

# **ANNUAL PROGRESS REPORT**

**April 2013 to March 2014**

**KRISHI VIGYAN KENDRA MANDLA**

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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. Gray 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 Horse gram, 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 Ladies finger).  
Fruits :- Mango, Guava, Custard apple, Pear etc.  
Spices :- Black Peeper, Turmeric, Ginger, Cardamom etc.

## REPORTING PERIOD – April 2013 to March 2014

### Summary of KVK Annual Report (Quantifiable Achievement) for the year 2013-14

S.N.	Quantifiable Achievement	Number	Beneficiaries (nos.)	
<b>1</b>	<b>On Farm Testing</b>			
	Proposed OFT	14	70	
	On Going OFT	-	-	
	Technologies assessed (Completed OFT)	12	63	
	Technologies refined	-	-	
	On farm trials conducted	12	63	
<b>2</b>	<b>Frontline demonstrations</b>	-	-	
	Proposed Frontline demonstrations	12	125	
	On Going Frontline demonstrations	70	70	
	FLDs conducted on crops	6	69	
	Area under crops (ha.)	30	69	
	FLD on farm implement and tools	1	7	
	FLD on livestock/ AH enterprises (Dairy/ Sheep and Goat/Poultry/ Duckery/ Piggery etc.)	1	10	
	FLD on Fisheries - Finger lings	-	-	
	FLD on other enterprises (Bee keeping, lac, mushroom, sericulture, value addition, vermi compost, etc.)	-	-	
	FLD on Women in Agriculture - ( Nutritional garden, Income generation, Value addition, Drudgery reduction, etc.)	03	32	
<b>3</b>	<b>Training programmes</b>	<b>No. of Course</b>	<b>Duration (days)</b>	<b>Participants</b>
	Farmers	51	51	1167
	Farm women	10	10	211
	Rural youth	-	-	-
	Extension personnel/ In service	02	02	41
	Vocational trainings	02	30	43
	Sponsored Training	02	04	117
	<b>Total</b>	67	97	1579
		<b>No. of programmes</b>	<b>Participants</b>	
<b>4</b>	<b>Extension Programmes</b>	18	12523	
<b>5</b>	<b>Production of technology inputs etc</b>	<b>Qty</b>	<b>Beneficiaries (nos.)</b>	
	Seed (qt.)	Pigeon Pea 12.5q		
	Planting material produced (nos.)	Linseed 11.5 q		
<b>6</b>	<b>Livestock</b>	<b>Qty</b>	<b>Beneficiaries (nos.)</b>	
	(Gouts )Livestock strains ( Nos)	39	0	
	Milk Yield - Cow, Buffelo etc. (in liter)	0	0	
	Fish (Kg.)	0	0	
	Fingerlings (nos.)	0	0	
	Poultry-Eggs (nos.)	0	0	
	Ducks (nos.)	0	0	
	Chicks etc. (nos.)	0	0	

7	<b>Bio Products</b>		<b>Qty</b>	<b>Beneficiaries (nos.)</b>
	Bio Agents -Earth worm (Kg.)		-	
	Trichoderma (kg.)		-	
	Bio Fertilizers- Vermi compost, Rhizobium, PSB , BGA , Mycorriza , Azotobacter , Azospirillum etc. (Kg.)		-	
	Bio Pesticide-Panchgavya, Neem Extract , Neem oil etc.(lit.)		-	
8	<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.)		01	
	KVK News letter		03	3000
	SAC Meetings conducted		02	36
	Soil sample tested		517	517
	Water sample tested		-	-
	RWH System (Special training and field visit on RWH structure and MIS in KVKs)		-	-
	KVK-KMA (Message and beneficiaries)		198	NIC-1735, Farmers Portal -22000
	Convergence programmes		01	5000
	Sponsored programmes		03	128
	KVK Progressive Farmers interaction		-	-
	No. of Technology Week Celebrations		02	40
	Attended HRD activities organized by ZPD		14	14
	Attended HRD activities organized by DES		03	03
	Attended HRD activities by KVK Staff(Refresher /Short course, Training programme etc. )		03	03
9	Current status of Revolving Funds ( Amt. in Rs.)			
10			<b>No. of blocks</b>	<b>No. of villages</b>
	Outreach of KVK in the District		9	51
11			<b>ICAR</b>	<b>SAU</b>   <b>Others</b>
	No. of important visitors to KVK (nos.)		01	03
12			<b>Working (Yes/No)</b>	<b>No. of Update</b>
	Status of KVK Website		Yes	4
13			<b>Application received</b>	<b>Application disposed</b>
	Status of RTI (nos.)		0	0
14			<b>Query received</b>	<b>Query dissolved</b>
	Citizen Charter (nos.)			
15			<b>Working (Yes/No)</b>	<b>No. of programme viewed</b>
	E-connectivity		No	No
16			<b>Filled</b>	<b>Vacant</b>
	Staff Position		09	07
17	Workshop/ Seminar/ Conference attended by staff of KVK ( nos)		06	
18	Publication received from ICAR /other organization (nos.)		06	
19			<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)			

# GENERAL INFORMATION

## 1.1. Staff Position (as on date)

### Summary of Staff position in KVKs on March, 2014

Name of KVK	Sanctioned Posts	PC (1)		SMS (6)		PA (3)		Admn. (6)		Total	
		Sanc.	Filled	Sanc.	Filled	Sanc.	Filled	Sanc.	Filled	Sanc.	Filled
Mandla	16	01	01	06	03	03	03	06	02	16	9

Name of KVK.	Sanctioned post	Name of the incumbent	Discipline	Highest degree	Subject of Specialization	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category (SC/ST/OBC/ Others)
Mandla	Programme Coordinator	Dr. H.S. Rai	Programme Coordinator	Ph.D.	Entomology	40240+9000	50720	02.08.06	Temporary	Gen.
Mandla	Subject Matter Specialist1	Dr. Neelu Vishwakarma	SMS	Ph.D.	Home Science	15600-39100	28080	24.01.07	Temporary	OBC
Mandla	Subject Matter Specialist2	Er. R.K. Swarnakar	SMS	M.Tech. NET	Agril. Engineering	15600-39100	25810	29.01.2007	Temporary	Gen.
Mandla	Subject Matter Specialist3	Shri Vishal Meshram	SMS	M.Sc., NET	Agri. Extension	15600-39100	25050	31.1.2007	Temporary	SC
Mandla	Subject Matter Specialist4	-	SMS	-	-	15600-39100	-	-	-	-
Mandla	Subject Matter Specialist5	-	SMS	-	-	15600-39100	-	-	-	-
Mandla	Subject Matter Specialist6	-	SMS	-	-	15600-39100	-	-	-	-
Mandla	Programme Assistant	Dr. Pramod Sharma	PA	M.V.Sc.	Animal Nutrition	9300-34800	9958	20.10.2011	Temporary	Gen
Mandla	Programme Assistant	Sri Vijay S. Suryavanshi	PA	M.Sc.	Agronomy	9300-34800	9958	14.10.2011	Temporary	OBC
Mandla	Computer Programmer	Smt. Reshma Jhariya	PA	M.Sc.	Computer	9300-34800	11218	29.03.08	Temporary	SC
Mandla	Accountant / superintendent	-	-	-	-	5200-20200	-	-	-	-
Mandla	Stenographer	-	-	-	-	5200-20200	-	-	-	-
Mandla	Driver	Shri Gajendra singh Dangi	Driver cum Mechanic	12 <sup>th</sup>	-	6400+1900	8550	7.7.08	Temporary	Others
Mandla	Driver	Shri Rajju Singh Rajput	Driver cum Mechanic	12 <sup>th</sup>	-	6400+1900	8550	8.7.08	Temporary	Others

Name of KVK.	Sanctioned post	Name of the incumbent	Discipline	Highest degree	Subject of Specialization	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category (SC/ST/OBC/Others)
Mandla	Supporting staff	-	-	-	-	4440-7440	-		-	-
Mandla	Supporting staff	-	-	-	-	4440-7440	-		-	-

### 1.2. DISTRICT PROFILE (detail of geographical area, cultivation, Land, resources, opportunities, irrigation, populations etc.)–

KVK Name	Agro-climatic zone	No . of Blocks	No. of Panchayats	Population	Literacy	SC and ST Population	No. of farmers	Average land holding
Mandla	Agro climatic Zone (Northern Hill of Chhatisgarh).	09	493	10,53,522	68.28 %	SC-41305 ST-511798	111553	

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

KVK Name	Village Name	Year of adoption	Block Name	Distance from KVK	Population	Number of farmers (having land in the village)
<b>Mandla</b>	Piparpani Bhapsatola Patparsingarpur Lawer Silpuri	2008-09	Mandla	15 km	1120	422
				20 km	1300	480
				22 km	612	205
				20 km	678	198
				27 km	542	184
<b>Mandla</b>	Tuiyapani Khirkhiri Raiwada Sagoniya Bandha	2008-09 & 2010-11	Nainpur	45 km	738	280
				42 km	678	215
				49 km	455	189
				39 km	1019	377
				38 km	636	190
<b>Mandla</b>	Baja Boriya Chougan Jheena Palhara	2011-12	Mandla Bichhia	12km	1518	435
				14km		
				24km	550	203
				26km	380	183
				28km	396	166
<b>Mandla</b>	Premopur, Limarua, Tharka, Lafra	2012-13	Mandla	15 km	635	200
				17 km	900	350
				18 km	835	225
				22 km	1000	450

<b>Mandla</b>	Kindri	2013-14	Mandla	19 km	1000	175
	Bakchheradona			18 km	850	125
	Pondimal			25 km	900	140
	Mohgoun Chak			27 km	675	150
	Malara,Malari			13 km	1000	100
	Mohaniya patpara			21 km	700	150
	Saliya			27 km	1000	150
	Linga Riyat			25 km	1200	200
	Linga Mal			28km	1100	230
	Diwara			18km	1200	150
	Sarritola			25km	1150	75
	Tharka			17km	1100	425
	Bijegoun			34km	1200	75
	Sonder			38km	1150	225
	Banar			35km	1765	300

