

ANNUAL PROGRESS REPORT



April 2013 to March 2014



Jawaharlal Nehru Krishi Vishwa Vidyalaya Krishi Vigyan Kendra, Sagar (MP)

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Instructions for Filling the Format

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

Vegetable :- Vegetable pea, Bottle guard, Bitter guard, Okra (not use Bhindi or Ladies finger).

Fruits :- Mango, Guava, Custard apple, Pear etc.

Spices :- Black Peeper, Turmeric, Ginger, Cardamom etc.

REPORTING PERIOD – April 2013 to March 2014

Summary of	KVK Annu	al Report	(Quantifiable Achievement)	for	the	vear	2013-14	
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S.N.	Quantifiable Achievement	Number	Beneficiarie	es (nos.)
1	On Farm Testing			
	Proposed OFT	19		100
	On Going OFT	02		15
	Technologies assessed (Completed OFT)	19		107
	Technologies refined	0		0
	On farm trials conducted	21		92
2	Frontline demonstrations			
	Proposed Frontline demonstrations	22		191
	On Going Frontline demonstrations	01		10
	FLDs conducted on crops	16		159
	Area under crops (ha.)	41.5		159
	FLD on farm implement and tools	01		05
	FLD on livestock/ AH enterprises (Dairy/ Sheep and Goat/Poultry/ Duckery/ Piggery etc.)	02		20
	FLD on Fisheries - Finger lings	0		0
	FLD on other enterprises (Bee keeping, lac, mushroom, sericulture, value addition, vermi	01		05
	compost, etc.)			
	FLD on Women in Agriculture - (Nutritional garden, Income generation, Value addition,	03		23
	Drudgery reduction, etc.)			
3	Training programmes	No. of Course	Duration (days)	Participants
	Farmers	57	57	1365
	Farm women	10	10	221
	Rural youth	07	22	149
	Extension personnel/ In service	09	09	186
	Vocational trainings	02	70	50
	Sponsored Training	03	03	160
	Total	88	171	2121
		No. of programmes	Particip	ants
4	Extension Programmes	233	-	5326
5	Production of technology inputs etc	Qty	Beneficiarie	es (nos.)
	Seed (qt.)	7.3	To be distributed	
	Planting material produced (nos.)	53480		294
6	Livestock	Qty	Beneficiarie	es (nos.)
	Livestock strains (Nos)	-		-
	Milk Yield - Cow, Buffelo etc. (in liter)	-		-
	Fish (Kg.)	-		-
	Fingerlings (nos.)	-		-
	Poultry-Eggs (nos.)	-		-
	Ducks (nos.)	-		-
	Chicks etc. (nos.)	-		_

7	Bio Products	Qty	Beneficiari	es (nos.)
	Bio Agents -Earth worm (Kg.)	5		5
	Trichoderma (kg.)	-		-
	Bio Fertilizers- Vermi compost, Rhizobium, PSB, BGA, Mycorriza, Azotobacter,	50		50
	Azospirillum etc. (Kg.)			
	Bio Pesticide-Panchgavya, Neem Extract, Neem oil etc.(lit.)	-		-
8	Any other significant achievement in the Zone	Nos.	Participants/ b	eneficiaries
	Award (Best KVK award and scientist and farmer's award)	01		01(Institutional)
	Publications (Res. Paper/ pop. Art./Bulletin,etc.)	28		Mass
	KVK News letter	04		1800
	SAC Meetings conducted	02		53
	Soil sample tested	55		43
	Water sample tested	-		-
	RWH System (Special training and field visit on RWH structure and MIS in KVKs)	-		-
	KVK-KMA (Message and beneficiaries)	40		30903
	Convergence programmes	-		-
	Sponsored programmes	03		160
	KVK Progressive Farmers interaction	01		75
	No. of Technology Week Celebrations	01		196
	Attended HRD activities organized by ZPD	02		01
	Attended HRD activities organized by DES	01		01
	Attended HRD activities by KVK Staff(Refresher /Short course, Training programme etc.)	04		03
9	Current status of Revolving Funds (Amt. in Rs.)		152580	
10		No. of blocks	No. of vi	llages
	Outreach of KVK in the District	11	89	
11		ICAR	SAU	Others
	No. of important visitors to KVK (nos.)	01	04	03
12		Working (Yes/No)	No. of U	pdate
	Status of KVK Website	Yes	Nil	
13		Application received	Application	disposed
	Status of RTI (nos.)	01	01	
14		Query received	Query dis	solved
	Citizen Charter (nos.)	72	72	
15		Working (Yes/No)	No. of program	
	E-connectivity	-	<u> </u>	
16		Filled	Vaca	nt
	Staff Position	16	10	
17	Workshop/ Seminar/ Conference attended by staff of KVK (nos)		03	
18	Publication received from ICAR /other organization (nos.)		03	
19		Particulars	Organiz	ation
	Agri alerts (epidemic, high serious nature problem, Cyclone etc. reported first time to ZPD, SAU, Agri. Deptt. and ICAR)	-		

GENERAL INFORMATION

1.1. Staff Position (as on date)

Summary of Staff position in KVKs on March, 2014

Name of KVK	Sanctioned	PC	(1)	SMS	5 (6)	PA	(3)	Adm	n. (6)	Total		
	Posts	Sanc.	Filled									
Sagar	16	01	01	06	05	03	01	06	03	16	10	

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
Sagar	Programme Coordinator	Dr. K. S. Yadav	Horticulture	Ph.D	Horticulture	15600-39100	30320	15.5.2012	Temporary	OBC
Sagar	Subject Matter Specialist1	Dr. A.K. Tripathi	Plant Protection	Ph.D	Plant Protection	15600-39100	28920	24.01.2007	Temporary	Others
Sagar	Subject Matter Specialist2	Dr. Vivekin Pachauri	Animal Husbandry	M.V.Sc.	Animal Nurition	15600-39100	25050	24.01.2007	Temporary	Others
Sagar	Subject Matter Specialist3	Dr. A. K. Singh	Soil Science	Ph.D	Soil Science	15600-39100	28920	27.01.2007	Temporary	Others
Sagar	Subject Matter Specialist4	Dr.Vinita Singh	Home Science	Ph.D	Human Nutrition	15600-39100	28920	07.02.2007	Temporary	Others
Sagar	Subject Matter Specialist5	Dr. Mamta Singh	Plant Breeding	Ph.D	Plant Breeding	15600-39100	28920	13.02.2007	Temporary	Others
Sagar	Subject Matter Specialist6	Vacant	-	-	-	-	-	-	-	-
Sagar	Programme Assistant	Sh. R.P.Tripathi	_	B.Com,	-	9300-34800	18010	30.8.2008	Temporary	Others
Sagar	Farm Manager	Vacant	-	-	-	-	-	-	-	-
Sagar	Computer Programmer	Vacant	-	-	-	-	-	-	-	-
Sagar	Accountant / superintendent	Vacant	-	-	-	-	-	-	-	-
Sagar	Stenographer	Vacant	-	-	-	-	-	-	-	-
Sagar	Driver	Sh. Jagdish Vishwakarma	Driver cum mechanic	8 th class		5200-20200	8810	08.7.2008	Temporary	OBC
Sagar	Driver	Sh. Sanjay Agarwal	Driver cum mechanic	12 th class		5200-20200	8810	14.7.2008	Temporary	Others
Sagar	Supporting staff	Smt. Usha Tiwari	Peon	8 th class		4440-7440	7700	09.5.2005	Temporary	Others
Sagar	Supporting staff	Vacant	-	-	-	-	-	-	-	-

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

KVK Name	Agro-climatic zone	No . of Blocks	No. of Panchayats	Population	Literacy	SC and ST Population	No. of farmers	Average land holding
Sagar	Bundelkhand Platue	11	762	2021987	77.52	611846	409696	2.0

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)
Sagar	Chitaura	2013	Sagar	24 Km	2856	627
Sagar	Chainpura	2013	Jaisinagar	15 Km	1036	357

