ANNUAL PROGRESS REPORT KVKs IN ZONE IX 2018-19

Contents

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 like Blackgram, pigeon pea, sesame, horsegram, greengram, pearl millet, etc. (Do not mention Urd, Arhar, Til, Kulthi, Moong, Bajra, etc.)**
8. **Additional relevant information may be provided at the end of Format mentioning "Additional Information"**
9. **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.**
10. **Kindly fill up only targeted/ proposed information for Annual Action Plan-from 1st April, 2019 to 31st March 2020 in the relevant tables as format is common for AAP & APR.**
11. **Any other activities proposed not mentioned in this format may be incorporated in the last page with certain specification.**

PERIOD – April 2018 to March, 2019

Summary of the activities

KVK Name	Activity	Target		Achievement		
		Number of activity	No. of farmers/ beneficiaries	Number of activity	No. of farmers/ beneficiaries	Total value of resource generated/Fund received from diff. sources (Rs.)
	OFTs					
	FLDs – Oilseeds (activity in ha)					
	FLDs – Pulses (activity in ha)					
	FLDs – Cotton (activity in ha)					
	FLDs – Other than Oilseed and pulse crops(activity in ha)					
	FLDs – Other than Crops (activity in no. of Unit/Enterprise)					
	Training-Farmers and farm women					
	Training-Rural youths					
	Training- Extension functionaries					
	Extension Activities					
	Seed Production (Number of activity as seeds in quintal)					
	Planting material ((Number of activity as quantity of planting material in quintal)					
	Seedling Production (Number of activity as number of seedlings in numbers)					
	Sapling Production (Number of activity as number of sapling in numbers)					
	Other Bio- products (No. of quantity)					
	Live stock products					
	Activities of Soil and Water Testing Laboratory					
	Rainwater Harvesting System					
	Kisan Mobile Advisory (KVK-KMA)					
	SAC Meeting (Date & no. of core/ official members)					
	Literature to be Developed/Published					
	Convergence programmes / Sponsored programmes					

KVK Name	Activity	Target		Achievement		
		Number of activity	No. of farmers/ beneficiaries	Number of activity	No. of farmers/ beneficiaries	Total value of resource generated/Fund received from diff. sources (Rs.)
	Utilization of Farmers Hostel					
	Utilization of Staff Quarters					
	Details of KVK Agro-technological Park					
	Crop Cafeteria-					
	Farm Innovators- list of 10 farm innovators from the District					
	Status of Revolving Funds					
	Awards and Recognitions					
	Case study / Success Story to be developed					
	KVK Progressive Farmers interaction					
	Outreach of KVK in the District (No. of blocks, no. of villages)					
	Technology Demonstration under Tribal Sub Plan					
	KVK Ring					
	Important visitors to KVK					
	Status of KVK Website					
	Status of RTI					
	E-connectivity					
	Details of Technology Week Celebrations					
	Interventions on Drought Mitigation					
	Proposal of NAIP					
	Proposal of NICRA					
	Well labeled photographs					
	Other Activities					

1. GENERAL INFORMATION

1.1. Staff Position (as on date)

Name of KVK	Sanction post	Name of the incumbent	Discipline	Highest degree	Subject of specialization	Pay scale	Present pay	Date of joining	Per./Temp.	Category
Mahasamund	Programme Coordinator	Dr. Satish Kumar Verma	Horticulture	Ph.D.	Horticulture	37400-67000/-9000 (AGP)	40240 + 9000 (AGP)	22.09.2012	Permanent	GEN
Mahasamund	Subject Matter Specialist 1	Shri. H. S. Tomar	Agronomy	M.Sc.	Agronomy	15600-39100/-5400 (AGP)	18950 + 5400 (AGP)	13.11.2007	Permanent	GEN
Mahasamund	Subject Matter Specialist 2	Shri. Saket Dubey	Horticulture	M.Sc.	Horticulture	15600-39100/-5400 (AGP)	18950 + 5400 (AGP)	06.09.2012	Permanent	GEN
Mahasamund	Subject Matter Specialist 3	Dr. Arvind Kumar Nandanwar	LPM	MV.Sc.	LPM	15600-39100/-5400 (AGP)	18950 + 5400 (AGP)	24.09.2012	Permanent	GEN
Mahasamund	Subject Matter Specialist 4	Shri Kunal Chandrakar	Soil Science	M. Sc.	Soil Science	15600-39100/-5400(AGP)	15,600 + 5400 (AGP)	16.09.2014	Permanent	OBC
Mahasamund	Subject Matter Specialist 5	Er. Ravish Keshri	Soil & Water Engg.	M.E	Irrigation Water Mgmt Engg.	15600-39100/-5400(AGP)	15,600 + 5400 (AGP)	20.10.2014	Permanent	GEN
Mahasamund	Subject Matter Specialist 6	Dr. Nivedita Pathak	Home Science	Ph.D.	Home Science	15600-39100/-5400(AGP)	15,600 + 5400 (AGP)	27.01.1995	Permanent	GEN
Mahasamund	Programme Assistant	Mr. S. M. Ali Humayun	Entomology	M.Sc.	Entomology	9300 - 34600/-4200(AGP)	9300 + 4200 (AGP)	27.10.2014	Permanent	GEN
Mahasamund	Computer Programmer	Smt.Punitha Kartikeyan	Computer Science	MCA, M.Phil	Computer Science	9300 - 34600/-4200(AGP)	11470 + 4200 (AGP)	29/07/2013	Permanent	GEN
Mahasamund	Accountant / superintendent/AG-1	Shri.U. M .Uppadhaya	-	H.S.C.	-	5200 - 20200/-2800 (GP)	12810 + 2800 (GP)	27/12/2013	Permanent	GEN
Mahasamund	Stenographer/AG-II	Shri Abdul Vakil	-	H. S. C.	-	5200-20200/-2400 (GP)	8370 + 2400 (GP)	08.09.2008	Permanent	GEN

Name of KVK	Sanction post	Name of the incumbent	Discipline	Highest degree	Subject of specialization	Pay scale	Present pay	Date of joining	Per./Temp.	Category
Mahasamund	Driver	Shri B. P. Dhruw	-	Primary	-	5200-20200/-2200 (AGP)	13290 + 2800 (GP)	20/12/2005	Permanent	ST
Mahasamund	Driver	Mr.Rajesh Markandey	-	10th	-	5200-20200/-1900 (AGP)-	6650 + 1900 (GP)	02/04/2013	Permanent	SC
Mahasamund	Supporting staff (Messanger)	Shri Khayal Das Vaishnav	-	-	-	4750-7440 1300 (AGP)	7140 + 1300 (GP)	04/02/2006	Permanent	GEN
Mahasamund	Supporting staff (Watchman)	Shri Jeewan Lal Yadav	-	-	-	4750-7440 1300 (AGP)	6650 + 1300 (GP)	06.10.2008	Permanent	OBC

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

1.3. DETAILS OF ADOPTED VILLAGE during 1.4.2019 to 31.3.2020 (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)
Mahasamund	Lafinkhurd	2017	Mahasamund	14	2271	630
Mahasamund	Saradih	2017	Mahasamund	15	2380	421

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

KVK Name	THRUST AREA
Mahasamund	Diversification of existing production systems for better profitability.
Mahasamund	Farm mechanization through improved agricultural implements.
Mahasamund	Introduction of community based quality seed and planting material.
Mahasamund	Income augmentation of resource poor farm women through small scale backyard enterprise.
Mahasamund	Reduction of cost of cultivation of existing major crop enterprises through better management practice.

