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# **KRISHI VIGYAN KENDRA, MANDLA**



**ANNUAL REPORT FOR THE PERIOD  
FROM APRIL 2010 TO MARCH 2011**

**JAWAHARLAL NEHRU KRISHI VISHWA VIDYALAYA,  
JABALPUR 482004 (M.P.)**

## REPORTING PERIOD – April 2010 to March, 2011

### Summary of achievements during the reporting period

KVK Name	Activity	Target		Achievement		Total value of resource generated/Fund received from diff. sources (Rs.)
		Number of activity	No. of farmers/ beneficiaries	Number of activity	No. of farmers/ beneficiaries	
Mandla	OFTs	12	60	12	60	
Mandla	FLDs – Oilseeds (activity in ha)	2	24	2	24	
Mandla	FLDs – Pulses (activity in ha)	2	24	2	24	
Mandla	FLDs – Cotton (activity in ha)	0	0	0	0	
Mandla	FLDs – Other than Oilseed and pulse crops(activity in ha)	7	35	8	55	
Mandla	FLDs – Other than Crops (activity in no. of Unit/Enterprise)	1	5	1	5	
Mandla	Training-Farmers and farm women	60	1500	60	1539	
Mandla	Training-Rural youths	13	130	4	60	
Mandla	Training- Extension functionaries	13	260	6	130	
Mandla	Extension Activities	65	3000	62	3015	
Mandla	Seed Production (Number of activity as seeds in quintal)	4	20	2	13.26	80046
Mandla	Planting material ((Number of activity as quantity of planting material in quintal)	0	0	4	400	2000
Mandla	Seedling Production (Number of activity as number of seedlings in numbers)	0	0	0	0	-
Mandla	Sapling Production (Number of activity as number of sapling in numbers)	0	0	0	0	-
Mandla	Other Bio- products (Biofertilizers, vermicompost, biofungicide)	-	-	-	1000	20718
Mandla	Live stock products	-	-	10	1	33150
Mandla	SAC Meeting (Date & no. of core/official members- 31.5.10 & 18.10.10)	2	40	2	37	
Mandla	Newsletters (no.)	4	4000	4	4000	
Mandla	Publication (Research papers, popular article)	6	9000	4	6880	
Mandla	Convergence programmes / Sponsored programmes	-	-	3	130	45000
Mandla	KVK-ATMA Linkage programme (Number of activities)	-	-	5	250	-
Mandla	Outreach of KVK in the District (No. of blocks, no. of villages) 9 & 900	40	950			
Mandla	Soil sample tested	-	-	-	-	-
Mandla	Water sample tested	-	-	-	-	-
Mandla	KMA (No. of messages & beneficiaries)	-	-	102	1570	

# 1. GENERAL INFORMATION

## 1.1. Staff Position (as on date)

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	12,000-18300	39960	02.08.06	Temporary	Others
Mandla	Subject Matter Specialist1	Dr. Neelu Vishwakarma	SMS	Ph.D.	Home Science	8000-13500	15600	24.01.07	Temporary	OBC
Mandla	Subject Matter Specialist2	Shri M.S. Morya	SMS	M.Sc., NET	Horticulture	8000-13500	15600	14.2.07	Temporary	ST
Mandla	Subject Matter Specialist3	Shri G.S. Gathiye	SMS	M.Sc.	Agronomy	8000-13500	15600	6.3.07	Temporary	SC
Mandla	Subject Matter Specialist4	-	SMS	-	-	8000-13500		-	-	-
Mandla	Subject Matter Specialist5	-	SMS	-	-	8000-13500		-	-	-
Mandla	Subject Matter Specialist6	-	SMS	-	-	8000-13500		-	-	-
Mandla	Programme Assistant	-	-	-	-	9300-34800		-	-	-
Mandla	Farm Manager	-	-	-	-	9300-34800		-	-	-
Mandla	Computer Programmer	Smt. Reshma Jhariya	PA	M.Sc.	Computer	9300-34800	9300	29.03.08	Temporary	SC
Mandla	Accountant / superintendent	-	-	-	-	9300-34800	9300		-	-
Mandla	Stenographer	-	-	-	-	5200-20200	5200		-	-
Mandla	Driver	Shri Gajendra singh Dangi	Driver cum Mechanic	-	-	5200-20200	5200	7.7.08	Temporary	Others
Mandla	Driver	Shri Rajju Singh Rajput	Driver cum Mechanic	-	-	5200-20200	5200	8.7.08	Temporary	Others
Mandla	Supporting staff	-	-	-	-	4440-7440	4440		-	-
Mandla	Supporting staff	-	-	-	-	4440-7440	4440		-	-

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

The district Mandla is situated in the east central part of Madhya Pradesh, III, Agro climatic Zone (Northern Hill of Chhatisgarh). The entire district catchments are the Narmada River and its tributaries. The world's famous Tiger sanctuary, Kanha National Park located in the district. The total geographical area of the district is 4, 67,150 ha. Out of which only 2, 43,800 ha (52.8%) and the total population 894236 out of which ST is 511798, i.e.57.23 % (Gond & Baiga). The district consists 9 blocks, 5 tehsils, 472 Panchayat and 1247 villages. Average Rainfall of the district is 1320 mm. 92% area of the district is rain fed cropping intensity 131%. The Major crop of the district are Paddy (111400 ha), Maize (19000 ha), Pigeon pea (3100 ha), Urid (2900 ha) in Kharif followed by Wheat (38800 ha), peas (15300 ha), Mustard (14300 ha), Lentil (11,500 ha) and Gram (6138 ha.) in Rabi. The Topography of the district is undulating and Soil type is Light soil (11,21,48 ha), Medium soil (78016 ha), Heavy soil (53636 ha).i.e.46,32 &22 % respectively.

## 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	2008-09	Mandla	15 km	1120	422
	Bhapsatola			20 km	1300	480
	Patparsingarpur			22 km	612	205
	Lawer			20 km	678	198
	Silpuri			27 km	542	184
<b>Mandla</b>	Tuiyapani	2008-09 & 2010-11	Nainpur	45 km	738	280
	Khirkhiri			42 km	678	215
	Raiwada			49 km	455	189
	Sagoniya			39 km	1019	377
	Bandha			38 km	636	190

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

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

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

KVK Name	Problem identified	Methods of problem identification
Mandla	Direct seeding.	PRA
Mandla	High weed infestation.	Group dissection
Mandla	Unavailability of quality seed.	Group dissection
Mandla	Poor adoption of agronomical practices and use of improved varieties.	PRA
Mandla	Lack of knowledge of integrated nutrient management.	Group dissection
Mandla	Imbalance use of fertilizer	PRA
Mandla	High infestation of yellow vein mosaic	Farmers visit
Mandla	Low yield of Maize due to stem borer 9. Indiscriminate use of chemical spray	Farmers visit
Mandla	Low yield of Gram due to pest complex	Farmers visit
Mandla	Poor knowledge & unawareness of value addition & processing.	Group dissection
Mandla	No use of improved implements.	PRA
Mandla	Lack of Knowledge and skill about improved Agril. Implements	Group dissection
Mandla	Poor income in backyard poultry	Group dissection
Mandla	Low income in Lac cultivation	Group dissection