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

<b>KVK Name</b>	<b>THRUST AREA</b>
<b>Mandla</b>	Availability of quality seed through seed production technology and Seed replacement.
<b>Mandla</b>	Crop diversification
<b>Mandla</b>	Rainwater and irrigation management and irrigation methods
<b>Mandla</b>	Integrated nutrient management
<b>Mandla</b>	Integrated pest management
<b>Mandla</b>	Farm mechanization and drudgery reduction
<b>Mandla</b>	Increasing productivity of vegetables
<b>Mandla</b>	Integrated livestock management
<b>Mandla</b>	Development of rural entrepreneurship for income and employment generation like Bee Keeping and mushroom cultivation
<b>Mandla</b>	Nutritional security at household level and Development of nutritional garden
<b>Mandla</b>	Promotion of organic farming along with balanced nutrition.
<b>Mandla</b>	Agriculture mechanization
<b>Mandla</b>	Value addition of agricultural produces
<b>Mandla</b>	Soil and water conservation
<b>Mandla</b>	Water management



#### 1.4. PROBLEM IDENTIFIED by KVK (Approved by competent Authority in meetings/workshop)

KVK Name	Problem identified	Methods of problem identification	Location Name of Village & Block
Mandla	Direct seeding.	Famer field visit, Group discussion	All Blocks of Mandla dist.
Mandla	High weed infestation.	Famer field visit, Group discussion	Mandla, Nainpur
Mandla	Unavailability of quality seed.	Group meeting	Ghughari, Mavai, Bichiya, Niwas, Mandla, Narayan gunj, Mohgoun
Mandla	Poor adoption of agronomical practices and use of improved varieties.	Farmer visit, group discussion	Narayanganj, Ghughari, Mavai, Bichiya, Niwas, Mandla, Nainpur,
Mandla	Lack of knowledge of integrated nutrient management.	Farmer's Training, Famer field visit, Group discussion	Narayanganj, Ghughari, Mavai, Bichiya, Niwas, Mandla, Nainpur
Mandla	Imbalance use of fertilizer	Farmer's Training, Famer field visit, Group discussion	Narayanganj, Ghughari, Mavai, Bichiya, Niwas, Mandla, Nainpur
Mandla	High infestation of yellow vain mosaic	Famer field visit, Group discussion	Mandla Bichiya, Nainpur
Mandla	Low yield of Maize due to stem borer .Indiscriminate use of chemical spray	Famer field visit, Group discussion	Mandla Bichiya, Nainpur
Mandla	Low yield of Gram due to pest complex	Famer field visit, Demonstrations ,Group discussion	Ghughari, Mavai, Bichiya, Niwas, Mandla
Mandla	Poor knowledge & unawareness of value addition & processing.	Famer field visit, Trainings & Demonstrations, Group discussion	All Blocks of Mandla dist.
Mandla	No use of improved implements.	Famer field visit, Demonstrations, Group discussion	All Blocks of Mandla dist.
Mandla	Lack of Knowledge and skill about improved Agril. Implements	Famer field visit, Demonstrations, Group discussion	All Blocks of Mandla dist.
Mandla	Poor income in backyard poultry	Famer field visit, Group discussion	All Blocks of Mandla dist.
Mandla	Low income in Lac cultivation	Farmer's Training, Famer field visit, Group discussion	Naryangunj, Mandla, Nainpur
Mandla	Poor management livestock	Famer field visit, Group discussion	All Blocks of Mandla dist.
Mandla	Lack of rural entrepreneurship for income and employment generation .	Farm women Training, Famer field visit, Group discussion	All Blocks of Mandla dist.
Mandla	Lack of knowledge Nutritional security at household level	Farm women Training Famer field visit, Group discussion,	All Blocks of Mandla dist.



## 2. On Farm Testing

### Note-

\* Thematic area should be spelled correct and follow standard pattern i.e. Integrated Nutrient Management in place of INM or Inte. Nutrient Mngt. Etc.

\*Crop name should be spelled correct and standard English name should be used i.e Chick pea in place of gram/chana , Paddy in place of Rice/chawal , brinjal in place of egg plant/bhata/baigan etc.

\*Don't press enter key to navigate among column use arrow or tab key

\*don't add space before or after statement within the table cell

### 2.1 Information about OFT

KVK name	Year	Season	Problem diagnose	Title of OFT	Category of technology (Assessment/Refinement)	Thematic Area	Crop/enterprise	Farming Situations	No. of trials	Results (q/ha)		Net Returns (Rs./ha)		Recommendations
										FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	
Mandla	2013	Khari f	Use of Local Variety	Assessment of Paddy Variety WGL-32100	Assessment	Crop Production	Crop	Rain fed	05	27.2	44.4	24440	46380	
Mandla	2013	Khari f	Use of Local Variety	Assessment of Black Gram VarietyPU-19	Assessment	Crop Production	Crop	Rain fed	05	1.84	2.81	2440	3835	
Mandla	2013	Khari f	Time taking and costly in Paddy harvesting	Assessment of Combine Harvester in Paddy crop	Assessment	Farm Mechanization	Paddy	Rainfed	05	-	-	-	-	It was found very useful due to labor problem, time saving, cost saving.
Mandla	2013	Khari f	Poor income in backyard poultry	Assessment of Krishna-J, dual purpose colour breed of Poultry	Assessment	Breed evaluation	Livestock	-	05	650 gm BW 30% mortality	1050 gm BW 10% mortality	210	1090	
Mandl	2013-14	Rabi	Use of	Assessment	Assessment	Crop	Crop	Rain fed	05	6.98	10.75	14234	23075	

a			Local Variety	of Gram VarietyJG-14		Production								
Mandla	2013-14	Rabi	Use of Local Variety	Assessment of Wheat VarietyHI-8498	Assessment	Crop Production	Crop	Irrigated	05	16.6	25.6	15728	26148	
Mandla	2013-14	Rabi	Problem to carry water from well source to nearby field using existing hand operated pump	Assessment of Treadle Pump	Assessment	Farm Mechanization	Vegetable	Irrigated	06	-	-	-	-	Useful to irrigate small area up to 0.2 ha. For more convenience working existing Treadle Pump require some modifications#.
Mandla	2013-14	Rabi	Time taking, low cleaning efficiency and costly existing process i.e. hand cleaning <i>Supa</i>	Assessment of Paddle operated grain cleaner	Assessment	Farm Mechanization	Arhar	Rainfed	07	-	-	-	-	continue
Mandla	2013-14	Rabi	Low milk production due to worm infestation	Assessment of oral ivermectin on the Ecto-Endo parasites in Cattle	Assessment	Disease Management	Livestock	-	05	Worms +ve 2.40 Lit.	Worms-ve 3.10 Lit.	22	33	

## 2.2 Economic Performance

KVK name	OFT Title	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> )	Refined Practice, if any (T <sub>3</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	Refined Practice, if any (T <sub>3</sub> )	FP (T <sub>1</sub> )	RP(T <sub>2</sub> )	Refined Practice, if any (T <sub>3</sub> )	FP (T <sub>1</sub> )	RP (T <sub>2</sub> )	Refined Practice, if any (T <sub>3</sub> )		
Mandla	Assessment of Paddy Variety WGL-32100	Yield	27.2	44.4	15000	18000	-	39440	64380	-	24440	46380	-	2.62	3.57			
Mandla	Assessment of Black Gram VarietyPU-19	Yield	1.82	2.81	4000	6000	-	6440	9835	-	2440	3835	-	2.63	2.56			
Mandla	Assessment of Combine Harvester in Paddy crop	Field capacity (ha/h)	0.03* Using 3 labor	0.40** Using 3 persons	-	-	-	-	-	-	-	-	-	-	-	-	-	
		Labour saving (man-days/ha)	17.5*	1.25**	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Time Required (man-hours/ha)	35* Using 3 labor	2.5** Using 3 persons	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Cost saving (Rs./ha)	2625*	2535**	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mandla	Assessment of Improved dual purpose colour breed of Poultry	Body weight (Kg), Egg production (No.) and mortality (%)	650 gm 30% mortality	1050 gm 10% mortality	700	800	-	910	1890	-	210	1090	-	1.3	2.36	-		
Mandla	Assessment of Chick pea VarietyJG	Yield	6.98	10.75	8800	12400	-	23034	35475	-	14234	23075	-	2.61	2.86			

	-14																
Mandla	Assessment of Wheat Variety HI-8498	Yield	16.6	25.6	10500	14300	-	26228	40448	-	15728	26148	-	2.49	2.82		
Mandla	Assessment of Treadle Pump	Capacity (Liters/hr)	155	852	-	-	-	-	-	-	-	-	-	-	-	-	
		Time to carry 1000 liters water to field (hr)	8.01	1.17	-	-	-	-	-	-	-	-	-	-	-	-	-
		Cost of 1000 liters water	200	39	-	-	-	-	-	-	-	-	-	-	-	-	-
Mandla	Assessment of Paddle operated grain cleaner	Capacity (q/h)															
		Cost of cleaning (Rs./q)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Field capacity (ha/h)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Labour saving (man-days/ha)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mandla	Assessment of oral ivermectin on the Ecto-Endo parasites in Cattle	Faecal examination and milk yield (Lit/day)	Worms +ve 2.40 Lit.	Worms-ve 3.10 Lit.	50	60	-	72	93	-	22	33	-	1.44	1.55	-	