Mahasamund	To enhance crop productivity and cropping intensity under rainfed and irrigated conditions.
Mahasamund	Improve riverbed cultivation through community based.
Mahasamund	Entrepreneurship development of rural youths and woman SHG members.
Mahasamund	Water management using micro irrigation
Mahasamund	Integrated nutrient management
Mahasamund	Soil test based crop production system

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

KVK Name	Problem identified	Methods of problem identification	Location Name of Village & Block
Mahasamund	High yield losses due to weeds and Pest	Participatory group discussion among the farmers and extension functionaries.	Mahasamund, Bagbahra, Pithora, Basna, Saraipali
Mahasamund	High drudgery farm implements	Participatory group discussion among the farmers and extension functionaries.	Mahasamund, Bagbahra, Pithora, Basna, Saraipali
Mahasamund	Poor household nutritional security of farm families	Participatory group discussion among the farmers and extension functionaries	Mahasamund, Bagbahra, Pithora, Basna, Saraipali
Mahasamund	Lack of knowledge and unawareness about proper agricultural produce storage.	Participatory group discussion among the farmers and extension functionaries	Mahasamund, Bagbahra, Pithora, Basna, Saraipali
Mahasamund	Low productivity of fish pond	Participatory group discussion among the farmers and extension functionaries	Mahasamund, Bagbahra, Pithora, Basna, Saraipali
Mahasamund	High yield losses due to weeds and Pest	Participatory group discussion among the farmers and extension functionaries.	Mahasamund, Bagbahra, Pithora, Basna, Saraipali
Mahasamund	High drudgery farm implements	Participatory group discussion among the farmers and extension functionaries.	Mahasamund, Bagbahra, Pithora, Basna, Saraipali
Mahasamund	Low yield due to improper nutrient management	Participatory group discussion among the farmers and extension functionaries.	Mahasamund, Bagbahra, Pithora, Basna, Saraipali

2. On Farm Testing

Thematic Areas for OFT/FLD

Thematic Areas for OFT/FLD	Parameters Name and unit
OFT/FLD on Crops	
Agro Forestry	Yield q/ha
Crop Diversification	insect population/plant
Integrated Crop Management	No of pods/plant
Integrated Farming system	Disease incidence %
Integrated Disease Management	No of effective tillers/hill
Integrated Nutrient Management	Rhizome wt/Plant(g)
Integrated Weed Management	No of weeds/m2
Varietal Evaluation	Fruit wt(g)
Integrated Pest Management	No of Fruits/plant
Integrated Plant Nutrient Management	Fruit Length(cm)
Feed and Fodder Production	No of nodules/plant
Resource conservation Technology	% Infestation
Soil Fertility Management	No of Cobs/plant
	No of Larvae/m2
	No of Panicles/m2
	No of Tillers/hills
	No of Bulb weight(g)
	No of Grains/panical
	No. of tubers/plant
	Weight of Curd/head (g/plant)
	No. of Siliquae or Capsule /plant
	Seedling Germination (%)
OFT/FLD on Agriculture Engineering	
Farm Mechanization	Yield (q/ha)
Resource Conservation Technology	Field Capacity (ha/hr)
Post Harvest Management	Cleaning efficiency %
Storage loss minimization Technology	Cleaning Capacity q/hr
Small Farm Implements	weed population per m2
	tillers/plant
	water inefficiency
	irrigation efficiency

OFT/FLD on Animal Science	
Animal Feed / Fodder Management	**Milk yield (Lit/day/animal)**
Animal Disease Management	**change in body weight(kg)**
Animal Nutrition Management	**Egg Production/bird/year**
Livestock production & management	**% decrease in Worm**
Animal breed evaluation	**Parasite control (%)**
Poultry Production and management	**Body weight at 12 month (kg/goat)**
	Parasite occurrence (%)
	Live weight (kg/bird) at 12th Month
	Growth Rate (90 days)
	Yield q/ha (Fodder)
	Mortality %
	Feed intake
	% Disease infestation
OFT/FLD on Fisheries	
Fingerling Production in Seasonal Ponds	Yield (q/ha)
Composite Fish Farming	Yield (q/ha), ABW (kg)
Fish Nutrition	Survival Rate (%)
Fish-cum-Duck Farming	Disease incidence (%)
Fish Production & Management	
Fish Breeding	
Fish Seed Production	
Spawn to fry production	
Integrated Farming System	

2.1 Details of OFT on Crops

KVK name	Year	Season	Problem diagnose	Title of OFT	Category of technology (Assessment/ Refinement)	Title of Technology/Variety			Thematic Area	Crop/ enterprise	Farming Situations	Target	No. of trials	Results (with parameter)			Net Returns (Rs./ha)			Recommendations
						T1	T2	T3						FP (T_1)	RP (T_2)	T3	FP (T_1)	RP (T_2)	T3	
Mahasamund	2018-19	Kharif	Use of traditional practices for propagation of turmeric	Assessment of Turmeric Propagation through plug nursery technique	**Assessment**				Crop Production	Turmeric	Rainfed	05	05	189	225		1780000	290000		Plug Nursery Technique may be proven useful if all other package of practices

																				will be adopted properly
Mahasamund	2018-19	Kharif	Lack of Production technology of Marigold through cuttings	Assessment of Production of technology of Marigold through cutting	Assessment				Crop Production	Marigold	Rainfed	05	05	145	195		70000	110000		Marigold can be propagate through cutting And may be proven useful if all other package of practices will be adopted properly
Mahasamund	2018-19	Kharif & Rabi	Rat Problem in field crops and storage	Monitoring of Rats Abundance, Damage & management in different Kharif and Rabi crops in mahasamund District	Assessment				Non Insect Pest	Cereals & pulses	Irrigated	04	04	8.21	7.26		80925	84100		Farmer are getting aware in management of Rat
Mahasamund	2018	Kharif	Major losses of rice crop due to attack of Brown plant hopper	Assessment of IPM module for management of Rice Brown Plant Hopper	Assessment				IPM	Cereals	Irrigated	04	04	17	11		66125	85150		Farmers have to use judicious use of insecticide and should spray at ETL
Mahasamund	2018-19	Rabi	Low yield potential due to improper management practices	Assessment of line sowing Mustard Variety: Chhattisgarh Sarson with traditional Utera practice	Assessment				Crop Production	Oilseed	Irrigated	05	05	3.3	6.3		16500	31500		Farmers used to grow crop as utera, if they will grow mustard in line sowing then thwy can earn more
Mah	201	Khari	Imbalanc	Second	Assessment				Nutrient	Cereals	Irrigated	05	05	38.	50.		57	941		Farmers

asa mund	8	f	e use of fertilizer	year Assessment of STCR based Nutrient Management in Paddy (Var.- Maheshwari ,TY- 50 q/ha.)					Management					02	11		636	51		should go with STCR based Nutrient Management in paddy crop
Mahasamund	2018-19	Rabi	Imbalance use of fertilizer	Third year Assessment of STCR based nutrient management in Mustard (Var.- CG Sarson, Targated yield 12 q/ha.)	Assessment				Nutrient Management	Oilseed	Irrigated	05	05	8.14	12.03		1867 3	31692		Farmers should go with STCR based Nutrient Management in mustard crop
Mahasamund	2018-19	Kharif & Rabi	Poor knowledge about SHC recommendation	Assessment of knowledge & adoption of soil health card based fertilizer application	Assessment				The primary data will be collected with the help of structured interview after collection of data, it will analyze statistically tested for as are a result	Creals, Pulses and Oilseed	Irrigated / Unirrigated	20	20							

2.1a Recommendations of OFTs

Recommendations		
Title of OFT	**For Farmers**	**For Deptt. Personnel**

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_1)	RP (T_2)	(T_3)	FP (T_1)	RP (T_2)	Refined Practice, if any (T_3)	FP (T_1)	RP (T_2)	Refined Practice, if any (T_3)	FP (T_1)	RP(T_2)	Refined Practice, if any (T_3)	FP (T_1)	RP (T_2)	Refined Practice, if any (T_3)
Mahasamund	Assessment of Turmeric Propagation through plug nursery technique	Yield (q/ha.)	189	225		200000	220000		378000	510000		178000	29000		1.89	2.31	
Mahasamund	Assessment of Production of technology of Marigold through cutting	Yield (q/ha.)	149	195		75000	85000		145000	195000		70000	110000		1.93	2.29	
Mahasamund	Monitoring of Rats Abundance, Damage & management in different Kharif and Rabi crops in mahasamund District	Yield (q/ha.)	8.21	7.26		29500	30600		110425	119700		80925	84100		3.7	3.8	
Mahasamund	Assessment of IPM module for management of Rice Brown Plant Hopper	Yield (q/ha.)	17	11		32700	31100		98825	114250		66125	85150		3.02	3.6	