## 2. On Farm Testing

### 2.1 Information about OFT

KVK name	Year/season	Problem diagnose	Category of technology (Assessment/Refinement)	Thematic Area	Crop/enterprise	Farming Situations	Title of OFT	No. of trials	Results (with parameter) qtl.		Net Returns (Rs./ha)		Recommendations
									Farmer practice T1	Rec. Tech T2	T1	T2	
Mandla	Kharif 10	Low yield due to use of local variety affected area 115500 ha	Assessment	Improved variety	Paddy	Rainfed	Improved variety of Paddy (JRH-8)	5	28.8	42.3	18180	31530	Improved variety of Paddy (JRH-8)
Mandla	Kharif 10	Low yield (30%) due to heavy infestation of weeds affected area 2600 ha	Assessment	IWM	Soybean	Rainfed	Weed management in Soybean	5	8.2	10.9	6540	11543	Weed management in Soybean
Mandla	Kharif 2010	Imbalance use of fertilizers (NPK 60:20:0 /ha) area affected 595 ha	Assessment	INM	Brinjal	Irrigated	Nutrient management in Brinjal	5	112	151	18800	32900	Nutrient management in Brinjal
Mandla	Kharif 2010	Imbalance use of fertilizers (50:20:0 NPK/ha) area affected 952 ha	Assessment	INM	Tomato	Irrigated	Nutrient management in Tomato	5	153.5	218	28000	56700	Nutrient management in Tomato
Mandla	Kharif 2010	Low efficiency & high drudgery in farm women during cleaning & grading of grain	Assessment	Drudgery reduction	Wheat	-	Drudgery reduction & efficiency enhancement through hand operated double screen grain cleaner in Wheat	5	22 kg/hr	220 kg/hr			Drudgery reduction & efficiency enhancement through hand operated double screen grain cleaner in Wheat
Mandla	Kharif 2010	Low income of farm women due to no processing of Mango	Assessment	Income generation	Mango	-	Income generation of farm women through value addition of Mango by making amchoor	5					Income generation of farm women through value addition of Mango by making amchoor
Mandla	Rabi 10-11	Low yield due to use of old (Sujata) variety	Assessment	Variety replacement	Wheat	Limited irrigation	Improved variety of Wheat (JW-3173)	5	1565	2190	8680	14656	Improved variety of Wheat (JW-3173)

		affected area 29400 ha											
Mandla	<b>Rabi 2010- 11</b>	Low yield due to use of old (JG-315) variety affected area 5800 ha	<b>Assessment</b>	<b>Variety replacement</b>	Gram	<b>Rainfed</b>	Improved variety of Gram (JG-16)	5	710	970	6188	10775	Improved variety of Gram (JG-16)
Mandla	<b>Rabi 2010- 11</b>	Imbalance use of fertilizers area 1600 ha	<b>Assessment</b>	<b>INM</b>	<b>Garden pea</b>	<b>Irrigated</b>	Nutrient management in Garden pea	5	6	9.5	2200	7400	Nutrient management in Garden pea
Mandla	<b>Rabi 2010- 11</b>	Low yield due to infestation of purple blotch in Onion area 573	<b>Assessment</b>	<b>IDM</b>	Onion	<b>Irrigated</b>	Technology for control of purple blotch in Onion	5	91	120	25500	38200	Technology for control of purple blotch in Onion
Mandla	<b>Rabi 2010- 11</b>	Low efficiency & high drudgery in farm women during cleaning & grading of grain in Gram	<b>Assessment</b>	<b>Drudgery reduction</b>	<b>Hand operated double screen grain cleaner</b>	-	Drudgery reduction & efficiency enhancement through hand operated double screen grain cleaner in Gram	5					Drudgery reduction & efficiency enhancement through hand operated double screen grain cleaner in Gram
Mandla	<b>Rabi 2010- 11</b>	Value addition	<b>Assessment</b>	<b>Value addition of Aonla</b>	Aonla	-	Value addition of Aonla	5			180	1500	Value addition of Aonla

## 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	Demo	Check	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	Improved variety of Paddy (JRH- 8)	yield q/ha	42.3	28.8	13500	15000	-	31680	46530	-	18180	31530	-	2.3	3.1	-
Mandla	Weed management in Soybean	yield q/ha	10.9	8.2	11500	12437	-	18040	23980	-	6540	11543	-	1.5	1.92	-
Mandla	Nutrient management in Brinjal	yield q/ha	151	112	26000	27500	-	44800	60400	-	18800	32900	-	1.7	2.19	-
Mandla	Nutrient management in Tomato	yield q/ha	218	153.5	29400	30500	-	57400	87200	-	28000	56700	-	1.95	2.85	-
Mandla	Drudgery	Out put	220	22												

	reduction & efficiency enhancement through hand operated double screen grain cleaner in Wheat	kg/hr														
Mandla	Income generation of farm women through value addition of Mango by making amchoor	Rs/kg	Value addition 5kg/unit	No Value addition 5kg/unit	125	145	-	125	190	-	0	35	-	-	1.31	
Mandla	Assessment of improved variety of Wheat (JW-3173)	yield q/ha	21.90	15.65	10100	11624	-	18780	26280	-	8680	14656	-	1.84	2.26	-
Mandla	Assessment of improved variety of Gram (JG-16)	yield q/ha	9.70	7.10	9432	10565	-	15620	21340	-	6188	10775	-	1.65	2.01	-
Mandla	Nutrient management in Garden pea 246 ha	yield q/ha (Green pea)	9.5	6	9800	11600	-	12000	19000	-	2200	7400	-	1.22	1.63	-
Mandla	Technology for control of purple blotch in Onion	yield q/ha	120	91	20000	21800	-	45500	60000	-	25500	38200	-	2.27	2.75	-
Mandla	Low efficiency & high drudgery in farm women during cleaning & grading of grain in Gram	Output kg/h Labor req. Heart rate Beats/min.	270 kg 2 104	34 kg 1 92			-									
Mandla	Value addition	Rs/kg	Value addition 5kg/unit	No Value addition 5kg/unit	450	1300	-	450	1500	-	0	200	-	-	1.12	



## 2.3 Feedback from KVK to Research System

Name of KVK	Feedback
<b>Mandla</b>	Paddy variety found suitable for upland condition and was liked by the farmers due to its high yield potential.
<b>Mandla</b>	Technology found effective to control many weeds existing in Soybean
<b>Mandla</b>	The technology found beneficial due to big size of the fruit & more yield in Brinjal
<b>Mandla</b>	The technology found beneficial due to big size of the fruit & more yield in Tomato
<b>Mandla</b>	Variety found for more yield, suitable for limited irrigation, bold grain size in Wheat
<b>Mandla</b>	Variety found for more yield, suitable for limited irrigation, bold grain size in Gram

