrhea
<b>Thematic area:</b>	Animal Disease Management
<b>No of trials:</b>	05
<b>No. of farmers involved</b>	10
<b>Type of OFT (Assessment/ Refinement):</b>	Assessment
<b>Details of technology selected for assessment/ refinement:</b>	
T1 – Farmers Practice-	Treatment by local pashusevak / practitioner
T2 –Recommended Practice-	Standard therapy + 500 g of Shisham leaves are ground into the paste and are mixed with 1-liter water and drenched 2-3 times a day per adult cow or buffalo
T3- Recommended Practice-	500 g of Shisham leaves are grind into the paste and are mixed with 1liter water and drenched 2-3 times a day per adult cow or buffalo
<b>Date of start:</b>	July, 2020
<b>Date of end:</b>	Feb, 2021
<b>Source of technology:</b>	IVRI, Bareilly; GBPUAT, Pantnagar
<b>Characteristics of technology:</b>	Cure diarrhea, low cost, easily available
<b>Name of Crop/Enterprises:</b>	Dairy
<b>Recommendations for Farmers</b>	Technology was found suitable & recommended for micro level situation (For severe cases of diarrhea, go for standard therapy)
<b>Recommendations for Deptt. Personnel</b>	Technology was suitable (for mild & moderate dehydration) in farming situation and dept. Personnel spread this technology to farmers
<b>Feedback</b>	Farmers were actively involved in trials and found treatment with paste made from Shisham leaves cures diarrhea in cattle and buffalo but recovery is very slow when compared with standard therapy.

### Economic Performance-

Details of technology	Name and Unit of Parameter	Result	Average Cost of treatment (Rs/animal)
T1 (Farmers Practice)	Fecal consistency (1-5 scale)	01-02	462
	Dehydration (%)	06-10	
	Recovery (Days)	02	
T2(Recommended Practice)	Fecal consistency (1-5 scale)	01	245
	Dehydration (%)	06-10	
	Recovery (Days)	02	
T3(Recommended Practice)	Fecal consistency (1-5 scale)	01-02	15
	Dehydration (%)	06-10	
	Recovery (Days)	4.8	

## Information about OFT: (Animal Science ) -28

<b>Name of Discipline</b>	Animal Science
<b>Title of on-farm trial:</b>	Assessment of Determination of efficacy of pigeon waste in showing oestrus symptoms in heifers
<b>Year/Season:</b>	2020-21/ winter
<b>Farming situation:</b>	Animal based agriculture is prevailing in the village
<b>Problem diagnosis:</b>	Anestrus is primary factor reducing reproductive efficiency of animals and causes heavy economic losses to farmers
<b>Thematic area:</b>	Animal Disease Management
<b>No of trials:</b>	05
<b>No. of farmers involved</b>	10
<b>Type of OFT (Assessment/ Refinement):</b>	Assessment
<b>Details of technology selected for assessment/ refinement:</b>	
T1 – Farmers Practice-	Treatment by local practitioners
T2 –Recommended Practice-	Inj. Receptal @ 5 ml intamuscular
T3- Recommended Practice-	Pigeon waste, mixed with jaggery, is fed to heifers 2-3 times a day
<b>Date of start:</b>	November- 2020
<b>Date of end:</b>	March- 2021
<b>Source of technology:</b>	ICAR-IVRI, Izzatnagar, GBPUAT, Pantnagar
<b>Characteristics of technology:</b>	Good response, local availability
<b>Name of Crop/Enterprises:</b>	Dairy
<b>Recommendations for Farmers</b>	Technology was not found very suitable for micro level situation.
<b>Recommendations for Deptt. Personnel</b>	Technology was not found very suitable & need to validate on larger group of population.
<b>Feedback</b>	Farmers were actively involved in trials and found feeding pigeon waste was not satisfactory.

### Economic Performance-

Details of technology	Name and Unit of Parameter	Result	Average Cost of treatment (Rs/animal)
T1 (Farmers Practice)	Animals comes in heat (%)	60	1240
	Animals conceived (%)	20	
T2(Recommended Practice)	Animals comes in heat (%)	40	280
	Animals conceived (%)	20	
T3(Recommended Practice)	Animals comes in heat (%)	20	40
	Animals conceived (%)	---	



## Information about OFT: (Animal Science ) - 29

<b>Name of Discipline</b>	Animal Science
<b>Title of on-farm trial:</b>	Assessment of Round the year green fodder production and use of cow dung as Vermi Compost
<b>Year/Season:</b>	2020-21/ Kharif, Rabi, Zaid
<b>Farming situation:</b>	Irrigated
<b>Problem diagnosis:</b>	Low return from milch animals
<b>Thematic area:</b>	Animal Feed and Fodder Management
<b>No of trials:</b>	10
<b>No. of farmers involved</b>	10
<b>Type of OFT (Assessment/ Refinement):</b>	Assessment
<b>Details of technology selected for assessment/ refinement:</b>	
T1 – Farmers Practice-	Use of green fodder up to 8 month
T2 –Recommended Practice-	Round the year green fodder production
T3- Recommended Practice-	Round the year green fodder production + Vermicompost
<b>Date of start:</b>	June, 2020
<b>Date of end:</b>	May, 2021
<b>Source of technology:</b>	IGFRI, Jhansi
<b>Characteristics of technology:</b>	Increase milk production, decrease cost of animal rearing, more return
<b>Name of Crop/Enterprises:</b>	Dairy
<b>Recommendations for Farmers</b>	Technology was found suitable & recommended for micro level situation.
<b>Recommendations for Deptt. Personnel</b>	Technology was suitable for farming situation and dept. Personnel spread this technology to the farmers rearing livestock.
<b>Feedback</b>	Farmers were actively involved during entire trial period and found round the year green fodder production reduces cost of animal rearing and milk production, also recorded higher milk production in entire lactation and thus obtained more profit. Application of vermin compost in field results higher green fodder production.

### Economic Performance-

Details of technology	Name and Unit of Parameter	Result	Average Cost of rearing(Rs/animal/year)	Average Gross Return (Rs/ha)	Average Net Return (Rs/ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	Milk Yield (Lit./day/animal)	6.65	41245	59850	18605	1.45
	Green fodder availability (qt./0.1 ha/year)	84.7				
T2(Recommended Practice)	Milk Yield (Lit./day/animal)	7.22	38325	64980	26363	1.7
	Green fodder availability (qt./0.1 ha/year)	124.3				
T3(Recommended Practice)	Milk Yield (Lit./day/animal)	7.43	38325	66870	28545	1.74
	Green fodder availability (qt./0.1 ha/year)	148				

## Information about OFT: (Animal Science) - 30

<b>Name of Discipline</b>	Animal Science
<b>Title of on-farm trial:</b>	Assessment of body weight gain in goats by Azolla feeding
<b>Year/Season:</b>	2021/Spring & Summer
<b>Farming situation:</b>	Animal based agriculture is prevailing in the village
<b>Problem diagnosis:</b>	Low body weight gain in goats due to imbalance feeding
<b>Thematic area:</b>	Animal Nutrition Management
<b>No of trials:</b>	05
<b>No. of farmers involved</b>	05
<b>Type of OFT (Assessment/ Refinement):</b>	Assessment
<b>Details of technology selected for assessment/ refinement:</b>	
T1 – Farmers Practice-	Dry fodder @ 400g + 6-8 hour grazing concentrate/day + 200 g concentrate/day/Goat
T2 –Recommended Practice-	Dry fodder @ 400g + 6-8 hour grazing+ 100 g concentrate/day/Goat + 100 g azolla (dry)
T3- Recommended Practice-	Dry fodder @ 400g + 6-8 hour grazing+ 150 g concentrate/day/Goat + 50 g azolla (dry)
<b>Date of start:</b>	Feb, 2021
<b>Date of end:</b>	July, 2021
<b>Source of technology:</b>	ICAR- CIRG Makhdoom, Mathura (UP)
<b>Characteristics of technology:</b>	Enhance growth rate
<b>Name of Crop/Enterprises:</b>	Goatery
<b>Recommendations for Farmers</b>	Technology was found suitable & recommended for micro level situation
<b>Recommendations for Deptt. Personnel</b>	Technology was suitable in farming situation and dept. Personnel spread this technology to farmers
<b>Feedback</b>	Farmers were actively involved in trials and observed higher body weight gain, better health and early age of puberty in recommended practices.

### Economic Performance-

Details of technology	Name and Unit of Parameter	Result	Average Cost of rearing (Rs/Goat) for 4 month	Average Gross Return (Rs/Goat) for 4 month	Average Net Return (Rs/Goat) for 4 month	Benefit-Cost Ratio (Gross Return / Gross Cost)
T1 (Farmers Practice)	Body Wt. gain (Kg/Goat)	6.3	4290	6960	2670	1.62
	Age of sexual maturity (Month)	11.2				
T2(Recommended Practice)	Body Wt. gain (Kg/Goat)	9.2	3970	7680	3710	1.93
	Age of sexual maturity (Month)	9.8				
T3(Recommended Practice)	Body Wt. gain (Kg/Goat)	9.8	3995	7840	3845	1.96
	Age of sexual maturity (Month)	9.6				

## Information about OFT: (Animal Science) -31

<b>Name of Discipline</b>	Animal Science
<b>Title of on-farm trial:</b>	Assessment of fermented yeast culture supplementation on augmentation of growth in Murrah buffalo heifers
<b>Year/Season:</b>	2020/rainy & winter
<b>Farming situation:</b>	Animal based agriculture is prevailing in the village
<b>Problem diagnosis:</b>	Low daily body weight gain and delayed puberty in buffalo heifers
<b>Thematic area:</b>	Animal Nutrition Management
<b>No of trials:</b>	05
<b>No. of farmers involved</b>	10
<b>Type of OFT (Assessment/ Refinement):</b>	Assessment
<b>Details of technology selected for assessment/ refinement:</b>	
T1 – Farmers Practice-	3Kg Dry fodder + green fodder as per availability + 1Kg concentrate
T2 –Recommended Practice-	Dry fodder @2 kg. + concentrate feed @2 kg + Green fodder @10 kg + 30 g Min. mixture
T3- Recommended Practice-	T2 + 24 g yeast/animal/day
<b>Date of start:</b>	June -2021
<b>Date of end:</b>	December - 2021
<b>Source of technology:</b>	ICAR-NDRI, Karnal, Haryana
<b>Characteristics of technology:</b>	Augment growth
<b>Name of Crop/Enterprises:</b>	Dairy
<b>Recommendations for Farmers</b>	Technology was found suitable & recommended for micro level situation
<b>Recommendations for Deptt. Personnel</b>	Technology was suitable in farming situation and dept. Personnel spread this technology to farmers
<b>Feedback</b>	Farmers were actively involved in trials and found feeding mineral mixture +Yeast culture results in body weight gain in heifers.

### Economic Performance-

Details of technology	Name and Unit of Parameter	Result	Average Cost of rearing (Rs/animal)
T1 (Farmers Practice)	Change in body weight (Kg) 6 month	114.6	7920
	Age at sexual maturity (month)*	Data awaited	
T2(Recommended Practice)	Change in body weight (Kg) 6 month	135.6	11070
	Age at sexual maturity (month)*	Data awaited	
T3(Recommended Practice)	Change in body weight (Kg) 6 month	151	11420
	Age at sexual maturity (month)*	Data awaited	

## Information about OFT: (Animal Science) - 32

<b>Name of Discipline</b>	Animal Science
<b>Title of on-farm trial:</b>	Assessment of Determination of efficacy of pigeon waste in showing oestrus symptoms in heifers
<b>Year/Season:</b>	2021-22
<b>Farming situation:</b>	Animal based agriculture is prevailing in the village
<b>Problem diagnosis:</b>	Anestrus is primary factor reducing reproductive efficiency of animals and causes heavy economic losses to farmers
<b>Thematic area:</b>	Animal Disease Management
<b>No of trials:</b>	05
<b>No. of farmers involved</b>	15
<b>Type of OFT (Assessment/ Refinement):</b>	Assessment
<b>Details of technology selected for assessment/ refinement:</b>	
T1 – Farmers Practice-	Treatment by local practitioners
T2 –Recommended Practice-	Inj. Receptal @ 5 ml intamuscular
T3- Recommended Practice-	Pigeon waste, mixed with jaggery, is fed to heifers 2-3 times a day
<b>Date of start:</b>	Nov, 2021
<b>Date of end:</b>	Mar, 2022
<b>Source of technology:</b>	ICAR-IVRI, Izzatnagar, GBPUAT, Pantnagar
<b>Characteristics of technology:</b>	Good response, local availability
<b>Name of Crop/Enterprises:</b>	Dairy
<b>Recommendations for Farmers</b>	-
<b>Recommendations for Deptt. Personnel</b>	-
<b>Feedback</b>	-

**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)	Animals comes in heat (%)	-	In Progress			
	Animals conceived (%)	-				
T2(Recommended Practice)	Animals comes in heat (%)	-				
	Animals conceived (%)	-				
T3(Recommended Practice)	Animals comes in heat (%)	-				
	Animals conceived (%)	-				

## Information about OFT: (Animal Science ) - 33

<b>Name of Discipline</b>	Animal Science
<b>Title of on-farm trial:</b>	Assessment of treatment of diarrhoea in cattle and buffalo by a <b>paste made from leaves of Shisham (<i>Dalbergia sissoo</i>)</b>
<b>Year/Season:</b>	2021-22
<b>Farming situation:</b>	Animal based agriculture is prevailing in the village
<b>Problem diagnosis:</b>	Decrease in milk productin and health in adult, higher mortality rate & poor growth in calves due to diarrhea
<b>Thematic area:</b>	Animal Disease Management
<b>No of trials:</b>	05
<b>No. of farmers involved</b>	15
<b>Type of OFT (Assessment/ Refinement):</b>	Assessment
<b>Details of technology selected for assessment/ refinement:</b>	
T1 – Farmers Practice-	Treatment by local pashusevak/practitioner
T2 –Recommended Practice-	Standard therapy + 500 g of Shisham leaves are ground into the paste and are mixed with 1-liter water and drenched 2-3 times a day per adult cow or buffalo
T3- Recommended Practice-	500 g of Shisham leaves are grind into the paste and are mixed with 1liter water and drenched 2-3 times a day per adult cow or buffalo
<b>Date of start:</b>	July, 2021
<b>Date of end:</b>	March, 2022
<b>Source of technology:</b>	IVRI, Bareilly; GBPUAT, Pantnagar
<b>Characteristics of technology:</b>	Cure diarrhea, low cost, easily available
<b>Name of Crop/Enterprises:</b>	Dairy
<b>Recommendations for Farmers</b>	-
<b>Recommendations for Deptt. Personnel</b>	-
<b>Feedback</b>	-

**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)	Fecal consistency (1-5 scale)	-	In Progress			
	Dehydration (%)	-				
	Recovery (Days)	-				
T2(Recommended Practice)	Fecal consistency (1-5 scale)	-				
	Dehydration (%)	-				
	Recovery (Days)	-				
T3(Recommended Practice)	Fecal consistency (1-5 scale)	-				
	Dehydration (%)	-				
	Recovery (Days)	-				

## 2.3. Information about Extension OFT:34

<b>Title</b>	Assessment of effective use of different information sources for production technology of onion & Garlic
<b>Season &amp; Year</b>	Rabi, 2020-2021
<b>Problem identified</b>	Low yield of Onion & Garlic due to poor information sources
<b>Thematic Area</b>	Information and Communication Technology
<b>Farming situation</b>	Irrigated
<b>Name of Technology under study</b>	Use of what's app for Onion & Garlic Production technology information
<b>Farmers Practice</b>	Use traditional information Sources
<b>No. of replication (Farmers)</b>	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	(%)	38.86	57.92	66.71
Adoption of Share Technology	(%)	24.75	49.70	67.25

## 2.4. Information about Home Science OFT: (Home Science) 35

<b>Title of on-farm trial:</b>	Assessment of “Milking revolving Stool with Stand” for Drudgery Reduction in Farm Women
<b>Year/Season:</b>	2021
<b>Problem diagnosis:</b>	Women were fatigued after performing milking activity
<b>Thematic area:</b> (Focus area in DFI and nutri smart initiatives)	Drudgery Reduction
<b>No of trials:</b>	01
<b>No. of farmers/farm women involved</b>	5
<b>Type of OFT (Assessment/ Refinement):</b>	Assessment
<b>Details of technology selected for assessment:</b>	
T1 – Farmers Practice-	No use of Milking revolving stool with stand
T2 –Recommended Practice-	Use of Milking Revolving Stool with Stand during milking activity
<b>Source of technology:</b>	AICRP, FRM, College of Home Science, Parbhani, Maharastra
<b>Characteristics of technology:</b>	Milking Revolving Stool with Stand reduced drudgery during milking
<b>Name of Crop/Enterprises:</b>	-
<b>Farming situation:</b>	Homestead
<b>Date of sowing:</b>	Start Date – Jan., 2021
<b>Date of harvesting:</b>	End Date – Feb., 2021
<b>Recommendations for Farmers</b>	-
<b>Recommendations for Deptt. Personnel</b>	-
<b>Feedback</b>	Women actively involved and found reduction in their fatigue, lack of muscle-skeletal problems and felt comfort in milking to animals

### ➤ Basic Information of Farm Women

S. No.	Name	Husband's Name	Category	Aadhar No.	Mobile No.	Provided Input	Cost (Rs.)
01	Mrs. Ramsabha Bai	Mr. Omprakesh Verma	OBC	224891829720	6266325419	Milking Revolving Stool with Stand	1200 Rs.
02	Mrs. Lalata Bai	Mr. Santosh Kumar Verma	OBC	444951527407	9826172030	Milking Revolving Stool with Stand	1200 Rs.
03	Mrs. Manisha Bai	Mr. Jitendra Kumar	OBC	745169698607	6263533588	Milking Revolving Stool with Stand	1200 Rs.
04	Mrs. Neelu Bai	Mr. Manoj Verma	OBC	800988049532	7722844366	Milking Revolving Stool with Stand	1200 Rs.
05	Mrs. Rookmani Bai	Mr. Narbada Prasad	OBC	246331294109	8109252644	Milking Revolving Stool with Stand	1200 Rs.