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

KVK	THRUST AREA
Sagar	(1) To facilitate the availability of seed of improved varieties of major crops i.e. soybean, Gram, Wheat in the district.
	(2) To motivate farmers towards cultivation of vegetables, spices, medicinal plants and fruit crops to increase the socio economic status.
	(3) Better input use and their management through IPM, IDM, INM, IWM technologies for increasing crop production.
	(4) Conservation of natural resources to control soil and water erosion through water harvesting, conservation of soil moisture through summer ploughing, use of organic & bio fertilizers.
	(5) Balance feeding of milch animal and their health management
	(6) Need to organize agri- based vocational trainings for self employment of rural youths like vermi compost production, bee keeping, Mushroom production, value addition, dairy etc.
	(7) Women empowerment through modern implements / farm mechanization (Spiral grader, Seed separator, Wheel hoe, hanging grain cleaner, Potato digger and Onion planter) to reduce farm women drudgery.
	(8) Create awareness regarding post harvest losses during storage and value addition to agro products like Tomato, Ber, Amla, Mango.
	(9) To Create awareness about health, hygiene, nutrition in farm women and malnutrition in children by soy foods and other locally available raw materials

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

KVK Name	Problem identified	Methods of problem identification	Location Name of Village & Block	
Sagar	Low Yield of SoybeanHigh seed rate, Use of old Seed,	PRA, Group Discussion	Vill Chitora Block-Sagar Vill Chainpura Block - Jaisinagar	
	 Pest infestation, Infertility of crop due to pests, Less use of weedicides 			
Sagar	Low Yield of Gram & Wheat	PRA, Group Discussion	Vill Chitora Block-Sagar	
	• High seed rate, Wilt problem, Pod borer and pod fly, Imbalance use of fertilizer		Vill Chainpura Block - Jaisinagar	
Sagar	Low Yield of Fodder	PRA, Group Discussion	Vill Chitora Block-Sagar	
	• Low Production Less use of Green Fodder, Lack of knowledge about round the year green fodder production		Vill Chainpura Block - Jaisinagar	
Sagar	Low Yield of Vegetables	PRA, Group Discussion	Vill Chitora Block-Sagar	
	• Imbalance nutrient management, Lack of knowledge about vegetable varieties of tomato, potato, chillies, brinjal, okra, ginger etc.			
	• Lack of knowledge about management & plantation of fruits – Aonla , mango, guava, citrus, papaya etc.			
	Indiscriminate use of Insecticide		Vill Chainpura Block - Jaisinagar Vill Chitora Block-Sagar Vill Chainpura Block - Jaisinagar Vill Chitora Block-Sagar Vill Chainpura Block - Jaisinagar	
Sagar	 Livestock Low milk production due to low protein intake Poor egg production due to unavailability of high yielding layers 	PRA, Group Discussion		
Sagar	 Women in Agriculture High prevalence of protein energy malnutrition among children High magnitude of iron deficient anemia among females of all age groups Low intake of protein, vitamin & minerals rich foods. Low consumption of soybean in daily diets Unawareness of farm women regarding the nutrional signification of 	PRA, Group Discussion	e	
	• Low consumption of soybean in daily diets			

2. On Farm Testing

Note-

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

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

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

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

2.1 Information about OFT

KVK	Year	Seasor		Title of OFT	Category of	Thematic	Crop/			Res	sults (o	q/ha)	Net R	eturns (Rs./ha)	Recommendation
name			diagnose		technology (Assessment/ Refinement)	Area	enterprise	Situation	trials	FP (T ₁)	RP (T ₂)	T3	FP (T ₁	RP (T ₂)	Т3	
Sagar	2013		of old & mix	Improved Variety of	Assessment	Varietal assessment		Rain fed	5	4.13	5.23	5.50	4966	8341		T_3 recommended for large scale demonstration
Sagar	2013		Low yield of soybean due to high infestation of Weeds in Soybean.	Quizalophop ethyl +Chlorimuron		Weed managemen	5	Rain fed	5	5.0	7.28	7.55	4975	12330		T ₃ recommended for large scale demonstration
Sagar	14		Low yield of Wheat due to use of old & mix variety	yielding variety of Wheat T-2: HI 1544 T-3: GW 366	Assessment	Varietal assessment		Irrigated		28.49			30393			T_3 recommended for large scale demonstration
Sagar	2013- 14		use of old &	improved variety of	Assessment	Varietal assessment		Rain fed	5	6.01	7.38	7.79	7974	11716		T ₃ recommended for large scale demonstration
Sagar	2013- 14	Rabi	No use of molybdanum	Assessment of molybdenum response in chickpea	Assessment	INM	Chickpea- JG63	Rainfed	5	8.71	12.79	15.53	16614	28238		T_3 recommended for large scale demonstration

				T1-No use of molybdenum												
				T2-Use of ammonium												
				molybdate@1gm /Kg of seed												
				coating+NPK 20:60:20												
				Kg/ha												
				T3: T2+ Basel application of Mo @1.0												
				Kg/ha												
Sagar	2013-	Rabi		Assessment of INM in	Assessment		Greenpea	Irrigated	2.0	69.1	97.0	106.6	77722	110988		
	14		to imbalanced use of	greenpea T2: Use of NPK@			(Arkale)									for large scale demonstration
			fertilizers(NPK-													demonstration
			14:35:0Kg/ha)	through SSP +Zn												
				5Kg/ha T3: FYM +												
				Biofertilizers +T2												
Sagar	2013	Kharif		Assessment of Keyon (Parthenocarpic)	Assessment	Varietal assessment	Cucumber	Irrigated	5	135	156	175	325000	40400	475000	T ₃ recommended for large scale
				(Partiteinocarpic) Variety of Cucumber		assessment										demonstration
			setting	T2: Production in Net												uemonoulution
				house												
				T3: Production in Poly house												
Sagar	2013	Kharif		Assessment of IWM for	Assessment	IWM	Ginger	Irrigated	5	179	193	213	124000	135500		
			Ginger	the management of												for large scal
				weeds in ginger T2 - Mulching just after												demonstration
				sowing. T3 - T2+1hand												
9	2012	D 1 '		hoeing. 20 DAS		T T 1 1	D · · 1	T 1 1	-							
Sagar	2013- 14	Rabi	Low yield of Brinjal	Assessment of high yielding variety of	Assessment	Varietal assessment	Brinjal	Irrigated	5							continued
	14		Drinju	brinjal Hy. Variety		assessment										
				T2- Harihar												
				T-3: Hariya (Green fruit)												
Sagar	2013-	Rabi	Low yield of	Assessment of IWM	Assessment	Varietal	Onion	Irrigated	5	185	226	262	77500	104200	126900	T ₃ recommended
	14		Onion	for the management of		assessment		_								for large scale
				weeds in Onion T-2: One hand weeding												demonstration
				at 20DAS												
				T-3: T-2 + Quizalophop												
				ethyl 5% EC +												

				Oxyflorefen 23.5 % EC								1			
				(a), 750, l/ha + 250 ml/ha											
Sagar	2013	Kharif	Low yield due to bacterial wilt disease in chilli	Assessment of Kasugamycin and Copper hydroxide for management of bacterial wilt in Chilli T2: Seedling treatment by Kasugamycin @1ml/lit of water T3: T2 + Soil drenching with Copper hydroxide @ 2g/lit. of		IDM	Сгор	Irrigated	5	36	57.4	65.5	36000	98700	T_3 recommended for large scale demonstration
Sagar	2013	Kharif	Soybean due to	water Assessment of Forate and Trizophos for management of girdle beetle in Soybean T2: Soil application of Phorate @15kg/ha T3: T2 + Spray of Trizophos @ 11it/ha		IDM	Crop	Rain fed	5	6.0	7.2	8.3	9650	12650	T_3 recommended for large scale demonstration
Sagar	2013- 14	Rabi	to of insect	Assessment of IPM practices for control of insect in cauliflower T2: spray of cartap hydrochloride@1Kg/ha T3: Installation of pheromone trap 20/ha ,application of Fipronil @15 Kg/ha		IPM	Сгор	Irrigated	5	179	193	213	124000	135500	T_3 recommended for large scale demonstration
Sagar	2013- 14	Rabi	Low yield due to Alternaria blight in Potato			IDM	Crop	Irrigated	5	154	165	179			T ₃ recommended for large scale demonstration
Sagar	2013	Kharif	Low milk yield due to heavy worms load in	Assessment of ectoparasiticides for	Assessment	Disease managemen	Enterprise		5	1.3	1.7	2.1	25	35	T ₃ recommended for large scale demonstration