Mahasamund	Assessment of line sowing Mustard Variety: Chhattisgarh Sarson with traditional Utera practice	Yield (q/ha.)				8500	13500		16500	31500		8000	18000		1.94	2.33	
Mahasamund	Second year Assessment of STCR based Nutrient Management in Paddy (Var.- Maheshwari ,TY- 50 q/ha.)	Yield (q/ha.)	38.02	50.11								57636	94151		3.26	4.02	
Mahasamund	Third year Assessment of STCR based nutrient management in Mustard (Var.- CG Sarson, Targated yield 12 q/ha.)	Yield (q/ha.)	8.14	12.03								18673	31692		2.19	2.68	

2.3 Details of OFT on Agriculture Engineering

KVK name	Year	Season	Problem diagnose	Title of OFT	Category of technology (Assessment/ Refinement)	Title of Technology/Variety			Thematic Area	Crop/ enterprise	Farming Situations	Target	No. of trials	Results (with parameter)			Net Returns (Rs./ha)			Recommendations
						T1	T2	T3						FP (T_1)	RP (T_2)	T3	FP (T_1)	RP (T_2)	T3	

2.3a Recommendations of OFTs

Recommendations		
Title of OFT	For Farmers	For Deptt. Personnel

2.4 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_1)	RP (T_2)	(T_3)	FP (T_1)	RP (T_2)	Refined Practice, if any (T_3)	FP (T_1)	RP (T_2)	Refined Practice, if any (T_3)	FP (T_1)	RP(T_2)	Refined Practice, if any (T_3)	FP (T_1)	RP (T_2)	Refined Practice, if any (T_3)

2.5 Details of OFT on Animal Science

KVK name	Year	Season	Problem diagnose	Title of OFT	Category of technology (Assessment/ Refinement)	Title of Technology/Variety			Thematic Area	Crop/ enterprise	Farming Situations	Target	No. of trials	Results (with parameter)			Net Returns (Rs./ha)			Recommendations
						T1	T2	T3						FP (T_1)	RP (T_2)	T3	FP (T_1)	RP (T_2)	T3	

2.5a Recommendations of OFTs

Recommendations		
Title of OFT	For Farmers	For Deptt. Personnel

2.6 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_1)	RP (T_2)	(T_3)	FP (T_1)	RP (T_2)	Refined Practice, if any (T_3)	FP (T_1)	RP (T_2)	Refined Practice, if any (T_3)	FP (T_1)	RP(T_2)	Refined Practice, if any (T_3)	FP (T_1)	RP (T_2)	Refined Practice, if any (T_3)

2.7 Details of OFT on Fisheries

KVK name	Year	Season	Problem diagnose	Title of OFT	Category of technology (Assessment/ Refinement)	Title of Technology/Variety			Thematic Area	Crop/ enterprise	Farming Situations	Target	No. of trials	Results (with parameter)			Net Returns (Rs./ha)			Recommendations
						T1	T2	T3						FP (T_1)	RP (T_2)	T3	FP (T_1)	RP (T_2)	T3	
Mahasamund	2018-19	-																		

2.7a Recommendations of OFTs

Recommendations		
Title of OFT	For Farmers	For Deptt. Personnel

2.8 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_1)	RP (T_2)	(T_3)	FP (T_1)	RP (T_2)	Refined Practice, if any (T_3)	FP (T_1)	RP (T_2)	Refined Practice, if any (T_3)	FP (T_1)	RP(T_2)	Refined Practice, if any (T_3)	FP (T_1)	RP (T_2)	Refined Practice, if any (T_3)

2.9 Information about Home Science OFT: (For All Thematic Area)

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

2.9 (A) Economic Performance Home Science OFT: (For Drudgery Reduction)

KVK name	OFT Title					Performance Indicator / Parameter									
		Output m2/h		Est. Energy Expenditure kj/min.		WHR beat/min		% reduction in drudgery		% increase in efficiency		Cardiac Cost of Work		% Saving of cardiac Cost	
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2

2.9 (B) Economic Performance Home Science OFT: (For Income Genration)

KVK name	OFT Title	Performance Indicator / Parameter											
		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		

2.9 (C) Economic Performance Home Science OFT: (For value addition)

KVK name	OFT Title	Performance Indicator / Parameter													
		Composition of product		Input used		outcome (Kg)		Cost of input		Incremental income		Net Return		Saving in Rs	BC ratio
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2		

2.9 (D) Economic Performance Home Science OFT: (For Nutritional security)

KVK name	OFT Title	Performance Indicator / Parameter				Nutrient Intake (Unit)								Anthropometric measurements					
		Name of vegetable/Fruit/Product		Per capita Consumption gm/ day		Energy (kcal)		Protein (gm)		Iron (mg)		Calcium (mg)		Increase in Weight (Kg)		Increase in Height (cm)		Increase in BMI (%)	
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2

3. Frontline Demonstrations

3.1. Follow-up for results of FLDs implemented during previous years (upto 2018-19)

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
Mahasamund	Coriander	Crop Production	Improved Variety of Coriander (Gujarat Dhania-1)	Field Visit and Demonstration	02	05	01
Mahasamund	Fenugreek	Crop Production	Improved Variety of Fenugreek (RMT-305)	Field Visit and Demonstration	02	05	01
Mahasamund	Paddy	IPM	IPM Module for Paddy Stem Borer	Field Visit and Demonstration	02	05	02
Mahasamund	Paddy	IPM	IPM Module for Gram Pod Borer	Field Visit and Demonstration	03	05	02
Mahasamund	Paddy	Crop Production	Improved Rice variety RRF-105	Field Visit and Demonstration	02	05	05

Mahasamund	Wheat	Crop Production	criss cross sowing method of wheat	Field Visit and Demonstration	02	12	4.8
Mahasamund	Blackgram	INM	Use of improved variety PU 31, Application of 75% (N:P:K-20:40:20 kg/ha.) with Rhizobium + PSB @10g/kg of seed & FYM 5 ton/ha.	Field Visit and Demonstration	03	12	4.8
Mahasamund	Chickpea	INM	Application of 75% (N 20: P 40: K 20 kg/ha.) with Rhizobium @10g/kg of seed + PSB @10g/kg of seed & FYM 5 ton/ha.	Field Visit and Demonstration	03	12	4.8

3.2 Details of FLDs on Crop to be implemented during 2019-20

KVK Name	year	Season	Thematic area	Technology demonstrated	Name of Crop/ Enterprise	Name of Variety/Technology/Enterprises	Crop- Area (ha) / Entrep - No.	Results (q/ha)		% change	No. of farmers				
								FP (T_1)	RP (T_2)		SC	ST	Others	General	Total
Mahasamund	2019	Kharif	Crop Production	Demonstration on Improved Variety of Ginger	Ginger	Suprabha	05								
Mahasamund	2019-20	Rabi	Crop Production	Demonstration of Improved Variety of Cowpea	Cowpea	Kashi Kanchan	05								

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_1)	RP (T_2)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)

3.4 Details of FLDs on Agriculture Engineering to be implemented during 2019-20

KVK Name	year	Season	Thematic area	Technology demonstrated	Name of Crop/ Enterprise	Name of Variety/Technology/Enterprises	Crop- Area (ha) / Entrep - No.	Results (q/ha)		% change	No. of farmers				
								FP (T_1)	RP (T_2)		SC	ST	Others	General	Total

3.5 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_1)	RP (T_2)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)

3.6 Details of FLDs on Animal Science to be implemented during 2019-20

KVK Name	year	Season	Thematic area	Technology demonstrated	Name of Crop/ Enterprise	Name of Variety/Technology/Enterprises	Crop- Area (ha) / Entrep - No.	Results (q/ha)		% change	No. of farmers				
								FP (T_1)	RP (T_2)		SC	ST	Others	General	Total