### Economic Performance: (For Drudgery Reduction)

Detail of Technology	Output * lt/hr	Est. Energy Expenditure kj/min	WHR beat/min	% reduction in drudgery	% increase in efficiency	Cardiac Cost of Work	% Saving of cardiac Cost
T <sub>1</sub> (Farmers Practices)	2.2	9.15	112.4	0	0	-	-
T <sub>2</sub> (Recommended Practices)	14.2	6.06	93	33.41	84.69	-	-
T <sub>3</sub> (Recommended Practices	-	-	-	-	-	-	-

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

### Feedback System - Feedback of the Farmers to KVK

Name of KVK	Feedback			
	Technology appropriations	Methodology used	Benefits of OFT	Future Adoption
Sehore	Women were fatigued after performing milking activity. So we provided Milking Revolving Stool with Stand for drudgery reduction of farm women.	<ul style="list-style-type: none"> <li>- Primary data collection (basic Information, Health Status, anthropometric measurement, physical activity)</li> <li>- Provided Milking Revolving Stool with Stand</li> </ul>	Under assessment it was found that beneficiaries decreased in fatigue level and they felt healthy and energetic	If beneficiaries found this technology convenient in next year also than we will adopt this technology.



## Information about Home Science OFT: (Home Science) 36

<b>Title of On-Farm Trial</b>	Assessment of ITK based Iron rich food supplements (Halwa) for anaemic children (6 month-59 Months)
<b>Year/Season</b>	2021
<b>Problem Diagnosis</b>	Anaemic children in Rural areas
<b>Thematic Area</b>	Nutritional Security
<b>No. of Trials</b>	01
<b>No. of farmers/farm women involved</b>	16
<b>Type of OFT (Assessment/Refinement)</b>	Assessment
<b>Details of Technology Selected for Assessment</b>	
<b>T<sub>1</sub> - Farmers Practice</b>	Intake low iron diet in first half day.
<b>T<sub>2</sub> – Recommended Practice</b>	Wheat Flour + Jaggery + Use iron utensils for preparation of Halwa.
<b>Characteristics of Technology</b>	Iron rich halwa reduce anaemia in children
<b>Name of Crop/Enterprises</b>	-
<b>Farming Situation</b>	Homestead
<b>Date of Sowing</b>	Start Date – March., 2021
<b>Date of Harvesting</b>	End Date – April, 2021
<b>Recommendation of Farmers</b>	-
<b>Recommendation of Department Personal</b>	-
<b>Feedback</b>	Children ate food with exitment

### Economic Performance: (For Nutritional Security )

				Nutrient Intake (Unit)								Anthropometric measurements					
Name of Product/enterprise		Per capita Consumption gm/ day		Energy (kcal)		Protein (gm)		Iron (mg)		Calcium (mg)		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	130	0	429.4	0	16.36	0	32.88	-	-	9.8	12.6	85.9	92.2	13.3	14.8

### 3. Achievements of Frontline Demonstrations (FLD)

#### 3.1 Summary of FLDS

Categories	No. of activity/Technology demonstrated	Area (ha)	Unit / Animal(no.)	Beneficiaries
Cereal	04	10	-	35
Pulses	03	11	-	115
Oilseed	03	14	-	75
Spices	-	-	-	-
Vegetable	06	7.25	-	90
Tuber	-	-	-	-
Millet	-	-	-	-
Fruit	-	-	-	-
Fibre	-	-	-	-
Flower	-	-	-	-
Fodder	01	1.0	-	05
Cash Crop	-	-	-	-
Medicinal and aromatic plants	-	-	-	-
Other	-	-	-	-
<b>Total</b>	<b>17</b>	<b>42.25</b>	<b>-</b>	<b>320</b>
<b>Enterprises (ha/Units)</b>	-	-	-	-
Agriculture Engineering	-	-	-	-
Animal Science (ha/unit)	04	-	-	25
Fisheries	-	-	-	-
Women Empowerment	-	-	-	-
Other Enterprises	02	-	-	20
<b>Total</b>	<b>06</b>	<b>-</b>	<b>-</b>	<b>45</b>
<b>Grand Total</b>	<b>23</b>	<b>42.25</b>	<b>-</b>	<b>365</b>

### 3.2 Details of FLDs on Crop implemented during Jan-2021 to Dec-2021

KVK Name	Year	Season	Thematic area	Technology demonstrated	Crop Category	Name of Crop	Name of Variety	Farming Situation (rainfed/irrigated/semi-irrigated)	Completed/Ongoing	Crop - Area (ha)	Results (q/ha)		% change	No. of farmers				
											FP (T <sub>1</sub> )	RP (T <sub>2</sub> )		SC	ST	Others	General	Total
SEHORE	2020-21	Rabi	SFM	Demonstration of STCR (targeted yield 50 q/ha) in wheat crop	Crop	Wheat	HI-8713	Irrigated	Completed	02	44.67	51.62	15.55	01	-	02	02	05
SEHORE	2020-21	Rabi	SFM	RDF as per STV + 40 Kg/ ha sulphur at the time of transplanting + foliar spray of 18:18:18 @ 2.5 kg/ ha at 30 DAT + Foliar spray 13:00:45 @ 2.5 kg. /ha 75 DAT	Crop	Onion	Prasant	Irrigated	Completed	01	187.33	209.07	11.06	-	-	-	05	05
SEHORE	2021	Kharif	INM	Demonstration of INM in Hybrid Maize crop	Crop	Maize	Hybrid	Irrigated	Completed	04	49.37	56.76	15.02	02	-	06	02	10
SEHORE	2021	Kharif	SFM	Foliar Spray of Potassium nutrient in Soybean crop	Crop	Soybean	JS- 9560	Irrigated	Completed	04	11.14	12.52	12.27	02	-	04	04	10
SEHORE	2021	Kharif	NRM	Demonstration of Bio Waste-Decompose for composting to enhance composting process	Enterprises	-	-	-	Completed	Time for Decomposition	12.2 month	3.5 month	-	08	04	20	08	40
SEHORE	2021-22	Rabi	INM	Demonstration of INM in Chickpea crop	Crop	Chickpea	RVG-202	Irrigated	Inprogress	02	In Progress			01	-	01	03	05
SEHORE	2021-22	Rabi	SFM	RDF as per STV + 40 Kg/ ha sulphur at the time of transplanting + foliar spray of 18:18:18 @ 2.5 kg/ ha at 30 DAT + Foliar spray 13:00:45 @ 2.5 kg. /ha 75 DAT	Crop	Onion	Prasant	Irrigated	Inprogress	02	In Progress			01	-	04	-	05
Sehore	2020-21	Rabi	ICM	Wheat Variety (Pusa Ujala) HI- 1605	Cereal	Wheat	HI- 1605	Restricted Irrigated	Completed	4.0	39.44	42.56	7.91	01	-	09	-	10
Sehore	2020-21	Rabi	IWM	Application of Metsulfuron + Clodinofof ai @ 64 g/ha	Cereal	Wheat	HI- 1544	Irrigated	Completed	2.0	46.27	52.68	13.85	-	-	-	05	05
Sehore	2020-21	Rabi	ICM	Wheat Variety HI- 8663 (Poushan)	Cereal	Wheat	HI-8663	Irrigated	Completed	1.0	47.47	54.87	15.58	02	-	03	-	05
Sehore	2021	Kharif	ICM	Improved variety+BMP	Cereal	Maize	AHC-2033	Irrigated	Completed	2.0	32.67	37.96	16.23	-	01	09	-	10
Sehore	2020-21	Rabi	IWM	Application of PE Herbicide Diclosulam 84 %WDG @26 g ai/ha	Oilseed	Soybean	JS-2034/9560	Irrigated	Completed	2.0	9.63	11.30	17.26	-	-	-	05	05

Sehore	2021	Rabi	ICM	Wheat Variety HI-8759 (Pusa Tejus)	Cereal	Wheat	HI- 8759	Irrigated	Ongoing	2.0	In Progress			01		09		10
Sehore	2021	Rabi	IWM	Application of Metsulfuron + Clodinofof ai @ 64 g/ha	Cereal	Wheat	HI- 1544/8759	Irrigated	Ongoing	2.0	In Progress			01	-	-	04	05
SEHORE	2020-21	Summer	IDM	Demonstration of IDM module for the management of leaf curl virus in green gram	Pulse	Green Gram	IPM-410-3	Integrated	Completed	2.0	11.97	14.51	21.22	-	05	05	-	10
SEHORE	2020-21	Rabi	IDM	Demonstration IDM module for the management of Wilt, root rot & Collar rot disease in chickpea.	Pulse	Chick pea	JAKI-9218	Rainfed	Completed	4.0	15.82	18.59	17.50	-	-	06	04	10
SEHORE	2021		Nutritional Security	Demonstration of Drumstick Crackers for Improving Haemoglobin level in Blood	Enterprises	-	-	Rainfed	Completed	-	10.05	11.09	10.3	05	-	10	05	20
SEHORE	2021		Nutritional Security	Persevered Fruits ( Mango, Guava & Aonla)	Enterprises	-	-	Rainfed	Completed	-	96.5	148	53.5	02	-	08	-	10
SEHORE	2020	Rabi	HOV	Demonstration of improved Tomato Hybrid- Arka Rakshak	Vegetable	Tomato	Arka Rakshak	Irrigated	Completed	0.5	Result Awaited			01	-	04	-	05
SEHORE	2020	Rabi	HOV	Demonstration of improved variety Garlic G-282	Veg.	Garlic	G-282	Irrigated	Completed	1.0	Result Awaited			01	-	04	-	05
SEHORE	2020	Rabi	HOV	Demonstration on Kitchen gardening in Backyard for nutritional and Livelihood security	Veg.	Round the year	Vegetable	Irrigated	Completed	0.75	Result Awaited			10	05	10	25	50
SEHORE	2021	Kharif	HOV	Demonstration of IWM Technology in Kharif Onion	Veg.	Onion	Bheema Supper	Rainfed/Irrigated	Ongoing	0.5	Result Awaited			02	-	08	-	10
SEHORE	2021	Rabi	HOV	Demonstration of improved Tomato Hybrid- Arka Rakshak	Vegetable	Tomato	Arka Rakshak	Irrigated	Ongoing	0.5	In Progress			01	-	04	-	05
SEHORE	2021	Rabi	HOV	Demonstration of improved variety Garlic G-282	Veg.	Garlic	G-282	Irrigated	Ongoing	1.0	In Progress			02	-	08	-	10
SEHORE	2021	Rabi	HOV	Demonstration on Kitchen gardening in Backyard for nutritional and Livelihood security	Veg.	Round the year	Vegetable	Irrigated	Ongoing	0.75	Result Awaited			10	05	10	25	50
SEHORE	2021	Rabi	HOV	Demo. of Integrated Management of DBM in Cabbage and Cauliflower	Ver.	Cabbage & Cauliflower	Vegetable	Irrigated	Ongoing	2.5	In Progress			02	-	08	-	10
SEHORE	2021		Soil Health Management	Demonstration of Soil Health Card Based use of Fertilizer Application in Soybean and chickpea Crops.	-	Soybean - Chick pea	Enterprises	Irrigated	Ongoing	8.0	In Progress			10	-	40	10	60

### 3.3 Economic Impact of Crop FLD

KVK Name	Technology demonstrated	Name of Crop/ Enterprise	Parameters			Average Cost of cultivation (Rs/ha)		Average Gross Return (Rs/ha)		Average Net Return (Rs/ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)	
			Name and unit of Parameter	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )
SEHORE	Demonstration of STCR in wheat crop (Targeted yield 50 q/ha) + seed inoculation with Azotobactor & PSB	Wheat	No. of effective tiller/plant	5.40	6.08	27580.00	29780.00	85985.59	99373.59	58405.59	69593.59	3.12	3.34
			No. of Grains/ ear	40.38	40.88								
			Test Weight (g)	46.34	46.96								
			Yield (q/ha)	44.67	51.62								
SEHORE	RDF as per STV + 40 Kg/ ha sulphur at the time of transplanting + foliar spray of 18:18:18 @ 2.5 kg/ ha at 30 DAT + Foliar spray 13:00:45 @ 2.5 kg. /ha 75 DAT	Onion	No. of bulbs/ sqm	50.50	50.50	67798.00	69968.00	224791.00	250882.00	156993.00	180914.00	3.32	3.59
			Average bulb weight (g)	37.46	41.82								
			Yield (qtl/ha)	187.33	209.07								
SEHORE	Demonstration of INM in Hybrid Maize crop	Hybrid Maize	No. of cobs/ plant	1.00	1.10	25249.00	26719.00	69119.00	79457.00	43869.00	52738.00	2.73	2.97
			No. of seed/ cob	337.20	347.30								
			Test weight (g)	229.30	233.50								
			Yield (qtl/ha)	49.37	56.76								
SEHORE	Foliar Spray of Potassium nutrient in Soybean crop	Soybean	No. of pods/ plant	17.04	17.95	23210.00	23710.00	42342.00	47559.00	19132.00	23849.00	1.82	2.01
			No. of grains/ pod	1.78	1.89								
			Test Weight (g)	92.46	92.79								
			Yield (qtl/ha)	11.14	12.52								
SEHORE	Demonstration of Bio Waste-Decompose for composting to enhance composting process	-	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 INM in Chickpea crop	Wheat	No. of pods/plant	-	-	<b>In Progress</b>							
			NO. of grains/pod	-	-								
			No. of Grains/ ear	-	-								
			Test Weight (g)	-	-								
SEHORE	RDF as per STV + 40 Kg/ ha sulphur at the time of transplanting + foliar spray of 18:18:18 @ 2.5 kg/ ha at 30 DAT + Foliar spray 13:00:45 @ 2.5 kg. /ha 75 DAT	Onion	No. of bulbs/ sqm	-	-	<b>In Progress</b>							
			Average bulb weight (g)	-	-								
			Yield (qtl/ha)	-	-								