		milch animals	infestation in cattle . T2: Use of Flumethrin @ 2ml/lit of water for bath T3: T2 + Probiotics- Essac @ 10g/animal/day										
		Low production of milk	Probiotics for milch animals. T2: Dewormer Hitek @ 3g/300kg b. wt. for 3 months T3: Use of Provisacc @ 2 bolus/day/animal for 3 months	Assessment	management	Enterprise					48	56	T ₃ recommended for large scale demonstration
Sagar	2013- 14	lower reproduction performance of	Oxyclozanide medicine dewormer for dairy animals T-2: 3 gm Albendazole for 300 kg body weight	Assessment	Disease management	Enterprise -	5	3.05	3.2	3.5	90	96	T ₃ recommended for large scale demonstration
Sagar	2013- 14	Low egg & meat production.		Assessment	Poultry management	Enterprise	10						Continued

Economic Performance

KVK name	OFT Title	Pa	rame	ters			erage Co vation (1		Avera	ge Gross (Rs/ha	s Return)	Avera	nge Net] (Rs/ha)		(G		ost Ratio Return / Cost)
		Name and unit of Parameter			RP (T ₃)	FP (T ₁)		Refined Practice, if any (T ₃)			Refined Practice, if any (T ₃)			Refined Practice, if any (T ₃)	FP (T ₁)	(T ₂)	Refined Practice, if any (T ₃)
C C	Assessment of Improved Variety of Urd. T2: IPU-94-1 T3: PU 35	Pods/plant	11.5	13.5	15.8	8250	8395	8495	13216	16736		4966	8341	9105	1.6		2.07
	Assessment of Quizalophop ethyl +Chlorimuron weedicide for weed management in soybean. T2: Use of Quizalophop ethyl +Chlorimuron @ 400+15gm/acre at 15- 20 DAS T3: T2 + One hand weeding		114	26	14.6	9525	10150	10250	17500	25480	26425	4975	12330	11775		2.51	2.57
0	Assessment of high yielding variety of Wheat T-2: HI 1544 T-3: GW 366	No. of tillers/plant	7.2	9.3	11.8	12342	13710	13660	42735	49320	53175	30339	35610	39515	3.46	3.59	3.89
	improved variety of gram. T-2: JG-14 T-3: JG 130	Pods/plant					10900	11000	19236	23616	25472	7674	11716	13672	1.08	2.16	2.31
-	Assessment of Molybdanum response	Pods/plant	39.2	53.2	56.6	11258	12684	15313	27872	40922	49696	16614	28238	34383	2.48	3.23	3.25

	in chickpea																
	Assessment of INM in	Pods/plant	19.4	26.2	28.4	12108	15112	15912	89830	126100	138580	77722	110988	122668	7.42	8.34	8.71
	green pea	-															
Sagar	Assessment of Keyon		-	24.8	-	50500	115000	-	187500	675000	-	137000	560000	-	3.71	5.86	-
	(Parthenocarpic)	fruits/plant															
	Variety of Cucumber																
	T2: Production in Net house																
	T3: Production in Poly																
	house																
Sagar	Assessment of IWM	Rhizome	70	94	106	215000	220000	225000	540000	624000	700000	325000	404000	475000	2.5	2.83	3.11
C	for the management of																
	weeds in ginger T2 -	(gram)															
	Mulching just after																
	sowing. T3 - T2+1 hand hoeing. 20 DAS																
Sagar	Assessment of high	_	-	-	-										_	-	
Sugui	yielding variety of																
	brinjal Hy. Variety																
	T2- Harihar																
	T-3: Hariya (Green																
9	fruit)					50000	54000	56500	120500	150200	102400		104200	12(000	2.40	2.02	2.25
Sagar	Assessment of IWM for the management of		-	-	-	52000	54000	56500	129500	158200	183400	77500	104200	126900	2.48	2.92	3.25
	weeds in Onion																
	T-2: One hand weeding																
	at 20DAS																
	T-3: T-2 +																
	Quizalophop ethyl 5%																
	EC + Oxyflorefen 23.5																
	% EC @ 750,l/ha +250 ml/ha																
Sagar	Assessment of	Disease	42.4	16.6	10.6	72000	73500	78500	10800	172200	196500	36000	98700	118000	1.5	2.34	2.50
Sugar	Kasugamycin and		1 <i>4</i> .T	10.0	10.0	,2000	,5500	/0200	10000	172200	170500	50000	20700	110000	1.5	2.J T	2.50
	Copper hydroxide for																
	management of																
	bacterial wilt in Chilli																
	T2: Seedling treatment																
	by Kasugamycin																
	Cy Kasuganiyeni																

	@1ml/lit of water																
	T3: T2 + Soil																
	drenching with Copper																
	hydroxide @ 2g/lit. of																
	water																
	Assessment of Forate	Insect	0.4	0.26	0.12	8300	8950	9250	18000	21600	24900	9650	12650	15650	2 1 5	2.41	2.69
-		population	0.1	0.20	0.12	0500	0,20	1200	10000	21000	21,000	2020	12000	10000	2.10	2.11	2.09
	management of girdle	I I I I I I I															
	beetle in Soybean																
	T2: Soil application of																
	Phorate @15kg/ha																
	T3: T2 + Spray of																
	Trizophos @ 11it/ha																
	Assessment of IPM	Insect	2.6	1.4	0.8	55000	57500	59600	179000	193000	213000	1244000	135500	153400	3.25	3.36	3.57
	practices for control of																
	insect in cauliflower																
	T2: spray of cartap																
	hydrochloride@1Kg/ha T3: Installation of																
	pheromone trap 20/ha																
	application of Fipronil																
	@15 Kg/ha																
	Assessment of	Disease	11.6	7.6	4.4	58200	59500	61600	123200	132000	143200	65000	72500	81600	2.11	2.22	2.42
	Carbendazim +	incidence															
	Mancozeb (SAAF) for																
	control of Alternaria																
	blight in Potato																
	T2-Tuber treatment																
	with SAAF @2 gm/lit																
	T3- Tuber treatment																
	and Spray of SAAF																
	@2gm/lit at 40 DAS																
-	Assessment of	-	-	-	-	14	16	19	39	51	63	25	35	44	1.7	2.1	3.3
	ectoparasiticides for																
	control of tick																
	infestation in cattle .																

	T2: Use of Flumethrin @ 2ml/lit of water for bath T3: T2 + Probiotics- Essac @ 10g/animal/day																
	Assessment of Probiotics for milch animals. T2: Dewormer Hitek @ 3g/300 kg b. wt. for 3 months T3: Use of Provisacc @ 2 bolus/day/animal for 3 months		-	-	-	18	19	20	66	75	90	48	56	70	3.6	3.9	4.5
	Assessment of Oxyclozanide medicine dewormer for dairy animals T-2: 3 gm Albendazole for 300 kg body weight of animals T-3: Oxyclozanide (Nilzan 100 ml in two dose)		-	-	-	17	18	19	90	96	105	71	78	86	5.2	5.3	5.5
Sagar	Assessment of improved breed of poultry(dual propose in backyard poultry) T-2: 2 weeks vaccinated chicks for egg & meat purpose, T-3: T-2 + balance feed biomade 300 g/month	continued															

Information about Home Science OFT:

KVK Name	Year	Season	Problem diagnose	Title of OFT	Category of technology (Assessment/ Refinement)	Thematic Area	Technology Selected for	Characteristics of Technology / Variety / Product / Enterprise	Farming / Enterprise Situation	No. of trials	Recommendations
Sagar	2013	Kharif	and low cleaning efficiency of farm women	-	Assessment	Drudgery reduction	1	Use of Spiral grader	Enterprise	05	Technology suitable for large scale demonstration
Sagar	2013	Kharif		Assessment of marigold cultivation for income generation by farm women	Assessment	Income generation	2	Cultivation of marigold on field bunds	Irrigated	05	Technology suitable for large scale demonstration
Sagar	2013- 14	Rabi	of green	Assessment of preservation of green leafy vegetables through drying for making off season availability	Assessment		T-2: Cleaning and washing, sun dring, powder formation, packing		Enterprise	05	Technology suitable for large scale demonstration

			IVI III	ance	11(/111			liitt	UI	1.		n	C		T 1	•	· / T														
	OFT Title												Pe	erforr	nance	Ind	icat	tor / F	'ara	imete	er											
name		Output	Est. E	Energy	-	HR		%	redu	ction	%	incr	ease in	Pro	ductio	n	(Cost a	of	In	creme	ntal	Yie	eld(Kg	/ha)	Ne	t Ret	urn	Saving	BC	ra	tio
				ıditure					drud				ency		er unit			input			incom				,				in Rs			
				min.									·					•														
		T1 T2			T1	T2	T3	T1	T2	T3	T1	T2	Т3	T1	T2	T3	T1	T2	T3	T1	T2	T3	T1	T2	T3	T1	T2	T3		T1	T2	T3
Sagar	Assessment		-	-	20	12	19	- 1	85.66	69.28	-	318	209.25	43.2	180.6	-	-	-	-	-	-	-	-	-	-	-	-					-
	of cleaners														kg/hr																	
	for													C	C																	
	drudgery																															
	reduction																															
	among farm																															
	women																															
	during of																															
	Soybean																															
	5																															
~																			10-							1			• • • •			
Sagar	Assessment		-	-	-		-	-	-	-	-	-	-	-	-	-	270)447	487	1310	2814 (4200	131	281	420	1040	2367	3713	2890	3.2		
	of marigold																															
	cultivation																															
	for income																															
	generation																															
	by farm																															
-	women																	100						0.000	_				D 0.00			
Sagar	Assessment		-	-	-		-		-			-	-	-	-	-	-	100	F	-	-	F	-	2022g		-	-	-	Rs. 250		-	-
	of																	1				1		/ kg	F							
	preservation																							green	1							
	of green																	1				1		matter								
	leafy																	1				1										
	vegetables																	1				1										
	through																	1				1										
	drying for																	1				1										
	making off										1														1							
	season																	1				1										
	availability																	1				1										
																<u> </u>									1							

Economic Performance Home Science OFT:

2.5 Feedback from KVK to Research System

Name of KVK	Feedback
Sagar	Seed of improved varieties made available within the time span of sowing for better results

Achievements of Frontline Demonstrations

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

|--|

KVK	Crop/	Thematic		Details of popularization	Horizontal	spread of techn	ology
Name	Enterprise		Technology demonstrated	methods suggested to the	No. of	No. of	Area
Ivallie		Area		Extension system	villages	farmers	in ha
Sagar	Gram	IV	Improved variety JG-16	Training, Field day, Mass media,	18	4550	12000
				Literature			

Note-

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

*Crop name should be spelled correct and standard English name should be i.e Chick pea in place of gram, Paddy in place of Rice, brinjal in place of egg plant etc. *Don't press enter key to navigate among col use arrow or tab key

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

3.2 Details of FLDs implemented

KVK Name	year	Season	Themat ic area	Technology demonstrated	Name of Crop/ Enterprise	Name of Variety/Technol	Crop- Area (ha) / Entren		s (q/ha)	% chan		N	o. of f	farmers	5
1 vanie			ie ui eu		Lincerprise	ogy/Entreprizes	- No.	RP (T ₂)	FP (T ₁)	ge				Gener	-
Sagar	2013	Kharif	ICM	Soybean- IV (JS-93-05) + Fertilizer + Insecticide (Trizophos)	Сгор	JS 95-60	5 ha	9.18	6.27	46.4	-	<u>T</u>	rs 11	<u>al</u> 2	al 13
Sagar	2013	Kharif	ICM	Blackgram- IV (PU-30) + Fertilizer + Insecticide (Dimethoate)	Сгор	PU 35	5 ha	6.61	4.93	25.4	02	-	10	3	15
Sagar	2013-14	Rabi	ICM	Gram –IV (JG-63) + IPM	Crop	JG 63	16 ha	9.83	7.04	39.8	2	1	30	7	40
Sagar	2013	Kharif		Short duration Variety of Soybean (JS-95-60)	Soybean	JS- 95-60	2	7.1	6.1	16.39	-	-	-	5	5
Sagar	2013	Kharif	NRM	Ridge & furrow sowing method	Soybean	JS- 9305	2	7.35	5.9	24.5	-	1	3	1	5
Sagar	2013-14	Rabi		improved variety of Wheat for limited Irrigation	Wheat	JW- 3211	2	25.6	18.8	35.8	1	-	4	-	5

Sagar	2013-14	Rabi	СР	mesosulfuron + iodosulfuron for control of weeds	Wheat	GW-322	2	32.5	28.2	15.0	1	-	3	1	5
Sagar	2013-14	Rabi	INM	Nutrient management in chickpea (Application of NPK @20:60:20 kg/ha & Zn-5kg/ha)	Crop	JG 63	2	12.64	8.68	45.62	-	-	5	-	5
Sagar	2013-14	Rabi	INM	Nutrient management in Wheat (Application of NPK @100:60:40 kg/ha+Zn- 5kg/ha)	Crop	GW 322	2.0	44.28	30.26	46.33	-	-	5	-	5
Sagar	2013	Kharif	HOV	Improved High Yielding Variety of cowpea	Cowpea	CP-4	0.5	48	35	37	-	-	5	-	5
Sagar	2013	Kharif	HOV	Stacking in tomato	Tomato	Lakshmi (5005)	0.5	305	180	69	-	-	10	-	10
Sagar	2013-14	Rabi	HOV	Foliar application of soluble fertilizer in tomato	Tomato	Lakshmi (5005)	0.5	Continue			-	1	8	3	12
Sagar	2013-14	Rabi	HOV	Improved variety of Chilli	Chilli	VNR 109	2	Continue			-	-	2	8	10
Sagar	2013	Kharif	IDM	Rhizome rot disease control by Copper Hydroxide	Crop	Suprabha	1.0	79	64	23.4	-	-	-	5	5
Sagar	2013-14	Rabi	IPM	IPM in Brinjal	Crop	Hybrid	1.0	102	90	13.3	-	-	5	-	5
Sagar	2013-14	Rabi	IPM	Fruit borer in control tomato	Crop	Hybrid	1.0	176	153	15.0	-	-	6	-	6
Sagar	2013-14	Rabi	LPM	Demonstration of Berseem fodder for milch animals	Dairy Enterprise	JB-1	1 ha	2.0	1.5	33.33	-	-	-	10	10
Sagar	2013-14	Rabi	LPM	Demonstration of dewormer to reduce worm load	Dairy Enterprise	Fenbendazole tablet	-	490	375	30.6	1	-	9	-	10
Sagar	2013	Kharif	LPM	Demonstration of M.P. Chari fodder for milch animals	Dairy Enterprise	M.P. Chari- Bajra	1 ha	225	160.5	40.0	-	-	10	-	10
Sagar	2013	Kharif	LPM	Demonstration of mineral supplementation to enhance milk production	Dairy Enterprise	Mineral mixture	-	1.89	1.4	28.5	-	-	10	-	10