### 2.3 Information about Home Science OFT:

KVK Name	Year	Season	Problem diagnose	Title of OFT	Category of technology (Assessment/Refinement)	Thematic Area	Details of Technology Selected for Assessment	Characteristics of Technology / Variety / Product / Enterprise	Farming / Enterprise Situation	No. of trials	Recommendations
Mandla	2013-14	Kharif	Low income of farm women due to no use backyard land	Assessment of Hyv. Sweet corn Variety F1 SAKATA-16 for Green cob for income enhancement of farm women	Assessment	Income generation	Cultivation of Hyv. Sweet corn Variety F1 SAKATA-16 for Green cob for income enhancement of farm women	Sweet corn Variety F1 SAKATA-16,70-75 days-Maturity ,Cob dissensions 20X4.5-5 cm. Fresh Market, Green cob per plants-02	Irrigated/Middle Class Farmer	05	Motivated to Farm Women SHGs for cultivation along with marketing
Mandla	2013-14	Kharif	High drudgery of FW during sowing of Maize	Assessment of drudgery reduction through Naveen Dibbler (CIAE,Bhopal type)during sowing of Maize of farm women	Assessment	Drudgery reduction	Use of Naveen Dibbler (CIAE,Bhopal type)during sowing of Maize of farm women	Single row manually operated equipment dibbling of maize,Area covered:150 m2/h, Reduces grip and muscular fatigue.	Rainfed/ Labour Farmwomen	05	Maintain to proper row distance and reduce muscular fatigue
Mandla	2014	Rabi	Low income of farm women due lake of household fuel	Assessment of Effectiveness of Inverted down draft gassifier type <b>Bio mass cook stove</b> for non conventional fuel in household level.	Assessment	Women in Agriculture	Use of Inverted down draft gassifier type <b>Bio mass cook stove</b> for non conventional fuel in household level.	The thermal efficiency of this cook stove is much higher (about 33%), The average consumption of the cook stove is about 1 kg/h which is sufficient for making a simple meal for a family of 4-5 persons	Middle Class Farmer	05	Cook stove are portable and using small size stick

## 2.4 Economic Performance Home Science OFT:

KVK name	OFT Title	Performance Indicator / Parameter																					
		Output m <sup>2</sup> /h		Est. Energy Expenditure kj/min.		WHR beat/min		% reduction in drudgery		% increase in efficiency		Production per unit		Cost of input		Incremental income		Yield(Kg/ha)		Net Return		Saving in Rs	BC ratio
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2		
Mandla	Assessment of Hyv. Sweet corn Variety F1 SAKATA-16 for Green cob for income enhancement of farm women	-	-	-	-	-	-	-	-	-	-	Un used Land of backyard	470 Green Cob selling @5/	-	Rs 590 Seed fertilizer+labor cost	-	1760	-	470 Green cob/100 m <sup>2</sup> fresh selling	-	1760	-	2.9
Mandla	Assessment of drudgery reduction through Naveen Dibbler (CIAE,Bhopal type)during sowing of Maize of farm women	72	138	8.611	7.816	109	104	-	-	91%	-	-	-	-	-	-	-	-	-	-	-	-	
Mandla	Assessment of Effectiveness of Inverted draft gassifier type <b>Bio mass cook stove</b> for non conventional fuel in house hold level.	1.8 kg/h	1kg/h	-	-	-	-	-	-	8.60%	16.20%	-	-	-	-	-	-	-	-	-	-	Rs20/ cooking for 4-5 family member	



## 2.5 Feedback from KVK to Research System

Name of KVK	Feedback
Mandla	Paddy Variety (MTU-1081) medium maturity ,suitable for irrigated situations, and fine quality grain.
Mandla	Black Gram Variety(PU-19) suitable for summer cultivation.
Mandla	Chick pea variety (JG-14) suitable for late sown condition and suitable in Paddy-Gram cropping system.
Mandla	Wheat VarietyHI-8498 suitable for limited irrigation condition.
Mandla	Sweet corn Variety F1 SAKATA-16 suitable for irrigated situation and beneficial to farm women for income generated as a cash crop
Mandla	Naveen Dibbler (CIAE,Bhopal type) are uses for line sowing and reduce drudgery during sowing of Maize of farm women
Mandla	Inverted down draft gassifier type Bio mass cook stove are more attractive alternative source for using the conventional fuel in house hold level.
Mandla	Paddy Variety (MTU-1081) medium maturity ,suitable for irrigated situations, and fine quality grain.

### 3. Achievements of Frontline Demonstrations

#### 3.1. Follow-up for results of FLDs implemented during previous years 2013-14

List of technologies demonstrated and popularized during previous years and recommended for large scale adoption in the district

KVK Name	Crop/ Enterprise	Thematic Area	Technology demonstrated	Details of popularization methods suggested to the Extension system	Horizontal spread of technology		
					No. of villages	No. of farmers	Area in ha
Mandla	Paddy	Varietal Evaluation	Improved variety of Paddy(JRH-5)	Field visits, Field day, Kisan gosthi, trainings	4	46	25
Mandla	Cono Weeder	Drudgery reduction	Cono Weeder for Drudgery reduction of farm Women during Weeding opratation in paddy crop	Field visits, Field day, Kisan gosthi, trainings	7	68	35
Mandla	Mushroom	Income generation	Mushroom production for income generation of farm women	Field visits, Field day, Kisan gosthi, trainings	3	8	-
Mandla	Mustard	Varietal Evaluation	Improved variety of Mustard (Pusha Tarak)	Field visits, Field day, Kisan gosthi, trainings	5	60	16
Mandla	Chick pea	Varietal Evaluation	Improved variety of Chick pea (JG-63)	Field visits, Field day, Kisan gosthi, trainings	9	84	30
Mandla	Pigeon Pea	Drudgery reduction	Drudgery reduction and efficiency enhancement by using improved Dal milling implement in Pigeon Pea	Field visits, Field day, Kisan gosthi, trainings	2	18	-

#### Note-

\* Thematic area should be spelled correct and follow standard pattern i.e. Integrated Nutrient Management in place of INM or Inte. Nutrient Mngt. Etc.

\*Crop name should be spelled correct and standard English name should be i.e Chick pea in place of gram, Paddy in place of Rice , brinjal in place of egg plant etc.

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\*don't add space before or after statement within the table cell

### 3.2 Details of FLDs implemented

KVK Name	year	Season	Thematic area	Technology demonstrated	Name of Crop/ Enterprise	Name of Variety/Technology/Enterprizes	Crop- Area (ha) / Entrep - No.	Results (q/ha)		% change	No. of farmers				
								FP (T <sub>1</sub> )	RP (T <sub>2</sub> )		SC	ST	Others	General	Total
Mandla	2013	Kharif	CRP	Performance of improved variety of Paddy (MTU-1081)	Paddy	Improved variety of Paddy (MTU-1081)	5ha/12	28.83	52.5	82%	0	07	04	01	12
Mandla	2013	Kharif	CRP	Performance of improved variety of Niger(JNC-9)	Niger	Improved variety of Niger (JNC-9)	5ha/09	1.49	2.49	67.45%	0	08	01	0	09
Mandla	2013	Kharif	CRP	Performance of improved variety of Black Gram (LBG-20)	Black Gram	Improved variety of Black Gram(LBG-20)	5ha/12	0.90	1.47	63.33%	0	12	0	0	12
Mandla	2013-14	Kharif	LPM	Performance of Lactating Cattle through supplementation of mineral mixture for three month after calving.	Dairy	Lactating Cattle through supplementation of mineral mixture for three month after calving.	10	2.5lit. milk yield 258kg BW	3.17lit. milk yield 286kg BW	26.8 10.85	0	0	10	0	10
Mandla	2013-14	Rabi	CRP	Performance of Wheat variety (JW-3173)	Wheat	Wheat variety (JW-3173)	5ha/12	16.2	23.6	45.67%	0	08	04	0	12
Mandla		Rabi	CRP	Performance of Gram variety (JG-322)	Gram	Gram variety (JG-322)	5ha/12	7.12	10.54	48.03%	0	02	09	01	12
Mandla		Rabi	CRP	Performance of Linseed variety (Sheela)	Linseed	Linseed variety (Sheela)	5ha/12	3.7	5.85	58.10%	01	05	05	01	12
Mandla	2013-14	Rabi	AEG	Demo. Of Cycle Hoe in Potato crop	Potato	Manually operated Cycle Hoe	0.25	-	-	-	-	07	-	-	07
Mandla	2013-14	Summer	AEG	Demo. Of multi-purpose Tray Dryer	Vegetable	Not implemented due to Odd climate		-	-	-	-	07	-	-	07
Mandla	2013-14	Summer	CRP	Performance of green gram variety PDM 139	Green Gram	PDM 139	25 ha/70	-	-	-	18	18	-	34	70

### 3.3 Economic Impact of 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> )
Mandla	Performance of improved variety of Paddy (MTU-1081)	Paddy	Yield	28.83	52.5	17500	25700	41803	76125	24303	50425	2.3	2.9
Mandla	Performance of improved variety of Niger (JNC-9)	Niger	Yield	1.49	2.49	900	1400	5205	8715	4305	7315	1.20	1.19
Mandla	Performance of improved variety of Black Gram (LBG-20)	Black Gram	Yield	0.90	1.47	1500	2000	2970	4851	1870	2851	1.98	2.40
Mandla	Performance of Lactating Cattle through supplementation of mineral mixture for three month after calving.	Dairy	Milk yield (lit.)	2.5	3.17	36 Rs/lit milk/day	42 Rs/lit milk/day	75 Rs/day	95 Rs/day	39 Rs/day	53 Rs/day	2.08	2.26
			Body weight(kg)	258	286								
Mandla	Performance of Wheat variety (JW-3173)	Wheat	Yield	16.2	23.6	10500	14300	25596	37393	15096	23093	2.43	2.61
Mandla	Performance of Chick pea variety (JG-322)	Chick pea	Yield	7.2	10.54	8800	12400	21360	31625	12560	19225	2.42	2.55
Mandla	Performance of Linseed variety (Sheela)	Linseed	Yield	3.7	5.85	3900	5900	13690	21645	9790	15745	3.51	3.66
Mandla	Demo. Of Cycle Hoe in Potato crop	Potato	Field capacity (m/min.)	0.95	2.1	-	-	-	-	-	-	-	-
		Potato	Time required for 100 m length (min)	105	47	-	-	-	-	-	-	-	-
Mandla	Demo. Of multi-purpose Tray Dryer	Vegetable	Continue	-	-	-	-						