SEHORE	Wheat Variety (Pusa Ujala) HI- 1605	Wheat	No. of Plants/ m <sup>2</sup>	43.15	43.23	27153. 20	28558.20	78878	8512 1	51724.	56562.	2.88	3.00
			No. of Effective tillers per hill	4.89	5.15								
			No. of grain per panical	43.06	43.30								
			Test Weight ( g )	43.39	44.17								
			Yield (qtl/ha)	39.44	42.56								
SEHORE	Demonstration of HI-8663 (Poushan) wheat variety under nutritional security	Wheat	No. of Plants/m <sup>2</sup>	43.52	43.79	27114	28614	94940	1083 74	67826	79760	3.50	3.79
			No. of Effective tillers per hill	5.58	5.90								
			No. of grain per panical	44.20	46.20								
			Test Weight (g)	44.20	46.00								
			Yield (Q/ha)	47.47	54.87								
SEHORE	Application of Metsulfuron + Clodinofof ai @ 64 g/ha	Wheat	Weed Density/m <sup>2</sup>	8.84	4.19	26789. 2	27289.2	91377	1040 47	64588	76758	3.41	3.81
			No. of Plants/ m <sup>2</sup>	44.80	44.39								
			No. of Effective tillers per hill	5.28	5.86								
			No. of grain per panical	43.80	44.40								
			Test Weight (g)	44.60	45.60								
			Yield (Q/ha)	46.27	52.68								
SEHORE	Crop Diversification through Use of Hybrid AHC-2033 + Nutrient management as per STV@ 120:60:40 N:P:K kg/ha + timely weed management and Plant protection measures.	T2- Maize/ T-1 Soybean	No.of Cobs/Pods/plant	19.47	1.00	22160	21200	43375	6174 5	21215	40545	1.96	2.91
			No. of graiins/cob/pod	1.62	306								
			Test Weight (g)	90.38	228								
			Yield (Q/ha)	10.84	41.16								
SEHORE	Pre emergence herbicide Diclosulam 84 % WDG @ 26 g/ha		Weed Density/m <sup>2</sup>	13.31	3.11	22440	21244	38540	4519 3	16100	23949	1.72	2.13
			No of Pods / Plant	15.80	18.40								
			No of seeds / pod	1.58	1.62								
			Test Weight (g)	90.34	91.18								
			Yield (Q/ha)	9.63	11.30								
SEHORE	Application of Metsulfuron + Clodinofof ai @ 64 g/ha	Wheat	-	-	-	In Progress							
SEHORE	Wheat Variety HI- 8759 (Pusa Tejus)	Wheat	-	-	-	In Progress							

SEHORE	Demonstration of IDM Module for the Management of leaf curl virus in green gram	Green Gram	Insect Incidence (%)	11.54	4.58	19455.00	19980.00	86136.12	104406.76	66681.12	84426.76	4.43	5.23
			Yield (q/ha)	11.97	14.51								
SEHORE	Demonstration of IDM Module for the Management of Wilt root rot & Collar rot disease in chickpea	Chickpea	Disease Incidence %	14.94	6.15	22153.00	21549.00	80693.83	94803.90	58540.83	73254.90	3.64	4.40
			Yield (q/ha)	15.82	18.59								
SEHORE	Improved Tomato Hybrid – Arka Rakshak	Tomato	Reduction in pesticide (%)	Result Awaited									
			Increase in yield (%)										
SEHORE	Improved Garlic variety -G-282	Garlic	Cropping intensity (%)	Result Awaited									
			Yield (q/ha)										
SEHORE	Kitchen garden for nutrition & livelihood security	Vegetable	Availability/day	Result Awaited									
			Yield (q/ha)										
SEHORE	Pre emergence (Pendimathline) + post emergence (oxiflorefen) Weedicide 40 days after transplanting	Onion	Cropping intensity (%)	Result Awaited									
SEHORE	Improved Tomato Hybrid – Arka Rakshak	Tomato	Reduction in pesticide (%)	In Progress									
			Increase in yield (%)										
SEHORE	Improved Garlic variety -G-282	Garlic	Cropping intensity (%)	In Progress									
			Yield (q/ha)										
SEHORE	Kitchen garden for nutrition & livelihood security	Vegetable	Availability/day	In Progress									
			Yield (q/ha)										
SEHORE	Integrated Management of DBM in Cabbage and Cauliflower	Cabbage & Cauliflower	Increase in yield (%)	In Progress									
SEHORE	Application of Nutrients as per recommendation of Soil Health Card	Soybean-Chickpea	Cost Saving Yield % Yield enhancement	In Progress									

### 3.4 Details of FLDs on Agriculture Engineering implemented during Jan-2021 to Dec-2021

KVK Name	Year	Season	Thematic area	Technology demonstrated	Crop/Enterprise Category	Name of Crop/Enterprise	Name of Variety/Technology/Enterprise	Farming Situation (rainfed/irrigated/semi-irrigated)	Completed/Ongoing	Crop-Area (ha) / Enterprise - No.	Results (q/ha)		% change	No. of farmers				
											FP (T <sub>1</sub> )	RP (T <sub>2</sub> )		SC	ST	Others	General	Total
SEHORE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

### 3.5 Economic Impact of Agriculture Engineering FLD

KVK Name	Technology demonstrated	Name of Crop/ Enterprise	Parameters			Average Cost of cultivation (Rs/ha)		Average Gross Return (Rs/ha)		Average Net Return (Rs/ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)	
			Name and unit of Parameter	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )
SEHORE	-	-	-	-	-	-	-	-	-	-	-	-	-

### 3.6 Details of FLDs on Animal Science implemented during Jan-2021 to Dec-2021

KVK Name	Year	Season	Thematic area	Technology demonstrated	Crop/ Enterprise Category	Name of Crop/ Enterprise	Name of Variety/Tech / Enterprise	Farmin g Situation (rainfed/irrigated/semi-irrigated)	Completed/Ongoing	Crop-Area (ha) / Enterpr - No.	Results		% change	No. of farmers				
											FP (T <sub>1</sub> )	RP (T <sub>2</sub> )		SC	ST	Others	General	Total
SEHORE	2020-21	Winter	Livestock Production Management	Buffalo calf management practices to manage calf mortality	Enterprise	Dairy	Calf management	-	Completed	10	Calf mortality=10%	00	10	01	-	07	02	10
											Body weight gain (in 3 months)= 40.8 Kg	51 Kg	25					
SEHORE	2020-21	Winter	Animal disease management	Role of Vitamin E in prevention of subclinical mastitis in Buffaloes	Enterprise	Dairy	Mastitis management	-	Completed	10	Subclinical mastitis= 20%	--	20	01	-	09	-	10
											Milk yield (Lit/day/buffalo)= 7.19	7.87	9.5					
SEHORE	2020-21	Whole year	Poultry production and management	Improved Breed for Backyard Poultry (Gramapriya)	Enterprise	Poultry	Gramapriya	Backyard poultry	Completed	10	Body weight (gram) at 6 month= 1438	1945	36.06	10	-	-	-	10
											Egg Production (No./bird/) in 6 month= 37.4	79.58	119					
SEHORE	2020-21	Winter	Livestock Production Management	Parasite Management in Lactating cows	Enterprise	Dairy	Parasite management	-	Completed	10	Milk yield (Lit/day/cow) for 3 month= 5.95	6.42	8.8	01	01	08	-	10



SEHORE	2020-21	Whole year	Employment generation	Backyard poultry farming (Gramapriya) with Azolla production	Enterprise	Poultry	Poultry+azolla	Backyard poultry	Completed	05	No. of Mandays generated= 0 day	24.6	-	03	-	02	-	05
SEHORE	2021	Summer	Poultry production and management	Role of electrolyte to reduce heat stress in poultry	Enterprise	Poultry	Heat stress management	Backyard poultry	Completed	05	Wt. gain (g) in 90 days = 102	156	52.9	-	-	05	-	05
											Egg production (No.) in 90 days = 27.6	37.8	37					
SEHORE	2021	Khari f	Animal Feed & Fodder Management	Bajra + Cowpea green fodder on production performance of lactating Buffaloes	Enterprise	Dairy	Balance feeding	irrigated	completed	05	Milk Yield (Lit./day/animal) = 6.74	7.28	7.9	-	-	05	-	05
											Milk Fat (%) = 7.22	7.4	2.5					
SEHORE	2021	Winter	Animal disease management	Role of Vitamin E in prevention of subclinical mastitis in Buffaloes	Enterprise	Dairy	Mastitis management	-	Completed	05	Subclinical mastitis (%) = 20	--	20	-	-	04	01	05
											Milk yield (Lit./day/buffalo) = 6	6.66	11.06					
SEHORE	2021	Winter	Animal Feed & Fodder Management	Role of Chelated mineral supplementation on milk yield in cows	Enterprise	Dairy	Feeding Management	-	Ongoing	10	Milk Yield (Lit./day/cow)	In Progress		01	04	05	-	10
SEHORE	2021	Year round	Animal Feed & Fodder Management	Round the year green fodder production & use of cow dung as vermin compost	Enterprise	Dairy	Green Fodder Production	irrigated	Ongoing	05	Milk Yield (Lit./day/animal)	In Progress		01	-	-	04	05
											Green fodder availability (qt./0.1 ha/year)							

### 3.7 Economic Impact of Animal Science FLD

KVK Name	Technology demonstrated	Name of Crop / Enterprise	Parameters			Average Cost of rearing (Rs./animal OR Bird)		Average Gross Return (Rs./animal OR Bird))		Average Net Return (Rs./animal OR Bird)		Benefit-Cost Ratio (Gross Return / Gross Cost)	
			Name and unit of Parameter	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )
SEHORE	Buffalo calf management practices to manage calf mortality	Dairy	Calf mortality (%)	10	00	-	-	-	-	-	-	-	-
			Body weight gain (Kg) in 3 months	40.8	51								
SEHORE	Role of Vitamin E in prevention of subclinical mastitis in Buffaloes	Dairy	Subclinical mastitis (%)	20	00	13920	14410	19413	21060	5493	6569	1.39	1.46
			Milk yield (Lit/day/buffalo) for 2 month	7.19	7.87								
SEHORE	Improved Breed for Backyard Poultry (Gramapriya)	Poultry	Body weight (gram) at 6 month	1438	1945	210	235	359.5	486	149.5	251.25	1.71	2.07
			Egg Production (No./bird/) in 6 month	37.4	79.58								
SEHORE	Parasite Management in Lactating cows	Dairy	Milk yield (Lit/day/cow) for 3 month	5.95	6.42	9180	9243	13923	15023	4743	5780	1.52	1.63
SEHORE	Backyard poultry farming (Gramapriya) with Azolla production	Poultry	No. of man days generated	00	24.6	0	3200	0	6720	-	3520	-	-
SEHORE	Role of electrolyte to reduce heat stress in poultry	Poultry	Weight Gain (g) in 90 days	102	156	155	158	241.2	333.6	86.2	175.6	1.56	2.11
			Egg production (No.) in 90 days	27.6	37.8								
SEHORE	Bajra + Cowpea green fodder on production performance of lactating Buffaloes	Dairy	Milk Yield (Lit./day/animal) for 3 months= 6.74	7.28	7.9	11700	12060	24264	26208	12564	14148	2.07	2.17
			Milk Fat (%) = 7.22	7.4	2.5								
SEHORE	Role of Vitamin E in prevention of subclinical mastitis in Buffaloes	Dairy	Subclinical mastitis (%)	20	00	13800	14360	21600	23976	7800	9616	1.57	1.67
			Milk yield (Lit/day/buffalo) for 3 month	6	6.66								
SEHORE	Role of Chelated mineral supplementation on milk yield in cows	Dairy	Milk Yield (Lit./day/cow)	Ongoing									
SEHORE	Round the year green fodder production & use of cow dung as vermin compost	Dairy	Milk Yield (Lit./day/animal)	Ongoing									
			Green fodder availability (qt./0.1 ha/year)										

### 3.8 Details of FLDs on Fishery implemented during Jan-2021 to Dec-2021

KVK Name	Year	Season	Thematic area	Technology demonstrated	Crop/Enterprise Category	Name of Crop/Enterprise	Name of Variety/Technology/Enterprise	Farming Situation (rainfed/irrigated/semi-irrigated)	Complete d/Ongoing	Crop-Area (ha) / Enterprise - No.	Results (q/ha)		% change	No. of farmers				
											FP (T <sub>1</sub> )	RP (T <sub>2</sub> )		SC	ST	Others	General	Total
SEHORE																		

### 3.9 Economic Impact of fishery FLD

KVK Name	Technology demonstrated	Name of Crop/Enterprise	Parameters			Cost of cultivation (Rs/ha)		Gross Return (Rs/ha)		Average Net Return (Rs/ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)	
			Name and unit of Parameter	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )
SEHORE													

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

KVK Name	year	Season	Thematic area	Technology demonstrated	Name of Crop/Enterprise	Name of Variety/Technology/Enterprises	Crop-Area (ha) / Enterprise - No.	Results		% change	No. of farmers				
								FP (T <sub>1</sub> )	RP (T <sub>2</sub> )		SC	ST	Others	General	Total
Sehore	2021	Khari f	Nutritional security	Demonstration of pigeon pea cultivation for nutritional security	Pigeon pea	Pigeon pea TJT-501	0.8	65.30	107.66	41.70	09	-	31	-	40
SEHORE	2021	Kharif & Rabi	H&Vc.	Demonstration on Kitchen gardening in Backyard for nutritional and Livelihood security	Vegetables	Round the year Kitchen Garden	0.75	Result Awaited			10	05	25	10	50
SEHORE	2021	Kharif & Rabi	Nutritional Security	Demonstration of Drumstick Crackers for Improving Haemoglobin level in Blood	Enterprise	Drumstick Crackers for Improving Haemoglobin level in Blood	10	35.4	38.8	9.60	13	0	7	0	20
SEHORE	2021	Kharif & Rabi	Nutritional Security	Persevered Fruits (Mango, Guava & Aonla)	Enterprise	Demonstration of Preservative Seasonal Fruits (Mango, Guava and Aon la)	10	96.5	148	53.5	02	0	06	02	10

### Economic Performance Home Science FLD: ( Drudgery Reduction) – Nil

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

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

### Economic Performance Home Science FLD: (Income Generation)

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

### Economic Performance Home Science FLD: (For value addition)

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

### Economic Performance Home Science FLD: (For Nutritional security)

KVK name	Technology demonstrated	Performance Indicator / Parameter				Nutrient Intake (Unit)								Anthropometric measurements					
		Name of Product		Per capita Consumption gm/ day		Energy (kcal)		Protein (gm)		Iron (mg)		Calcium (mg)		Increase in Weight (Kg)		Increase in Height (cm )		BMI ((Weight (Kg)/ (Height(in m) * Height(in m)))	
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2
SEHORE	Demonstration of pigeon pea cultivation for nutritional security (Var. TJT-501)	Pigeon pea	Pigeon pea	65.12	113.66	223.36	389.86	14.96	24.42	4.56	7.96	78.14	136.40	-	-	-	-	-	-
SEHORE	Consume Drumstick Crackers in Breakfast	Intake Low Iron Diet in Breakfast	Drumstick Creares	100	40	75	306	3.0	6.08	0	1.56	120	48.8	40.5	44.4	156	156	16.6	18.2
				100	40	75	306	3.0	6.08	0	1.56	120	48.8	45.6	50	155.94	155-94	18.8	20.6

SEHORE	Persevered Fruits (Mango, Guava & Aonla)	Raw Mango, Mango Pickle, Raw Guava and Aonla Pickle	Mango-Papad, Aamchoor, Jelly, Guava - Jelly, Aonla - Supari, Murabba, Gata-gat, Squesh, Candy	96.5	148	73.108	112.646	1.4014	2.1593	0.49	0.755	9.3688	14.4356	52.5	53.8	152.897	152.897	22.42995	22.88243
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### 3.11 Training and Extension activities conducted under FLD

KVK Name	Crop	Activity	No. of activities organized	Number of participants	Remarks
SEHORE	Wheat	Field day	04	108	Nutrient management in wheat crop To aware farmers about Improved agronomic technooies of wheat
SEHORE		Farmer training	07	144	
SEHORE		Training to Extension functionaries	01	25	
SEHORE	Onion	Field day	01	29	Nutrient management in Onion crop
SEHORE		Farmer training	01	29	
SEHORE		Training to Extension functionaries	01	25	
SEHORE	Hybrid Maize	Field day	02	44	INM in Hybrid Maize
SEHORE		Farmer training	02	100	
SEHORE		Training to Extension functionaries	-	-	
SEHORE	Soybean	Field day	02	49	Foliar spray of Potassium nutrient in Soybean crop
SEHORE		Farmer training	02	100	
SEHORE		Training to Extension functionaries	-	-	
SEHORE	Chickpea	Farmers Training	01	25	To aware farmers about IPM Technology
		In Service Training	01	32	
		Field Day	01	35	
SEHORE	Green Gram	Farmers Training	01	25	To aware farmers about IDM Technology
		Field Day	01	32	
SEHORE	Pigeon pea	Farmers traning	01	20	To aware farmers about Improved agronomic technooies of Pigeon pea
SEHORE		Field day	01	23	
SEHORE	Dairy	Field day	01	14	To aware about heat stress management in poultry
SEHORE	Dairy	Field day	01	22	To aware about scientific calf management
SEHORE	Dairy	Field day	01	30	To aware about management of mastitis
SEHORE	Dairy	Field day	01	23	To aware about parasite management in animals
SEHORE	Dairy	Field day	01	22	To aware about balance feeding
		Farmers training	01	16	