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 N (Rs/ha)	Net Return	Ratio (Gross Return / Gross Cost)		
			Name and unit of Parameter	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)	FP (T ₁)	
Sagar	JS-93-05)+ Fertilizer + Insecticide (Trizophos)	Soybean	No of pods.	23.0		10135	8750	27540	18810	17405	10060	2.72	2.14	
Sagar	PU-30 + Fertilizer + Insecticide (Dimethoate)	Blackgram	No. of pods	16	12	9170	8250	26400	19720	17230	11470	2.39	2.88	
Sagar	JG-63 + IPM	Gram	No of p ods	45	40	8505	6852	29512	21112	21007	14260	3.47	3.08	
Sagar	Short duration Variety of Soybean (JS- 95-60)	Soybean	No. of pods	22.8	19.2	117.25	11500	25275	21350	12725	8825	2.23	1.82	
Sagar	Ridge & furrow sowing method	Soybean	No. of pods	24.6	21.6	11950	11725	25725	20650	14000	8700	2.19	1.72	
Sagar	improved variety of Wheat for limited Irrigation	Wheat	No of tillers/plant	6.5	5.0	13550	12500	38415	28275	24865	15775	2.84	2.26	
Sagar	Mesosulfuron + iodosulfuron for control of weeds	Wheat	No. of weeds/m2			13050	12500	48750	42375	35700	29875	3.74	3.39	
Sagar	Application of NPK@20:60:20 kg/ha+ Zn- 5kg/ha	Chickpea	Pods/Plant	52.6	38.2	12445	11258	40448	27776	28003	16518	3.25	2.47	
Sagar	Application of NPK@100:60:40 kg/ha+Zn- 5kg/ha	Wheat	Effective Tillers/m2	293	165	15456	12342	664202	45390	50964	33048	4.30	3.68	
Sagar	Improved High Yielding Variety of cowpea	Cowpea	-	-	-	16500	17650	35000	48000	18500	30350	2.12	2.72	
Sagar	Stacking in tomato	Tomato	No. of fruits	42	30	45000	60000	144000	244000	99000	184000	3.2	4.06	
Sagar	Foliar application of soluble fertilizer in tomato	Tomato	Continued	-	-	-	-	-	-	-	-	-		
Sagar	Improved variety of Chilli	Chilli	Continued	-	-	-	-	-	-	-	-	-	-	

Sagar	Rhizome rot disease control by Copper Hydroxide	Ginger	Disese incidence (%)	6.2	12.0	78000	73500	237000	192000	159000	118500	3.03	2.61
Sagar	IPM in Brinjal	Brinjal	Insect population	0.8	2	42000	385000	102000	90000	60000	51500	2.48	2.33
Sagar	Fruit borer in control tomato	Tomato	Insect popultion	0.5	1.5	61500	57500	176000	153000	114500	95500	2.86	2.66
Sagar	Demonstration of Berseem fodder for milch animals	Berseem	Milk production lit/day	2.0	1.5	39	36	60	45	21	9	1.53	1.25
Sagar	Demonstration of dewormer to reduce worm load	Dairy	Milk production lit/lac	490	375	3385.2	3060	14700	11250	11314	8190	4.34	3.67
Sagar	Demonstration of M.P. Chari fodder for milch animals	Fodder	Milk production lit/lac	225	160	3660	3355	6750	4800	3090	3355	1.8	1.4
Sagar	Demonstration of mineral supplementation to enhance milk production	Dairy	Milk production lit/day	1.89	1.4	14	16	54	42	38	28	3.37	3.0

3.4 Information about Home Science FLDs

KVK name	Year	Season	Thematic Area	Problem Identified	Technology to be Demonstrated as Solution to the Identified Problem	Crop/ Enterprise (In which crop Enterprise or Farming Activity)	Name of Variety/Technology/Entreprizes	Farming Situation	Proposed area (ha)	No. of Beneficiaries
Sagar	2013	Kharif	WOE	-	f Vermicompost Enterprise Production of Vermicompost on low cost technology		-	5 No	05	
Sagar	2013	Kharif	WOE	Low income of farm woman	Income from raising of papaya nursery	Crop	Variety - Kurg Honeydew	Irrigated	1500 Seedling	10
Sagar	2013-14	Kharif	WOE	2	Kitchen gardening	Vegetable	Vegetable seed of improved variety	Irrigated	1250 q met	10
Sagar	2013-14	Kharif	WOE	load during	Use of wheel hoe for drudgery reduction	Soybean	Use of wheel hoe for weeding in Soybean	Rainfed	2.0	05

3.5 Economic Performance Home Science FLDs:

	Technology to											Performanc	e Indicator / Pa	aram	eter								
name	be Demonstrated	Out m2	tput 2/h	Expenditure beat/min reduct kj/min. in drudg		iction n	efficiency			Production per unit		st of put	-	mental ome	Yield(Kg/ha)		ield(Kg/ha) Net Return		Saving in Rs	BC ratio			
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2		
-	Vermicompost preparation											-	8.44	-	3520	-	4520	-	8.44	-	1000	1000	1.28
	Income from raising of papaya nursery													-	5070	-	14242	-	-	-	9172	9172	2.80
0	Kitchen gardening											164 g /person/day	233g/person/day										
U	Use of wheel hoe for drudgery reduction									Not c	onducte	d due to contir	nuous heavy rains										

KVK Name	Crop	Activity	No. of activities organized	Number of participants	Remarks
Sagar	Soyabean	Field days	01	34	
		Farmers Training	02	47	
		Media coverage	01	-	
		Training for extension functionaries	01	21	
Sagar	Blackgram	Field days	01	32	
		Farmers Training	02	19	
		Media coverage	01	-	
		Training for extension functionaries	01	21	
Sagar	Lentil	Field days	01	-	
		Farmers Training	02	-	
		Media coverage	01	-	
		Training for extension functionaries	01	-	
Sagar	Gram	Field days	01	34	
		Farmers Training	02	58	
		Media coverage	01	-	
		Training for extension functionaries	01	01	

3.6 Training and Extension activities proposed under FLD

3.7 Details of FLD on crop hybrids

S. No.	Name of the KVK	Name of the Crop	Name of the Hybrids	Source of Hybrid (Institute/Firm)	No. of farmers	Area in ha.
-	Sagar	-	-	-	-	-
-	Sagar	-	-	-	-	-
-	Sagar	-	-	-	-	-

4. Feedback System 4.1. Feedback of the Farmers to KVK

Name	Feedback												
of	Technology appropriations	Methodology used	Benefits of OFT/FLD	Future Adoption									
Sagar	Technology appreciated by famers	Improved variety of Soybean JS-93-05	Soybean variety perform well in all areas	Greater possibility of future adoption									
Sagar	Technology appreciated by famers	Improved variety of Blackgram PU-30 and YVM disease control	Significantly increased the seed yield as well as YVM resistant	Greater possibility of future adoption									
Sagar	Technology appreciated by famers	Improved variety of Grm JG-63	Significantly increased the seed yield as well as wilt resistant	Greater possibility of future adoption									
Sagar	Technology appreciated by famers	Assessment of Forate and Trizophos for management of girdle beetle in Soybean (Soil application of Phorate @15kg/ha + Spray of Trizophos @ 11it/ha)	Efficiently controlled the girdle beetle incidence and yield increased	Greater possibility of future adoption									
Sagar	Technology appreciated by famers	Assessment of ammonium molybdate @1gm /Kg of seed coating+ Basel application of Mo @1.0 Kg/ha with NPK 20:60:20 Kg/ha	Significantly increased the seed yield	Greater possibility of future adoption									
Sagar	Technology appreciated by famers	Ridge & furrow sowing method of soybean	Efficiently managed the water logging and resulted better yield	Greater possibility of future adoption									
Sagar	Technology appreciated by famers	Improved variety of Wheat JW 3211 for limited Irrigation	Significantly increased the seed yield	Greater possibility of future adoption									
Sagar	Technology appreciated by famers	Rhizome rot disease control by Copper Hydroxide	Significantly reduced the disease incidence and enhanced the yield	Greater possibility of future adoption									
Sagar	Technology appreciated by famers	Staking in Tomato	Significantly increased the fruit yield and better quality	Greater possibility of future adoption									
Sagar	Technology appreciated by famers	Demonstration of dewormer (Fenbendazole) to reduce worm load	Significantly increased the milk yield and reduced worm load	Greater possibility of future adoption									
Sagar	Technology appreciated by famers	Demonstration of mineral supplementation to enhance milk production	Significantly increased the milk yield	Greater possibility of future adoption									
Sagar	Technology appreciated by famers	Assessment of cleaners for drudgery reduction among farm women for Soybean	Significantly reduced drudgery and increased efficiency	Greater possibility of future adoption									
Sagar	Technology appreciated by famers	Demonstration on Income generation from raising of papaya nursery	Additional income generated Rs 9172/- from 1500 seedling	Greater possibility of future adoption									
Sagar	Technology appreciated by famers	Demonstration on Kitchen gardening	Per capita availability of vegetables significantly increased	Greater possibility of future adoption									