### 3. Achievements of Frontline Demonstrations

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

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-4) under SRI Method	Field visits, Field day, Kisan gosthi, trainings	6	45	25
Mandla	Paddy	Weed Management	Chlorimuron +Metsulfuron (Almix) @ 4g /ha after 15-20 DAS + 1 hand weeding at 30-35 DAS	Field visits, Field day, Kisan gosthi, trainings	16	110	51
Mandla	Pigeon pea	Varietal Evaluation	Improved variety (JKM-189)	Field visits, Field day, Kisan gosthi, trainings	9	95	40
Mandla	Soybean	Varietal Evaluation	Improved variety of Soybean (JS 97-52)	Field visits, Field day, Kisan gosthi, trainings	8	62	30
Mandla	Tomato	INM	Control of flower & fruit drop 20 ppm NAA spray at flowering stage	Field visits, Field day, Kisan gosthi, trainings	4	15	4
Mandla	Mango + Ginger	Intercropping	Improved Variety (Suprabha) as intercrop	Field visits, Field day, Kisan gosthi, trainings	3	9	2
Mandla	Paddy	Drudgery reduction	Drudgery reduction using improved weeder ( <i>Tauchigurma</i> )	Field visits, Field day, Kisan gosthi, trainings	6	42	20
Mandla	Lac	Income Generation	Tertiary branches are pruned with sharp implements and secateurs for maximum branching and minimum damage to trees through Ranginee Lac insect	Field visits, Field day, Kisan gosthi, trainings	20	80	-
Mandla	Wheat	Weed Management	Isoproturon 1000 g+2-4-D 500 gm at 25-30 DAS	Field visits, Field day, Kisan gosthi, trainings	5	38	22
Mandla	Linseed	IPM	Early planting (15 oct. to 1st week of Nov.) + need based application of systemic insecticide	Field visits, Field day, Kisan gosthi, trainings	7	43	12
Mandla	Chilli	INM	Use of vermi compost/FYM + RDF (100:50:50) + Azotobactor	Field visits, Field day, Kisan gosthi, trainings	3	14	4
Mandla	Cabbage	INM	Use of vermicompost + RDF (150:100:40 NPK) + azotobactor	Field visits, Field day, Kisan gosthi, trainings	4	15	5
Mandla	Maize	Drudgery reduction	Use of Improved tool (Maize sheller)	Field visits, Field day, Kisan gosthi, trainings	12	60	-
Mandla	Backyard Poultry	Income Generation	Improved breed Krishna-J (Dual purpose coloured Bird)	Field visits, Field day, Kisan gosthi, trainings	4	25	-

### 3.2 Details of FLDs implemented

KVK Name	Thematic area	Name of Crop/Enterprise	Season and year	Technology demonstrated	Crop- Area (ha) / Entrep - No.	Name of Variety/Technology/Entreprizes	Results (q/ha)		% change	No. of farmers				
							Demons	Check		SC	ST	OBC	Others	Total
Mandla	INM	Paddy	Kharif 2010	Biofertilizers (Azoto & PSB)+ RDF (80:40:30 NPK)+ 5 kg Zn/ha	Paddy-2	Nutrient Management in Low land	24.10	17.80	35.39	-	3	1	1	5
Mandla	INM	Soybean	Kharif 2010	Biofertilizers + NPKS 20:60:20:20 + 5 kg Zn/ha	Soybean-5	Nutrient management	12.10	8.70	39	-	5	2	5	12
Mandla	Variety replacement	Pigeon pea	Kharif 2010	Improved variety (ICPH-2671)	Pigeon pea-5	ICPH-2671	3.10	2.24	51.7	-	12	-	-	12
Mandla	INM	Cauliflower	Kharif 2010	Use of B (1Kg) for improve in the quality	Cauliflower-1	Micronutrient Management on growth & yield	150.6	120.2	24.46	-	-	5	-	5
Mandla	IPM	Brinjal	Kharif 2010	Clipping of damaged shoots followed by releasing of egg parasitoid <i>Trichogramma chilonis</i> @ 50000/week starting from shoot damage combined with two sprays of dipel at peak flowering	Brinjal-1	Management of fruit & shoot borer in brinjal	153	110.2	38.8	-	3	2	-	5
Mandla	Drudgery reduction	paddy marker	Kharif 2010	Efficiency enhancement through paddy marker in SRI method of transplanting	1 ha.	Paddy marker in SRI method of transplanting	57.60	27.57	208%	-	9	1	-	10

Mandla	Value addition	Kodo, Kutki	Kharif 2010	Income generation of farmwomen through value addition of Miner millets (Kodo, Kutki)	10	Value addition of Miner millets (Kodo, Kutki)	80	40	200%	2	8	-	-	10
Mandla	Variety replacement	Wheat	Rabi 2010-11	Improved variety of Wheat (JW-3211)	Wheat-2	JW-3211	22.65	16.39	38	-	-	5	-	5
Mandla	Variety replacement	Gram	Rabi 2010-11	Improved variety of Gram (JG-130)	Gram-5	JG-130	11.90	7.80	52.5	-	-	11	1	12
Mandla	Variety replacement	Mustard	Rabi 2010-11	Improved variety (Pusa Jaikisan)	Mustard-5	Pusa Jaikisan	10.30	7.37	39.7	2	7	2	1	12
Mandla	INM	Tomato	Rabi 2010-11	Use of Boron @ 1 kg/ha	Tomato-1	Micronutrient management in Tomato as per STV	94.8	73.5	28.9	-	-	5	-	5
Mandla	Income generation	Backyard poultry	Rabi 2010-11	Management of Backyard poultry for income generation of farm women	05	Backyard poultry Mortality % Av. wt. /bird after 7 week *to be continue around the year	20%	70% 650 gm.	126%	-	3	2	-	05
Mandla	Nutritional Garden	Seasonal vegetable	Rabi 2010-11	Nutritional kitchen Garden	10	Improved variety of vegetables & Fruits, One season crop *to be continue around the year	1260	680	185%	-	4	-	6	10

### 3.3 Economic Impact of FLD

KVK Name	Name of Crop/ Enterprise	Technology demonstrated	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	Demo	Check	Demo	Check	Demo	Check	Demo	Check	Demo	Local Check
Mandla	Paddy	Biofertilizers (Azoto & PSB)+ RDF (80:40:30 NPK)+ 5 kg Zn/ha	yield q/ha	24.10	17.80	11074	9740	26510	19580	15436	9840	2.39	2.0
Mandla	Soybean	Biofertilizers + NPKS 20:60:20:20 + 5 kg Zn/ha	yield q/ha	12.10	8.70	11306	10258	26620	19140	15814	8882	2.35	1.86
Mandla	Pigeon pea	Improved variety (ICPH-2671)	yield q/ha	3.10	2.24	8506	6837	9920	7168	1414	331	1.17	1.04
Mandla	Cauliflower	Use of B (1Kg) for improve in the quality	yield q/ha	150.6	120.2	27960	26000	75300	60100	47340	34100	2.69	2.30
Mandla	Brinjal	Clipping of damaged shoots followed by releasing of egg parasitoid <i>Trichogramma chilonis</i> @ 50000/week starting from shoot damage combined with two sprays of dipel at peak flowering	yield q/ha	153	110.2	27000	25500	61200	44080	34200	18580	2.26	1.72
Mandla	<b>Paddy</b>	<b>Efficiency enhancement through paddy marker in SRI method of transplanting</b>	Labor cost (Rs/ha)	1125	2375		-		-		-		-
			Time consumed(hrs/ha)	72	152		-		-		-		-
			Physiological stress a-Heart rate (bpm)	78	76		-		-		-		-
			b-Energy expenditure(kJ)	4.20	3.99		-		-		-		-