SEHORE	Poultry	Field day	01	20	To aware about improved poultry breed
SEHORE	Dairy	Field day	01	18	To aware about management of mastitis
		Farmers training	01	15	
SEHORE	Dairy	Farmers training	01	21	To aware about importance of minerals & vitamins
SEHORE	Dairy	Farmers training	01	25	To aware about importance of year round green fodder production

### 3.12 Details of FLD on crop hybrids.

S. No.	Name of the KVK	Name of the Crop	Name of the Hybrids	Source of Hybrid (Institute/Firm)	No. of farmers	Area in ha.
1	SEHORE	Maize	AHC-2033	Asian Hy.veg. Pvt. Ltd. Indore (M.P.)	10	4.0

## 4. Feedback System

### 4.1. Feedback of the Farmers to KVK

Name of KVK	Feedback			
	Technology appropriations	Methodology used	Benefits of OFT/FLD	Future Adoption
SEHORE	Demonstration of STCR in wheat crop (Targeted yield 50 q/ha) + seed inoculation with Azotobactor & PSB	Selected farmer trained for use of recommended dose of plant nutrient as per STV basis and and as per plant required.	Under Demo. found 15.55% yield increase due to STCR based fertilizer application as per plant required.	Technology found best for irrigated wheat growers and increase yield and income so good chance for adoption.
SEHORE	RDF as per STV + 40 Kg/ ha sulphur at the time of transplanting + foliar spray of 18:18:18 @ 2.5 kg/ ha at 30 DAT + Foliar spray 13:00:45 @ 2.5 kg. /ha 75 DAT	Selected farmers trained and involved in every activity conducted under FLDs for use of water , fertilizer application method, recommended dose of plant nutrient as per STV	Under Demo. found 209.07 q/ha yield in onion crop compare to F.P. 187.33 q/ha yield in onion 11.60% yield increase in garlic crop.	Technology found the best for Onion growers farmer and recommendation for micro level situation
SEHORE	Demonstration of INM in Hybrid Maize crop	Farmer selected who grow hybrid maize and proper trained for application of organic manure and use of plant nutrient as per STV	Under demonstration 15.02 % yield increase due to balance use of plant nutrient and use of organic manure.	Technology found the best for hybrid maize growers farmer and recommendation for micro level situation
SEHORE	Foliar Spray of Potassium nutrient in Soybean crop	Selected farmer trained and involved in every activity conducting under FLD	Foliar spray of potassium nutrient in soybean crop found effective over farmer practices	Technology found best for soybean grower and increase yield and farmer income
SEHORE	Technology tested under OFT/FLD are found appropriate with farming situation and recommended for micro level situation	Need based available to farmers assessment and demonstration. The technology compare with farmers practice.	Ass./ Demo Technologies are given higher return than the farmers practice	Farmers was seen result between farmers practice and technology. Technology given more return than farmer practice, easy applicable. Ecofriendly farmers convinced to adopt
SEHORE	Demonstration of HI-1605 (Pusa Ujala) Wheat Variety	Farmers training, individual contact, group meeting & field day	Higher yield under restricted irrigated situation	Technology found best for restricted irrigated situation (2-3 irrigation). The results attracted to farmers They found satisfy for adoption
SEHORE	Demonstration of Weed management in Wheat	Farmers training, individual contact, group meeting & field day	Higher yield and net return due to effective control of monocot & dicot weeds.	Technology is good for effective control of monocot & dicot weeds. farmers are satisfy for adoption
SEHORE	Demonstration of HI-8663 (Poshan) Wheat Variety under Nutritional Security.	Farmers training, individual contact, group meeting & field day	Higher yield with Fe rich variety for human health	Technology found best for health adopt in that situation

SEHORE	Demonstration of Hybrid Maize AHC-2033	Farmers training, individual contact, group meeting & field day	Better production and mature early than other hybrids	Technology was found convenient easy to adopt for future
SEHORE	Weed managemnt in Soybean Pre emergence herbicide Diclosulam 84 % WDG @ 26 g/ha	Farmers training, individual contact, group meeting & field day	Higher yield and net return due to effective control of monocot & dicot weeds	Technology is good for effective control of weeds at early stage of crop. farmers are satisfy for adoption
SEHORE	Assesment of soybean variety RVS 2001-18	Individual contact and group meeting	Soybean variety RVS 2001-18 is highest yield than JS 9305 and JS 9560. Farmers are react this variety is resistance to insect and disease	Technology found best for more yield. farmers are satisfy for adoption
SEHORE	Assesment Wheat variety HI-8759 (Pusa Tejus)	Individual contact and group meeting	Wheat variety HI-8759 (Pusa Tejus) is highest yield than Malavshakti and Pusa Anmol wheat variety under irrigated situation farmers are react this variety is good for higher production	This technology is appropriate with farming situation and farmer convenience for adoption
SEHORE	Assessment of body weight gain in goats by azolla feeding	Need based, Individual contact, participation in every activity	Higher body weight gain, early puberty	Technology is good & suitable for adoption
SEHORE	Fermented yeast culture supplementation on augmentation of growth in buffalo heifers	Need based, Individual contact, participation in every activity	Higher body weight gain, early puberty	Technology is good & suitable for adoption
SEHORE	Determination of efficacy of pigeon waste in showing oestrus symptoms in heifers	Need based, Individual contact, participation in every activity	Bring anestrus animals into estrus	To a Limited extent
SEHORE	Treatment of diarrhoea in cattle and buffalo by a <b>paste made from leaves of Shisham (<i>Dalbergia sissoo</i>)</b>	Need based, Individual contact, participation in every activity	Cure diarrhea	To a Limited extent
SEHORE	Chelated minerals supplement on milk yield in cows	Need based, Individual contact, participation in every activity	More milk production and higher return compare to farmer practices	Technology is simple, best, also improves animals reproduction & suitable for adoption
SEHORE	Round the year green fodder production and use of cow dung as Vermi Compost	Need based, Individual contact, participation in every activity	More milk production and higher return compare to farmer practices	Technology is good, reduces cost of milk production & suitable for adoption
SEHORE	Electrolyte to manage heat stress in poultry	Farmers training, individual contact, group meeting & field day	Higher body weight gain, more egg production and higher return compare to farmer practices.	Technology is good, reduces mortality & suitable for adoption
SEHORE	Buffalo calf management practices to manage calf mortality	Farmers training, individual contact, group meeting & field day	More weight gain & less mortality compare to farmer practices	Technology is appropriate for farming situations
SEHORE	Role of Vitamin E in prevention of subclinical mastitis in Buffaloes	Farmers training, individual contact, group meeting & field day	More milk, less incidence of mastitis compare to farmer practices	Technology is appropriate for farming situations
SEHORE	Improved Breed for Backyard Poultry (Gramapriya)	Farmers training, individual contact, group meeting & field day	More weight gain & higher egg production compare to farmer practices	Technology is appropriate for farming situations
SEHORE	Parasite Management in Lactating cows	Farmers training, individual contact, group meeting & field day	More milk production, better health compare to farmer practices	Technology is appropriate for farming situations
SEHORE	Bajra + Cowpea green fodder on production performance of lactating Buffaloes	Farmers training, individual contact, group meeting & field day	More milk compare to farmer practices	Technology is appropriate for farming situations
SEHORE	Technology are quickly spread of problem based information at appropriate time	PRA Field Visit Training Group Meeting Impact assessment through three point rating scale	Assessment technology are given higher return through use of whatsapp group and reduce time, money and cost as compare to farmers practices	Farmers are observe the yield and reduce the cost from unit of assess technology as compare to farmers practices, this technology usefull/economically acceptable they convenience for future adoption

## 4.2. Feedback from KVK to Research System.

Name of KVK	Feedback basic of OFT on Technology Tested
SEHORE	Assessment of Integrated Nutrient Management in Soybean- Chickpea Cropping System technology is appropriate.
SEHORE	Assessment of bio waste de-composer technology is appropriate.
SEHORE	Need to develop INM module as per cropping system
SEHORE	Need to develop technology for water soluble complex fertilizer as per crop for foliar spray.
SEHORE	Need to develop soil analysis based nutrient recommended technology model
SEHORE	Need to develop resistant variety against disease and insect
SEHORE	Need to develop IPM/IDM module in major insect and disease of different crop
SEHORE	Assessment of Wheat variety HI- 8759 (Pusa tejus) in irrigated situation - Technology assess the year 2019-20 and 2020-21 is appropriate for adoption by farmers
SEHORE	Assessment of Soybean variety RVS 2001-18 - Technology assess the 2019-20 and 2020-21 is appropriate for adoption by farmers
SEHORE	Assessment of Lentil variety RVL 11-6 - Technology assessment ongoing 2020-21 and ongoing current year.
SEHORE	Assessment of Chickpea variety RVG 204 - Technology assessment ongoing 2020-21 and again assess next year
SEHORE	Assessment of Wheat variety HI-1634 - Technology assessment ongoing 2020-21 and again assess next year
SEHORE	Need to develop short duration pigeon pea variety for central zone
SEHORE	Chelated minerals supplement on milk yield in cows- the technology is good.
SEHORE	Round the year green fodder production and use of cow dung as Vermi Compost- the technology is good.
SEHORE	Determination of efficacy of pigeon waste in showing oestrus symptoms in heifers- The technology is not very suitable, second year data awaited
SEHORE	Treatment of diarrhoea in cattle and buffalo by a <b>paste made from leaves of Shisham (<i>Dalbergia sissoo</i>)</b> - The technology is found suitable, second year data awaited
SEHORE	Assessment of body weight gain in goats by azolla feeding- The technology is found suitable
SEHORE	Fermented yeast culture supplementation on augmentation of growth in buffalo heifers- The technology is found suitable

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

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



## 5. TRAINING PROGRAMMES

**Table 5.1. Details of Training programmes conducted by the KVKs for Farmers**

Name of KVK	Category (F & FW /FW)	Training Type (ON C/O FC)	Category	Sub Theme	Training Title	No. of Courses	Duration (Days)	Participants							
								Gen		SC		ST		Others	
								M	F	M	F	M	F	M	F
SEHORE	F&FW	ONC	Crop Production	Weed Management	weed management in Soybean	02	01	37	-	02	-	-	-	-	-
SEHORE	F&FW	OFC	Crop Production	Weed Management	Weed management in Wheat	01	01	18	-	-	-	05	-	-	-
SEHORE	FW	OFC	Crop Production	Weed Management	Women friendly weeding equipments and their Operation	01	01	-	06	-	09	-	-	-	-
SEHORE	F&FW	ONC	Crop Production	Weed Management	Weed management in Paddy	01	01	20	-	-	-	02	-	-	-
SEHORE	F&FW	OFC	Crop Production	Crop Diversification	Impoved agronomic technologies of Maize and sorghum crop	01	01	18	-	02	-	01	-	-	-
SEHORE	F&FW	ONC	Crop Production	Integrated Crop management	Impoved agronomic technologies of soybean cultivation	01	01	55	-	5	-	10	-	-	-
SEHORE	F&FW	ONC	Crop Production	Integrated Crop management	Improved technologies for reduction cost of cultivation	01	01	19	-	03	-	-	-	-	-
SEHORE	F&FW	OFC	Crop Production	Integrated Crop management	Production technology of Black gram	02	01	-	-	-	-	22	2	-	-
SEHORE	F&FW	OFC	Crop Production	Integrated Crop management	Improved Technology for reduce cost of cultivation	02	01	23	-	-	-	-	-	-	-
SEHORE	FW	OFC	Crop Production	Others (Nutritional security)	Nutritional security through Fe & carotin rich durum wheat	01	01	-	20	-	03	-	-	-	-
SEHORE	FW	OFC	Horticulture(Spices)	Production and Management technology	Package & Practices of Garlic & Onion cultivation	01	01	5	-	3	-	2	-	15	-
SEHORE	FW	OFC	Horticulture(Spices)	Production and Management technology	Package & Practices of Kharif Onion	01	01	5	-	2	-	2	-	11	-
SEHORE	FW	OFC	Horticulture(Spices)	Production and Management technology	Package & Practices of Chilli & Tomato (Hybrid)	01	01	-	-	3	-	2	-	20	-
SEHORE	FT	OFC	Horticulture(Spices)	Production and Management technology	Package & Practices of Chilli & Tomato (Hybrid)	01	01	-	-	3	-	2	-	20	-
SEHORE	FT	OFF	Horticulture (Vegetable Crops)	Off season vegetables	Kitchen Gardening in Backyard	02	01	-	20	-	3	-	3	-	24
SEHORE	FT	OFF	Horticulture (Vegetable Crops)	Off season vegetables	Kitchen Gardening in Backyard	02	01	-	20	-	3	-	2	-	25
SEHORE	FT	OFF	Horticulture (Vegetable Crops)	Off season vegetables	Kitchen Gardening in Backyard	02	01	-	20	-	4	-	4	-	22
SEHORE	FT	OFF	Horticulture (Others)	Others (Women friendly tools)	Women friendly tools for vegetable	01	01	-	-	-	0	-	0	-	25

Name of KVK	Category (F & FW /FW)	Training Type (ON C/O FC)	Category	Sub Theme	Training Title	No. of Courses	Duration (Days)	Participants							
								Gen		SC		ST		Others	
								M	F	M	F	M	F	M	F
					growing						3		2		
SEHORE	F&FW	ONC	Soil Health and Fertility Management	Integrated Nutrient Management	Integrated Nutrient Management in Kharif Crop ( soybean, maize, paddy and arhar)	01	01	8	-	3	-	-	-	16	-
SEHORE	F&FW	OFC	Soil Health and Fertility Management	Balance Use of fertilizer	Nutrient Management in Kharif Crops ( Soybean, and Maize,)	01	01	-	-	1	-	-	-	16	-
SEHORE	F&FW	OFC	Soil Health and Fertility Management	Balance Use of fertilizer	Nutrient Management in Rabi Crops (Wheat and Chickpea)	01	01	12	-	1	-	-	-	12	-
SEHORE	F&FW	ONC	Soil Health and Fertility Management	Balance Use of fertilizer	Fertilizer Management in Rabi crop	01	01	6	-	2	-	1	-	20	-
SEHORE	F&FW	OFC	Soil Health and Fertility Management	Balance Use of fertilizer	Nutrient management in Onion and Garlic crop	01	01	2	-	3	-	-	-	19	-
SEHORE	F&FW	OFC	Soil Health and Fertility Management	Micro nutrient deficiency in crops	Micro Nutrient deficiency symptoms & management	01	01	13	-	2	-	-	-	10	-
SEHORE	F&FW	OFC	Soil Health and Fertility Management	Nutrient Use Efficiency	Importance and use of liquid biofertilizer	01	01	-	-	-	6	-	1	-	11
SEHORE	F&FW	OFC	Soil Health and Fertility Management	Nutrient Use Efficiency	Importance & use of water soluble fertilizer	01	01	9	-	3	-	-	-	13	-
SEHORE	F&FW	OFC	Soil Health and Fertility Management	Production and use of organic inputs	Soil Fertility management through composting	01	01	-	2	-	4	-	-	-	19
SEHORE	F&FW	ONC	Soil Health and Fertility Management	Production and use of organic inputs	Organic Farming	01	01	2	-	1	-	1	-	10	-
SEHORE	FT	ONC	Livestock Production and Management	Dairy Management	Breeding Management in dairy Animals	01	01	5	-	3	-	2	-	15	-
SEHORE	FW	OFF	Livestock Production and Management	Dairy Management	Clean Milk Production	01	01	-	1	-	1	-	-	-	19
SEHORE	FT	ONC	Livestock Production and Management	Dairy Management	Care of dairy animals & disease prevention in summer	01	01	8	-	6	-	1	-	15	-
SEHORE	FT	OFF	Livestock Production and Management	Animal Nutrition Management	Feeding leguminous & non leguminous green fodder in combination to lactating animals	01	01	-	-	1	-	-	-	10	5
SEHORE	FT	OFF	Livestock Production and Management	Animal Nutrition Management	Importance of minerals and vitamins for dairy animals	01	01	-	-	4	-	-	-	14	3
SEHORE	FT	ONC	Livestock Production and Management	Disease Management	Parasite Management in Animals	01	01	7	-	5	-	2	-	10	-
SEHORE	FT	OFF	Livestock Production and Management	Disease Management	Subclinical Mastitis Management in dairy Animals	01	01	3	-	-	-	-	-	12	-
SEHORE	FW	OFF	Livestock Production and Management	Disease Management	Disease Management in Animals	01	01	-	3	-	1	-	-	-	1
SEHORE	FT	OFF	Livestock Production	Disease Management	Deworming in Animals	01	01	-	-	-	-	1	-	5	-