4.2. Feedback from KVK to Research System

Name of KVK	Feedback basis of OFT on Technology Tested
Sagar	Need to develop yellow mosaic resistant variety of black gram and leaf curl resistant variety of chilli

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
Sagar	F/FW	PRA	15.04.2013, Chitaura	28
Sagar	F/FW	PRA	17.04.2013, Chitaura	22
Sagar	F/FW	PRA	23.06.2013, Chainpura	23

Abbreviation Used

ADDI CVIALI	
FW	(A) Farmers & Farm Women
RY	(B) Rural Youths
IS	(C) Extension Personnel
ONC	On Campus Training Programme
OFC	Off Campus Training Programme
М	Male
F	Female
Т	Total
Thematic A	reas for Training
CRP	Crop Production
HOV	Horticulture – Vegetable Crops
HOF	Horticulture-Fruits
HOO	Horticulture- Ornamental Plants
HOP	Horticulture- Plantation crops
HOT	Horticulture- Tuber crops
HOS	Horticulture- Spices
HOM	Horticulture- Medicinal and Aromatic Plants
SFM	Soil Health and Fertility Management
LPM	Livestock Production and Management
WOE	Home Science/Women empowerment
AEG	Agril. Engineering
PLP	Plant Protection
FIS	Fisheries
PIS	Production of Inputs at site
CBD	Capacity Building and Group Dynamics
AGF	Agro-forestry
OTH	Others
RYH	Rural Youth
EXP	Extension Personnel

5. TRAINING PROGRAMMES

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

Name of	Cate-	Training	Thematic	Training Title	No. of	Duration				Parti	cipants			
KVK	gory	Туре	area		Courses	(Days)		Gen		SC		ST	Ot	hers
							Μ	F	Μ	F	Μ	F	Μ	F
1	2	3	4	5	7	8	9	10	11	12	13	14	15	16
SAGAR	F/FW	ONC	PLP	Safe storage of food grain	1	1	-	-	-	-	-	-	30	-
SAGAR	F/FW	OFC	PLP	Pest control in Summer Vegetables	1	1	8	-	4	-	-	-	6	-
SAGAR	F/FW	ONC	SFM	Seed treatment, soil treatment and its importance	1	1	26	-	-	-	-	-	-	-
SAGAR	F/FW	OFC	PLP	YVM disease control in Black gram /Soybean and in others crops	1	1	4	-	-	-	-	-	16	-
SAGAR	F/FW	OFC	PLP	Integrated pest management in Black gram	1	1	5	-	-	-	-	-	15	-
SAGAR	F/FW	OFC	PLP	Integrated pest management in Soybean	1	1	14	-	6	-	-	-	7	-
SAGAR	F/FW	OFC	PLP	Integrated pest management in vegetable crops	1	1	3	-	-	-	-	-	21	3
SAGAR	F/FW	OFC	PLP	Insect pest management in Pigeon pea	1	1	-	-	4	-	-	-	14	-
SAGAR	F/FW	OFC	PLP	Wilt control in Pulse crops	1	1	11	-	3	-	-	-	16	2
SAGAR	F/FW	OFC	СР	Production technology of Lentil	1	1	7	-	1	-	-	-	8	-
SAGAR	F/FW	OFC	СР	Production technology of gram	1	1	8	-	-	-	-	-	22	-
SAGAR	F/FW	OFC	PLP	Insect pest management	1	1	-	-	-	-	-	-	23	-

Table 5.1. Details of Training programmes conducted by the KVKs

Name of	Cate-	Training	Thematic	Training Title	No. of	Duration					cipants			
KVK	gory	Туре	area		Courses	(Days)		Gen		SC		ST		hers
							Μ	F	Μ	F	Μ	F	Μ	F
1	2	3	4	5	7	8	9	10	11	12	13	14	15	16
				in gram and other rabi crops										
SAGAR	F/FW	OFC	PLP	Integrated pest management in rabi vegetable crops	1	1	-	-	-	-	-	-	28	-
SAGAR	F/FW	OFC	PLP	Disease management in potato/coriander	1	1	-	-	-	-	-	-	25	-
SAGAR	F/FW	OFC	WOE	Methods to improve nutritional value of foods	1	2	-	11	-	2	-	-	-	27
SAGAR	F/FW	OFC	WOE	Reduction of nutrient losses during cooking of food	1	1	-	19	-	2	-	-	-	-
SAGAR	F/FW	OFC	WOE	Nursery management in vegetables	1	1	-	2	-	-	-	-	-	19
SAGAR	F/FW	OFC	PIS	Vermi-compost production	1	1	8	-	-	-	-	-	9	-
SAGAR	F/FW	OFC	WOE	Farm women drudgery reduction through improved implements	1	1	-	-	-	1	-	-	-	20
SAGAR	F/FW	OFC	WOE	Income generation through flower cultivation	1	1	-	1	-	-	-	-	-	21
SAGAR	F/FW	OFC	WOE	Safe storage of food grains	1	1	-	-	4	-	-	-	16	-
SAGAR	F/FW	OFC	WOE	Nutritional gardening	1	1	-	-	-	2	-	-	-	15
SAGAR	F/FW	OFC	WOE	Value added products of locally available seasonal fruits and vegetables	1	1	-	-	-	-	-	-	-	21
SAGAR	F/FW	OFC	WOE	Malnutrition and its management	1	1	-	5	-	-	-	-	-	16
SAGAR	F/FW	OFC	OTH	Seed Drying, Cleaning & grading of rabi crops	1	1	2	-	1	-	-	-	19	1
SAGAR	F/FW	OFC	SFM	Importance of Soil testing & soil sampling method	1	1	-	-	2	-	-	-	30	-

Name of	Cate-	Training	Thematic	Training Title	No. of	Duration					cipants			
KVK	gory	Туре	area		Courses	(Days)		Gen		SC		ST		hers
							Μ	F	Μ	F	Μ	F	Μ	F
1	2	3	4	5	7	8	9	10	11	12	13	14	15	16
SAGAR	F/FW	OFC	AEG	Ridge & furrow sowing method of soybean & its importance	1	1	-	-	-	1	-	-	18	1
SAGAR	F/FW	OFC	ОТН	Importance of Seeds & deferent method of germination test	1	1	3	-	1	-	-	-	18	-
SAGAR	F/FW	OFC	OTH	Seed production technique of soybean	1	1	-	-	1	-	-	-	26	-
SAGAR	F/FW	OFC	OTH	Seed production technique of Urd.	1	1	3	-	-	-	-	-	23	4
SAGAR	F/FW	OFC	СР	Fertilizer management in Urd & Soybean	1	1	1	-	-	-	-	-	21	-
SAGAR	F/FW	OFC	СР	Weed management in Kharif Crops .	1	1	3	-	-	-	-	-	14	-
SAGAR	F/FW	OFC	ОТН	Importance of rouging for pure seed production in Soybean.	1	1	-	-	7	-	-	-	31	-
SAGAR	F/FW	OFC	OTH	Planning for Rabi Seed Production	1	1	-	-	-	-	-	-	18	1
SAGAR	F/FW	OFC	СР	Production technology of gram	1	1	-	-	-	-	-	-	23	-
SAGAR	F/FW	OFC	CRP	Production technology of Lentil	1	1	-	-	2	-	-	-	18	-
SAGAR	F/FW	OFC	CRP	Production technology of Wheat	1	1	-	-	4	-	-	-	14	-
SAGAR	F/FW	OFC	CRP	Weed management in Wheat	1	1	2	-	-	-	-	-	19	-
SAGAR	F/FW	OFC	ОТН	Rouging techniques in Wheat	1	1	9	2	2	-	2	-	8	-
SAGAR	F/FW	OFC	HOV	Storage techniques of onion garlic	1	1	-	-	4	-	-	-	36	-
SAGAR	F/FW	OFC	HOV	Production technique of Parthenocarpic Cucumber .	1	1	-	-	4	-	-	-	28	-
SAGAR	F/FW	OFC	HOV	Production technique of	1	1	20	-	3	-	-	-	6	1