3.7 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_1)	RP (T_2)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)

3.8 Details of FLDs on Fishery to be implemented during 2019-20

KVK Name	year	Season	Thematic area	Technology demonstrated	Name of Crop/ Enterprise	Name of Variety/Technology/Enterprises	Crop- Area (ha) / Entrep - No.	Results (q/ha)		% change	No. of farmers				
								FP (T_1)	RP (T_2)		SC	ST	Others	General	Total

3.9 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_1)	RP (T_2)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)	FP (T_1)	RP (T_2)

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

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/Entreprizes	Farming Situation	Proposed area (ha)	No. of Beneficiaries

3.11(A) Economic Performance Home Science FLD: (For Drudgery Reduction)

KVK name	FLD Title					Performance Indicator / Parameter									
		Output m2/h		Est. Energy Expenditure kj/min.		WHR beat/min		% reduction in drudgery		% increase in efficiency		Cardiac Cost of Work		% Saving of cardiac Cost	
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2

3.11 (B) Economic Performance Home Science FLD: (For Income Genration)

KVK name	FLD Title	Performance Indicator / Parameter											
		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		

3.11 (C) Economic Performance Home Science FLD: (For value addition)

KVK name	FLD Title	Performance Indicator / Parameter													
		Composition of product		Input used		outcome (Kg)		Cost of input		Incremental income		Net Return		Saving in Rs	BC ratio
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2		

3.11 (D) Economic Performance Home Science FLD: (For Nutritional security)

KVK name	FLD Title	Performance Indicator / Parameter				Nutrient Intake (Unit)								Anthropometric measurements					
		Name of vegetable/Fruit/Product		Per capita Consumption gm/ day		Energy (kcal)		Protein (gm)		Iron (mg)		Calcium (mg)		Increase in Weight (Kg)		Increase in Height (cm)		Increase in BMI (%)	
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2

3.12 Training and Extension activities proposed under FLD

KVK Name	Crop	Activity	No. of activities organized	Number of participants	Remarks
		Field days			
		Farmers Training			
		Media coverage			
		Training for extension functionaries			

3.13 Details of FLD on crop hybrids.

Sr.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
Mahasamund	-	-	-	-

4.2. Feedback from KVK to Research System.

Name of KVK	Feedback basic of OFT on Technology Tested

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
Thematic Areas for Training	
CP	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

5. TRAINING PROGRAMMES

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

Table 5.1: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 to be involved
Mahasamund	Line sowing of paddy by eight row paddy drum seeder			
Mahasamund	Operation and maintenance of animal drawn implements			
Mahasamund	Operation and maintenance of tractor drawn sowing implements			
Mahasamund	Operation and maintenance of tractor drawn tillage implements			
Mahasamund	Importance of seed drill for line sowing of paddy			

Mahasamund	Operation and maintenance of tractor drawn tillage implements			
Mahasamund	Importance of seed drill for line sowing of paddy			
Mahasamund	Importance of broad bed furrow technique for kharif pulse			
Mahasamund	Drip irrigation technology			
Mahasamund	Operation and maintenance of sprinkler irrigation system			
Mahasamund	Water management in rabi crops through pressurized irrigation system			
Mahasamund	Operation and maintenance of sprinkler irrigation system			
Mahasamund	Water management in rabi crops through pressurized irrigation system			
Mahasamund	Drip irrigation technology			
Mahasamund	Operation and maintenance of animal drawn implements			
Mahasamund	Importance of Vermicomposting			
Mahasamund	Importance of Nadep compost			
Mahasamund	Training on Balance use of fertilizers & INM			
Mahasamund	Importance of Phosphorus in Agricultural crop			
Mahasamund	Importance & methods of seed production			
Mahasamund	Importance of seed production of Agronomical crop			
Mahasamund	Rule, Regulation of seed production in Agriculture			
Mahasamund	Importance of Organic Farming in Agriculture			
Mahasamund	Cultivation practices of oilseed crop			
Mahasamund	Cultivation practices of Pulse crop			
Mahasamund	Cultivation practices of Pulse crop & Summer crop			
Mahasamund	Importance of Organic Farming in Agriculture			

Mahasamund	Cultivation practices of Sunflower & Maize			
Mahasamund	Production technology of turmeric and ginger			
Mahasamund	Procedure of soil sampling and soil testing			
Mahasamund	Soil health and fertility management			
Mahasamund	Integrated nutrient management in Rice			
Mahasamund	Importance of organic farming			
Mahasamund	Various techniques of organic farming			
Mahasamund	Vermicomposting technique			
Mahasamund	Biofertilizer production technology			
Mahasamund	Integrated nutrient management in pulse crop			
Mahasamund	Preparation, importance and use of vermiwash			
Mahasamund	Integrated nutrient management in Rabi crops			
Mahasamund	Various composting technique			
Mahasamund	Importance, production and use of Nadep compost			
Mahasamund	Importance and advances of balance fertilization			
Mahasamund	Procedure of soil sampling and soil testing			
Mahasamund	IPM in Paddy			
	Management of Insect Pests of paddy			
	Discriminate use of insecticides			
	Management of Insect Pest of Pigeonpea			
	Importance of Predators and Parasites			
	Training on Rat Management			
	Management of Insect pests of Chickpea			
	Management of Insect pests of Mustard			

	Management of pests of Greengram			

Table 5.2. Details of Training programmes to be conducted by the KVKs.

Name of KVK	Cate-gory(F/FW/IS/RY)	Training Type (ONC/OFC)	Thematic area	Training Title	No. of Courses	Duration (Days)	Target for No. of participants	Participants							
								General		SC		ST		Others	
								M	F	M	F	M	F	M	F
1	2	3	4	5	7	8		9	10	11	12	13	14		
Mahasamund	FW	OFC	HOS	Production technology of Turmeric	01	01	25	0	0	2	0	5	3	10	5
Mahasamund	FW	OFC	HOS	Production technology of Ginger	01	01	25	2	0	2	1	3	2	8	7
Mahasamund	FW	OFC	HOS	Production technology of Coriander	01	01	25	2	0	3	1	4	3	8	6
Mahasamund	FW	OFC	HOS	Production technology of Fenugreek	01	01	25	0	1	2	4	5	3	8	2
Mahasamund	FW	OFC	HOO	Production technology of Marigold through Cuttings	01	01	25	1	2	1	3	5	3	8	2
								0	0	0	0	6	1	13	05
Mahasamund	FW	OFC	HOF	Improved Production technology of Papaya	01	01	25	0	0	0	1	0	3	19	02

Name of KVK	Cate-gory(F/FW/IS/RY)	Training Type (ONC/OFC)	Thematic area	Training Title	No. of Courses	Duration (Days)	Target for No. of participants	Participants							
								General		SC		ST		Others	
								M	F	M	F	M	F	M	F
1	2	3	4	5	7	8		9	10	11	12	13	14		
Mahasamund	FW	OFC	HOS	Turmeric Propagation through Plug Nursery Technique	01	01	25	1	0	2	0	3	3	15	1
Mahasamund	FW	OFC	HOV	Marigold Propagation through Cuttings	01	01	25	0	0	3	0	09	5	8	0
Mahasamund	FW	OFC	HOV	Improved Production Technology of Cowpea and Cluster bean	01	01	25	0	0	3	0	09	5	8	0
Mahasamund	FW	OFC	HOV	Improved Production Technology of Watermelon and Muskmelon	01	01	25	0	2	3	1	4	4	11	0
Mahasamund	FW	OFC	HOV	Improved Production technology of Cabbage and Cauliflower	01	01	25	0	0	0	2	5	3	13	2
Mahasamund	FW	OFC	HOV	Drip irrigation for Vegetable Cultivation	01	01	25	1	2	2	3	2	3	8	05
Mahasamund	FW	OFC	HOV	Improved Production technology of Chilly	01	01	25	0	0	0	1	2	3	15	4
Mahasamund	FW	OFC	HOV	Improved Production technology of Brinjal	01	01	25	1	1	0	2	05	2	12	2
Mahasamun	FW	OFC	HOS	Improved	01	01	25	0	0	0	2	6	2	10	5