Mandla	<b>Kodo</b>	<b>Income generation of farmwomen through value addition of Miner millets (Kodo, Kutki)</b>	5kg/unit	-	40	140	40	180	0	40	1.28	0	
Mandla	Wheat	Improved variety of Wheat (JW-3211)	yield q/ha	22.65	16.39	11269	9985	27180	19668	15911	9683	2.41	1.96
Mandla	Gram	Improved variety of Gram (JG-130)	yield q/ha	11.90	7.80	9791	8727	26180	17160	16389	8433	2.67	1.9
Mandla	Mustard	Improved variety (Pusa Jaikisan)	yield q/ha	10.30	7.37	7178	6675	20600	14740	13422	8065	2.86	2.2
Mandla	Tomato	Use of Boron @ 1 kg/ha	yield q/ha	94.8	73.5	23960	22000	37920	29400	13960	7400	1.58	1.3
Mandla	Gram	Management of Backyard poultry for income generation of farm women	Mortality% Av. Wt./week	do	do								
Mandla	Seasonal Vegetables & fruits	Nutritional kitchen Garden	Av. Return/Unit	do	do								

### 3.4 Feedback of the Farmers

Name of KVK	Feedback
<b>Mandla</b>	The technology found beneficial due to bold seed & more yield in Paddy crop
<b>Mandla</b>	The technology found beneficial due to bold seed, more no. of pods & more yield in Soybean crop
<b>Mandla</b>	Variety ICPH-2671 of Pigeon pea found suitable for Rainfed condition and was liked by the farmers due to its high yield potential, medium duration
<b>Mandla</b>	The technology found economic due to big size of the fruit, more yield in Cauliflower & less deficiency symptoms of boron found
<b>Mandla</b>	Farmers liked the technology due to less infestation by insects & more yield in Brinjal
<b>Mandla</b>	Yield of JW-3211 was good as compared to Sujata & height was medium. Variety is suitable for limited irrigation in Wheat crop
<b>Mandla</b>	The variety JG-130 can be used in Rainfed/ irrigation situation in medium soil & Yield was good & less incidence of wilt in Gram crop
<b>Mandla</b>	Pusa Jaikisan variety of Mustard found suitable for Rainfed/irrigated situation & more yield potential.

### 3.5 Training and Extension activities under FLD

KVK Name	Crop	Activity	No. of activities organized	Number of participants	Remarks
Mandla	Soybean	Field days	1	26	-
		Farmers Training	1	29	-
		Media coverage	-	-	-
		Training for extension functionaries	1	31	-
Mandla	Pigeon pea	Field days	1	27	-
		Farmers Training	2	47	-
		Media coverage	-	-	-
		Training for extension functionaries	1	22	-
Mandla	Paddy	Field days	1	21	-
		Farmers Training	2	56	-
		Media coverage	-	-	-
		Training for extension functionaries	1	31	-
Mandla	Mustard	Field days	1	25	-
		Farmers Training	2	28	-
		Media coverage	-	-	-
		Training for extension functionaries	-	-	-
Mandla	Wheat	Field days	1	29	-
		Farmers Training	1	28	-
		Media coverage	-	-	-
		Training for extension functionaries	1	28	-

### 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 Farmwomen	diagnostic field visit, PRA tools, group discussion, and exploratory survey etc.	31.04.11 & Devhar	38
Mandla	Farmers and Farmwomen	diagnostic field visit, PRA tools, group discussion, and exploratory survey etc.	23.10.10 & Mohania patpara	50
Mandla	Rural youth	diagnostic field visit, PRA tools, group discussion, and exploratory survey etc.	29.01.11 & Jhalpani	34
Mandla	Rural youth	diagnostic field visit, PRA tools, group discussion, and exploratory survey etc.	24.3.11 & Devgaon	36

## 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

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

Name of KVK	Category	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	Participants							
							General		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
Mandla	FW	ONC	CRP	Productivity Enhancement in Field crop	1	1	-	-	-	-	19	1	7	-
Mandla	FW	ONC	CRP	Seed Production Technology in Rabi Crops	1	1	0	0	1	0	11	0	2	0
Mandla	FW	ONC	CRP	Productivity Enhancement Field Crops of Rabi Season	1	1	-	-	-	-	15	4	3	2
Mandla	FW	ONC	CRP	Seed Production Technology in Rabi Crops	1	1	-	-	4	1	10	0	10	0
Mandla	FW	ONC	CRP	Weed Management in kharif crops	1	1	2	2	1	0	7	1	5	5
Mandla	FW	ONC	CRP	Weed Management in Rabi Crops	1	1	-	-	1	-	27	-	-	-
Mandla	FW	ONC	CRP	Production of Organic Input	1	1	-	-	-	-	10	-	11	0
Mandla	FW	ONC	CRP	Production of Organic Input	1	1	-	-	-	-	10	1	14	-
Mandla	FW	ONC	PLP	Integrated Pest Management	1	3	-	-	-	-	17	-	13	-
Mandla	FW	ONC	PLP	Post Harvest Technology Storage loss minimization technologies	1	1	-	-	-	-	13	-	4	-
Mandla	FW	ONC	HOT	Production and Management technology in Tuber crops	1	1	1	-	3	0	11	0	10	0
Mandla	FW	ONC	WOE	Value added Product Making through Sun drying method at Home Level	1	1	-	-	-	-	-	9	1	6
Mandla	FW	ONC	WOE	Income Generation through Value addition of Miner Millets	1	1	1	0	0	1	0	4	2	6
Mandla	FW	ONC	WOE	Value addition of Soybean	1	1	-	3	-	-	1	3	2	6
Mandla	IS	ONC	PLP	Integrated Pest Management in Kharif Crops	1	1	11	-	6	-	7	-	7	-
Mandla	IS	ONC	HOV	Integrated Pest Management in Vegetable	1	1	3	1	3	-	12	-	3	-
Mandla	IS	ONC	PLP	Integrated Pest Management in Rabi Crops	1	1	6	-	4	-	4	2	9	-
Mandla	IS	ONC	HOF	Cultivation of Fruits	1	1	2	-	2	-	10	-	1	-