Name of	Cate-	Training	Thematic	Training Title	No. of	Duration					cipants			
KVK	gory	Туре	area		Courses	(Days)		Gen		SC		ST		hers
							Μ	F	Μ	F	Μ	F	Μ	F
1	2	3	4	5	7	8	9	10	11	12	13	14	15	16
				HY Brinjal for achieving Higher yield & more income										
SAGAR	F/FW	OFC	HOV	Production technique of Cowpea.	1	1	1	-	3	-	-	-	23	-
SAGAR	F/FW	OFC	HOV	How to get more income from Capsicum	1	1	7	-	3	-	-	-	14	-
SAGAR	F/FW	OFC	HOV	Fertilizer management in hybrid tomato	1	1	1	-	4	-	-	-	12	-
SAGAR	F/FW	OFC	HOV	Integrated Weed Management in onion Crop	1	1	-	-	-	-	-	-	30	-
SAGAR	F/FW	OFC	HOV	Foliar application of soluble fertilizer in important vegetable	1	1	-	-	2	-	-	-	24	-
SAGAR	F/FW	ONC	HOV	Production technique of Cucurbitaceous Vegetable	1	1	-	-	-	-	-	-	22	-
SAGAR	F/FW	OFC	HOF	Production technique of Papaya	1	1	-	-	2	-	-	-	33	-
SAGAR	F/FW	OFC	HOF	Training on Pruning in Fruit Plants	1	1	-	-	2	-	-	-	11	2
SAGAR	F/FW	OFC	LPM	Care Management of Farm Animals in Rainy Season	1	1	14	-	-	-	-	-	8	-
SAGAR	F/FW	OFC	LPM	Care of Newly born calves	1	1	25	-	-	-	-	-	-	
SAGAR	F/FW	OFC	LPM	Cattle breed in India, their Management & reproduction	1	1	-	-	-	-	-	-	23	-
SAGAR	F/FW	OFC	LPM	Milking of cow & its Care	1	1	-	-	-	-	-	-	9	10
SAGAR	F/FW	OFC	LPM	Computation of Ration for Cattle & buffalo	1	1	2	-	1	-	-	-	14	3
SAGAR	F/FW	OFC	LPM	Raising the Dairy Calf & management of cross	1	1	-	-	4	-	-	-	11	-

Name of	Cate-	Training	Thematic	Training Title	No. of	Duration					cipants			
KVK	gory	Туре	area		Courses	(Days)		Gen		SC		ST		hers
							Μ	F	Μ	F	Μ	F	Μ	F
1	2	3	4	5	7	8	9	10	11	12	13	14	15	16
				breed cow										
SAGAR	F/FW	OFC	LPM	Breed of Indian goats & care of Kids roline operation & their feeding habits	1	1	-	-	-	-	-	-	14	-
SAGAR	F/FW	OFC	LPM	Breed of Poultry their nutrition method of feeding and housing system of poultry.	1	1	-	-	-	-	1	-	38	-
SAGAR	F/FW	OFC	LPM	Care & management of pre & post parturient animals.	1	1	-	-	1	-	-	-	21	-
SAGAR	F/FW	ONC	LPM	Care of dairy Animals during winter season	1	1	1	-	13-	-	-	-	10	-
SAGAR	F/FW	ONC	LPM	Techniques of feeding Animal during scarcity period hay & silage making	1	1	1	-	2	-	-	-	15	-
SAGAR	F/FW	ONC	SFM	Nutrient management in gram & wheat	1	1	-	-	-	-	-	-	21	2
SAGAR	F/FW	OFC	SFM	Nutrient Deficiencies symptoms in wheat & its management	1	1	7	-	-	-	-	-	10	3
SAGAR	F/FW	OFC	SFM	Nutrient Deficiencies symptoms in chickpea and its management	1	1	2	-	2	-	-	-	21	-
SAGAR	F/FW	OFC	SFM	Nutrient management in rabi crops	1	1	9	-	-	-	-	-	16	
SAGAR	F/FW	OFC	SFM	Fertilizer management in Wheat	1	1	2	-	-	-	-	-	23	-
SAGAR	IS	ONC	LPM	Identification & Control management measures through vaccination against bacterial and Viral Diseases of Cattles	1	1	19	-	3	-	-	-	5	-

Name of	Cate-	Training	Thematic	Training Title	No. of	Duration				Partic	cipants			
KVK	gory	Туре	area		Courses	(Days)	(Gen		SC		ST	Ot	hers
							Μ	F	Μ	F	Μ	F	Μ	F
1	2	3	4	5	7	8	9	10	11	12	13	14	15	16
SAGAR	IS	ONC	HOV	Vegetable in poly house	1	1	6	-	2	-	-	-	9	-
SAGAR	IS	ONC	HOF	Plantation technique of mango and guava	1	1	11	-	1	-	-	-	10	-
SAGAR	IS	ONC	СР	Cultivation practices of Kharif field Crops	1	1	21	-	1	-	-	-	1	-
SAGAR	IS	ONC	WOE	Diet management for various age groups	1	1	-	12	-	-	-	-	-	7
SAGAR	IS	ONC	СР	Production technology of Black gram	1	1	15	-	3	-	-	-	2	-
SAGAR	IS	ONC	PLP	IPM in Kharif crops	1	1	12	-	2	-	-	-	7	-
SAGAR	IS	ONC	PLP	IPM in rabi crops	1	1	13	-	2	-	-	-	2	-
SAGAR	IS	ONC	PLP	IPM in vegetable crops	1	1	10	-	2	-	1	-	7	-

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

				Duration	Num	ber of Be	enefic	iaries	-			
Name of KVK	Training title	Crop / Enterprise	Identified Thrust Area	of training	Gen		SC		ST		Other	:s
				(days)	Μ	F	Μ	F	Μ	F	Μ	F
Sagar	Methods of urea treatment & its importance for animals.	Enterprise	LPM	1	-	-	2	-	-	-	24	-
Sagar	Nursery management of Cole Crops with improved Cultivation of Late Cauliflower	Crop	HOV	5	-	-	-	-	-	-	26	
Sagar	Seed production technique. (VTP)	Crop	ОТН	30	6	-	-	-	-	-	6	24
Sagar	Vermicompost production technology	Enterprise	SFM	2	-	-	-	-	-	-	15	5
Sagar	Income generation through craft making	Enterprise	WOE	5	-	-	-	3	-	-	-	9
Sagar	Preservation of fruits and vegetables (VTP)	Enterprise	WOE	40		1	-	-	-	2	15	2
Sagar	Dyeing and printing of fabrics	Enterprise	WOE	5	-	-	-	2	-	2	-	16
Sagar	Oyster mushroom production technology	Enterprise	PLP	2	-	-	4	-	-	-	21	-
Sagar	Maintenance of plant protection equipments	Enterprise	PLP	2	-	-	1	-	-	-	22	-
Sagar	Disease management in dairy animals and Vaccination	Enterprise	LPM	-	-	1	2	1	-	-	19	9

Name of	Training title		Self employed after training		Number of
KVK		Type of units	Number of units	Number of persons employed	persons employed else where
Sagar	-	-	-	-	-

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

Table 5.4. Sponsored Training Programmes

			Sub-				No.	of F	Partic	cipan	ts					Fund
Name of KVK	Title	Thematic area (as given in abbreviation	theme (as per column no	Client (FW/ RY/	Dura- tion (days)	No. of courses	Ge	en	Oth	ners	S	SC	ST		Sponsoring Agency	received for training (Rs.)
K V K		table)	5 of Table T1)	IS)	(uays)		М	F	Μ	F	М	F	М	F		
Sagar	MPWSRP	WRD	-	FW	03	03	-	-	24	-	4	-	132	-	JNKVV	152243.00
Sagar	Seed production	СР	-	FW	30	01	5	-	25	-	-	-	-	-	M.P.Govt	147750.00
Sagar	Fruit & vegetable Preservation	HOV	-	FW	40	01	2	2	12	2	-	-	-	2	M.P.Govt	178250.00