### 3.4 Information about Home Science FLDs

KVK name	Year	Season	Thematic Area	Problem Identified	Technology to be Demonstrated as Solution to the Identified Problem	Crop/ Enterprise (In which crop Enterprise or Farming Activity)	Name of Variety/Technology/Enterprizes	Farming Situation	Proposed area (ha)	No. of Beneficiaries
Mandla	2013	Kharif	WOE	Low income of farm women due to high mortality of vegetable seedling	Performance of Nursery management for income generation	Vegetable(Brinjal, Tomato, Chili)	Performance of Nursery management for income generation	Rainfed	0.002ha	10
Mandla	2013	Kharif	WOE	Low income of farm women due to use indigenous variety of Marigold	Performance of variety of Marigold (African Marigold)for income generation	Marigold	Performance of variety of Marigold (African Marigold)for income generation	Rainfed	1.2 ha	12
Mandla	2013-14	Rabi	WOE	High drudgery of FW during hand Weeding of vegetable crop	Performance of weeding implements "Twin Wheel Hoe" in vegetable crop for Drudgery reduction of farm women	Twin Wheel Hoe	Performance of weeding implements "Twin Wheel Hoe" in vegetable crop for Drudgery reduction of farm women	Irrigated	0.15ha	10

### 3.5 Economic Performance Home Science FLDs:

KVK name	Technology to be Demonstrated	Performance Indicator / Parameter																					
		Output m <sup>2</sup> /h		Est. Energy Expenditure kj/min.		WHR beat/mi n		% reduction in drudgery		% increase in efficiency		Production per unit		Cost of input		Incremental income		Yield(Kg/ha)		Net Return		Savings in Rs	BC ratio
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2				
Mandla	Performance of Nursery management for income generation	-	-	-	-	-	-	-	-	-	-	2290 plants	3735 plants	43	45	825	1410	2290 plants	3735 plants	1145	1867	1410	2:4
Mandla	Performance of variety of Marigold (African Marigold)for income	-	-	-	-	-	-	-	-	-	-	0.72qt ./(1000 sq.met er area)	2.90 qt /(1000 sq.met er area)	20	45	0	3486	.072 (Kg/ha)	.290 (Kg/ha)	864@ 12Rs/kg	4350 @ 15Rs/kg	3486	4:9

	generation																						
Mandla	Performance of weeding implements “Twin Wheel Hoe” in vegetable crop for Drudgery reduction of farm women	57.6	122.1	10.98	8.14	123	106	0	13	0	114	-	-	-	-	-	-	-	-	-	-	-	-

### 3.6 Training and Extension activities proposed under FLD

KVK Name	Crop	Activity	No. of activities organized	Number of participants	Remarks
Mandla	Paddy	Field days	1	34	-
		Farmers Training	6	181	-
		Media coverage	-	-	-
		Training for extension functionaries	-	-	-
Mandla	Niger	Field days	1	25	-
		Farmers Training	2	44	-
		Media coverage	-	-	-
		Training for extension functionaries	-	-	-
Mandla	Wheat	Field days	-	-	-
		Farmers Training	4	68	-
		Media coverage	-	-	-
		Training for extension functionaries	-	-	-
Mandla	Black Gram	Field days	1	25	-
		Farmers Training	-	-	-
		Media coverage	-	-	-
		Training for extension functionaries	-	-	-
Mandla	Chick pea	Field days	1	53	-
		Farmers Training	3	74	-
		Media coverage	-	-	-

		Training for extension functionaries	-	-	-
<b>Mandla</b>	<b>Twin wheel Hoe</b>	Field days	-	-	-
		Farmers Training	2	31	
		Media coverage	-	-	-
		Training for extension functionaries	-	-	-

### 3.7 Details of FLD on crop hybrids. NA

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.

## 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
<b>Mandla</b>	Assessment of Paddy Variety WGL-32100	OFT, Field Visits, training	High yielding variety, Medium fine quality, Good milling quality	Good adoption in medium soil field.
<b>Mandla</b>	Assessment of Black Gram Variety PU-19	OFT, Field Visits, training	High yielding variety, Medium size seeds, Resistant Yellow mosaic	Good adoption of irrigated field in summer season
<b>Mandla</b>	Assessment of Combine Harvester in Paddy crop	OFT, Field Visits, training		
<b>Mandla</b>	Assessment of Krishna-J, dual purpose colour breed of Poultry	OFT, Field Visits, training	Krishna-J, dual purpose colour breed of Poultry very productive and increasing income	Good adoption
<b>Mandla</b>	Assessment of Chick pea Variety JG-14	OFT, Field Visits, training	High yielding variety, late sown	Farmers like to Paddy- Gram cropping system
<b>Mandla</b>	Assessment of Wheat Variety HI-8498	OFT, Field Visits, training	High yielding variety, Durum Wheat, suitable for limited irrigation	Farmers adopted to daliya purpose
<b>Mandla</b>	Assessment of Treadle Pump	OFT, Field Visits, training		
<b>Mandla</b>	Assessment of Paddle operated grain cleaner	OFT, Field Visits, training		
<b>Mandla</b>	Assessment of oral ivermectin on the Ecto-Endo parasites in Cattle	OFT, Field Visits, training		
<b>Mandla</b>	Assessment of High yielding variety Sweet corn Variety F1 SAKATA-16 for Green cob for income enhancement of farm women	OFT, Field Visits, training	High yielding variety, Green Cob test and softness purpose	Farmers like to cash crop purpose

<b>Mandla</b>	Assessment of drudgery reduction through Naveen Dibbler (CIAE,Bhopal type)during sowing of Maize of farm women	OFT, Field Visits, training	Suitable for dibbling in single row, reduces the muscular fatigue	Good future adoption of equipment for drudgery reduction of farm women
<b>Mandla</b>	Assessment of Effectiveness of Inverted down draft gassifier type <b>Bio mass cook stove</b> for non conventional fuel in house hold level.	OFT, Field Visits, training	The Thermal efficiency of this cook stove is much higher. The cook stove is about 1 kg/h which is sufficient for making a simple meal for a family of 4-5 persons	More attractive alternative source for using the conventional fuel in house hold level.
<b>Mandla</b>	Performance of improved variety of Paddy (MTU-1081)	FLD, Field Visits, training	High yielding variety, Medium duration and grain medium quality,	Farmers like to old variety replacement
<b>Mandla</b>	Performance of improved variety of Niger (JNC-9)	FLD, Field Visits, training	High yielding variety, Suitable of rainfed condition, seed black medium, oil contain 39%	light soil field of the district
<b>Mandla</b>	Performance of improved variety of Black Gram (LBG-20)	FLD, Field Visits, training	High yielding variety, Medium size seeds , Moderately Resistant to powdery mildew.	Good adoption
<b>Mandla</b>	Demonstration of Lactating Cattle through supplementation of mineral mixture for three month after calving.	FLD, Field Visits, training		
<b>Mandla</b>	Performance of Wheat variety (JW-3173)	FLD, Field Visits, training	High yielding variety, rainfed and limited irrigation, Drought & rust resistant	Good adoption
<b>Mandla</b>	Performance of Chick pea variety (JG-322)	FLD, Field Visits, training	High yielding variety, Wilt resistance	Good adoption suitable for rice Wheat Zone
<b>Mandla</b>	Performance of Linseed variety (Sheela)	FLD, Field Visits, training	High yielding variety	Good adoption
<b>Mandla</b>	Demo. Of Cycle Hoe in Potato crop	FLD, Field Visits, training		
<b>Mandla</b>	Demo. Of multi-purpose Tray Dryer	FLD, Field Visits, training		
<b>Mandla</b>	Performance of Nursery management for income generation	FLD, Field Visits, training	Low mortality, Beneficial for small holding farmers for income generation	Good future adoption as village level nursery ,and abailvility of vegetable seedling
<b>Mandla</b>	Performance of variety of Marigold (African Marigold) for income generation	FLD, Field Visits, training	More yield and source of income	Promote to floriculture as income resource
<b>Mandla</b>	Performance of weeding implements “Twin Wheel Hoe” in vegetable crop for Drudgery reduction of farm women	FLD, Field Visits, training	Light weight, Avoiding bending postures during weeding of vegetable field., Increase efficiency of worker and reduce weeding cost	Simple to operate and drudgery reduction of farm women



## 4.2. Feedback from KVK to Research System.

Name of KVK	Feedback basic of OFT on Technology Tested
<b>Mandla</b>	Paddy Variety (MTU-1081) medium maturity, suitable for irrigated situations, and fine quality grain.
<b>Mandla</b>	Black Gram Variety (PU-19) suitable for summer cultivation.
<b>Mandla</b>	Chick pea variety (JG-14) suitable for late sown condition and suitable in Paddy-Gram cropping system.
<b>Mandla</b>	Wheat Variety HI-8498 suitable for limited irrigation condition.
<b>Mandla</b>	Sweet corn Variety F1 SAKATA-16 suitable for irrigated situation and beneficial to farm women for income generated as a cash crop
<b>Mandla</b>	Naveen Dribbler (CIAE, Bhopal type) are used for line sowing and reduce drudgery during sowing of Maize of farm women
<b>Mandla</b>	Inverted down draft gassifier type <b>Bio mass cook stove</b> are more attractive alternative source for using the conventional fuel in house hold level.