Name of KVK	Category	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	Participants							
							General		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
Mandla	IS	ONC	WOE	Gender Main Streaming to SHGs	1	1	-	-	-	-	0	1	9	0
Mandla	IS	ONC	WOE	Low Cost and Nutrient Efficient Diet designing by Local Food Materials	1	1	-	-	-	1	-	20	-	6
Mandla	RY	ONC	HOV	Planting Material Production	1	5	-	-	2	-	4	-	4	4
Mandla	RY	ONC	WOE	Handicrafts of Cloths	1	5	-	-	-	-	-	3	-	17
Mandla	RY	ONC	WOE	Rural Handicrafts	1	5	-	2	-	6	-	1	-	6
Mandla	RY	ONC	WOE	Value addition & preservation techniques of Mango	1	5	-	11	-	-	-	-	-	-
Mandla	FW	OFC	CRP	Seed Protection Techniques of Kharif Crops	1	1	2	-	-	-	20	-	5	-
Mandla	FW	OFC	CRP	Resource Conservation Techniques	1	1	-	-	-	-	20	6	2	-
Mandla	FW	OFC	CRP	Production of Organic Inputs	1	1	2	-	1	-	11	-	4	-
Mandla	FW	OFC	CRP	Weed Management in Kharif Crops	1	1	-	-	-	-	-	3	16	1
Mandla	FW	OFC	CRP	Integrated Pest Management in Kharif Crops	1	1	-	-	1	-	19	-	9	-
Mandla	FW	OFC	CRP	Integrated Disease Management in Kharif Crops	1	1	-	-	-	-	15	2	-	-
Mandla	FW	OFC	WOE	Cultivation technology of Rangeeni Lac	1	1	2	2	1	-	26	4	2	1
Mandla	FW	OFC	WOE	Cultivation technology of Rangeeni Lac	1	1	-	2	1	-	21	13	-	-
Mandla	FW	OFC	HOV	Off Season Vegetables	1	1	-	-	1	-	4	1	22	-
Mandla	FW	OFC	HOV	Protective Cultivation Green Houses Shade Net House etc.	1	1	-	-	-	-	22	1	-	-
Mandla	FW	OFC	HOF	Micro Irrigation System of Orchards	1	1	-	-	-	-	17	-	1	-
Mandla	FW	OFC	HOF	Cultivation of Fruits	1	1	1	-	-	-	19	11	6	1
Mandla	FW	OFC	HOF	Plant Propagation Techniques	1	1	1	-	-	-	23	-	4	-
Mandla	FW	OFC	WOE	Storage Technique of Grains at House hold level	1	1	-	4	-	3	-	1	-	9
Mandla	FW	OFC	WOE	Water Purification Techniques	1	1	-	-	-	-	9	15	-	-
Mandla	FW	OFC	HOF	Cultivation of Fruits	1	1	-	-	2	-	31	-	11	-
Mandla	FW	OFC	CRP	Resource Conservation Technology in	1	1	-	-	1	-	22	-	3	-

Name of KVK	Category	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	Participants							
							General		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
				Kharif Crops										
Mandla	FW	OFC	SFM	Integrated Nutrient Management in Kharif Crops	1	1	-	-	-	-	17	-	13	-
Mandla	FW	OFC	HOV	Nursery Raising in Vegetable Crops	1	1	-	-	-	-	4	-	21	-
Mandla	FW	OFC	PLP	Integrated Pest Management in Paddy Crop	1	1	-	-	-	-	-	-	23	-
Mandla	FW	OFC	CRP	Seed Production Technique of Rabi Crops	1	1	-	-	-	-	18	4	2	1
Mandla	FW	OFC	CRP	Resource Conservation Techniques in Rabi Crops	1	1	-	-	-	-	35	2	13	-
Mandla	FW	OFC	WOE	Location Specific Drudgery Reduction Through Maize Sheller	1	1	-	-	-	-	4	18	-	-
Mandla	FW	OFC	HOT	Production and Management Technology in Tuber Crops	1	1	-	-	-	-	-	-	19	-
Mandla	FW	OFC	WOE	Gender Main Streaming through SHGs of Food Processing	1	1	-	-	-	2	4	6	-	10
Mandla	FW	OFC	HOV	Nursery Management of Vegetables Crops	1	1	1	2	-	-	8	6	2	-
Mandla	FW	OFC	HOF	Cultivation of Fruits	1	1	-	-	-	-	-	-	19	1
Mandla	FW	OFC	HOF	Micro Irrigation System of Orchard	1	1	-	-	-	-	-	-	26	-
Mandla	FW	OFC	SFM	Integrated Nutrient Management in Rabi Crops	1	1	-	-	-	-	26	2	-	-
Mandla	FW	OFC	CRP	Production of Organic Inputs	1	1	-	-	-	-	26	-	-	-
Mandla	FW	OFC	CRP	Production of Organic Inputs	1	1	-	-	-	-	7	20	-	-
Mandla	FW	OFC	PLP	Integrated Pest Management in Rabi Crops	1	1	-	-	-	1	6	3	10	2
Mandla	FW	OFC	WOE	House Food Security by Kitchen Gardening	1	1	-	2	-	-	-	-	-	21
Mandla	FW	OFC	HOF	Micro Irrigation System of Orchards	1	1	1	-	1	-	23	4	5	-
Mandla	FW	OFC	CRP	Resource conservation Technologies	1	1	-	-	-	-	16	12	-	-
Mandla	FW	OFC	HOV	Protective Cultivation Green Houses Shade Net House etc.	1	1	-	-	-	-	12	-	27	-

Name of KVK	Category	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	Participants							
							General		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
Mandla	FW	OFC	HOV	Off Season Vegetables	1	1	2	-	-	-	15	-	5	-
Mandla	FW	OFC	CRP	Post Harvest Management of Rabi Crops	1	1	-	-	2	-	17	-	10	-
Mandla	FW	OFC	CRP	Seed production technology of Wheat crop	1	1	12	2	12	1	20	1	2	-
Mandla	FW	OFC	CRP	Post Harvest management of Wheat	1	1	13	2	14	1	20	0	-	-
Mandla	FW	OFC	CRP	Seed Production Techniques of summer crops.	1	1	1	-	-	-	26	-	-	-
Mandla	FW	OFC	WOE	Efficiency Enhancement Through Double Screen grain cleaner	1	1	-	-	1	-	5	13	1	-
Mandla	FW	OFC	PLP	Integrated Pest Management in Gram	1	1	-	-	-	-	10	-	15	-
Mandla	FW	OFC	SFM	Integrated Nutrient Management in Summer Crops	1	1	2	-	5	-	6	-	21	2
Mandla	FW	OFC	CRP	Production of Organic Inputs	1	1	-	-	6	-	12	-	4	-
Mandla	FW	OFC	WOE	Grain storage in House hold level	1	1	-	-	-	3	-	17	-	-
Mandla	FW	OFC	WOE	income generation activity through value addition	1	1	-	-	-	2	-	16	-	2