Name of KVK	Cate-gory(F/FW/IS/RY)	Training Type (ONC/OFC)	Thematic area	Training Title	No. of Courses	Duration (Days)	Target for No. of participants	Participants							
								General		SC		ST		Others	
								M	F	M	F	M	F	M	F
1	2	3	4	5	7	8		9	10	11	12	13	14		
d				Production technology Seed Spices											
Mahasamund	FW	OFC	PLP	IPM in Paddy	01	01	25	1	0	2	0	3	3	15	1
Mahasamund	FW	OFC	IPM	Management of Insect Pest of Paddy	01	01	25	0	0	2	0	3	1	14	5
Mahasamund	FW	OFC	PLP	Importance of Predators and Parasites	01	01	25	0	0	1	0	3	2	16	3
Mahasamund	FW	OFC	IPM	Training on rat Management	01	01	25	2	0	0	0	6	1	15	1
Mahasamund	FW	OFC	PLP	Management of Insect Pest of Chickpea	01	01	25	2	0	3	1	4	3	8	6
Mahasamund	FW	OFC	IPM	IPM in Chickpea	01	01	25	0	1	2	4	5	3	8	2
Mahasamund	FW	OFC	PLP	Management of Insect Pest of Mustard	01	01	25	1	2	1	3	5	3	8	2
Mahasamund	FW	OFC	PLP	Management of Pest of blackgram	01	01	25	1	2	2	3	2	3	8	05
Mahasamund	FW	OFC	INM	Technique of soil health card based fertilizer application in different crops	01	01	25	1	0	0	2	3	2	14	3
Mahasamund	FW	OFC	INM	Importance and advances of balance fertilization	01	01	25	0	0	3	0	09	5	8	0
Mahasamund	FW	OFC	CRP	Integrated nutrient management in Paddy	01	01	25	3	0	5	1	5	3	7	1

Name of KVK	Cate-gory(F/FW/IS/RY)	Training Type (ONC/OFC)	Thematic area	Training Title	No. of Courses	Duration (Days)	Target for No. of participants	Participants							
								General		SC		ST		Others	
								M	F	M	F	M	F	M	F
1	2	3	4	5	7	8		9	10	11	12	13	14		
Mahasamund	FW	OFC	INM	Procedure and importance of of seed treatment through Biofertilizer	01	01	25	0	0	3	0	5	1	13	3
Mahasamund	FW	OFC	INM	Integrated nutrient management in pulse crop	01	01	25	2	0	3	1	4	3	8	6
Mahasamund	FW	OFC	CRP	Importance and of Procedure of soil sampling	01	01	25	0	1	2	4	5	3	8	2
Mahasamund	FW	OFC	INM	Integrated nutrient management in wheat	01	01	25	1	2	1	3	4	4	6	4
Mahasamund	FW	OFC	INM	Various composting technique	01	01	25	1	2	2	3	2	3	8	05
Mahasamund	FW	OFC	INM	Vermicomposting and NADEP making technique	01	01	25	0	0	0	2	5	2	9	7
Mahasamund	FW	OFC	INM	Soil health and fertility management	01	01	25	0	3	2	0	5	3	11	0
Mahasamund	FW	OFC	INM	Procedure of soil sampling and soil testing	01	01	25	2	0	3	0	5	2	10	3
Mahasamund	FW	OFC	INM	Importance, production and use of Nadep compost	01	01	25	3	0	5	1	5	3	7	1
Mahasamund	FW	OFC	CRP	Various techniques of organic farming	01	01	25	2	0	3	1	4	3	8	6
Mahasamund	FW	OFC	INM	Preparation, importance and use of vermiwash	01	01	25	0	1	2	4	5	3	8	2

Table 5.3. Details of Vocational training programmes for Rural Youth to be 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
Mahasamund										

Table 5.4. Details of training programme to be 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	
Mahasamund	-	-	-	-	-

Table 5.5. 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)	Dura-tion (days)	No. of courses	No. of Participants						Sponsoring Agency	Fund received for training (Rs.)
							Others		SC		ST			
							M	F	M	F	M	F		

Mahasamund	Mushroom Growers	Mushroom Growers			200hrs	01	0	9	0	6	0	5	ASCI	165200/-
Mahasamund	Vermicompost Producer	Vermicompost Producer			200hrs	01	0	18	0	1	0	1	ASCI	165200/-
Mahasamund	Orchard Management and Maintenance	HOF		RY	6 Day	01	08	05	0	0	02	00	SAMETI	42000/-
Mahasamund	Orchard Establishment and Production Technology of Fruit Crops	HOF		FW	3 Day	01	06	04	0	0	03	02	AICRP on fruit crops	20000/-

Table 5.6 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)	Dura-tion (days)	No. of courses	No. of Participants						Sponsoring Agency	Fund received for training (Rs.)
							Others		SC		ST			
							M	F	M	F	M	F		
Mahasamund	Nil													

Table 5.7 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	
Mahasamund	Agronomical practices	617	02	05	24	36.9	16500	24000	100 ha 217 No. 15%
Mahasamund	Mushroom Production	329	01	03	92kg/year 460gm/bag	145kg/year 670gm/bag	6814	9689	NA 61 26%
Mahasamund	Farm mechanization	123	02	04	9.73	14.12	19120	36754	49.3 ha 51 24%
Mahasamund	Horticulture production techniques	316	02	04	185	267	214000	321000	24 ha 29 No. 21%

6. EXTENSION ACTIVITIES

Name of the KVK	Activity	No. of activities (Targeted)	No. of activities (Achieved)	Farmers (Others)		SC/ST (Farmers)		Extension Officials		Remarks		
				M	F	M	F	M	F	Purpose	Topic s	Crop Stages
	Advisory Services	48	48	Mass						Through KMA Total Farmers are 87693		
	Agri mobile clinic	0	0	0	0	0	0	0	00	0	0	0
	Animal Health Camp	0	0	0	0	00	0	0	0	00	0	0
	Celebration of important days	02	02	223	201	150	145	08	06	International Womens Day and World Soil Health Day		
	Diagnostic visits	12	12	Mass						Timely Advice to Farmers as per crop condition		
	Exhibition	07	07	Mass						Indian Horticulture Congress, Kissan Mela Bartunga, Kissan Mela Komakhan and others,		
	Exposure visits	06	06	42	24	08	02	10	05	DAESI , Training on Orchard Management and Maintenance and others		
	Extension Literature	02	02	Mass						Technical/Extension Bulletin, Leaflet, Research Paper		
	Ex-trainees Sammelan	01	01	-	-	-	-	-	-	-	-	-
	Farm advisory Services	12	12									
	Farm Science Club conveners meet	0	0	0	0	0	0	0	0	0	0	0
	Farmers Seminar/Workshop											
	Farmers visit to KVK	1000	1195	591	195	269	140	0	0	0	0	0
	Field Day	08	08	751	289	249	121	18	09	0	0	0
	Film Show	04	05	220	95	31	18	19	12	0	0	0
	Group meetings	06	06	78	32	46	28	18	04	Awareness for Soil fertility, soil health managemant INM and KKA	INM in paddy, INM in Pulses, Compostin Technology	
	Interface	0	0	0	0	0	0	0	0	0	0	0
	Kharif/Rabi Sammelan	01	01	161	179	128	53			13.02.2019 at Komakhan		
	Kisan Ghosthi	01	01	502	266	75	57	15	0	Kissan Gosthi and Inaugural function of CoA Mahasamund		
	Kisan Mela	03	03	557	275	329	184	27	18			
	Krishi Gyan Doot meet	0	0	0	0	0	0	0	0	0	0	0
	Krishi Mahotsav	0	0	0	0	0	0	0	00	0	0	0
	Lectures delivered as resource	170	170	Mass						Bartunga Kissan Mela, Komakhan Kissan Mela, ASCI Training on Vermicompost Production, ASCI Training on Mushroom Grower,		