Name of KVK	Category (F & FW /FW)	Training Type (ON C/O FC)	Category	Sub Theme	Training Title	No. of Courses	Duration (Days)	Participants							
								Gen		SC		ST		Others	
								M	F	M	F	M	F	M	F
			<b>and Management</b>									1			
SEHORE	FT	OFF	<b>Livestock Production and Management</b>	Feed & fodder technologies	Round the year green fodder production	01	01	7	1	5	-	2		10	-
SEHORE	FW	OFC	<b>Home Science/Women empowerment</b>	Women and child care	Health Care of Adolescent Girls and Children	01	01	-	02	-	10	-	-	-	13
SEHORE	FW	ONC	<b>Home Science/Women empowerment</b>	Women and child care	Balanced Diet of Pregnant Women	01	01	-	04	-	04	-	-	-	17
SEHORE	FW	OFC	<b>Home Science/Women empowerment</b>	Women Empowerment	Income Generation Activities for Empowerment of Rural Women	01	01	-	-	-	-	-	-	-	19
SEHORE	FW	ONC	<b>Home Science/Women empowerment</b>	Household food security by kitchen gardening and nutrition gardening	Nutritional Security by Kitchen Gardening	01	02	-	-	-	04	-	18	-	-
SEHORE	FW	OFC	<b>Home Science/Women empowerment</b>	Processing & cooking	Preservation of seasonal Fruits	01	01	-	-	-	08	-	-	-	16
SEHORE	FW	OFC	<b>Home Science/Women empowerment</b>	Processing & cooking	Making Drumstick Crackers	01	01	-	02	-	09	-	-	-	09
SEHORE	FT & FWT	OFC	<b>Plant Protection</b>	Integrated Disease Management	Management of Insect and Pest in Green Gram	01	01	02	-	03	-	17	-	03	-
SEHORE	FT	OFC	<b>Capacity Building and Group Dynamics</b>	Group dynamics	Cashless transaction	01	01	-	-	02	-	-	-	16	-
SEHORE	FT	OFC	<b>Capacity Building and Group Dynamics</b>	Group dynamics	Group formation and its importance	01	01	-	-	-	-	09	-	13	-
SEHORE	FT	ONC	<b>Capacity Building and Group Dynamics</b>	Others ( Agri. Extension)	Crop Insurance	01	01	-	-	02	-	-	-	19	-
SEHORE	FW	OFC	<b>Capacity Building and Group Dynamics</b>	Health management	Awareness programme on health and sanitation	01	01	-	-	06	-	-	-	13	-
SEHORE	FT	ONC	<b>Capacity Building and Group Dynamics</b>	Others ( Agri. Extension)	Pradhan Mantri Krishi Sinchayee Yojana	01	01	-	-	03	-	12	-	08	-
SEHORE	FW	OFC	<b>Capacity Building and Group Dynamics</b>	Entrepreneurial development	Role of SHG for income generation	01	01	-	-	-	09	-	-	-	08

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

Name of KVK	Category (RY)	Training Type (ONC/OFC)	Thematic Area of training	Training Title	No. of Courses	Duration (Days)	Participants							
							Gen		SC		ST		Others	
							M	F	M	F	M	F	M	F
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
SEHORE	RY	OFC	Value addition	Value Addition of Seasonal Foods	01	01	-	4	-	4	-	-	-	17
SEHORE	RY	OFC	Rural Crafts	Skill Development through Rural Craft	01	02	-	5	-	-	-	-	-	20
SEHORE	RY	OFC	Production of Organic input	Preparation and application of Bio-waste Decomposer	01	01	03	-	3	-	1	-	13	-
SEHORE	RY	ONC	Others(Soil and Water testing)	Importance and use of Soil Testing and Soil health card	01	01	4	-	2	-	2	-	17	-
SEHORE	RY	ONC	Repair and maintenance of farm machinery and implements	Repair and maintenance of farm machinery and implements	02	01	21	-	-	-	02	-	-	-
SEHORE	RY	OFC	Others(Pl. Specify) weed Management	Calculation of herbicide does and its prepraton	01	01	12	-	-	-	8	-	-	-
SEHORE	RY	ONC	Integrated farming System	Integrated Farming System for small & marginal farmers	02	03	30	-	6	-	4	-	10	-
SEHORE	RY	OFC	Integrated farming System	Integrated Farming System for small & marginal farmers	02	03	30	-	6	-	4	-	10	-
SEHORE	RY	ONC	Sheep & Goat rearing	Goat Farming	01	01- 02	-	-	12	-	10	2	4	-
SEHORE	RY	ONC	Poultry production	Commercial Poultry farming	01	01- 02	-	-	6	-	10	-	4	-
SEHORE	RY	ONC	Dairying	Calf to calving: Good management practices	01	01- 02	10	-	10	-	3	-	20	2
SEHORE	RY	OFC	Mobilization of electronic media	Role of electronic media in Agriculture	01	01	2	-	2	-	1	-	20	-
SEHORE	RY	ONC	Group dynamics	Custom hiring centre	01	01	2	-	5	-	-	-	18	-
SEHORE	RY	OFC	Others(Crop Production)	Calculation of herbicide dose & its preparation	01	01	-	-	-	-	5	-	20	-
SEHORE	RY	OFC	Home Science/Women empowerment	Value Addition of Seasonal Foods	01	01	-	22	-	-	-	-	-	03
SEHORE	RY	OFC	Home Science/Women empowerment	Skill Development through Rural Craft	01	01	-	05	-	05	-	-	-	15

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

Name of KVK	Category (IS)	Training Type (ONC/OFC)	Thematic Area of training (if other please specify name)	Training Title	No. of Courses	Duration (Days)	Participants							
							Gen		SC		ST		Others	
							M	F	M	F	M	F	M	F
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
SEHORE	IS	ONC	Integrated Nutrient Management	Fertilizer management in Rabi crop	01	01	30	-	-	-	-	-	-	-
SEHORE	IS	ONC	Productivity enhancement in field crops	Improved agronomic techniques of wheat and Chick pea	02	01	22	-	-	-	-	-	-	-
SEHORE	IS	ONC	Others (Vegetables crop)	Kitchen Gardening for nutritional and Livelihood security	01	01	-	-	-	-	-	-	-	22

Name of KVK	Category (IS)	Training Type (ONC/OFC)	Thematic Area of training (if other please specify name)	Training Title	No. of Courses	Duration (Days)	Participants							
							Gen		SC		ST		Others	
							M	F	M	F	M	F	M	F
1	2	3	4		6	7	8	9	10	11	12	13	14	15
SEHORE	IS	ONC	Women and Child care	Health Care of Children, Pregnant Women and Adolescent Girls	01	01	-	-	-	-	-	-	-	35
SEHORE	IS	ONC	Household food security	Daily Diet Plan of Human Development stage and Role of Nutritional Garden	01	01	-	-	-	-	-	-	-	25
SEHORE	IS	ONC	Others (Agri. Extension)	Information and Communication Technology in Agriculture	01	01	-	-	-	-	-	-	23	-
SEHORE	IS	ONC	Management in farm animals	Mastitis management in dairy animals	01	01	-	-	-	-	-	-	22	-
SEHORE	IS	ONC	Management in farm animals	Scientific animal feeding	01	01	-	-	-	-	-	-	30	-

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

Name of KVK	Thematic Area	Sub Theme	Training title	Name of Crop / Enterprise	Identified Thrust Area	No of Courses	Duration of training (days)	Number of Beneficiaries							
								Gen		SC		ST		Others	
								M	F	M	F	M	F	M	F
SEHORE	Income generation activities	Vermi-composting	Vermi- composting	Enterprises	Income Generation	01	05	-	-	-	-	-	-	10	-
SEHORE	Income generation activities	Production of bio-agent, bio- pesticides	Organic Farming	Enterprises	Income Generation	01	05	2	-	-	-	2	-	7	-
SEHORE	Livestock & fisheries	Sheep & goat rearing	Goatery Management	Goatery	Traditional goat farming, local breeds	01	05	-	-	-	-	03	-	07	-
SEHORE	Livestock & fisheries	Dairy farming	Dairy management	Dairy	Low income from dairy	01	05	01	-	-	-	01	-	08	-

**Table 5.5. Sponsored Training Programmes**

Name of KVK	Client (F &FW/ W/ RY/ IS)	Title	Thematic area	Sub-theme	Training Title	Duration (days)	No. of courses	No. of Participants								Sponsoring Agency	Fund received for training
								Gen		Others		SC		ST			
								M	F	M	F	M	F	M	F		
SEHORE	F&FW	SFM	Soil Fertility Management	Soil health and fertility management	Fertilizer efficiency awareness programme	01	02	25	-		-	25	-	20	-	-	-
SEHORE	F&FW	LPM	Livestock Production Management	Livestock Production Management	Capacity Building Training Programme	03	03	05	-	25	-	05	-	05	-	ATARI, Zone – IX	40,000.00
SEHORE	F&FW	SFM	Soil Fertility Management	Soil health and fertility management	Paramparagat Krishi Vikas Yojana (PKVY)	-	-	-	-	2	-	03	-	45		-	-
SEHORE	F&FW	PLP	Plant Protection	Income Generation	Mashroom Grower Training Programme	25	25	05	-	15	0	-	05	-	-	ATARI- Zone –	2,25,000.00

Nam e of KVK	Client (F &FW/F W/ RY/ IS)	Title	Thematic area	Sub-theme	Training Title	Dur atio n (day s)	No. of course s	No. of Participants								Spon soring Agency	Fund received for training
								Gen		Others		SC		ST			
								M	F	M	F	M	F	M	F		
								M	F	M	F	M	F	M	F	IX	

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

Name of KVK	Training title	Self employed after training			Number of persons employed elsewhere
		Type of units	Number of units	Number of persons employed	
SEHORE					

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

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

**Table 5.8 Subject area wise details of women farmer specific training programmes organized by KVKs during Jan-Dec-2021**

Area of Training	Jan-Dec-2021	
	Courses	Participants
Production and Management technology	01	25
Production and Management technology	01	20
Production and Management technology	01	25
Women Friendly weeding equipments and their operation	01	15
Nutritional Security through carotene rich durum wheat	01	05
Household food security by Kitchen Gardening and Nutrition Gardening	01	22
Soil Fertility management through composting	01	25
Importance and use of liquid bio fertilizer	01	20
Women and child care	01	16
Women and child care	01	26
Women Empowerment	01	19

Area of Training	Jan-Dec-2021	
	Courses	Participants
Processing & cooking	01	24
Health Management	01	19
Entrepreneurial Development	01	17
Value Addition of Seasonal Foods	01	25
Skill Development through Rural Craft	01	25

**Table 5.9 Subject area wise details of other than women farmer specific training programmes organized by KVKs during Jan-Dec-2021**

Area of Training	Jan-Dec-2021	
	Courses	Participants
Organic Farming	01	24
Integrated Nutrient Management in Kharif Crop ( soybean, maize, paddy and arhar)	01	27
Nutrient Management in Kharif Crops ( Soybean, and Maize,)	01	17
Nutrient Management in Rabi Crops (Wheat and Chickpea)	01	25
Micro Nutrient deficiency symptoms & management	01	25
Importance & use of water soluble fertilizer	01	25
Fertilizer Management in Rabi crop	01	29
Nutrient management in Onion and Garlic crop	01	24
Livestock Production and Management	08	172

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

Name of KVK	Title of the training	No. of trainees	Change in knowledge (Score)		Change in Production (q/ha)		Change in Income (Rs./ha or Rs./ year)		Impact on		
			Before	After	Before	After	Before	After	% change in knowledge, production & Income	No. of farmers/farm women adopted (no.)	No. of unit established/Ar ea expanded (ha)
SEHORE	Organic Farming	24	4	6	-	-	-	-	38 %	25	-
SEHORE	Integrated nutrient management in Kharif Crop	27	4	7	49.70	57.74	50272	59641	18.63 %	40	15
SEHORE	Nutrient Management in Kharif Crop	17	4	8	12.74	14.82	18119	23415	16.32 %	20	12
SEHORE	Nutrient Management in Rabi Crop	25	4	8	44.67	52.73	58405	71716	18.19%	24	15
SEHORE	Importance & use of water soluble fertilizer	25	4	6	9.22	10.29	13394	17364	22%	25	8
SEHORE	Fertilizer Management in Rabi crop	29	3	7	44.67	52.73	58405	71716	17%	15	40
SEHORE	Nutrient management in Onion and Garlic crop	24	2	10	187.33	209.07	156993	18091	11.60 %	20	20

SEHORE	Imroved agronomic technologies of maize	101	21	30	32.26	34.52	36390	39780	42.85% , 6.19% & 9.3%	100	60 ha
SEHORE	Weed management in wheat	25	12	18	46.27	52.68	64588	76758	50.0% , 13.85% & 18.84%	75	150 ha
SEHORE	Weed management in Soybean	25	25	40	9.63	11.30	16100	23949	60% , 17.26% & 48.75 %	500	500 ha
SEHORE	Repair and maintainace of farm machinery	23	15	25	-	-	-	-	66 %	30	45 ha
SEHORE	Goat farming	28	4	7	-	-	-	-	75	-	-
SEHORE	Commercial poultry farming	20	4	6.5	-	-	-	-	62.5	-	-
SEHORE	Calf to calving: good management practices	35	5	8	-	-	-	-	60	-	-
SEHORE	Dairy management	10	5	8	-	-	-	-	60	8	4
SEHORE	Goatery management	10	4	7	-	-	-	-	75	6	3
SEHORE	Health Care of Adolescent Girls and Children	18	3	6	-	-	-	-	50% change in Knowledge	6	-
SEHORE	Balanced Diet of Pregnant Women	50	3	8	-	-	-	-	62.5% change in Knowledge	45	-
SEHORE	Development of High Nutrient Efficiency Diet	25	4	6	-	-	-	-	33.33% change in Knowledge	13	-
SEHORE	Nutritional Security by Kitchen Gardening	22	4	8	-	-	-	-	50% change in Knowledge	18	-
SEHORE	Preservation of seasonal Fruits	13	4	7	-	-	-	-	42.87% change in Knowledge	10	-
SEHORE	Making Drumstick Crackers	25	5	8	-	-	-	-	37.5% change in Knowledge	20	-
SEHORE	Value Addition of Seasonal Foods	65	3	7	-	-	-	-	57.14% change in Knowledge	38	-
SEHORE	Skill Developement through Rural Craft	18	4	7	-	-	-	-	42.85% change in Knowledge	14	-
SEHORE	Health Care of Children, Pregnant Women and Adolescent Girls	25	5	9	-	-	-	-	44.44% change in Knowledge	17	-



## 6. EXTENSION ACTIVITIES

S. No.	Activity	No. of activities (Targeted)	No. of activities (Achieved)	Details of Participants										Remarks		
				Total		Others (Farmers)		Farmers SC		Farmers ST		Extension Officials		Purpose	Topic s	Crop Stages
				M	F	M	F	M	F	M	F	M	F			
01	Agri mobile clinic	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02	Advisory Services	20	12	103	19	68	08	25	05	07	05	03	01	-	At visit time of Farm	-
03	Animal Health Camp	04	03	68	05	52	-	10	05	-	-	06	-	Animal Diagnosis & Treatment		
04	Awareness programme	02	23	692	61	513	24	78	03	97	34	04	-	Awareness Programme	As per Action Plan & Instructions of ICAR Fertilizer Awareness Program and Soil Health, Parthenium Awareness Week & Jal Shakti Abhiyan	
05	Celebration of important days	07	10	465	130	344	88	73	27	48	15	-	-	Awareness Programme	<ul style="list-style-type: none"> <li>• World Soil Day</li> <li>• National Farmers Day</li> <li>• World Food Day</li> <li>• Kisan Mahila Diwas</li> <li>• World Environment Day</li> <li>• World Water Day</li> <li>• International Women day</li> <li>• National Science Day</li> <li>• World Honey Day</li> <li>• World Milk Day</li> </ul>	-
06	Diagnostic visits	15	21	224	-	165	-	11	-	18	-	30	-	Problem Diagnose & their suitable control measures	Infestation of Insect & Pest in wheat, Sorghum, Soybean & Maize	Crop stage
														Dignose Insect and diseases problem in Summer green gram crop and their suitable control measures	Insect and diseases problem in Summer green gram crop	Pod filling stage
														Insect and diseases problem in soybean crop	Insect and diseases management in soybean	Pod development stage
														Identification of problems in wheat crop damage due to herbicide spray	Weed managemnt	Vegetative stage
07	Exhibition	10	02	217	83	122	44	67	31	28	08	-	-	Awareness	Display of Best Technology for Farmer Observation	-
08	Exposure visits	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09	Extension literature	08	04	-	-	-	-	-	-	-	-	-	-	Awareness	Root Aphid in Wheat Crop, Stem fly in soybean crop	-
10	Ex-trainees Sammelan	04	04	90	-	83	-	05	-	02	-	-	-	Feedback of Adoption of technologies	Discuss about organic farming INM in Rabi Crop INM in Kharif Crop Production Technology in Rabi Crop	