**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						
					SC		ST		Others		
					M	F	M	F	M	F	
Mandla	Value addition and preservation techniques of Mango	Mango	Income generation	5	-	-	-	-	-	-	11
Mandla	Handicrafts of cloths		Income generation	5	-	-	-	3	-	-	17
Mandla	Planting material production	Mango	Horticulture production	5	2	-	4	-	4	4	
Mandla	Rutral handicrafts		Income generation	5	-	6	-	1	-	-	8

**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 else where
		Type of units	Number of units	Number of persons employed	
Mandla	Value addition of soybean	Self	2	2	5
Mandla	Lac cultivation	Self	8	8	12
Mandla	Nursery management of Horticultural crops	Self	6	6	10
Mandla	Tailoring & stitching	Self	5	5	4
Mandla	Rural craft	Self	2	2	2

**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/RY/IS)	Duration (days)	No. of courses	No. of Participants						Sponsoring Agency	Fund received for training (Rs.)
							Others		SC		ST			
							M	F	M	F	M	F		
Mandla	Seed production technology of Wheat crop	CRP	Seed production	FW	1	1	14	2	12	1	20	1	GOI	2500
Mandla	Post Harvest management of Wheat	CRP	Storage loss minimization	FW	1	1	13	2	14	1	20	0	GOI	2500
Mandla	Integrated pest management	PLP	plant protection	FW	3	1	8	-	6	-	16	-	ICAR	40000

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

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.)
							Others		SC		ST			
							M	F	M	F	M	F		
Mandla														
Mandla														

**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	Farmers & Farm women	1539	30	55	10	18	12000	21600	1. Area expanded (ha)- <b>55000</b> 2. No. of farmers adopted (no.)- <b>980</b> 3. % change in knowledge, production & Income- <b>65</b>
Mandla	Rural youth	60	28	55	-	-	14000	22000	3. Area expanded (ha)- 4. No. of farmers adopted (no.)- <b>28</b> 3. % change in knowledge, production & Income- <b>65</b>
Mandla	Extension personnel	130	50	70	-	-	-	-	1. % change in knowledge, production & Income- <b>75</b>
Mandla	Sponsored	130	30	50	12	22	14400	26400	1. Area expanded (ha)- <b>20</b> 2. No. of farmers adopted (no.)- <b>100</b> 3. % change in knowledge, production & Income- <b>75</b>

## 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	Topics	Crop Stages
				M	F	M	F	M	F			
Mandla	Field Day	5	5	49	5	66	10	12	5			
Mandla	Kisan Mela	2	1	166	15	218	29	17	8			
Mandla	Kisan Ghosthi	5	5	36	14	90	12	5	2			
Mandla	Exhibition	2	1	166	15	218	29	17	8			
Mandla	Film Show	6	6									
Mandla	Method Demonstrations	-	-									
Mandla	Farmers Seminar	1	1									
Mandla	Workshop	-	-									
Mandla	Group meetings	-	-									
Mandla	Lectures delivered as resource persons	35	35									
Mandla	Newspaper coverage	33	33									
Mandla	Radio talks	6	6									
Mandla	TV talks	4	4									
Mandla	Popular articles	4	4									
Mandla	Extension Literature		8									
Mandla	Farm advisory Services											
Mandla	Scientific visit to farmers field		45									
Mandla	Farmers visit to KVK		32									
Mandla	Diagnostic visits		39									
Mandla	Exposure visits		-									
Mandla	Ex-trainees Sammelan		1									
Mandla	Soil health Camp		1									
Mandla	Animal Health Camp		1									
Mandla	Agri mobile clinic		-									
Mandla	Soil test campaigns		2									
Mandla	Farm Science Club conveners meet		3									
Mandla	Self Help Group conveners meetings		2									
Mandla	Mahila Mandals conveners meetings		1									
Mandla	Celebration of important days- international women day		1									

## 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 2010	Three month	1000	1000
Mandla	July 2010	Three month	1000	1000
Mandla	October 2010	Three month	1000	1000
Mandla	January 2011	Three month	1000	1000

### 7.2 Literature developed/published

KVK Name	Date of start	Periodicity	Number of copies printed	Number of copies distributed
KVK Name	Type	Title	Author's name	Number of copies
Mandla	March 2011	Moong avam Urid ki unnat krishi karyamala	Gathiye,G.S.; Morya, M.S.; Rai, H.S; Dr N. Vishwakarma;	1500
Mandla	March 2011	Kadduvargiya phaslo ki utpadan takniki	Morya, M.S.; Gathiye,G.S.; Rai, H.S; Dr N. Vishwakarma	1500
Mandla	March 2011	Ganne se gur banane ki unnat takniki	Dr N. Vishwakarma;Morya, M.S.; Rai, H.S; Gathiye,G.S.	1500
Mandla	March 2011	Murgipalan hetu prabhandhan takniki	Rai, H.S; Dr N. Vishwakarma; Morya, M.S.; Gathiye,G.S.	1500
Mandla	March 2011	Tamatar ki unnat kheti	Dr N. Vishwakarma; Gathiye,G.S.	1000

### 7.3 Details of Electronic Media Produced: Nil

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

## 8. Production and supply of Technological products

### 8.1 SEED production

KVK Name	Major group/class	Crop	Variety	Type of produce (for Seed produced type hear SD; For Planting Material type here PM)	Quantity	Unit for quantity of produces (qtl for SD and Nos for PM)	Value (Rs.)	Provided to No. of Farmers
Mandla	Cereals	-	-	-	-	-	-	-
Mandla	Pulses	-	-	-	-	-	-	-
Mandla	Oilseeds	Soybean	JS 95-60	SD	12.45	qtl	74700	
Mandla		Niger	JNC-9	SD	0.81	qtl	5346	
Mandla	Fruits	-	-	-	-	-	-	-

### 8.2 Planting Material production: NIL

KVK Name	Major group/class	Name of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
						Variety	Type of Produce	Qty.	Cost of inputs	Gross income	
Mandla											

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

KVK Name	Name of the Product	Qty	Amount (Rs.)		Remarks
			Cost of inputs	Gross income (Rs.)	
Mandla	<b>BIOAGENTS</b>				
Mandla	<b>BIOFERTILIZERS (Vermicompost)</b>	31.1 q	4000	15550	
Mandla	<b>Azotobactor</b>	20 kg		1000	
Mandla	<b>Rhizobium</b>	20 kg		1000	
Mandla	<b>PSB</b>	50 kg		2400	
Mandla	<b>BIO PESTICIDES (Trichoderma)</b>	640 gm		768	

### 8.4 Livestock and fisheries production

KVK Name	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
Mandla	Cattle						
Mandla	Buffalo						
Mandla	Sheep and Goat	<b>Jamunapari</b>	<b>Kids</b>	<b>10</b>		<b>33150</b>	
Mandla	Poultry						
Mandla	Fisheries						
Mandla	Others (Specify)						



## 9. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab : YES/NO, If yes, then

Year of establishment : -

9.1 Details of soil & water samples analyzed so far : NA

KVK Name	Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized
Mandla					
Mandla					