## 4. 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
Mandla	Farmers and FW	diagnostic field visit, group discussion, and exploratory survey etc.	07/05/2013 Backchhera dona	32
Mandla	Farmers and FW	diagnostic field visit, group discussion, and exploratory survey etc.	05/06/2013 Lingapondi	20
Mandla	Rural youth	diagnostic field visit, group discussion, and exploratory survey etc.	26/09/2013 Bijadandi	13
Mandla	Rural youth	diagnostic field visit, group discussion, and exploratory survey etc.	24/12/2013 Phoolsagar	17

## Abbreviation Used

FW	(A) Farmers & Farm Women
RY	(B) Rural Youths
IS	(C) Extension Personnel
ONC	On Campus Training Programme
OFC	Off Campus Training Programme
M	Male
F	Female
T	Total
<b>Thematic Areas for Training</b>	
CRP	Crop Production
HOV	Horticulture – Vegetable Crops
HOF	Horticulture-Fruits
HOO	Horticulture- Ornamental Plants

HOP	Horticulture- Plantation crops
HOT	Horticulture- Tuber crops
HOS	Horticulture- Spices
HOM	Horticulture- Medicinal and Aromatic Plants
SFM	Soil Health and Fertility Management
LPM	Livestock Production and Management
WOE	Home Science/Women empowerment
AEG	Agril. Engineering
PLP	Plant Protection
FIS	Fisheries
PIS	Production of Inputs at site
CBD	Capacity Building and Group Dynamics
AGF	Agro-forestry
OTH	Others
RYH	Rural Youth
EXP	Extension Personnel

## 5. TRAINING PROGRAMMES

1. Training programmes should be strictly covered under above mentioned thematic areas only,
2. For category, training type and thematic area, mention code/abbreviations only

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

Name of KVK	Cate-gory	Training Type	Thematic area	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	7	8	9	10	11	12	13	14	15	16
Mandla	F/FW	OFC	WOE	Value addition & development of different nutritional recipes of multigrain	01	01	-	-	-	-	-	18	-	-
Mandla	F/FW	OFC	CRP	Cultivation Technology of Black Gram	01	01	-	-	-	-	13	09	-	-
Mandla	F/FW	OFC	WOE	Precaution of Rainy Season in Rural area	01	01	-	-	-	-	09	13	-	-
Mandla	F/FW	OFC	CRP	Cultivation Technology of Paddy	01	01	1	-	-	-	11	-	14	-
Mandla	F/FW	OFC	LPM	Important diseases of Poultry & its Prevention	01	01	-	-	-	-	17	03	-	-
Mandla	F/FW	OFC	WOE	Importance of weeding & Transplanting implements for farm women	01	01	-	-	-	-	05	02	05	02
Mandla	F/FW	OFC	CRP	INM in paddy Crop	01	01	-	-	-	-	02	14	03	-
Mandla	F/FW	OFC	CRP	Weed management in paddy crop	01	01	-	01	-	-	-	01	-	12
Mandla	F/FW	OFC	CRP	Integrated weed control in paddy	01	01	-	-	-	-	10	27	-	-
Mandla	F/FW	OFC	LPM	External Parasite management in Goats	01	01	-	-	-	-	01	-	12	02
Mandla	F/FW	OFC	LPM	Poultry production technology	01	01	-	-	-	-	21	-	-	-
Mandla	F/FW	OFC	PLP	Integrated pest management of paddy crop	02	02	-	-	02	03	50	-	05	-
Mandla	F/FW	OFC	CRP	Production Technology of Niger	01	01	-	-	-	-	16	02	-	-
Mandla	F/FW	OFC	LPM	Prevention of mortality in Buffalo Calves	01	01	-	-	-	-	03	05	11	01
Mandla	F/FW	OFC	WOE	Importance of Micro	01	01	-	-	-	-	-	01	-	20

Name of KVK	Cate-gory	Training Type	Thematic area	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	7	8	9	10	11	12	13	14	15	16
				Nutrient in Diet and Prevention of Dieses										
Mandla	F/FW	OFC	SFM	Soil & Water Management in Fruits Plant	01	01	01	-	-	-	25	-	03	-
Mandla	F/FW	OFC	LPM	Computation of Ration for Cattle & Buffalo	01	01	-	-	-	-	-	07	-	04
Mandla	F/FW	OFC	WOE	Formation of Women SHG & Future Planning, Management	01	01	-	01	-	02	-	30	-	07
Mandla	F/FW	OFC	CRP	Post Harvest Management in Paddy Crop	01	01	-	-	-	-	13	12	-	-
Mandla	F/FW	OFC	CRP	Water Management in Wheat Crop	01	01	-	-	-	-	17	-	07	-
Mandla	RY	OFC	CRP	Cultivation Technology of Oil Seeds & Pulses Crop	01	15	-	-	01	-	06	-	13	-
Mandla	F/FW	OFC	CRP	Cultivation Technology of Oil Seeds & Pulses Crop	01	01	03	-	01	-	14	-	08	-
Mandla	F/FW	OFC	CRP	Improved Production Technology of Rabi Crops	02	02	01	-	01	-	08	01	13	12
Mandla	F/FW	OFC	CRP	Method & Importance of Seed Treatment of Rabi Crops	01	01	-	-	19	-	-	-	01	-
Mandla	F/FW	OFC	LPM	Chicks Rearing, Vaccination & Diseases Management	01	01	-	-	-	-	16	07	-	-
Mandla	F/FW	OFC	CRP	Importance & Uses of Balance Fertilizer & Compost in Rabi Crops	01	01	01	-	-	-	08	09	-	-
Mandla	F/FW	OFC	WOE	Method Using of Improved Tools (Weeder Twin Wheel Hoe ) of Drudgery reduction	01	01	-	-	-	-	02	18	-	-
Mandla	F/FW	OFC	AEG	Water Saving Through Improved Irrigation Technologies	01	01	-	-	-	-	09	-	13	-
Mandla	F/FW	OFC	LPM	Prevention of Bacterial Disease in Cattle	01	01	-	-	01	-	04	-	16	02

Name of KVK	Cate-gory	Training Type	Thematic area	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	7	8	9	10	11	12	13	14	15	16
Mandla	F/FW	OFC	CRP	Cultivation Technology Wheat Crop	01	01	-	-	-	-	02	21	-	-
Mandla	F/FW	OFC	CRP	Cultivation Technology Chickpea Crop	01	01	-	-	-	-	09	06	-	-
Mandla	F/FW	OFC	PLP	Technology of Paste & Dieses Management in Chickpea Crop	02	02	-	-	-	-	30	06	04	-
Mandla	F/FW	OFC	CRP	Weed Management in Rabi Crops	01	01	01	-	-	-	05	-	20	-
Mandla	F/FW	OFC	WOE	Value Addition of Seasonal Fruits & Vegetables of local area	01	01	-	-	-	-	02	05	04	06
Mandla	F/FW	OFC	WOE	Promotion of Women Friendly Agriculture Implements	01	01	-	-	-	-	-	13	-	7
Mandla	F/FW	OFC	LPM	Commercial Lager Braider Production Technology	01	01	-	-	01	-	09	-	08	04
Mandla	F/FW	OFC	WOE	Development of Supplementary food for growing child	01	01	-	-	-	01	-	17	-	05
Mandla	F/FW	OFC	WOE	Storage Techniques of Agriculture produces	01	01	-	-	08	06	-	-	-	-
Mandla	F/FW	OFC	PLP	Disease management in Rabi Crops	01	01	-	-	-	-	13	-	04	-
Mandla	F/FW	OFC	LPM	Measures for Reducing mortality in Buffalo	01	01	-	-	-	-	12	-	-	-
Mandla	F/FW	OFC	CRP	Improved Production Technology of Sugar cane	01	01	03	-	-	-	-	-	29	-
Mandla	F/FW	OFC	LPM	Summer Management in Buffalo	01	01	-	-	06	01	10	07	-	-
Mandla	F/FW	OFC	AEG	Water Lifting Technology for Irrigation	01	01	-	-	02	-	-	-	18	-
Mandla	F/FW	OFC	CRP	Production Technology of Green Gram	01	01	-	-	19	-	-	-	-	-
Mandla	F/FW	OFC	WOE	Stores Loss Minimization Technology in Rural Area	01	01	-	-	5	7	-	10	-	-
Mandla	F/FW	OFC	CRP	Improved Production Technology of Summer	01	01	-	-	-	-	02	-	14	04

Name of KVK	Cate-gory	Training Type	Thematic area	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	7	8	9	10	11	12	13	14	15	16
				Green Gram										
Mandla	F/FW	OFC	CRP	Importance of Bio Farming in Agriculture Production	01	01	-	-	-	-	16	-	01	-
Mandla	F/FW	OFC	HOV	Vegetable Cultivation in Green house & Poly house	01	01	-	-	03	02	08	13	10	09
Mandla	RY	ONC	WOE	Tailoring & Stitching of Ladies Garments	01	15	-	-	-	-	-	17	-	06
Mandla	IS	ONC	WOE	Improved Technology of Kitchen Gardening	01	01	-	02	-	-	-	22		06
Mandla	F/FW	OFC	LPM	Computation of Ration for Lactating Cattle & Buffalo	01	01	-	-	-	-	33	04	-	-
Mandla	F/FW	OFC	CRP	Economic Importance of Bio fertilizer	01	01	-	-	-	-	21	04	-	-
Mandla	F/FW	OFC	LPM	Layer & Broiler Production Technology	01	01	-	-	-	-	63	-	01	-
Mandla	F/FW	OFC	LPM	Buffalo Rearing & Disease Management	01	01	-	-	-	-	32	-	-	-
Mandla	F/FW	OFC	LPM	Important Diseases of Goats & its management	01	01	-	-	01	-	26	09	-	-
Mandla	F/FW	OFC	AGF	Importance of Agro forestry crop & management	02	02	2	-	22	21	11	22	-	-
Mandla	F/FW	OFC	AGF	Drip Irrigation system its care & maintains of Agro forestry crop	01	02	1	1	-	-	35	2	-	-
Mandla	IS	ONC	AEG	Role of improved Agricultural implements in increasing production and productivity	01	01	-	-	-	-	7	2	2	-
Mandla	F/FW	OFC	CRP	Improved Production Technology of Wheat	01	01	-	-	3	-	11	-	-	-
Mandla	F/FW	OFC	CRP	Improved Production Technology of Chick pea	01	01	-	-	10	5	5	-	-	-
Mandla	F/FW	OFC	LPM	Enhancement of Nutritional status of wheat & Paddy straw by Urea Treatment	01	01	3	-	-	-	13	5	-	-
Mandla	F/FW	OFC	CRP	IPM in Chick pea	01	01	10	5	2	2	-	-	-	-
Mandla	F/FW	OFC	AEG	Improved Agricultural implements.	01	01	-	-	-	-	08	-	10	-

**Table 5.2. Details of Vocational training programmes for Rural Youth conducted by the KVKs**

Name of KVK	Training title	Crop / Enterprise	Identified Thrust Area	Duration of training (days)	Number of Beneficiaries							
					Gen		SC		ST		Others	
					M	F	M	F	M	F	M	F
Mandla	Tailoring & Stitching of Ladies Garments	Tailoring & Stitching	WOE	15	-	-	-	-	-	17	-	06
Mandla	Cultivation Technology of Oil Seeds & Pulses Crop	Oil Seeds & Pulses Crop	CRP	15	-	-	01	-	06	-	13	-

**Table 5.3. Details of training programme conducted for livelihood security in rural areas by the KVKs**

Name of KVK	Training title	Self employed after training			Number of persons employed elsewhere
		Type of units	Number of units	Number of persons employed	
Mandla	Tailoring & Stitching of Ladies Garments	Self	04	04 Women self employed	-