S. No.	Activity	No. of activities (Targeted)	No. of activities (Achieved)	Details of Participants										Remarks		
				Total		Others (Farmers)		Farmers SC		Farmers ST		Extension Officials		Purpose	Topic s	Crop Stages
				M	F	M	F	M	F	M	F	M	F			
11	Farmers visit to KVK	3200	2306	229 2	120	158 6	74	466	4	94	2	146	40	-	KVK Farm Visited by Farmers	Kharif & Rabi Season
12	Farm Science Club	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	Farmers Seminar/Workshop	02	02	95	-	83	-	02	-	10	-	-	-	-	Summer Green Gram Production technology IPM in Kharif Crop	Before sowing of Crop Standing Crop
14	Field Day	27	27	570	138	406	100	79	28	58	10	27	-	Feedback & Popularization of Technology	INM in Maize crop	Maturity Stage
															Foliar spray of potassium nutrient in Soybean	Harvesting Stage
															STV based INM in soybean crop	Harvesting Stage
															Nutrient Management in Wheat crop	Harvesting Stage
															Bio-waste Decomposer	Composting Stage
															Nutrient Management in Onion crop	Maturity Stage
														Popularization of technology	Demonstration of wheat variety HI- 1605	Maturity stage
															Demonstration of weed management of wheat crop	Maturity stage
															Demonstration of wheat variety HI- 8663	Maturity stage
															Crop Diversification through hybrid maize	Maturity stage
															Demonstration of pigeon pea cultivation in wastland for nutritional security	Maturity stage
															Demonstration of weed management in soybean	Maturity stage
															Best management practices of blackgram	Maturity stage
															Buffalo Calf Management practices to reduce calf mortality	Growth
															Role of Vitamin E in prevention of Sub clinical Mastitis in buffaloes	Milking
															Back Yard Poultry farming: Gramapriaya	Egg production
															Parasite Management in lactating cows	Milking
															Role of electrolyte to reduce heat stress in poultry	Growth / Egg production
															Cowpea+ Bajra green fodder feeding	Milking
															Role of Vitamin E in prevention of Sub clinical Mastitis in buffaloes	Milking
														Popularization of Technology	Demo. of Preservative Seasonal Fruits	-
															Demo. of Drumstick Crackers	-
														participants Disseminate the technology among farming community & collect feedback	IPM in chickpea Crop	Maturity Stage
														participants Disseminate the	IPM in Green gram crop	Maturity Stage

S. No.	Activity	No. of activities (Targeted)	No. of activities (Achieved)	Details of Participants										Remarks		
				Total		Others (Farmers)		Farmers SC		Farmers ST		Extension Officials		Purpose	Topic s	Crop Stages
				M	F	M	F	M	F	M	F	M	F			
														technology among farming community & collect feedback		
														Popularization of Technology	Demonstration of Tomato & Chilli	--
															Nursery Management in Kitchen Garden	-
															Backyard in Kitchen Garden	-
15	Film Show	20	12	1235	264	815	122	231	88	189	54	-	-	Popularization of Technology	As per Topic & Programme	
16	Group Meeting	18	18	182	46	114	39	42	07	25	-	01	-	Need Assessment and Feedback	Fertilizer application as per STV	-
															Nutrient Management as per STV	-
															Diarrhoea: a serious problem	
															Control of Diseases in animals	
															Nano urea demo	-
														Awareness	Importance of Nutritional Garden	-
															Pradhan Mantri Fasal Beema Yojna	-
17	Kisan Ghosthi/Sammelan	04	04	332	14	256	-	38	04	38	10	-	-	Feedback and Popularization of Technology	Pradhan Mantri Krishi Sinchayi Yojna	-
															Rabi Krishak Sangosthi	Standing Crop
															INM in Kharif Crop	Before sowing of crop
18	Kisan Mela	01	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	Krishi Mahotsav	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	Lectures delivered as resource persons	25	30	632	45	415	10	92	15	107	20	18	-	Latest technology extension for farming community	-	-
21	Mahila Mandals conveners meetings	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	Method Demonstration	07	07	129	10	64	-	20	-	45	10	-	-	Capacity Building	Soil Sampling	-
															Preparation of Panch patti kada	-
															Method of composting	-
														Awareness about technolgy	Seed calibration	Crop sowing stage
															Herbicide calculation	Vegetativ e stage
23	Pradhanmantri phasal beema yojana	05	05	117	03	51	-	28	-	38	03	-	-	Awareness	Pradhanmantri Fasal Beema Yojna	-
24	Scientific visit to farmers field	280	232	1439	186	1007	117	184	61	226	8	22	-	Input distribution, observations, data collections	-OFT/FLD Data collection -Kitchen Garden - Swachhata	-

S. No.	Activity	No. of activities (Targeted)	No. of activities (Achieved)	Details of Participants										Remarks		
				Total		Others (Farmers)		Farmers SC		Farmers ST		Extension Officials		Purpose	Topic s	Crop Stages
				M	F	M	F	M	F	M	F	M	F			
														& Proper implementation of technology in farmers field and getting feedback	-Nutrition Awareness	
25	Self Help Group conveners meetings	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	Soil health Camp	01	01	35	-	-	-	-	-	23	12	2	-	Awareness Programme	Soil Health Camp	
27	Soil test campaigns	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	Special Day Celebration (please specify name)	02	02	-	66	-	46	-	20	-	-	-	-	Awareness	-World Breast Feeding Week -Notational Nutrition Month	
29	Interface	02	02	167	37	139	18	19	19	09	-	-	-	Popularization of Technology	Kharif Interface	Maturity of Kharif Crop
															Rabi Interface	Maturity of Rabi Crop
30	Workshop	02	02	128	05	103	05	19	-	06	-	-	-	Prepare planning and Strategies	Nutrition livelihood Security	
31	News Coverage	100	92	-	-	-	-	-	-	-	-	-	-	-	-	-
32	Radio Talk	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	T.V. Talk	10	08	-	-	-	-	-	-	-	-	-	-	-	-	-
34	SAC Meeting	02	02	56	-	56	-	-	-	-	-	-	-	-	Progress & Plant of KVK Activities	-
35	Live Telecast Programme	-	06	439	62	342	50	77	10	20	02	-	-	-	-	-
36	Swachhta Activities	52	36	406	165	315	109	39	20	52	36	-	-	Awareness on Swachhta	<ul style="list-style-type: none"> <li>Sanitation &amp; Cleaning</li> <li>Microbial based Act</li> <li>Plantation</li> <li>Agri waste Management</li> <li>Display of Banners</li> <li>Swachhta Pledge</li> <li>Swachhta Awareness</li> </ul>	
37	Others (FPO Meeting )	02	01	21	-	20	-	01	-	-	-	-	-	Capacity Building	Management & Dealing with Clients	
38	Others (Technological Week)	01	01	526	33	390	14	97	19	39	-	-	-	Awareness & Popularization of Technology	Aware to Farmers about latest Agri Technology	
39	Interaction with Progressive Farmers	01	01	23	-	20	-	02	-	01	-	-	-	-	-	-

## Mass media used for wide publicity

Name of media	Number of events	Name of channel/ Newspaper used	Place of delivery or publication	Coverage of the media ( Local/ Regional/National)
Radio talks	-			
TV talks	08	Doordarshan, 24 TV	Doordarshan, 24 TV	Mass
Newspaper coverage	92	Hari Bhumi, Dainik Bhaskar, Patrika, Nav Bharat, Nai Duniya, Kshaitij Kiran, Dainik Jagran etc.	District Level News coverage paper	Mass
Internet (Youtube)	1	-	-	-
Social media (Whats App, Facebook, Instagram, Twitter etc.)	76	Facebook & Whatsapp, Twitter	At KVK, Sewania	Mass

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

### 7.1 KVK Newsletters (Jan to Dec. 2021)

KVK Name	Period	Quarter	Number of copies printed	Number of copies distributed	Type of beneficiaries receiving the newsletter (Farmer, District/block/Panchayat Official, D.M. etc.
SEHORE	January to March 2021	Q1	1000	1000	Share in face book and whatsapp group for farmer
SEHORE	April to June 2021	Q2	1000	1000	Share in face book and whatsapp group for farmer
SEHORE	July to September 2021	Q3	1000	1000	Share in facebook and whatsapp group for farmer
SEHORE	October to December 2021	Q4	1000	1000	Share in facebook and whatsapp group for farmer

## 7.2 Literature developed/published

KVK Name	Type	Number (please don't give mass please fill number only)	Number of copies printed (please don't give mass please fill)
SEHORE	Leaflets/ Folder/ Pamphlet	-	-
SEHORE	Research Paper	02	-
SEHORE	Technical Report	06	-
SEHORE	Booklet	02	-
SEHORE	Book Chapter	01	-
SEHORE	Training Manual	04	-

## Research paper /Review paper published during Jan to Dec. 2021

Name of KVK	Title of Research/Review paper	Authors/credit line	Name of Journal	Type of journal (National/International)	NASS Rating ( 2020) /impact factor
SEHORE	Mirid Bugs (Nesidocoris cruntatus and Metacanthus pulchellus) as an emerging theat to bottle guard (Legenaria siceraria) cultivation: dynamic and management	Deepak Kushwah	Indian Journal of Agricultural Science	International	6.65
SEHORE	Assessment of Wheat Variety HI-1605 (Pusa Ujala) Under Limited Irrigation Conditions in Sehore District ff Madhya Pradesh	Devendra Patil, Jainendra Kumar Kanaujia, Sandeep Todwal and Deepak Kushwaha	Journal of Krishi vigyan	National	4.41

## 7.3 Details of Electronic Media Produced

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

## 8. Production and supply of Technological products

### 8.1 SEED production

KVK Name	Crop Category	Name of Crop	Variety (pl. give the name of variety instead of local)	Quantity (qt.)	Value (Rs.)	Provided to no. of Farmers/society	Expected area coverage (ha.)
SEHORE	Cereal	Wheat	GW- 499	38.40	126720/-	40	40 ha
		Wheat	HI- 8777	43.40	138880/-	50	40
		Wheat	DDW-47	41.81	133760/-	60	40
		Wheat	HI-1620	22.89	75537/-	30	20 ha
		Wheat	HI-8759	45.60	145920/-	52	43
Sehore	Pulses	Chickpea	RVG- 204	7.5	56250/-	15	10 ha
		Chickpea	RVG- 205	3.0	22500/-	-	6 ha
		Pigeon pea	TJT 501	1.0	10000/-	40	8 ha

### 8.2 Planting Material production

KVK Name	Major group/class	Name of Crop	Variety	Nos.	Value (Rs.)	Provided to No. of Farmers	Expected area coverage (ha.)
SEHORE	Fruit	Drumstick	PMK-1	500	5000	300	-
SEHORE		Papaya	Red Lady	1000	15000	200	-
SEHORE		Guava	Lalit	50	-	50	-
SEHORE			Shweta	50	-	50	-
SEHORE		Lemon	Seedless	50	-	20	-
SEHORE	Vegetable	Chilli	Hybrid	10000	-	500	-
SEHORE		Brinjal	Hybrid	10000	-	500	-
SEHORE		Tomato	Hybrid	10000	-	300	-
SEHORE		Onion	Bheema Supper	5000	-	500	-
SEHORE	Flower	Marigold	Hybrid	5000	-	500	-
SEHORE		Gladiolus	Hybrid	5000	-	200	-

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

\* Name of product should follow same pattern

KVK Name	List of Major Group Bio agent/Bio fertilizers/Bio Pesticides	Name of the Product	Qty (in Kg)	Qty (in No.)	Value (Rs.)	Provided to no. of Farmers	Expected area coverage (ha.), if applied
SEHORE	Bio Fertilizers	Non Symbiotic Azotobacter	-	-	-	-	-
SEHORE		Vermi compost	6000 kg	-	-	-	12
SEHORE		Azolla	540	-	2200 & Used at KVK Farm also	10	-
SEHORE		Earthworms	200	-	Used in KVK Farm	-	-
SEHORE		Compost	5000	-		-	03
SEHORE		Blue green algae	-	-		-	-
SEHORE		NADEP	18000 kg.	04		-	03
SEHORE		Sanjeewani Khad	-	-	-	-	-
SEHORE		Acetobactor	-	-	-	-	-
SEHORE		Aspergillius	-	-	-	-	-
SEHORE		Azatobactor	-	-	-	-	-
SEHORE		Azospirillum	-	-	-	-	-
SEHORE		Phosphate solublizing Bacteria	-	-	-	-	-
SEHORE		Rhizobium	-	-	-	-	-
SEHORE		Other (Decomposer)	-	-	-	-	-
SEHORE	Bio-Food	Spirulina	-	-	-	-	-
SEHORE		Honey	-	-	-	-	-
SEHORE		Any Other (pl. sp.)	-	-	-	-	-
SEHORE	Bio Pesticides	Neem extract	-	-	-	-	-
SEHORE		Neem powder	-	-	-	-	-
SEHORE		Tobacco extract	-	-	-	-	-
SEHORE		Trichoderma viride	-	-	-	-	-
SEHORE		Trichoderma harjinum	-	-	-	-	-
SEHORE		Trichogramma chilonis	-	-	-	-	-
SEHORE		Beauveria bassiana	-	-	-	-	-
SEHORE		Metarhizium anisopliae	-	-	-	-	-
SEHORE		Pseudomonas fluorescens	-	-	-	-	-
SEHORE		SINPV	-	-	-	-	-
SEHORE		HaNPV	-	-	-	-	-
SEHORE		GF1	-	-	-	-	-
SEHORE		Baco Lures	-	-	-	-	-
SEHORE		Heli Lures	-	-	-	-	-
SEHORE		Leucin Lures	-	-	-	-	-
SEHORE		Paecilomyces	-	-	-	-	-
SEHORE		Panchagavya	-	-	-	-	-
SEHORE		Verticillium	-	-	-	-	-



KVK Name	List of Major Group Bio agent/Bio fertilizers/Bio Pesticides	Name of the Product	Qty (in Kg)	Qty (in No.)	Value (Rs.)	Provided to no. of Farmers	Expected area coverage (ha.), if applied
SEHORE	Bio Agents (Tricho card)	Trichogramma chilonis	-	-	-	-	-
SEHORE		Chrysoperla carnea	-	-	-	-	-
SEHORE		Tricho card	-	-	-	-	-
SEHORE		Any other (Pl. Specify)	-	-	-	-	-
SEHORE	Bio Agents (Pyrilla parasitoids)	Ooincirtus papilionis	-	-	-	-	-
SEHORE		Epiricania melanolauca	-	-	-	-	-
SEHORE	Bio Agents(Worms)	Assinia foetida	200	-	30000.00	67	-
SEHORE		Eudrilus eugeniae	-	-	-	-	-
SEHORE		Euclnia Uginiae	-	-	-	-	-
SEHORE		Eisenia foetida	-	-	-	-	-
SEHORE		Earth worm	-	-	-	-	-
SEHORE		Any other (Vermi Wash)	-	-	-	-	-
SEHORE	Others	Mushroom spawn	-	-	-	-	-
SEHORE		Mineral Mixture	-	-	-	-	-
SEHORE		Cow dung (dry)	36500	-	36500	Used at KVK Farm	-
SEHORE		Any other (pl. specify)	-	-	-	-	-

## 8.4 Livestock and fisheries production

KVK Name	Type	Name of the animal / bird / aquatics	Breed	Type of Produce	Quantity		Value (Rs.)	No. of Beneficiaries
					unit (kg/qt./liter/no)	Qty.		
SEHORE	Dairy animals	Cow	Gir	Heifers	No	07 no.	300000.00	07
SEHORE		Calves	-	-	-	-	-	-
SEHORE		Goats	-	-	-	-	-	-
SEHORE		Buffaloes	-	-	-	-	-	-
SEHORE		Sheep	-	-	-	-	-	-
SEHORE		Breeding bull	Gir	Bull	NO.	01 no.	25000.00	-
SEHORE		Other (pl specify)	-	-	-	-	-	-
SEHORE	Poultry	Poultry	Gramapriya	Live birds	No.	80	20000.00	35
SEHORE		Japanese quail	-	-	-	-	-	-
SEHORE		Japanese quail eggs	-	-	-	-	-	-
SEHORE		Ducks	-	-	-	-	-	-
SEHORE		Turkey	-	-	-	-	-	-
SEHORE		Other	-	-	-	-	-	-
SEHORE								
SEHORE	Piggery	Piglets	-	-	-	-	-	-
SEHORE		Boar	-	-	-	-	-	-
SEHORE		Sow	-	-	-	-	-	-
SEHORE		Other (pl specify)	-	-	-	-	-	-
SEHORE	Fisheries	Indian carp						
SEHORE		Exotic carp						
SEHORE		Other (pl specify)						