## 10. Rainwater Harvesting

### 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
Mandla	-	-	-	-	-	-	-	-	-	-

11. Utilization of Farmers Hostel facilities: NA

Accommodation available (No. of beds) :

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)
Mandla							
Mandla							

12. Utilization of Staff Quarters facilities: NA

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

### 13. Details of SAC Meeting

KVK Name	Date of SAC meeting	No. of SAC members attended	Major recommendations
Mandla	31.05.2010	18	<ol style="list-style-type: none"> <li>1. Trainings for Extension personnel on Hybrid vegetable production techniques</li> <li>2. Demonstrations on Line sowing of Paddy, Soybean &amp; Maize</li> <li>3. Publication on Organic farming</li> <li>4. Demonstration on Silk rearing at KVK, Farm</li> <li>5. Demonstration on Fish culture</li> <li>6. Demonstration on improved variety of Paddy, Pigeon pea, Mustard, Niger, Kodo &amp; Kutki</li> <li>7. Cultivation of tuber crops like Suran, Tikhur &amp; Bechandi</li> <li>8. Preparation of Model of Social Forestry in the district</li> <li>9. Value addition through establishment of Custard apple pulp processing Unit</li> <li>10. Production of quality Ginger seed for encouragement of improved variety in the district</li> </ol>
Mandla	18.10.2010	19	<ol style="list-style-type: none"> <li>1. Four trainings on vegetable seed production techniques in each season</li> <li>2. Trainings on Silk rearing</li> <li>3. Trainings on Fodder crops in Rabi Season</li> <li>4. Demonstration on Sesame production</li> <li>5. Publication on Soil testing</li> <li>6. Incorporation of Maize varieties in Crop cafeteria</li> <li>7. Training &amp; demonstration on Jaggery/gur making</li> <li>8. Plantation of trees on unutilized land</li> <li>9. Trainings on poultry, goatery &amp; Fishery</li> <li>10. vocational trainings on processing &amp; value addition of vegetables</li> <li>11. Demonstration on short duration varieties of Maize crop</li> <li>12. Trainings on Hybrid production techniques of Cabbage, Cauliflower</li> </ol>

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

KVK Name	No. of messages sent	No. of beneficiary		Major recommendations
		Farmers	Ext. Pers.	
Mandla				
Mandla	102	1500	70	

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	Central		Trainings, Field visit	Niwas, Nainpur, Mandla, Bichia, Narayanganj	
Mandla	MNREGA					
Mandla	NHM	Central		Trainings, Field visit	Niwas, Nainpur, Mandla, Bichia, Narayanganj	
Mandla	RKVY					
Mandla	DRDA					
Mandla	Zila Panchyat					
Mandla	Seed village	Central	60000	Seed distribution, trainings	Nainpur, Mandla	
Mandla	NAIP	Central		Trainings, demonstrations		
Mandla	Climate Change					
Mandla	Others (Plz. Specify)					

16. Status of Revolving Funds (Rs.)

KVK Name	Account No.	Opening balance (Rs.)	Closing balance (Rs.)	Current status (Rs.)
Mandla	20031	192267=00	40579=00	151688=00

17. Awards & Recognitions: NII

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

## 18. Case study and Success Story – Two best only in the following format

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

Name of the KVK: **Mandla**

Introduction:

### 1. **Asharam Uike – A Pioneer of Integrated Farming System**

**Best Progressive Farmer – ATMA Programme**

**Shri Asharam Uike**

**City-Mandla, State-Madhya Pradesh**



Asharam Uike, a farmer by profession was born on July 20,1965 at Kotasangwa village, Tehsil Mandla, District Mandla (M.P.).He got his 6<sup>th</sup> class education from his own village. His academic career was good and intelligent in reading, but due to poverty he could not get higher education. When he was twenty years old he had to take responsibility of family and started cultivation on 1.60 ha. irrigated land, in his family there are eight family members. Being the eldest, he had to take on the responsibility of his family.

In his 20 years experience of cultivation, he has spent only three years in adopting improved production technology, but in a very little time, he got tremendous change in his livelihood. In 2007-08, he introduced himself to the scientists of Krishi Vigyan Kendra Mandla. He asked question to the KVK scientists for increasing the production of Paddy using low cost input technology. Looking to the need, KVK scientists asked him for gathering of cultivators of his own kotasangwa village to get training on system of Rice Intensification KVK Mandla organized training and cultivators of the village got training on SRI and out of which 4 farmers were ready to adopt SRI on their fields.

Asharam is the first in the district who are adopting the integrated farming system even after he bears a very less land (1.6 ha. irrigated land), further he is the first ever in the district who adopted system of Rice intensification and got record production (65 q/ha. variety IR-64). Some of the problems that Asharam faced during the adoption of SRI were his own family members and villagers. They didn't want to do as practices of SRI were told because their traditional method of transplanting was 21 days old seedlings 100 kg seed rate per ha. without seed treatment not good prepared Nursery, closer spacing and submerged condition of fields. When he told about the SRI to the family members, they threatened him for not reaching the fields. In spite of these problems, he decided to go with scientist and adopted the SRI first ever in the district. He prepared good raised bed Nursery size 2mx10m, 12 kg seed per ha. treating with fungicide & insecticide, mixing of vermicompost, 10 days old seed-lings were transplanted at spacing 25cm x 25cm , irrigated the fields when required, timely controlled of the weeds by weedicide & manually and applied insecticide and fungicide when required. Finally he got record production of IR-64 (65 q/ha.) as he used to get only 20 q/ha by traditional method. Family members were very happy to see the higher production.

After three years now he has become a progressive farmer. He has prepared a NADEP pit and Biogas plant with the help of Agriculture Department. Further using biogas plant he is lightening his house, consuming gas for cooking. There are 40 Palash trees on the bunds of his fields. He is taking lac production on Palash trees and getting income Rs. 3000 per annum. At present he has two cows, two bullocks, 5 goats, 15 hens, a small kitchen garden, some fruit plants, some improved tools, Diesel pump, sprinkler etc.

He is a winner of best of progressive farmer of Mandla district under ATMA programme. He is adopting improved varieties and hybrids of Paddy i.e. MTU-1010, PS-3, JRH-4 and Wheat crop variety GW-273. In his uncultivable land he has transplanted 200 plants of Aonla and Guava.

## 2. Shri Ramesh Tiwari – A Pioneer of Vegetable Farming System

**Name -Shri Ramesh Tiwari**

**Village -Paijwara**

**City -Mandla,**

**State -Madhya Pradesh**



Ramesh Tiwari a young farmer of Paijwara village, Mandla district, practiced conventional farming in Highbred vegetable crops like Capsicum & Tomato in the medium sandy loam soil. Last year he visited Singarpur vegetable farm at Mohgoun Block, Mandla district and make a lesson our self. He visited in a progressive farmer in Singarpur vegetable farm at Mohgoun Block, of district and approached vegetables farming with help of KVK. He was visited to KVK concern with scientist for growing highbred vegetable and marketing linkage. He approached to KVK time to time for further advise . He planned to cultivate Capsicum and Tomato. Then, he prepared his land under the supervision of scientists of Krishi Vigyan Kenrda follow making of bed in *Israeli* technology.