Name of the KVK	Activity	No. of activities (Targeted)	No. of activities (Achieved)	Farmers (Others)		SC/ST (Farmers)		Extension Officials		Remarks		
										Purpose	Topic s	Crop Stages
				M	F	M	F	M	F			
	persons											
	Mahila Mandals conveners meetings	0	0	0	0	0	0	0	0	0	0	0
	Method Demonstrations	0	0	0	0	0	0	0	0	0	0	0
	Newspaper coverage	35	35	Mass						KKA-1, KKA-2 and others		
	Popular articles	04	04	Mass						-	-	-
	Pradhanmantri phasal beema yojana	-	-	-	-	-	-	-	-	-	-	
	Radio talks	06	06	Mass								
	Scientific visit to farmers field	30	30	Mass								
	Self Help Group conveners meetings	0	0	0	0	0	0	0	0	0	0	0
	Soil health Camp	04	04	92	58	34	16	0	0			
	Soil test campaigns	02	02	57	28	23	12	00	0			
	Summer deep ploughing campaigning	01	01	11	05	07	02	00	0			
	Technology Week Celebration	03	03	Mass								
	TV talks	04	04	Mass								
	Workshop	01	01	34	10	15	08	09	02	-	-	-
	Others - Agriculture Conclave	01	01	02	0	03	00	01	0	Participation of Farmers of five KVKs i.e. Kanker,Kawardha,Korea, Janjgir Champa and Mahasamund in Agriculture Conclave held at Lucknow		

7. Production and supply of Technological products

7.1 Seed production

KVK Name	Major group/class	Crop	Variety	Type of produce (for Seed produced type here 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	Expected area coverage (ha.)
	Cereals	Paddy	Indira Barani Dhan -1	SD	4.73	Qt		10	10
	Oilseeds	Sesame	TKG-308	SD	0.87	Qt		12	8
	Oilseed	Linseed	RLC-92	SD	3.5	Qt			
	Oilseed	Mustard	CG Sarson	SD	4.5	Qt			
	Cereals	Wheat	Ratan		2.1	Qt		4	1.5
	Creals	Wheat	Amber		0.7	Qt		2	0.8

7.2 Planting Material production

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	
Mahasamund	Fruit	Papaya	In KVK Nursery			Red Lady / Honey Gold	PM	500	0	0	
Mahasamund	Fruit	Fig				Poona Selection	PM	20	0	0	
Mahasamund	Fruit	Pomegranate				Bhagwa	PM	20	0	00	
Mahasamund	Fruit	Guava				A.Safeda	PM	100	0	0	
Mahasamund	Fruit	Tamarind				Local	PM	1000	0	0	
Mahasamund	Flower	Marigold				Pusa Basanti Pusa Narangi	PM	5000	0	0	

Mahasamund	Vegetables	Drumstick		PKM-1	PM	5000	0	0	
Mahasamund	Vegetables	Tomato,brinjal Chilli,Onion, Cabbage ,Cauliflower, Bottle Gourd, Bitter Gourd, Watermelon		Improved Variety/ Hybrids	PM		0	0	

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

KVK Name	Name of the Product	Qty		Amount (Rs.)		Remarks
				Cost of inputs	Gross income	
Mahasamund	BIOAGENTS	Vermicompost	2714	-	-	Used in KVK Farm
Mahasamund	BIOFERTILIZERS	Nadep Compost	1250	-	-	Used in KVK Farm
Mahasamund	BIO PESTICIDES	Azolla	410	-	-	Mix with Cow feed
				-	-	

7.4 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	
Mahasamund	Cattle	Gir	Milk	4280 ltrs	-	171200	
Mahasamund	Sheep and Goat	Barberi	Meat (live wt.)	210 kg	-	37800	
Mahasamund	Poultry	Kadaknath	EGG,Chicks ,Birds	182	-	37496	
Mahasamund	Others (Specify)	Quail	EGG,Chicks ,Birds	5864	-	30500	

8. Activities of Soil and Water Testing Laboratory

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

Year of establishment : -

8.1 Details of soil & 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	Soil report distributed to the farmers (Nos)
Mahasamund	Established a mini Soil testing lab and Soil testing laboratory (analysis for major nutrient)	2016-17	Krishi Vigyan Kendra Soil testing laboratory	871 (Grid)	4411	25	-	4411

8.2 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)
Mahasamund	-	-	-	-	-	-	-	-

9. Rainwater Harvesting, if available.

Training programmes to be conducted by using Rainwater Harvesting Demonstration Unit

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

10. Kisan Mobile Advisory (KVK-KMA)

KVK Name	No. of messages to be sent	Area of Messages	No. of beneficiaries	No of Village Covered	Major recommendations
Mahasamund	48	Mahasamund district	87693	1142	As per crop and Time

11. Details of SAC Meeting

KVK Name	Date of SAC meeting	No. of SAC members attended	Major recommendations
Mahasamund	27.02.2019	10	KVK Should work in association with line department

12. Literature to be Developed/Published (with full title, author & reference)

12.1 KVK Newsletters

KVK Name	Date of start	Periodicity	Number of copies to be printed	Number of copies to be distributed
Mahasamund	01.04. 2018	Quarterly	500	495
Mahasamund	01.07. 2018	Quarterly	500	495
Mahasamund	01.10. 2018	Quarterly	500	495
Mahasamund	01.01. 2018	Quarterly	500	495

12.2 Details of Electronic Media to be Produced

KVK Name	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
Mahasamund	CD	Vermicompost	**01**
Mahasamund	CD	Mushroom	**01**

12.3 PUBLICATIONS

Category	Number	Date of start	Periodicity	Number of copies to be printed	Number of copies to be distributed
		Type	Title	Author's name	Number of copies
Research Paper	01 (Accepted)	-	-	Saket Dubey & Others	--
Technical bulletins	01	-	-	Saket Dubey &	-

				Others	
Technical reports	02	0	-	-	-
Popular article					
News paper coverage	35	-	-	-	-
Year Planner	01				
Others (pl. specify) Indira Kissan Mitan	04	-	Indira Kissan Mitan	500	495

13. Convergence with various agricultural schemes (Central & State sponsored)

KVK Name	Name of scheme	Name of Agency (Central/state)	Funds received (Rs. In Lakh)	Activities organized	Operational Area	Remarks
Mahasamund	Establishmement of Spawn Production Unit and Training Centre for Promotion of Mushroom Cultivation in Mahasamund District	DMFT	15.00	Mushroom Spawn Production Unit and Training	Mushroom	
Mahasamund	Establishment of Poultry cum Hatchery Unit	DMFT	17.51	Demo Unit	Poultry cum Hatchery	
Mahasamund	Seed Multiplication	MGNREGA	11.11	Seed Multiplication	Agronomical Crops	
Mahasamund	CSS_MIDH (NHB)	IGKV, Raipur	2.68	Seed Production, FLD	Spices & Aromatic crops	
Mahasamund	Diploma for Agricultural Extension Services for input dealers (DAESI)	IGKV, Raipur	05.80	Training	Input dealers	
Mahasamund	Skill Training on Orchard Management and Maintenance	SAMETI Raipur	0.42	Training	Orchard Management	
Mahasamund	HRD Training on Orchard Establishment and Production	AICRP on Fruit Crops,IGKV,Raipur	0.20	Training	Orchard Management	

	technology of Fruit Crops					

14. Utilization of Farmers Hostel.

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)
Mahasamund	Nil						

15. Utilization of Staff Quarters.

KVK Name	Year of construction	Year of allotment	No. of quarters occupied	No. of quarters vacant	Reasons for vacant quarters, if any
Mahasamund	Not Available				

16. Details of KVK Agro-technological Park –

a) Have you prepared layout plan, where sent?