## 9. Activities of Soil and Water Testing Laboratory

### 9.1 Details of soil samples analyzed during Jan to Dec. 2021 :

KVK Name	Status of establishment of Soil testing Laboratory (Y/N) and year, if yes	Soil Testing Kits till date		No of soil samples		No. of Samples analyzed		No. of Farmers benefited			No. of Villages covered	Amount realized	Soil health card distributed to the farmers by KVK (Nos)		
						by KVKs		By Department	By KVK				By Department	Through Mini Soil Testing kit	
		Collected by KVKs	Provided by Dept./ DDA	Mini Soil Testing kit	Soil testing laboratory	Mini Soil Testing kit	Soil testing laboratory								
		Sanctioned	Procured												
SEHORE	Yes & 2012	-	-	286	-		139	1576	-	139	1576	142	-	-	139

### 9.2 Details of water samples analyzed so far :

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

### 9.3 Details of Plant samples analyzed so far :

KVK Name	No. of Plant Samples analyzed	No. of Farmers	No. of Villages	Amount realized
SEHORE	-	-	-	-

## 10. Rainwater Harvesting

### 10.1. Training programmes conducted by using Rainwater Harvesting Demonstration Unit- NA

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

### 10.2. Information of Visit in Rainwater Harvesting Demonstration Unit- NA

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

### 11. Training Programmes on Micro irrigation (Drip and Sprinkler)

Name of KVK	Date	Title of the training course	Client	No. of Courses	No. of Participants								
					SC		ST		Other		General		Total
					Male	Female	Male	Female	Male	Female	Male	Female	
SEHORE	22/12/2021	PMKSY	-	01	06	-	05	-	12	-	-	-	23

### 12. Utilization of Farmers Hostel facilities – (40 Nos. of Beds)

KVK Name	Months	Year	No. of trainees/ farmers/ visitors stayed	Duration of Stay (days)	Reason for vacant farmers hostel (if any)	Accommodation available in F.H. (No. of beds)
SEHORE	(Jan- Dec. 2021)	2021	-	-	COVID- 19	40 Nos. Beds

### 13. Utilization of Staff Quarters facilities

KVK Name	Year of construction	Year of allotment	No. of quarters occupied	No. of quarters vacant	Reasons for vacant quarters, if any
SEHORE	2010-11	2010-11	04	02	-

### 14. Details of SAC Meeting during Jan to Dec. 2021

KVK Name	Date of SAC meeting 2021	No. of SAC members (only) attended	Major action points*
SEHORE	17/06/2021	30	<ul style="list-style-type: none"> <li>-KVK Aware the farmers for their doubling income through Integrated Farming System</li> <li>- KVK motivate about water conservation, soil conservation, organic farming &amp; sustainable agriculture.</li> <li>- Motivate latest Agricultural Farm Machineries &amp; tools.</li> <li>-KVK aware to farmer for Zero budget farming.</li> <li>-KVK aware to farmer for soil health card based use of fertilizer application.</li> <li>- KVK creates awareness about plantation of fruit plant and established of kitchen garden.</li> <li>-Motive about back yard poultry.</li> <li>-KVK motivates about food processing and value added product and their marketing.</li> <li>-KVK aware to farmers for safe store of produce and their management.</li> </ul>
SEHORE	06/10/2021	30	<ul style="list-style-type: none"> <li>- Aware to farmers about crop diversification.</li> <li>- Effective management of crop residues and other materials by waste decomposer &amp; NADEP composting method.</li> <li>- More extension of farm mechanization.</li> <li>- KVK Establish the Rapid composting unit for farmers.</li> <li>- KVK Provide quality planting material to farming community.</li> <li>- Promote integrated farming system.</li> <li>- KVK published their work in different journal &amp; magazine for Extension.</li> </ul>

\*Attached separate file.

**15. Footfall of farmers in KVKs (Jan. 2021 to Dec. 2021)**

Name of KVK	Footfall during 2020			
	No. of Farmers	No. of officials	No. of VIPs	Total
SEHORE	3612	183	02	3797

**16. 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	800	-	04	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	1205	3	03	34259	1049	1049
			Pest Management	1117	3	03	34259	1049	1049
			Preventive Advisory Disease Management	1306	3	03	34259	1049	1049
			Preventive Advisory Pest Management	1616	3	03	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	38	1	1	34184	1070	1070
			Drudgery Reduction	18	-	-	-	-	-
			Entrepreneurship & Income Generation	7	-	-	-	-	-
			Advisory	-	-	-	-	-	-
			Any Other (Specify)	-	-	-	-	-	-

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
	6	Horticulture	Vegetable	1457	01	01	34259	1049	1049
			Fruit	1895	01	01	34259	1049	1049
			Hi Tech Horticulture	-	-	-	-	-	-
			Any Other (Specify)	-	-	-	-	-	-
	7	Livestock	Feed and Fodder	872	-	01	34154	1049	1049
			Dairy Management	1080	-	02	34251	1049	1049
			Vaccination & Disease management	1810	-	03	34214	1049	1049

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

KVK Name	Name of scheme	Name of Agency (Central/state)	Funds received (Rs.)	Name of activities organized	Name of operational Area and acreage (ha.)	Present status (Functional/Non functional)
SEHORE	Cluster Demonstration, Oil Seed Kharif 2021	ATARI, Zone – IX, Jabalpur	67,000.00	Integrated Nutrient Management in Soybean crop as per Soil Test	Block – Asta, Sehore	25 No. of Demo
SEHORE	Cluster Demonstration, Pulses Rabi 2021	ATARI, Zone – IX, Jabalpur	81,000.00	Nutrient Management in chickpea crop	Block – Asta, Sehore	25 No. of Demo
SEHORE	Demonstration Rabi	National Fertilizer Ltd. Bhopal	15,000.00	Nutrient Management in Wheat, Chickpea & Onion crop	Block – Ichhawar & Asta	09 No. Demo.
SEHORE	Demonstration on Natural Farming	ATARI, Zone – IX, Jabalpur	14,000.00	Demonstration unit establishment at KVK Farm	KVK Farm Sewania	01 No. Demo.

### 18. Status of Contingency Utilization Jan-Dec-2021

Name of KVK	Total Contingency allotted (Rs.)	Fund used by KVKs (Rs)			Balance (Rs.)
		Activities	No of Activities	Exp (Rs)	
SEHORE	1342400.00	OFT (On Farm Testing)	24	135486.00	-
		FLD (other than CFLD)	23	187323.00	
		Training	79	45338.00	
		Extension Activities	319	103103.00	
		SAC Meeting	02	480.00	
		Others (Office Contingency)	-	315331.00	
		Others (POL)	-	372965.00	
		Others (Printing & Publication)	-	50277.00	
		Others (Other Expense)	-	132009.00	
	145529.00	Special Programme (Paramparagat Krishi Vikas Yojana)	01	80751.00	64778.00
	287760.00	Special Programme (Skill Development)	01	240086.00	47674.00
	31000.00	National Fertilizer Limited Demonstration	01	31000.00	0.0
	67500.00	CFLD's Demonstration Trails on Oilseed	01	67500.00	0.0

	243000.00	CFLD's Demonstration Trails on Pulses Demo	03	207151.00	35849.00
	22222.00	Swachhta Action Plan	02	22222.00	0.0
	200000.00	Capacity Building LPM & Dairy Farming	05	165020.00	34980.00
	14100.00	Natural Farming	01	14100.00	0.0

### 19. Status of Revolving Funds (Rs.)

KVK Name	Account No.	Opening balance on 01.01.2021 (Rs.)	Closing balance 31.12.2021 (Rs.)	Name of major source of revolving fund
SEHORE	10637865071	47605.50	229159.30	Seed sale, Orchard sale, Grain sale, Vermi compost sale, Livestock, Earth warms, Farmer hostel & Training hall charges, Institutional charges

### 20. Awards & Recognitions

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

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

Area covered under crop cafeteria (sq. meter)	Type of crop (Cereals, Pulses, Oilseeds, Vegetables, medicinal, Spices, fruits etc.)	Name of crop	Name (s) of variety	Name of best variety of concerned crop
4000 (Kharif Season)	Cereals	Paddy	Kranti, Sebhagi, P.B.-1, P.B.- 1121, P.B.- 1509	P.B.-1
		Maize	Hybrid- AHC- 2595, INDAM- 1122, PAC- 751, INDAM-1205, INDAM-1501, HIRA-1122	INDAM- 1501
	Pulses	Pigeon pea	UPAS- 120, PUSA-16, JKM-183, ASHA, TJT-501	TJT- 501
		Green gram	SHIKHA, VIRAT, IPM- 2-3	SHIKHA
		Black gram	PU-1,UTTARA, IPU-2-43	UTTARA
	Oilseeds	Soybean	RVS- 2011-1, JS-2096, JS-2029, RKS-24, PAC-1082, JS-2117, JS- 2098, JS- 20-116, JS-2053, JS- 2069, JS-9560, JS-2094, RVS-24, RVS-76, RVS- 2001-04, RVS-18, PS-15	RVS-18, PS-1569, JS-2069
		Seasamum	TKG- 22, TKG-21, TKG-55, TKG-306, TKG- 308, GTS-8	TKG- 55
4000 (Rabi Season)	Cereals	Wheat	HI-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,	HI-8769,HI 1634
	Pulses	Chickpea	RVG- 202,RVG- 203, RVG- 204, RVG-205, SHUBHRA, JAKI- 9218, VIKRAM PHULE, KAK-2, PKV-4, JKG-3, JG- 412, JG- 16, JG-11	RVG-202,RVG-204, Vlkram phule
		Lentil	JL-3 and IPL-316	IPL-316
		Pea	Kashi Nandni	Kashi Nandni
	Oilseed	Mustard	RVM-02	RVM-02

	Vegetable	Castor	NARI- 6	NARI- 6
		Linseed	JLS-9	JLS-9
		Garlic	G-282, G-384	G-282
		Fenugreek	RMT- 305	RMT- 305

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

Sr. No.	Name of KVK	Name of Farm Innovator	Name of the Innovation	Address of the farm innovator with pin code	Mobile No.
01	SEHORE	Mr. Samandar Singh Verma	Vermi composting Portable pit size - 30x30 feet	Village Suklia hansraj, Block- Ichhawar, District – Sehore (M.P.) 466115	8839283329
02	SEHORE	Mr Santosh mandloi	Seed production	Vill-kothri, The- Asta, Dist-Sehore 466114	8871453410
03	SEHORE	Mr Shivnarayan verma	Integrated farming System	Vill-Narsinghkheda, Block-Ichhawar, Dist- Sehore	6265697527
04	SEHORE	Mr. Yash Bagwaiya	Fish farming	Englishpura, Sehore (MP)	8770717229
05	SEHORE	Mr. Dinesh Verma	Marketing of A2 milk in bottle	Vill- Neelkanth, Block- N. Ganj, Distt- Sehore- 466331	9200189619
06	SEHORE	Mr. Ajay Singh	Crop Diversification	Village- Udaypura, Block-Ashta, Dist- Sehore (MP)	9753151860
07	SEHORE	Mr. Arjun Kushwaha	Mushroom Cultivation	Village-Rijhadia, Post- khedli, tehsil- rehti, Block – Budhni, Distt. - Sehore	8120434447
08	SEHORE	Mr. Sandeep Sahu	Honey Bee	Village – Chhidgoan Mojhi, Block-Nusrullaganj, distt. – Sehore Pin 466331	7024312810
09	SEHORE	Mr. Sunil Dargi	Use burnt engine oil as seed treatment	Village- gawakheda, Block – Ashta, Distt. - sehore	9630606033
10	SEHORE	Prem Singh Thakur	Seed production	Village- Ramnagar, Block- Ichhawar, Dist. Sehore (M.P.)	7389896151

\*Attached separate File

## 23. KVK interaction with progressive farmers

KVK Name	Date and month of interaction programme with progressive farmers	No. of progressive farmers participated
SEHORE	17/06/2021 SAC Meeting	02
SEHORE	31/10/2021 SAC Meeting	02
SEHORE	11/08/2021	23

## 24. Outreach of KVK

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

Intensive- OFTS, FLDS etc

Extensive- Literatures, Publications, and Awareness programmes etc.

**25. Technology Demonstration under Tribal Sub Plan on Pulses/ Programme on Harnessing Pulses/ Quality Protein Maize, if applicable.- NA**

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

\*Attached separate File

**26. KVK Ring**

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

**27. Important visitors to KVK**

Name of KVK	Name of Visitor	Date of Visit	ICAR	SAUs	Others	Remarks
SEHORE	Dr. K.S. Bhargav	15/01/2021	√	-	-	KVK Sehore is doing very good work and promoting new agriculture technologies among the farmers of district. The KVK had provided impactful technologies to the farmers.
SEHORE	Sri. R.K.Paliwal, Retd. Principle Chief Commissioner Income Tax, Bhopal		-	-	√	KVK instructional Farm excellent and demonstrated the all technologies of income generation and latest technology, Fruit plants, Soil and water conservation for farming community.

**28. Status of KVK Website during Jan to Dec. 2021**

S.No	Name of KVK	Date of start of website	Address of Website	No. of updates during 2021	No. of visitors during 2021	Flag Collected	Year Planner
01	SEHORE	2015-16	kvksehore.nic.in	05	27848	-	-

**29. Mobile Apps to be developed by KVK**

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.)
-	-	-	-	-	-	-	-



### 30. ICT based module

#### a. 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	Mushroom Producer KVK Sehore	36	Mushroom Production technologies, advisory of mushroom growers, quarries Solve
SEHORE	Honey bee KVK sehore	22	Honey bee keeping advisory to bee keeper
SEHORE	Dairy management (Veterinary Science)	90	Dairy animals related advisories, training information, solutions of queries
SEHORE	Goat & poultry farming (Veterinary Science)	91	Goat & poultry related advisories, training information, solutions of queries
SEHORE	Nutri-Smart Sehore (Home Science)	135	Nutrition related advisories, training information, solutions of queries

#### b. Information on social media by KVK

KVK	Facebook			Twitter		Instagram	
	Scientists linked	Farmers connected	No of Post	No of tweets	People following	No of share	People following
SEHORE	Mr. Sandeep Todwal Mr. Devendra Patil Mr. Deepak Kushwaha Mr. Dharmendra Dr. Vimlesh Kumar	1311	14	18	87	-	-

### 31. Status of RTI

Sr. No.	Name of KVK	No. of RTI applications received	No. of RTI appeals	Remarks
01	SEHORE	01	01	-

### 32. Status of Citizen Charter

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

### 33. Participation in HRD Programmes organized by ATARI

Name of KVK	Name of Staff	Post held	Programme attended (Nos)	Remarks	Date
SEHORE	Mr. Sandeep Todwal	Scientist(Soil Science)	02	Interface with KVK scientist for recent advance in farm mechanization	18/08/2021
				Attend Online Review Meeting of DFI	18/12/2021
SEHORE	Devendra patil	Scientist (Agronomy)	02	Zonal workshop	-

				Annual Review Progress	-
<b>SEHORE</b>	Dr. Vimlesh Kumar	Scientist, Veterinary science	01	Workshop-Fodder Technologies Research Suitable for KVK staff of MP	18/11/2021
<b>SEHORE</b>	Dharmendra Patel	Scientist (Agri. Ext)	01	28 <sup>th</sup> Zonal Workshop (Online)	-
			01	Review Workshop on Doubling Farmers Income (Online)	-

Name of KVK	Total Number of staff Attended HRD Programme organized by ATARI (nos)	Total Number of Programme attended (Nos)
<b>SEHORE</b>	<b>04</b>	<b>07</b>

#### 34. Participation in HRD Programmes organized by DES

Name of KVK	Name of Staff	Post held	Programme attended (Nos)	Remarks
SEHORE	Mr.Devendra patil	Scientist (Agronomy)	01	Online Training programme Organized By IISR, Indore
SEHORE	Dr. Vimlesh Kumar	Scientist, Veterinary science	<b>01</b>	Training- Presentation skills for professional excellence at Jhabua