**Table 5.4. Sponsored Training Programmes**

Name of KVK	Title	Thematic area (as given in abbreviation table)	Sub-theme (as per column no 5 of Table T1)	Client (FW/R/RY/IS)	Duration (days)	No. of courses	No. of Participants								Sponsoring Agency	Fund received for training (Rs.)
							Gen		Others		SC		ST			
							M	F	M	F	M	F	M	F		
Mandla	Importance of Agro forestry crop & management	AGF	Agro forestry	FW	02	02	-	-	-	02	22	21	11	22	ICAR Silvi culture	-
Mandla	Drip Irrigation system its care & maintains of Agro forestry crop	AGF	Agro forestry	FW	02	02	1	1	-	-	-	-	35	2	ICAR Silvi culture	-
Mandla	Cultivation of Oilseeds and Pulses	CRP	CRP	RY	15	01	-	-	15	-	-	-	05	-	Govt. of India	97600

**Table 5.5 Training Programmes for Panchayatiraj Institutions Office-bearers & members**

Name of KVK	Title	Thematic area (as given in abbreviation table)	Sub-theme (as per column no 5 of Table T1)	Client (FW/ RY/ IS)	Duration (days)	No. of courses	No. of Participants								Sponsoring Agency	Fund received for training (Rs.)
							Gen		Others		SC		ST			
							M	F	M	F	M	F	M	F		

**Table 5.6 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)		Impact on 1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
			Before	After	Before	After	Before	After	
Mandla	Important diseases of Poultry & its Prevention	20	-	50	30 % mortality	10 % mortality	91	117	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
Mandla	External Parasite management in Goats	15	10	70	Worms present	No worms	-	-	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
Mandla	Poultry production technology	21	10	50	650gm in 2 month	750 gm in 2 month	130	150	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
Mandla	Prevention of mortality in Buffalo Calves	20	30	100	Upto 45% mortality	0%	-	-	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
Mandla	Computation of Ration for Cattle & Buffalo	11	-	60	No scientific feeding	Balanced feed used	-	-	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
Mandla	Chicks Rearing, Vaccination & Diseases Management	23	-	50	Chicks mortality upto 30-35%	Chicks mortality reduced to 5-10%	84.5/10 chicks	117/10 chicks	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income



Mandla	Prevention of Bacterial Disease in Cattle	23	-	50	Disease outbreak occurs	No out break	-	-	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
Mandla	Commercial Layer and Broiler Production Technology	32	-	30	650gm in 2 month	>1.8 kg in 2 month	130	180	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
Mandla	Measures for Reducing mortality in Buffalo	12	10	60	Upto 45% mortality	0%	-	-	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
Mandla	Summer Management in Buffalo	24	10	70	Milk production reduced to 2-2.5 kg	Milk production reduced to 3-3.5 kg	87	122	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
Mandla	Computation of Ration for Lactating Cattle & Buffalo	37	-	60	No scientific feeding	Balanced feed used	-	-	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
Mandla	Layer & Broiler Production Technology	64	-	50	650gm in 2 month	>1.8 kg in 2 month	130	180	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
Mandla	Buffalo Rearing & Disease Management	32	10	50	Upto 45% mortality	0%	-	-	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
Mandla	Important Diseases of Goats & its management	36	-	60	Disease outbreak occurs	No out break	-	-	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
Mandla	Enhancement of nutritional status of wheat straw and paddy straw through urea treatment	20	-	80	No use of urea treated wheat and paddy straw	Urea treated wheat and paddy straw used in season when green fodder is not available	-	-	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income

Mandla	Value addition & development of different nutritional recipes of multigrain	18	10	60	Lack of knowledge of Multigrain as a nutritional bases	Uses of nutritional recipes of multigrain	-	-	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
Mandla	Importance of weeding & Transplanting implements for farm women	14	-	35	No use	Uses of weeding & Transplanting implements for farm women	-	-	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
Mandla	Formation of Women SHG & Future Planning, Management	40	15	65	Non Planned	Future Planning, Management	-	35	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
Mandla	Cultivation Technology of Oil Seeds & Pulses Crop	20	15	70	Lack of knowledge	Improve knowledge	-	-	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
Mandla	Method Using of Improved Tools (Weeder Twin Wheel Hoe ) of Drudgery reduction	20	-	60	No use	Uses of weeding of vegetable crop by Twin Wheel Hoe	-	-	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
Mandla	Value Addition of Seasonal Fruits & Vegetables of local area	17	20	85	Traditional method uses	Longer shelf life Seasonal Fruits & Vegetables	-	-	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
Mandla	Promotion of Women Friendly Agriculture Implements	20	-	60	No use	Using of small and light waited Implements	-	-	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
Mandla	Development of Supplementary food for growing child	23	-	55	Unawareness	Awareness for development of Supplementary food	-	-	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income

Mandla	Storage Loss Minimization Technology in Rural Area	22	20	80	Traditional method uses	Safe Cooking Technique	--	-	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
Mandla	Importance of Bio Farming in Agriculture Production	17	-	30	Traditional method uses	Improved Bio fertilizer Production method	-	-	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
Mandla	Tailoring & Stitching of Ladies Garments	23	-	75	Unawareness	Trained to Tailoring & Stitching	-	400-2000/per month	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
Mandla	Improved Technology of Kitchen Gardening	30	10	80	Unawareness	Growing according to seasonal and Nutritional basis	-	200 -500 Rs. saving /month	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
Mandla	Cultivation Technology of Black Gram	18	20	70	5qt/ha	8qt/ha	16000	25600	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
Mandla	Cultivation Technology of Paddy	22	25	75	25qt/ha	35qt/ha	37500	52500	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
Mandla	INM in paddy Crop	22	10	50	22qt/ha	30qt/ha	33000	45000	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
Mandla	Weed management in paddy crop	26	15	62	27qt/ha	38qt/ha	40500	57000	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
Mandla	Integrated weed control in paddy	20	10	50	20qt/ha	27qt/ha	30000	40500	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
Mandla	Integrated paste management of paddy crop	14	30	60	25qt/ha	28 qt/ha	37500	42000	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income

Mandla	Production Technology of Niger	19	20	55	4qt/ha	6qt/ha	16000	24000	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
Mandla	Soil & Water Management in Fruits Plant	14							1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
Mandla	Post Harvest Management in Paddy Crop	37	10	50	Unawareness	Awareness	-	-	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
Mandla	Water Management in Wheat Crop	15	25	70	Lack of Knowledge	Knowledge improve	-	-	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
Mandla	Improved Production Technology of Rabi Crops	21	10	65	Lack of Knowledge	Knowledge improve	-	-	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
Mandla	Method & Importance of Seed Treatment of Rabi Crops	60	10	70	No seed treatment	40%	-	-	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
Mandla	Chicks Rearing, Vaccination & Diseases Management	18							1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
Mandla	Importance & Uses of Balance Fertilizer & Compost in Rabi Crops	20	20	60	Imbalance fertilizer dose	Balance fertilizer dose	-	-	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
Mandla	Method Using of Improved Tools (Weeder Twin Wheel Hoe ) of Drudgery reduction	21	10	40	Unawareness	Awareness	-	-	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income

Mandla	Water Saving Through Improved Irrigation Technologies	29	10	65	Unawareness	Awareness	-	-	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
Mandla	Cultivation Technology Wheat Crop	11	25	65	18qt/ha	25qt/ha	27000	37500	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
Mandla	Cultivation Technology Chickpea Crop	40	20	70	7qt/ha	10qt/ha	22400	32000	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
Mandla	Technology of Paste & Dieses Management in Chickpea Crop	25			6qt/ha	8qt/ha	19200	25600	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
Mandla	Weed Management in Rabi Crops	24			18qt/ha	22qt/ha	27000	33000	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
Mandla	Promotion of Women Friendly Agriculture Implements	20	10	80	-	-	-	-	1. Area expanded (ha)- 2. No. of farmers adopted (no.)-05 3. % change in knowledge, production & Income-
Mandla	Disease management in Rabi Crops	26	20	65	Lack of Knowledge	Knowledge improve	-	-	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
Mandla	Improved Production Technology of Sugar cane	36	25	80	550qt/ha	850qt/ha	99000	153000	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
Mandla	Water Lifting Technology for Irrigation	20	15	75	-	-	-	-	1. Area expanded (ha)-2 2. No. of farmers adopted (no.)-05 3. % change in knowledge, production & Income-75
Mandla	Production Technology of Green Gram	23	20	75	Lack of Knowledge	Knowledge improve	-	-	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income

Mandla	Improved Production Technology of Summer Green Gram	18	15	67	Lack of Knowledge	Knowledge improve	-	-	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
Mandla	Importance of Bio Farming in Agriculture Production	20	10	60	Lack of Knowledge	Knowledge improve	-	-	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
Mandla	Vegetable Cultivation in Green house & Poly house	22	5	30	Lack of Knowledge	Knowledge improve	-	-	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
Mandla	Economic Importance of Bio fertilizer	23	10	50	Lack of Knowledge	Knowledge improve	-	-	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
Mandla	Important Diseases of Goats & its management	23							1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
Mandla	Importance of Agro forestry crop & management	15	5	65	-	-	-	-	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
Mandla	Drip Irrigation system its care & maintains of Agro forestry crop	40	2	75	-	-	-	-	1. Area expanded (ha)-1.5 2. No. of farmers adopted (no.)-02 3. % change in knowledge, production & Income-75
Mandla	Role of improved Agricultural implements in increasing production and productivity	26	15	70	-	-	-	-	1. Area expanded (ha)- 2. No. of farmers adopted (no.) -14 3. % change in knowledge, production & Income-
Mandla	Improved Production Technology of Wheat	17	20	70	Lack of Knowledge	Knowledge improve	-	-	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income

Mandla	Improved Production Technology of Chick pea	20	25	75	Lack of Knowledge	Knowledge improve	-	-	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
Mandla	IPM in Chick pea	22	10	50	Lack of Knowledge	Knowledge improve	-	-	1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
Mandla	Improved Agricultural implements.	23	05	65	-	-	-	-	1. Area expanded (ha)- 2. No. of farmers adopted (no.)-8 3. % change in knowledge, production & Income-