Sr .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)
Mahasamund	Crop Cafeteria	Mustard, Safflower, Wheat, Pigeon Pea, coriander, chilli, brinjal, cauliflower, cabbage, okra, papaya, onion, gladiolus, spinach, knolkhol, tomato, banana, Paira Grass, Napier Grass
Mahasamund	Technology Desk	Prepare CD of Mushroom and Vermicompost
Mahasamund	Visitors Gallery	Farmers/SHG/NGOs/extension workers/farmer friend/PRO

Mahasamund	Technology Exhibition	Drip irrigation in orchard, hydroponic fodder production unit, azola production unit, shadenet house, nutritional garden, fish pond, vermicompost unit, NADEP
Mahasamund	Technology Gate-Valve	

c). Crop Cafeteria-

Sr. No.	Theme of Crop Cafeteria	No. of Crop Cafeteria
1	Agronomical Crops	1
2.	Fodder Crops	1
3.	Horticultural Crops	1
4.	Mother Orchard	1 (15 Acres)

17. 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	Mahasamund	Shri Neki Sahu	Vermicompost production and mushroom cultivation	Village: Baronda Bazar, Tahsil: Mahasamund, District: Mahasamund M: 9131543370
2	Mahasamund	Shri Rajendra Sahu	Mushroom Production	Village: Patiapali, Tahsil: Basna, District: Mahasamund M: 09754366411
3	Mahasamund	Shri Milan Vishvakarma	Lac Cultivation	Village: Kurrubhata, Tahsil: Bagbahra, District: Mahasamund M: 09770122497, 07697583758
4	Mahasamund	Shri Anil Chandrakar	Crop diversification in rabi crop for water	Village: Saradih, Block & District: Mahasamund

			saving (Wheat, pulse and oilseed in place of summer paddy)	M:08770857448
5	Mahasamund	Shri Gajanad Patel	Polyhouse Flower Production	Village: Chhaporadih, Tahsil: Mahasamund, District: Mahasamund M: 09977819939
6	Mahasamund	Shri Mohan Chandrakar	Organic farming of black rice and purple wheat	Village: Keshwa, Tahsil: Mahasamund, District: Mahasamund M: 09977002275
7	Mahasamund	Shri G R Diwan	Fishery cum Horticulture	Village: Navagaon, Tahsil: Mahasamund, District: Mahasamund
8	Mahasamund	Shri Arun Chandrakar	Floriculture and high tech horticulture	Village: Maliedih, Tahsil: Mahasamund, District: Mahasamund M: 09926122918
9	Mahasamund	Shri Yogendra Chandrakar	High tech horticulture	Village: Gahnaghat, Tahsil: Mahasamund, District: Mahasamund M: 0930814522
10	Mahasamund	Shri Murari Sahu	SRI cultivation	Village: Achhola, Tahsil: Mahasamund, District: Mahasamund M: 09753413921

18. KVK interaction with progressive farmers-

Sr. No.	Date and month of interaction programme with progressive farmers	No. of progressive farmers to be participated
1	19.08.17	45
2	05.12.17	54
3	24.01.18	78
4	17.03.18	37

20. KVK interaction with progressive farmers

Sr. No.	Date and month of interaction programme with progressive farmers	No. of progressive farmers to be participated
1	19.08.17	45
2	05.12.17	54
3	24.01.18	78
4	17.03.18	37

21. Outreach of KVK

Name of KVK	Number of Blocks		Number of Villages	
	Intensive	Extensive	Intensive	Extensive
Mahasamund	05	03	15	560

Intensive- OFTS, FLDS etc
Extensive- Literature, Publications, Awareness programmes etc.

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

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

23. KVK Ring

Sr. No.	Name of Ring Partner	Sharing Activity	Lessons learnt/ Experiences gained.
01	Gariyaband	KVK, Gariyaband	Mushroom cultivation, Animal Husbandary
02	Raipur	KVK, Raipur	Fisheries, Mechanization, Woman Empowerment

24. Important visitors to KVK

Name of KVK	Name of Visitor	Date of Visit	ICAR	SAUs	Others	Remarks
Mahasamund	Dr. Sanjay Sharma	17.10.18		IGKV		
Mahasamund	Dr. R.K. Verma	17.10.18		IGKV		
Mahasamund	Dr. A.K. Thakur	17.10.18		IGKV		
Mahasamund	Sh. Vinod Chandrakar				MLA Mahasamund	
Mahasamund	Sh. Chandulal Sahu	24.03.19			MP Mahasamund	

25. Status of KVK Website:

Sr. No.	Name of KVK	Date of start of website	No. of updates since inception	No. of visitors
01	Mahasamund	February 2014	**52/year**	9512

26. E-CONNECTIVITY

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			
Mahasamund	NA						

27. Status of RTI

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

28. Status of Citizen Charter

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

29. Attended HRD Programmes organized by ZPD

Name of KVK	Name of Staff	Post held	Programme attended (Nos)	Remarks

Name of KVK	Total Number of staff Attended HRD Programme organized by ZPD (nos)	Total Number of Programme attended (Nos)
Mahasamund	02	06

30. Attended HRD Programmes organized by DES

Name of KVK	Name of Staff	Post held	Programme attended (Nos)	Remarks

Name of KVK	Total Number of staff Attended HRD Programmes organized by DES (nos)	Total Number of Programmes attended (Nos)
Mahasamund	02	18

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

Name of KVK	Total Number of staff Attended HRD Programmes by KVK staff (nos)	Total Number of Programmes attended (Nos)
Mahasamund	03	04

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
Mahasamund	-	-	-

33. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

Name of KVK	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
Mahasamund	Parthenium Week	01	175	Parthenium Eradication
Mahasamund	Swacchata Pakhwara	01	315	Swacchata Pakhwara during KKA

34. INTERVENTIONS ON DROUGHT MITIGATION

Introduction of alternate crops/varieties

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

Major area coverage under alternate crops/varieties

Name of KVK	Crops	Area (ha)	Number of beneficiaries
Mahasamund	-	-	-

Farmers-scientists interaction on livestock management

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

Animal health camps organized

Name of KVK	Number of camps	No.of animals	No.of farmers
Mahasamund	-	-	-

Seed distribution in drought hit states

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

Seedlings and Saplings distributed

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

Bio-control Agents

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

Bio-Fertilizer

Name of KVK	Bio-Fertilizer	Quantity (kg)	Coverage of Area (ha)	No. of farmers
Mahasamund	Nadep compost	1250	01	-
Mahasamund	Vermi compost	2714	02	-

Verms Produced

Name of KVK	Verms Produced	Quantity (q)	Coverage of Area (ha)	No. of Farmers
Mahasamund	36 kg.	0.36	50	20

Large-scale adoption of resource conservation technologies

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

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
Mahasamund	6	206	6	317	8	1395	3	2838	3	210	5	331

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
NA					

2**. Proposed Extension Activities in NICRA Village**

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

3. **Proposed Training Activities in NICRA Village**

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

NA

4**. Proposed Activities for Fodder Bank**

Established (Years)	Capacity	Current Status
NA		

5. **Proposed Activities for Seed Bank**

Established (Years)	Capacity	Current Status
NA		

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

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

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

NA

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

NA

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, and Impact

Sr. no.	Name of KVK	No. of success stories	No. of case studies
1	**Mahasamund**	**02**	**00**

Success Story 1

Sl.No	Particulars	Remarks
1.	Title of innovation	**“ZERO BUDGET AND ORGANIC FARMING”** **“ORGANIC FARMING OF PURPLE RICE AND PURPLE WHEAT”** “ORGANIC POLUTRY FARMING OF KADKNATH CHICKENS”
2.	Thematic area	AGRICULTURE AND ANIMAL HUSBANDRY
3.	Profile of innovator	NAME: Mohan Lal Chandrakar S/O : Shri D.P. Chandrakar