#### Bio-Fertilizer

Name of KVK	Bio-Fertilizer	Quantity (kg)	Coverage of Area (ha)	No. of farmers
SEHORE	Vermicompost	6000	15	-

#### Worms Produced

Name of KVK	Worms Produced	Quantity (q)	Coverage of Area (ha)	No. of Farmers
SEHORE	<i>Eisenia fetida</i>	200	-	25

#### 35. 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)	Date
<b>SEHORE</b>	Mr. Sandeep Todwal	Scientist (Soil Science)	1	1	Krishi me nanotechnology ka upyog : nano uera	23/09/2021
<b>SEHORE</b>	Dr. Vimlesh Kumar	Scientist, Veterinary science	01	21 Days	Winter school	02/52/2021 to 22/2/2021
<b>SEHORE</b>		Scientist, Veterinary science	01	01 Day	Short Course	23/10/2021

Name of KVK	Total Number of staff Attended HRD Programmes by KVK staff (nos)	Total Number of Programmes attended (Nos)
SEHORE	02	03

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

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

### 37. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

Name of KVK	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock /technology
SEHORE	Field day	03	83	INM in Soybean crop/Parasite Management in Lactating cow & Subclinical Mastitis in Buffaloes
SEHORE	Swachhta Activities related to microbial based activities	03	77	Vermi composting technology
SEHORE	Awareness programme	01	37	Related to Poshan Maah
SEHORE	Farmers Training	01	71	Role Electronic media in Agriculture
SEHORE	Swachha Bharat Abhiyan	01	25	Agri Waste Management through Bio-waste De composture-
SEHORE	Others (Rural Youth Training)	02	52	Waste Management techniques and use of bio- pesticides in cucurbits crops.
SEHORE	Others (In- Service Traiining)	-	-	-
SEHORE	Others (Farmer Seminar)	01	60	Related to crop (Wheat, Chickpea, Garlic and Chickpea)
SEHORE	Others (Sangosthi)	01	66	Role of farm women in agriculture

### 38. INTERVENTIONS ON DROUGHT MITIGATION – NA

#### Introduction of alternate crops/varieties

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

#### Farmers-scientists interaction on livestock management

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

### Animal health camps organized

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

### Seed distribution in drought hit area

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

### Seedlings and Saplings distributed - Nil

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

### Bio-control Agents

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

### Bio-Fertilizer

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

### Worms Produced

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

### Large scale adoption of resource conservation technologies

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

## Awareness campaign

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

## 39. Information for TSP Jan-Dec-2021- NA

Sl. No.	K V K	Farmer Training		Women Farmer Training		Rural Youths		Extension Personnel		Number of farmers involved			Partici pants in extensi on activiti es (No.)	Produ ction of seed (q)	Produ ction of Planti ng materi al (Num ber in lakh)	Produ ction of Livest ock strains (Num ber in lakh)	Produ ction of fingerl ings (Num ber in lakh)	Testing of Soil, water, plant, manure s samples (Numbe r)
		No. of Trainin gs/Demos	No. of Farmer s	No. of Trainings/ Demos	No. of Women Farmer s	No. of Trainings/ Demos	No. of You ths	No. of Trainings/ Demos	No. of Ext. Per son	On - far m tri als	Front line demo s	Mobi le agro-adv isory to farm ers						

## 40. Information for SCSP Jan-Dec-2021- NA

Sl. No.	K V K	Farmer Training		Women Farmer Training		Rural Youths		Extension Personnel		Number of farmers involved			Particip ants in extensio n activitie s (No.)	Prod uction of seed (q)	Produ ction of Planti ng materi al (Num ber in lakh)	Produ ction of Livest ock strains (Num ber in lakh)	Produ ction of fingerl ings (Num ber in lakh)	Testing of Soil, water, plant, manure s samples (Numbe r)
		No. of Trainin gs/Demos	No. of Farmer s	No. of Trainings s/Demos	No. of Wome n Farmer s	No. of Trainings /Demos	No. of You ths	No. of Training s/Demos	No. of Ext. Pers on	On- far m tri als	Front line demo s	Mobil e agro-adv isory to farme rs						

## 41. Information for KSHAMTA Jan-Dec-2021- NA

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

## 42. Activities proposed in Sansad Adarsh Gram

### Information about Sansad Adarsh Gram- Nil

Name of KVK	Block	Village
SEHORE	Sehore	Khandwa

### 1. Technologies to be Demonstrated

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

### 2. Extension Activities

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

### 3. Training Programme

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

### 43. Activities in DFI Village during Jan-Dec-2021

#### Information about DFI Village-

Name of KVK	Block	Name of DFI Village	Total geographical area (ha)	House hold	Population
SEHORE	Sehore	Bijlon	1066.057	424	2380

#### 1. Technologies Assessed (OFT) in DFI Village

Name of KVK	Thematic area	Name of Intervention	No. of Activity	Area (ha)	No. of beneficiaries
SEHORE	Increase in productivity of crops	-	-	-	-
SEHORE	Increase in production of livestock	Body weight gain in goats by azolla feeding	01	-	05
SEHORE	Increase in production of livestock	Determination of efficacy of pigeon waste in showing oestrus symptoms in heifers	01	-	02
SEHORE	Improvement in efficiency of input use (cost saving)	Assessment of Foliar application of water soluble plant nutrient and micronutrient Zn & B on yield and quality of Tomato.	01	0.45	05
		Assessment of Nano- Nitrogen technology in wheat crop	01	02	05
SEHORE	Increase in crop intensity	-	-	-	-
SEHORE	Diversification towards high value crops	-	-	-	-
SEHORE	Improved price realization by farmers and market linkage	-	-	-	-

#### 2. Technologies Demonstrated (FLD) in DFI Village

Name of KVK	Thematic area	Name of Intervention	No. of Activity	Area (ha)	No. of beneficiaries
SEHORE	Increase in productivity of crops	Weed management in wheat	01	4.0	05
SEHORE		Demonstration of Weed managemnt in Soybean	01	2.0	05
SEHORE	Increase in production of livestock	Demonstration of electrolytes to reduce heat stress in Poultry	01	-	05
	Increase in production of livestock	Role of Vitamin- E in prevention of sub clinical mastitis in Buffaloes	01	-	05
SEHORE	Other Enterprises (activity in no. of Unit/Enterprise)	Demonstration of Bio Waste-Decompose for composting to enhance composting process	01	-	10
SEHORE	Improvement in efficiency of input use (cost saving)	Foliar spray of potashium nutrient in soybean crop	01	04	05
SEHORE	Increase in crop intensity				
SEHORE	Diversification towards high value crops	Demonstration of Hybrid maize	01	2.0	05
SEHORE	Improved price realization by farmers and market linkage	Demonstartion of pigeon pea cultivation in wastland for nutritional security	01	0.2	10

### 3. Training Programme conducted in DFI 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	Income generation activity for empowerment of rural women	01	01	-	-	-	-	-	-	-	19	19
SEHORE	Value Addition of seasonal foods	01	01	-	22	-	-	-	-		3	25
SEHORE	Improved Technology for reduce cost of cultivation	02	01	19	-	03	-	-	-	-	-	22
SEHORE	Weed management in soybean	01	01	15	-	02	-	-	-	-	-	17
SEHORE	Importance and use of water soluble fertilizer	01	01	09	-	03	-	-	-	13	-	25
SEHORE	Subclinical Mastitis Management in dairy Animals	01	01	03	-	-	-	-	-	12	-	15
SEHORE	Cashless Transaction	01	01	12	-	-	-	-	-	07	-	19
SEHORE	Income generation activity for empowerment of rural women	01	01	-	-	-	-	-	-	-	19	19
SEHORE	Value Addition of seasonal foods	01	01	-	22	-	-	-	-		3	25

### 4. Extension Activities in DFI Village

Name of KVK	Activity	No. of activities	SC		ST		Other		Officials		Total
			M	F	M	F	M	F	M	F	
SEHORE	Field day	6	12	-	2	-	92	13	3	-	139
SEHORE	Field visit	11	14	-	1	-	87	-	-	-	106
SEHORE	Method demonstration	2	4	-	-	-	26	-	1	-	31
SEHORE	Group meeting "Foliar spray on nano urea in wheat crop"	2	4	-	-	-	25		2	-	30
SEHORE	Animal health camp	1	-	-	-	-	15	-	3	-	18
SEHORE	Parthenium eradication	1	1	-	1	-	18	-	-	-	20
SEHORE	Celebrate World Food Day	1	2	1	1	1	35	-	-	-	40
SEHORE	Swachhta Activities	3	4	5	1	3	27	11	2	-	53
SEHORE	World Breast Feeding Week	1	-	-	-	-	-	16	1	-	16



#### 44. Activities in Nutri-Smart Village during Jan-Dec-2021

##### Information about Nutri-Smart Village

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

##### 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 <sup>2</sup> )	-	-	-	-
SEHORE	Bio-fortified Crops (activity in no. of Unit) (ha)	Assessment of Wheat variety HI-1634 (Pusa Ahilya)	01	1.0	05
SEHORE	Value addition (activity in no. of Unit/Enterprise)	-	-	-	-
SEHORE	Other Enterprises (activity in no. of Unit/Enterprise)	-	-	-	-
SEHORE	Income generation (activity in no. of Unit/Enterprise)	Assessment of Vegetable Micronutrients Mixture on yield of Garlic crop.	01	0.75	05
SEHORE	Drudgery reduction (activity in no. of Unit/Enterprise)	Assessment on use of milking revolving Stool with Stand for Drudgery Reduction	01	-	05
SEHORE	Other Enterprises (activity in no. of Unit/Enterprise)	Assessment of fermented yeast culture supplementation on augmentation of growth in Murrah buffalo heifers	01	-	05
SEHORE		Assessment of control of diarrhoea in cattle and buffalo by a <b>paste made from leaves of Shisham (<i>Dalbergia sissoo</i>)</b> .	01	-	05
SEHORE		Assessment of determination of efficacy of pigeon waste in showing oestrus symptoms in heifers.	01	-	05
SEHORE	Nutritional Security	Assessment of ITK based Iron rich food supplements (Halwa) for anaemic children (6 month-59 Months)	01	-	08

##### 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 <sup>2</sup> )	-	-	-	-
SEHORE	Bio-fortified Crops (activity in no. of Unit) (ha)	Demonstration of Wheat variety HI 8663 (Poushan) for Nutritional security.	02	2.0 ha	05
SEHORE	Value addition (activity in no. of Unit/Enterprise)	-	-	-	-
SEHORE	Other Enterprises (activity in no. of Unit/Enterprise)	-	-	-	-
SEHORE	Drudgery reduction (activity in no. of Unit/Enterprise)	-	-	-	-
SEHORE	Other-Nutritional Security (activity in no. of Unit) (m <sup>2</sup> )	Pigeon pea cultivation in wasteland for nutritional security	02	0.2 ha	20
SEHORE	Income generation (activity in no. of Unit/Enterprise)	Demonstration of INM in Hybrid Maize	01	02	05
SEHORE	Other Enterprises (activity in no. of Unit/Enterprise)	Demonstration of Bio Waste-Decompose for composting to enhance	01	-	10

		composting process			
SEHORE	Crop Production (activity in no. of Unit/Enterprise)	Demonstration of Nutrient Management in onion crop	01	02	05
SEHORE	Other Enterprises (activity in no. of Unit/Enterprise)	Role of Chelated minerals supplements on milk yield in cows	01	-	05
SEHORE	Other Enterprises (activity in no. of Unit/Enterprise)	Bajra + Cowpea green fodder on production performance of lactating Buffaloes	01	-	05
SEHORE	Income generation (activity in no. of Unit/Enterprise)	Improved breed for backyard poultry- Gramapriya	01	-	10
SEHORE	Nutritional Security	Demonstration of Preservative Seasonal Fruits (Mango, Aonla and Guava)	01		05
SEHORE		Demonstration of Drumstick Crackers for Improving Hemoglobin level in Blood	02		30

### 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	Nutritional Security through carotene rich wheat	01	01	-	20	-	05	-	-	-	-	25
SEHORE	Nutrient management in kharif maize and soybean crop	01	01	-	-	01	-	-	-	-	16	17
SEHORE	Nutrient management in Onion and Garlic	01	01	03	-	02	-	-	-	19	-	24
SEHORE	Clean Milk Production	01	01	-	01	-	01	-	-	-	19	21
SEHORE	Feeding leguminous & non leguminous green fodder in combination to lactating animals	01	01	-	-	01	-	-	-	10	05	16
SEHORE	Importance of minerals and vitamins for dairy animal	01	01	-	-	04	-	-	-	14	03	21
SEHORE	Pradhan Mantri Fasal Beema Yojna	01	01	-	-	04	-	-	-	16	-	20
SEHORE	Awareness on health and Sanitation	02	01	-	06	-	03	-	-	16	-	25
SEHORE	Preservation of Seasonal fruits	01	01	-	-	-	06	-	-	-	19	25
SEHORE	Health Care of Adolescent Girls and children	01	01	-	-	-	04	-	-	-	14	18
SEHORE	Making Drumstick Crackers	01	01	-	02	-	09	-	-	-	09	20

### 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	10	26	25	5	2	131	65	6	-	260
SEHORE	Field visit	16	35	-	3	-	115	9	-	-	162
SEHORE	Group meeting	4	4	5	-	-	31	15	-	-	55
SEHORE	Animal Health Camp	1	10	5	-	-	25	-	2	-	42
SEHORE	Kisan Mahila Diwas	1	-	11	-	-		32	-	-	43
SEHORE	Swachhta Activites	8	6	11	3	4	25	43	-	4	86

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

<b>Name of the KVK</b>	SEHORE
<b>TITLE</b>	<b>Demonstration of Integrated Nutrient Management in Hybrid Maize</b>
<b>Introduction</b>	Mr. Dinesh Verma S/o Sri Premnarayan Verma holding 2.4 ha areas of land with all the facilities of crop cultivation. They follow Maize–Wheat, Soybean- Chickpea cropping System from last many years in irrigated situation. The yield of Maize was 68.61 q/ha and it was economically viable as compare to other crop.
<b>KVK intervention</b>	<b>Mr Dinesh Verma was attended regular KVK activities and follow advisory of scientist of kvks</b>
<b>Output</b>	Mr. Dinesh Verma got Yield 68.61 qtl/ha and yield increase 22.12 % with higher return
<b>Outcome</b>	Mr. Dinesh Verma got Net profit 75615.00 by demonstrated technology whereas own practice have got net Profit 59420.00 and B:C ratio was 3.76 in demonstrated technology.
<b>Impact</b>	Mr. Dinesh Verma was convince to adopt demonstrated technology and spread other farming communities.

**44. (b) Case study / Success Story– (best two only in the following format in separate file attached )**

<b>Name of the KVK</b>	SEHORE
<b>TITLE</b>	<b>Best Management Practices in Summer Green Gram</b>
<b>Introduction</b>	Sri Rajesh Dongalia and other summer Green gram growers farmers of Kankariya, Tehsil- Nasrullaganj, Dist. Sehore (M.P.) had undergone Cluster Front Line demonstration through Introduction of summer green gram production technologies during summer season 2021.conducted by CRDE- Krishi Vigyan Kendra, Sewania, Dist. Sehore (M.P.). Village- Kankariya was selected by Krishi Vigyan Kendra, Sehore for Summer green gram crop sowing. Mr. Rajesh is small land holding Farmer having only 1.6 ha. of land with all the facilities of crop cultivation. He follow only soybean- wheat- green gram and Soybean- chickpea- green gram cropping pattern with irrigated situation.
<b>KVK intervention</b>	<b>Mr Rajesh Dongalia was attended regular KVK activities and follow advisory of scientist of kvks</b>
<b>Output</b>	Mr. Dinesh Verma got Yield 17.61 qtl/ha and yield increase 24.89 % with higher return
<b>Outcome</b>	Mr. Rajesh Dongalia got Net profit 99872.00 by demonstrated technology whereas own practice have got net Profit 78443.00 and B:C ratio was 4.97 in demonstrated technology.
<b>Impact</b>	Mr. Rajesh Dongalia was convince to adopt demonstrated technology and spread other farming communities.

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

<b>Sr. no.</b>	<b>Name of KVK</b>	<b>No. of success stories</b>	<b>No. of case studies</b>
01	SEHORE	30	-

(Sandeep Todwal)  
Head,  
Krishi Vigyan Kendra, Sehore (M.P.)