## 6. EXTENSION ACTIVITIES

Name of the KVK	Activity	No. of activities (Targeted)	No. of activities (Achieved)	Detail of Participants						Remarks			
				Farmers (Others)		SC/ST (Farmers)		Extension Officials		Purpose	Topic s	Crop Stages	
				M	F	M	F	M	F				
Mandla	Field Day	06	04	72	1	75	1	1	1	1	FLD on MTU-1081 FLD on JG-322	FLD on MTU-1081 FLD on JG-322	Maturity of Crop
Mandla	Kisan Mela	02	03	3413	1	1752	200	1	1	District and State level farmers Fair	Rabi and Kharif Season	Sowing	
Mandla	Kisan Ghosthi	04	06	243	23	141	41	1	1	Rabi Season	Rabi Season	Maturity of Crop	
Mandla	Exhibition	02	03	3413	1	1752	200	1	1	District and State level farmers Fair	Rabi and Kharif Season	Sowing	
Mandla	Film Show	09	06	58	1	37	13	1	1	Training and awareness	SRI method of Paddy, Composting ,backyard Poultry, Soya Processing, Women friendly Implements	-	
Mandla	Method Demonstrations	04	03	4	12	2	40	1	1	Training	Multi-grain, Value addition of seasonal	Kharif and Rabi	

Name of the KVK	Activity	No. of activities (Targeted)	No. of activities (Achieved)	Detail of Participants						Remarks		
				Farmers (Others)		SC/ST (Farmers)		Extension Officials		Purpose	Topic s	Crop Stages
				M	F	M	F	M	F			
											fruits	season
Mandla	Farmers Seminar	01	01	08	0	11	0	0	0	0		
Mandla	Workshop	01	01	10	0	07	04	02	0	Rabi Crop problems	Pest and disease management of Rabi Crop	
Mandla	Group meetings	12	18	0	0	0	0	0	0	Assess to training needs		
Mandla	Lectures delivered as resource persons	14	17	-	-	-	-	-	-			
Mandla	Newspaper coverage	40	8	-	-	-	-	-	-			
Mandla	Radio talks	8	-	-	-	-	-	-	-			
Mandla	TV talks	4	-	-	-	-	-	-	-			
Mandla	Popular articles	20	09	-	-	-	-	-	-			
Mandla	Extension Literature	8	03	-	-	-	-	-	-			
Mandla	Farm advisory Services											
Mandla	Scientific visit to farmers field	20	111	140	20	386	14	0	0			
Mandla	Farmers visit to KVK	8	33	56	5	57	8	0	0			
Mandla	Diagnostic visits	20	14	40	0	53	0	2	0			
Mandla	Exposure visits	-	-	0	0	0	0	0	0			
Mandla	Ex-trainees Sammelan	-	-	0	0	0	0	0	0			
Mandla	Soil health Camp	02		0	0	0	0	0	0			
Mandla	Animal Health Camp	03	02	25	0	12	0	0	0			
Mandla	Agri mobile clinic	01	0	0	0	0	0	0	0			
Mandla	Soil test campaigns	01	0	0	0	0	0	0	0			
Mandla	Farm Science Club conveners meet	02	0	0	0	0	0	0	0			
Mandla	Self Help Group conveners meetings	02	0	0	0	0	0	0	0			
Mandla	Mahila Mandals conveners meetings	04	0	0	0	0	0	0	0			
Mandla	Celebration of important days ( )	02	02	32	27	66	47	-	-	Partheniou m day,Hindi Chetana Diwas	Parthenioum day,Hindi Chetana Diwas	-



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

### 7.1 KVK Newsletters

KVK Name	Date of start	Periodicity	Number of copies printed	Number of copies distributed
Mandla	April –June 2013	Three month	1000	1000
Mandla	July-Sep. 2013	Three month	1000	1000
Mandla	October -Dec. 2013	Three month	1000	1000

### 7.2 Literature developed/published

KVK Name	Type	Title	Author's name	Number of copies
Mandla	Tech Bulletin No. 1	Dalhani avaim tilahani phaslo ki utpadan takniki	Neelu Vishwakarma, H.S.Rai, R.K.Swarnkar, Vishal Meshram, V.S. Suryawanshi, Pramod Sharma, Reshma Jhariya	200
Mandla	Pocket Bulletin No. 1	Krishak Labarth Yojna	Neelu Vishwakarma and H.S.Rai	100
Mandla	Folder	Sabjiyo ke swasthyawardak gund paye poshak watika se	Neelu Vishwakarma and H.S.Rai	30
Mandla	Folder	Women Friendly Improved Implements	Er. R.K. Swarnkar Neelu Vishwakarma and H.S.Rai	30

### 7.3 Details of Electronic Media Produced

KVK Name	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
Mandla	CD	Wooden seed drill for Miner Millets	01

## 8. Production and supply of Technological products

### 8.1 SEED production

KVK Name	Major group/class	Crop	Variety	Quantity (qt.)	Value (Rs.)	Provided to No. of Farmers	Expected area coverage (ha.)
Mandla	Minor millets	Ragi	GPU-48	3.6	12600	29	42 ha
Mandla	Oil seed	Linseed	JLS-27	7.2	33120	50	36 ha
Mandla	Pulses	Pigeon pea	TJT -501	12.5	150000	-	-
Mandla	Oil seed	Linseed	JLS-27	11.5	52900	-	-

### 8.2 Planting Material production-NA

KVK Name	Major group/class	Crop	Variety	Nos.	Value (Rs.)	Provided to No. of Farmers	Expected area coverage (ha.)
Mandla							
Mandla							
Mandla							
Mandla							

### 8.3 Production Units (bio-agents / bio pesticides/ bio fertilizers etc.) \* Name of product should follow same pattern and spelled correct -NA

KVK Name	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.)
Mandla	Bio Agents						
Mandla	Bio Agents						
Mandla	Bio Fertilizer						
Mandla	Bio Fertilizer						

### 8.4 Livestock and fisheries production

KVK Name	Name of the animal / bird / aquatics	Breed	Type of Produce	Qty. (kg/qt./litre )	Value (Rs.)	No. of Beneficiaries
Mandla	Goat	Jamunapari	-	-	-	-

## 9. Activities of Soil and Water Testing Laboratory

### 9.1 Details of soil samples analyzed so far:

KVK Name	Status of establishment of Lab	Year of establishment	Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized	Soil report distributed to the farmers (Nos)
Mandla	-	-	Under ATMA Convergence Pro.	517	517	34	0	517

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

KVK Name	Status of establishment of Lab	Year of establishment	Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized	Water report distributed to the farmers (Nos)

## 10. Rainwater Harvesting -NA

### Training programmes conducted by using Rainwater Harvesting Demonstration Unit

Name of KVK	Date	Title of the training course	Client (PF/RV/EF)	No. of Courses	No. of Participants including SC/ST			No. of SC/ST Participants		
					Male	Female	Total	Male	Female	Total

## 11. Utilization of Farmers Hostel facilities- Use as Office Building

KVK Name	Months	Year	Title of the training course	Duration of training	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)	Accommodation available (No. of beds)

## 12. Utilization of Staff Quarters facilities- Under construction

KVK Name	Year of construction	Year of allotment	No. of quarters occupied	No. of quarters vacant	Reasons for vacant quarters, if any
	-	-	-	-	-

## 13. Details of SAC Meeting

KVK Name	Date of SAC meeting	No. of SAC members attended	Major recommendations
Mandla	01.08.2013	16	1. literature should be published on need base of the district 2. Demonstration should be conducted on Animal nutrition. 3. Training must be conducted on Bio fertilizer unit for farm women and rural youth.

			4.Demonstraion should be conducted on Kitchen garden and nursery management 5. Demonstration must be conducted on INM in major crop of the district. 6.Small fisheries unit demonstrated at KVK farm
Mandla	20.12.2013	17	1.Demonstration must be conducted on INM in major crop of the district. 2. .Demonstration should be conducted on Soil and water management 3. .Demonstration should be conducted on Women friendly equipments and farm machinery.

#### 14. Status of Kisan Mobile Advisory (KVK-KMA)

KVK Name	No. of messages sent	No. of beneficiary		Sponsoring agency (NIC, Farmers Portal, etc.)	Major recommendations
		Farmers	Ext. Pers.		
1	198	23735	130	NIC-1735, Farmers Portal -22000	Every discipline like Agronomy ,Plant protection, Horticulture Veterinary ect.

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

KVK Name	Name of scheme	Name of Agency (Central/state)	Funds received (Rs.)	Activities organized	Operational Area	Remarks
Mandla	ATMA FLD	ATMA Mandla	400000=00	SMI in Mustard	Mandla and Narayanganj	
Mandla	Sugarcane	ATMA Mandla	-	Introduced new varieties of Sugarcane	Diwara (Bichhiya block)	

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

KVK Name	Account No.	Opening balance (Rs.)	Closing balance (Rs.)	Current status (Rs.)
Mandla	20031	207072	223475	223475

#### 17. Awards & Recognitions- Nil

KVK Name	Name of award /awardee	Type of award (Ind./Group/Inst./Farmer)	Awarding Organizations	Amount received
				-

## 18. Details of KVK Agro-technological Park .

### a) Have you prepared layout plan, where sent?

S.No.	Name of KVK	Technology park proposal developed(yes/no)	If yes, where sent ? (ZPD/DES/any other, pl. sp.)