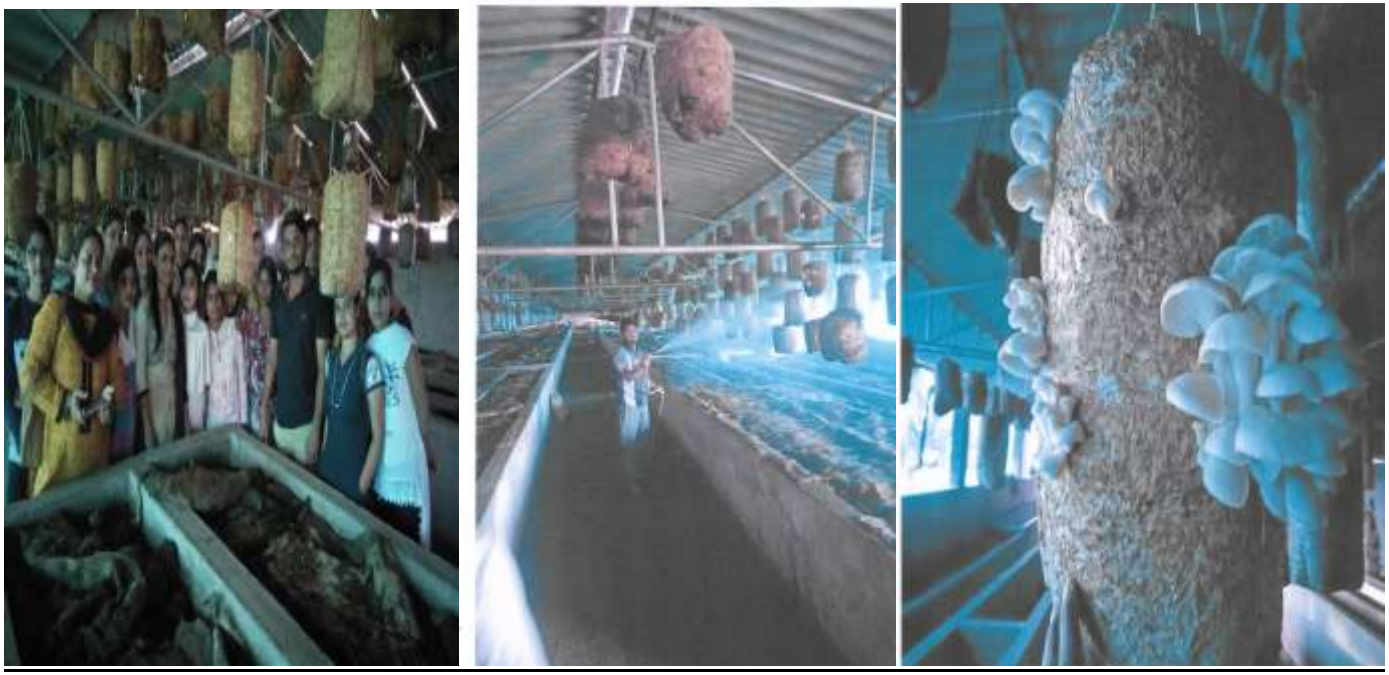
		ADDRESS: Village- Keshwa, Post office- Khatti Distt; Mahasamund. Chattisgarh. AGE: 49 Years. EDUCATION: MBA (Master Of Business Administration). At present I am doing organic farming in my own land around 35 acres of agriculture land and leased land 15 acres from other farmers. **ADHAR No.: 802278605092**
4.	Problem/ challenge addressed	The soil of my land is not fertile and my father is unable to get good yield. After resigned from my job as General Manager from a reputed multinational company I joined my father in agriculture in the year 2010 and started experimenting on land for better yield. I bought poultry waste and cow dunk from poultry farmers and cow owner and decomposed the same to make manure from it. Since then my production has increased and also my agriculture income has also increased to 150% in one hand and on the other side the cost of farming has also come down to significant level.
5.	Description of innovative practice/technology	**ORGANICE FARMING OF PURPLE RICE AND PURPLE WHEAT UNDER THE UMBRELLA OF FARMER PRODUCER COMPANY** **Urza Krishi Farmer Producer Company Limited** has formed to do collective farming and organized marketing of our agri-products, so that it could benefits all the farmer members associated with FPO. At present cultivating organically purple rice and purple wheat which has medicinal value. As these two basic food items contains high antioxidants which helps to increase immunity in human body to fight against cancer, blood pressure, sugar, anti aging and stress relief. **Purple wheat** has got very high anti-oxidant, as the normal wheat has Anthocyanins 5-15 ppm and purple wheat developed by NABI scientist has 40-140 ppm. Our mission is organic farming in zero budgets, which will be achieved only when farmer will adopt cows as their part of life, not only cow's milk but its urine, cow dunk, its horne, and after death of cow its decomposed body as manure is very fertile from organic point of view. **ORGANICE FARMING OF BASTAR KADKNATH CHICKENS** At present I have also started organic farming of bastar kadknath chickens, as I don't give them feed from the market which have high dose of hormones and antibiotics, but I feed them with rice broken (kanki) and broken cornflakes (bhutta) easily available in villages, so that cost of farming should not go up.
6.	Practical utility	Medicine and organic manure made out of cow urine and local tree leafs (which animal do not eat) has helped me to increase quality of the production of crop specially paddy and wheat.
7.	Source of information	Krishi Vigyan Kendra, field exposure and internet
8.	Economics/Profitability of innovative practice/ technology (costs and return) (per intervention or	1. **Organic Purple Wheat (Per ha):** Cost of cultivation 44000/-, average yield is 25 quintal, gross income 87500/- @ 3500/quintal. B:C ratio is 1.99.

	area or household)	2. **Organic Scented rice (paddy) (Per/ha):** Cost of cultivation 32500/-, average yield is 37.5 quintal, gross income 93750/- @ 2500/quintal. B: C ratio is 2.88. 3. **Organic Purple rice (paddy) (Per/ha):** Cost of cultivation 32500/-, average yield is 40 quintal, gross income 160000/- @ 4000/quintal. B:C ratio is 4.92.
9.	Potential : Acceptance level, horizontal spread of innovation and number of farmer adopting	Initially FPO was formed by the 13 farmers and spread the information through social media. By this personal contact of scientist from KVK and other innovative farmers it spread to larger area and till date around 50 farmers have been joined in this company
10.	Illustrate with high quality photos with caption, graphs	

Success story 2

Sl.No	Particulars	Remarks
1.	Title of innovation	**"VERMICOMPOST PRODUCTION"** **"OYESTER MUSHROOM PRODUTION"**
2.	Thematic area	AGRICULTURE AND HORTICULTURE
3.	Profile of innovator	NAME: Neky Navin Sahu S/O : Shri Chhannu lal sahu **Adhar No.- 8888 0023 6099** Address: Village- Barondabajar, Post office- Bahmni Distt; Mahasamund. Chattisgarh. AGE: 27 Years. EDUCATION: B. Tech (Dairy Technology).

		I am Producing Vermicompost in 110 tank and on the same place Oyster Mushroom production work is also doing.
4.	Problem/ challenge addressed	To convince the farmers for use of vermicompost and nutritional benefits of mushroom, because farmers are not aware for its benefits.
5.	Description of innovative practice/technology	Usage of mushroom cultivation above vermicompost pit hence multilayer farming, the technology which not only helps in maintain the required adequate atmosphere of enrich vermicompost production but also produce raw material for enrich vermicompost production.
6.	Practical utility	Employing rural women in farm after trained them for the job.
7.	Source of information	Krishi Vigyan Kendra Mahasamund, Exposure Visit
8.	Economics/Profitability of innovative practice/ technology (costs and return) (per intervention or area or household)	**Vermicompost-** Production – 200 q. per Month Gross return-100000/- Gross cost-48800/- Net profit-51200/- per month **Mushroom-** Production – 3.0 q. per Month Gross return-45000/- Gross cost-15000/- Net profit-30000/- per month
9.	Potential : Acceptance level, horizontal spread of innovation and number of farmer adopting	Vermicompost is good source of major and micronutrients, which is important for soil and crops, farmers can increase the fertility and other important properties of soil for higher production. Mushroom is very good source of protein, carbohydrate and fibers which can help to control malnutrition. After my innovation about vermicompost and mushroom farmers are getting knowledge that how to do this and trying for production and more than 20 farmers are adopting the technology.
10.	Illustrate with high quality photos with caption, graphs	



VERMICOMPOST AND MUSHROOM PRODUCTION UNIT