He started the cultivation of Capsicum variety (Sinzenta Indra) & Tomato variety (Laxami,US-1080) in his own field in an area of 31 Acar. He ploughed the lands four times and applied NPK 100:50:50 Through DAP , Zinc sulphate , potash and FYM @ 200 qt./ ha as a basal dose. Then he formed raised beds of 75 cm with at an interval of 60 cm for sowing and placed the laterals on the centre of each row at the rate one drip pipe. The beds are wetted through drip irrigation. Then capsicum & Tomato sowing was done in the month of 5<sup>th</sup> August and 11<sup>th</sup> August. Balance remain fertilizer dose are gave through drip system. He also planted the two lines in one bed. He sprayed Glicell weedicide. he transplanted seedlings in between the plant to plant spacing of 30 cm .He applied 5kg Calcium nitrate and Ammonium sulphate at five days interval by fertigation method throughout the cropping period.

He irrigated the field daily as per the need of the soil. He sprayed fungicide like Amidaclopid and Dithane 45 @ 2ml /lit of water on 20 days after sowing for the control of leaf spots. He sprayed Melathian pesticide @ 2ml /lit to crop on 30th day after sowing for controlling thrips. He harvested the crop in 3-4 month of after sowing, 275 days after sowing. He earned 1.25/ acar of Capsicum and 1.10/acar He sold local market Rs.7-8/kg. of season and Rs.15-20/kg.

He got high yield and quality farm produce by using sufficient water and fertilizers. Particularly vegetable fetched high price in markets of summer season. Agent and costumers came to field to take the produce directly. He spent Rs. 1.25/ acar of Capsicum and 1.10/acar of Tomato for cultivation practices. Ramesh is one of the happiest farmer in the region. He is enjoying precision farming with his family.

## 19. Details of KVK Agro-technological Park

Name of KVK	Name of Component of Park	Detail Information (If established)
Mandla	Crop Cafeteria	<b>Kharif 2010-</b> Paddy crop- JRH-4, JRH-5, JRH-8, PS-5, PS-1, Mahamaya, WGL-32100, Pusa Basmati, Kranti, IR-64, JR-201, PS-3, Tarodi Basmati, IR-36, P-1121 Soybean crop- JS 95-60, JS 97-52, JS 90-41, Sesame crop- TKG-22, TKG-21,TKG-55, TKG-306, JTS-8, Niger crop- JNC-9, JNC-6,JNC-1, IGP-76, Pigeon pea crop- ICPH-2671, JA-4, ICPL-87119, JKM-189, ICPL-87, ICPH- 3762, ICPH- 7035, ICPH-2740, Black gram crop- PU-35, LBG-20, T-9, PDU-4, Kodo crop- JK-439, JK- 41 Kutki crop-JK-39 <b>Rabi 2010-11</b> Wheat crop- JW-3211, JW-3020, JW-3269, JW-3173, JW-17, HW-2004, Sujata Gram crop- Vishal, JG-11, JG-74, JG-218, JG-226, Vijay, JG-130, JKG-3, JGG-1, JG-315
Mandla	Technology Desk	
Mandla	Visitors Gallery	
Mandla	Technology Exhibition	<b>Vermicompost, Goatery, Micro irrigation system, BGA production</b>
Mandla	Technology Gate-Valve	

## 20. Important visitors to KVK

Name of KVK	Name of Visitor	Date of Visit	Remarks
Mandla	Shri B.Parshuram, Secretary, Rural Development, Bhopal (M.P.)	18.07.10	
Mandla	Dr. G. Kalloo, Vice Chancellor, JNKVV, Jabalpur	15.01.11	

## 21. Status of KVK Website: Available/Not Available

## 22. 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			

## 23. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

Name of KVK	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
Mandla	Gosthies			
Mandla	Lectures organized			
Mandla	Exhibition			
Mandla	Film show			
Mandla	Fair			
Mandla	Farm Visit			
Mandla	Diagnostic Practical's			
Mandla	Distribution of Literature (No.)			
Mandla	Distribution of Seed (q)			
Mandla	Distribution of Planting materials (No.)			
Mandla	Bio Product distribution (Kg)			
Mandla	Bio Fertilizers (q)			
Mandla	Distribution of fingerlings (No)			
Mandla	Distribution of Livestock specimen (No.)			
Mandla	Total number of farmers visited the technology week			

## 24. INTERVENTIONS ON DROUGHT MITIGATION

### (a) Introduction of alternate crops/varieties

Name of KVK	Crops/cultivars	Area (ha)	Number of beneficiaries
Mandla	Wheat JW-3020	20	50

### (b) Major area coverage under alternate crops/varieties

Name of KVK	Crops	Area (ha)	Number of beneficiaries
Mandla	Oilseeds		
Mandla	Pulses		
Mandla	Cereals		
Mandla	Vegetable crops		
Mandla	Tuber crops		
Mandla	Fruits		
Mandla	Spices		
Mandla	Cotton		
Mandla	<b>Total</b>		



**(c) Farmers-scientists interaction on livestock management**

Name of KVK	Livestock components	Number of interactions	No.of participants
Mandla	Dairy Management		
Mandla	Disease management		
Mandla	Feed and fodder technology		
Mandla	Poultry management		
Mandla	Goatery management	8	240

**(d) Animal health camps organised**

Name of KVK	Number of camps	No. of animals	No. of farmers
Mandla	1	38	39
Mandla			

**(e) Seed distribution in drought hit states**

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

**(f) Seedlings and Saplings distributed**

Name of KVK	Crops	Quantity (No.s)	Coverage of area (ha)	Number of farmers
<b>Seedlings</b>				
Mandla				

**(g) Bio-control Agents**

Name of KVK	Bio-control Agents	Quantity (q)	Coverage of Area (ha)	No. of farmers
Mandla	Tricogramma chilonis	100 cards (20000 eggs each)	10	25

**(h) Bio-Fertilizer**

Name of KVK	Bio-Fertilizer	Quantity (kg)	Coverage of Area (ha)	No. of farmers
Mandla	Azotobactor	20	40	100
Mandla	Rhizobium	20	40	100
Mandla	PSB	50	80	200
Mandla	Trichoderma	0.64	30	20

**(i) Verms Produced**

Name of KVK	Verms Produced	Quantity (q)	Coverage of Area (ha)	No. of Farmers
Mandla	-	-	-	-
Mandla				

**(j) Large scale adoption of resource conservation technologies**

Name of KVK	Crops/cultivars and list of resource conservation technologies introduced	Area (ha)	Number of farmers
Mandla	JRH-4, JR-201, IR-64, MTU-1010, ICPH -2671, JW-3020, JW-3211	108	270
Mandla			

**(k) 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
Mandla	3	79	5	152	5	130	1	428	1	428	6	132
Mandla												

25. **Status of KVK Website:** Already having website/under construction  
If available, please provide the address of website: **under construction**