### b) Details about Technology Park

Name of KVK	Name of Component of Park	Detail Information (If established)
Mandla	Crop Cafeteria	<p><b>Kharif</b></p> <p><b>Paddy</b> PS-1,PS-5, Tarori Basmati, IR-64, IR-36, JR -201, Mahamaya, JRH-8, JRH-5 MTU-1010, MTU 1081, Bamleshwari, Shamleshwari,, WGL-32100</p> <p><b>Soybean</b> JS-9752, JS-9560, JS-335</p> <p><b>Green Gram</b> – Ganga-8, JM- 721, TN-99-37, Samrat</p> <p><b>Black Gram</b> PDU-4, LBG-20, T-9, PU-35</p> <p><b>Niger</b> – JNC-1, JNC-9</p> <p><b>Pigeon pea-</b> TJT-501</p> <p><b>Rabi</b></p> <p><b>Finger millet</b> JK-39, JK-439,</p> <p><b>Wheat</b>-HI-8498, GW-273, JW -2004, JW -3173, JW-3020, JW-3269,JW -3211, JW-17, Sujata,</p> <p><b>Gram</b> – JG-226, JG-218, JG-130,JG-315,JG-11, JG-74,JGK-3, JGG-1, JG-12, JG-14</p> <p><b>Linseed</b> JL-27, JL-9, <b>Mustered-</b> JM-2,Pusa –Agrani.</p>
Mandla	Nutritional Kitchen Gardening	<p><b>Late Kharif-Torai</b>-Chikani, Franc bean,Brijal-D-36 Purple cluster,Bottel Gourd-PSPC,Chilli-All aeason, Tomato-HRSC-4,Cholai,Bhindi-VRO-6,Cow pea</p> <p><b>Rabi-Tomato-F1</b>hybrid (Lakshmi),Brijal-PK123 F1hybrid,Fenugrik-Mahak,Brinjal-Long F1hybrid 4715,Onion- Agri Redfound,Corrender- Green, Spinach- Aver Green, Cauliflower-white Excel, Cabbage-royal, Chilli-All aeason</p>
Mandla	Technology Desk	
Mandla	Visitors Gallery	<b>Net House, Poly House and Mushroom unit.</b>
Mandla	Technology Exhibition	<b>Vermicompost, Goatery, Micro irrigation system, BGA production</b>
Mandla	Technology Gate-Valve	

## 19. 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 farmer with Mobile No.
1	Mandla	Shri Amrit Lal Dhanger	Developed Line Sowing Devices	Bamhani Block,Mandla,M.P. (Mobile No.: 09301777894)

2	Mandla	Shri Harpal Kachhwaha	Miler Millets Hulling	Vill.- Sakwaha , Mandla . Mob. – 9926549568
3	Mandla	Shri Vishwnath Paraste	wooden seed drill	Harsingori riyat,Niwas
4	Mandla	Shri Ram kumar Chahal	Horticulture Crop	Mohaniya Patpara
5	Mandla	Sri Ramesh Tiwari	High Tech. Horticulture Crop	Paizwara,Mandla

## 20. KVK interaction with progressive farmers

Sr. No.	Date and month of interaction programme with progressive farmers	No. of progressive farmers to be participated

## 21. Outreach of KVK

Name of KVK	Number of Blocks		Number of Villages	
	Intensive	Extensive	Intensive	Extensive
Mandla	Kindri,Bakchheradona,Pondimal,Mohgoun Chak Malara,Malari,Mohaniya patpara,Saliya,Diwara, Sarritola,Tharka,Bijegaoun,Sonthar,Banar,Jebara,	Manot Jar,Mavai Jar,Mavaijar,Mohaniya Patpara,Mohgaon chak,Mohgaonriyat, Mohgaonvachak,Mohgaw Chack,Mohgaw Ryt Mudadih,Mudadih Mal.,Mudadih Ryt.,Narandgarh,Narendragarh,Nidhani Patpar Singarpur,Piparpani,Podi Mal,Saliya Silpura,Silpuri,Singarampur,Singarpur,Tikarwara Tikra Berpani,Uwardih	16	35

Intensive- OFTS, FLDS etc

Extensive- Literatures, Publications, Awareness programmes etc.

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

Sr. No.	Name of crop under Technology demonstration	Area under the programme	No. of Extension Activities	Remarks / Lessons learnt

## 23. KVK Ring

Sr. No.	Name of Ring Partner	Sharing Activity	Lessons learnt/ Experiences gained.
1	Dindori	Manpower/SMSs (M), Materials/inputs(M), Machinery /Technologies	

2	Seoni	Manpower/SMSs (M), Materials/inputs(M), Machinery /Technologies	
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#### 24. Important visitors to KVK

Name of KVK	Name of Visitor	Date of Visit	ICAR	SAUs	Others	Remarks
Mandla	Dr. Anupam Mishra	31.05.2013	PD,ZoneVii,ICAR, Campus Jabalpur	-	-	KVK –ATMA,5000 Farmers Convergence Meeting
Mandla	Dr. P.K. Mishra	01.08.2013		DES,JNKVV,Jabalpur	-	SAC Meeting
Mandla	Dr. P.K. Bisen	20.12.2013		JDES,JNKVV,Jabalpur	-	SAC Meeting
Mandla	Dr. V.S.Tomar	25.12.2013		V.C., JNKVV,Jabalpur	-	Visit and Monitoring

#### 25. Status of KVK Website:

Sr. No.	Name of KVK	Date of start of website	No. of updates since inception	No. of visitors
1	Mandla	2010-11	03	-

#### 26. E-CONNECTIVITY -NA

Name of KVK	Number and Date of Lecture delivered from KVK Hub				No. of lectors organized by KVK	Brief achievements	Remarks
	Date	No. of Staff attended	No. of call received from Hub	No. of Call mate to Hub by KVK			

#### 27. Status of RTI

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

#### 28. Status of Citizen Charter

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

### 29. Attended HRD Programmes organized by ZPD

Name of KVK	Name of Staff	Post held	Programme attended (Nos)	Remarks
Mandla	Dr. H.S. Rai	Programme Coordinator	5	
Mandla	Dr. Neelu Vishwakarma	SMS	1	
Mandla	Er. R.K. Swarnakar	SMS	3	
Mandla	Shri Vishal Meshram	SMS	2	
Mandla	Dr. Pramod Sharma	PA	1	
Mandla	Sri Vijay S. Suryavanshi	PA	1	
Mandla	Smt. Reshma Jhariya	PA	1	

Name of KVK	Total Number of staff Attended HRD Programme organized by ZPD (nos)	Total Number of Programme attended (Nos)
Mandla	14	14

### 30. Attended HRD Programmes organized by DES

Name of KVK	Name of Staff	Post held	Programme attended (Nos)	Remarks
Mandla	R K Swarnakar	SMS	1	
Mandla	Dr. Neelu Vishwkarma	SMS	1	
Mandla	Sh. V. Suryawanshi	PA (Agronomy)	1	

### 31. Attended HRD Programmes by KVK Staff (Refresher course, Short course, Training programme etc.)

Name of KVK	Name of Staff	Post held	Programmes attended (Nos)	Remarks
Mandla	Dr. Pramod Sharma	Programme Assistant(Vety.- LPM)	01	
Mandla	Shri V.S. Suryavansi	P.A.	01	

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

Name of KVK	Alert observed	Particulars	Reported to organization

### 33. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

Name of KVK	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
Mandla	Hindi Chetana Saptah	02	172	Hindi Chetana Saptah

### 34. INTERVENTIONS ON DROUGHT MITIGATION



### Introduction of alternate crops/varieties

Name of KVK	Crops/cultivars	Area (ha)	Number of beneficiaries

### Major area coverage under alternate crops/varieties

Name of KVK	Crops	Area (ha)	Number of beneficiaries

### Farmers-scientists interaction on livestock management

Name of KVK	Livestock components	Number of interactions	No. of participants

### Animal health camps organized

Name of KVK	Number of camps	No. of animals	No. of farmers
Mandla	2	37	37

### Seed distribution in drought hit states

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

### Seedlings and Saplings distributed

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

### Bio-control Agents

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

### Bio-Fertilizer

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

### Vermis Produced

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

### Large scale adoption of resource conservation technologies

Name of KVK	Crops/cultivars and gist of resource conservation technologies introduced	Area (ha)	Number of farmers

### Awareness campaign

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

## 35. Proposal of NICRA

### 1. Technologies to be Demonstrated

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

### 2. Proposed Extension Activities in NICRA Village

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

### 3. Proposed Training Activities in NICRA Village

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

### 4. Proposed Activities for Fodder Bank

Established (Years)	Capacity	Current Status

### 5. Proposed Activities for Seed Bank

Established (Years)	Capacity	Current Status

### 6. Public Representative/District Administration Visited in NICRA Village

Name of Representative/Officer	Designation	Date of Visit	Any Special Remark by Visitors

### 7. Feedback of Farmers for future improvement, if any.

### 36. Proposed works under NAIP (in NAIP monitoring format)

**37. Case study / Success Story to be developed – Two best only in the following format**

Name of the KVK, **TITLE, Introduction**, KVK intervention, Output, Outcome, Impact

<b>Sr. no.</b>	<b>Name of KVK</b>	<b>No. of success stories</b>	<b>No. of case studies</b>

**38. Well labeled Photographs for each activity of the KVK (Soft copies as well as hard copy- specially for all OFT along with the problem) –**

**Success Story of wooden seed drill**  
**Shri Vishwnath Paraste**

Shri Vishwnath Paraste is a tribal farmer of village Harsingori block Niwas, district Mandla was a poor farmer cultivating minor millets like Kodo, Kutki and Ragi through broadcasting method. His production was very poor about 2.5 q/ha. i.e. very low and his life was not good condition. KVK Mandls scientist visited his village and suggested him about line sowing practices but there was no line sowing implement due to small seeded crop. He was motivated and he thought to prepare bullock drawn wooden seed drill implement. Wooden Seed drill was developed using locally available materials i.e. Wood for frame, Locally available tin or iron sheet such oil container tin, angle iron, Iron rod, Iron *patti* and tools viz. Tin sheet cutter or scissors, Hammer, Chisels, Kneels, Hacksaws for wood and iron cutting etc. The developed seed drill has three Components one, Wooden frame with bullock hitching arrangement similar to *buKKhar*, two, Seed box with lever for opening for seed drop and three, Tines for opening furrows. The wooden seed drill has four lines for sowing.

KVK Mandla provided not only technical support but also some necessary equipments and tools to the farmer for modification of existing wooden seed drill. Now line sowing practices has been adopted by Shri Paraste as well as nearby villages and inter culture operation also done easily in due time. Due to this improved line sowing practice they are getting about 8-10 q/ha yield of minor millet. The developed wooden seed drill is in demand among the other farmers in the district and now Shri Paraste's life is happ

Photo / Diag