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

		Thematic area	Sub-theme	Client			No.	of I	Parti	cipan	ts					Fund
Name of KVK	Title	(as given in abbreviation table)	(as per column no 5 of Table	(FW/ RY/ IS)	Dura- tion (days)	No. of courses	Ge	en	Otl	ners	5	SC	s	T	Sponsoring Agency	received for training (Rs.)
		(abic)	T1)	15)			Μ	F	Μ	F	Μ	F	Μ	F		
Sagar	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sagar	-	-	-	-	-	-	-	I	-	-	-	-	-	-	-	-

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 Pro (q/ha)	duction	Change in I	ncome (Rs)	Impact on 1. Area expanded (ha) 2. No. of farmers adopted (no.)
			Before	After	Before	After	Before	After	3. % change in knowledge, production & Income
Sagar	-	-	-	-	-	-	-	-	-
Sagar	-	-	-	-	-	-	-	-	-

Name of the KVK					of Partic						Remarks	
	Activity	No. of activities	No. of activities	Farmer (Others		SC/ST (I	Farmers)	Exter Offici			. •	G
		(Targeted)	(Achieved)	M) F	Μ	F	M	F	Purpose	Topic s	Crop Stages
Sagar	Field Day	6	3	94	-	13	-	-	-	Disceminatio n of technology	Soybean/chic kpea	Maturity
Sagar	Kisan Mela	1	3	<mark>519</mark>	•	4	•	12	<mark>3</mark>	Disceminatio n of technology	Soybean/chic kpea	Maturity
Sagar	Kisan Ghosthi	8	4	<mark>143</mark>	-	2	-	-	-	Disceminatio n of technology	Soybean/chic kpea	Maturity
Sagar	Exhibition	2			-	-	-	-	-	Disceminatio n of technology	Soybean/chic kpea	Maturity
Sagar	Film Show	20	13	<mark>552</mark>	-	-	-	-	-	Disceminatio n of technology	-	-
Sagar	Method Demonstrations	3			-	-	-	-	-	-	-	-
Sagar	Farmers Seminar	2			-	-	-	-	-	-	-	-
Sagar	Workshop	2	1	<mark>77</mark>	<mark>23</mark>	-	-	-	-	-	-	-
Sagar	Group meetings	5			-	-	-	-	-	-	-	-
Sagar	Lectures delivered as resource persons	20	26	<mark>1016</mark>	-	-	-	-	-	-	Agriculture & allied subjects	All Stage
Sagar	Newspaper coverage	10	11	Mass	-	-	-	-	-	Disceminatio n of technology	-	All Stage
Sagar	Radio talks	10	32	Mass	-	-	-	-	-	Disceminatio n of technology	-	All Stage
Sagar	TV talks	5	4	Mass	-	-	-	-	-	Disceminatio n of technology	-	All Stage
Sagar	Popular articles	10	7	Mass	-	-	-	-	-	Disceminatio n of technology	-	All Stage
Sagar	Extension Literature	5	2	Mass	-	-	H	-	-	Disceminatio n of technology	-	All Stage
Sagar	Farm advisory Services	2			-	-	-	-	-	Disceminatio n of technology	-	All Stage
Sagar	Scientific visit to farmers field	40	54	<mark>952</mark>	-	-	-	-	-	Observatio n	-	Various stage
Sagar	Farmers visit to KVK	30	45	<mark>1068</mark>	-	-	-	-	-	Exposure	-	Various stage
Sagar	Diagnostic visits	2	5	<mark>188</mark>	-	-	-	-	-	Problem analysis	-	Various stage
Sagar	Exposure visits	1	16	<mark>384</mark>	<mark>64</mark>	-	-	-	-	-	-	-

6. EXTENSION ACTIVITIES

Name of the KVK				Detail	of Partic	ripants					Remarks	
	Activity	No. of activities (Targeted)	No. of activities (Achieved)	Farmer (Others		SC/ST (F	armers)	Exten Offici		Purpose	Topic s	Сгор
		(Targettu)	(Acineveu)	Μ	F	М	F	Μ	F	- î	-	Stages
Sagar	Ex-trainees Sammelan	2	-	-	-	-	-	-	-	-	-	-
Sagar	Soil health Camp	2	1	<mark>56</mark>	-	<mark>15</mark>	-	<mark>4</mark>	-	Soil health	-	-
Sagar	Animal Health Camp	2	2	<mark>55</mark>		7	-	-	-	Animal treatment	-	-
Sagar	Agri mobile clinic	-	-	-	-	-	-	-	-	-	-	-
Sagar	Soil test campaigns	-	-	-	-	-	-	-	-	-	-	-
Sagar	Farm Science Club conveners meet	2	-	-	-	-	-	-	-	-	-	-
Sagar	Self Help Group conveners meetings	2	-	-	-	-	-	-	-	-	-	-
Sagar	Mahila Mandals conveners meetings	-	-	-	-	-	-	-	-	-	-	-
Sagar	Celebration of important days (World environment day)	3	2	199	93	-	-	-	-	Awareness	-	-
Sagar	Farmers groupmeeting	-	1	25	-	-	-	-	-	-	-	-
Sagar	Interface with farmer/ Scientist	-	2	57	-	-	-	-	-	-	-	Flowering &maturity

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
Sagar	April to June	Quarterly	500	475
Sagar	July to September	Quarterly	500	490
Sagar	October to December	Quarterly	500	470
Sagar	January to March	Quarterly	500	490

Literature developed/published

KVK Name	Туре		Author's name	Number of copies
		Title		
Sagar		Soil quality monitoring of the barren sodic farmer's fields after reclamation in the alluvial plains of eastern Uttar Pradesh, India. <i>Asian J. Soil Sci.</i> 8(1):56-60	Singh, A.K. and Singh, A. N. (2013)	Mass
Sagar	Research paper		Singh, A. K., Singh, S.R.K. and Tomar, A. K. (2013)	Mass
Sagar	Research paper	Current status of web blight of mung bean. <i>Asian J. Soil Sci.</i> 8(2):495-504	Jai Singh, Mishra, K.K. and Singh, A. K. (2013)	Mass

Sagar	Research paper	Yield gap analysis of gram through front line demonstration. <i>Asian J.</i> <i>Soil Sci.</i> 8(2):518-519	Jai Singh, Gautam, U. S., Singh, A. K. and Baghel, M.S. (2013)	Mass
Sagar	Research paper	Assessment of applicability and efficacy of post emergence herbicides through various nozzle system in wheat (<i>TRITICUM AESTIVUM</i> L.). <i>International J. Current Research</i> 6(03):5619-5622	Singh, A. K., Gautam, U.S, Shrivastava,,P, Jai Singh, and Tomar , A.K. (2014)	Mass
bagar	Research paper	Adoption level and constraints of soybean production technology in Sagar district of Madhya Pradesh. J. Community Mobilization and Sustainable Development 8(11):94-99	Singh, Mamta, Dwivedi, A. P., Mishra, A., Singh, R.P., Singh, D., Singh, S.R.K. and Prem Chand (2013)	Mass
bagar	Research paper	Integrated crop management for enhancing sustainable production in soybean. <i>Bioved</i> 24(2):151-156	Singh, Mamta, Dwivedi, A.P., and Yadav, K.S. (2013)	Mass
agar	Research paper	Performance and adoption of sesame production technology in Bundelkhand region of M.P. Indian J. Ext. Edu. 48(2):	Tripathi, A.K. (2012)	Mass
agar	Research paper presented in seminar/symposia	Protected Vegetable Production in Sub-tropic. <i>In: Proceedings</i> In International conference on Energy Environment and Life science for sustainable future and national science day celebration Feb 28-1 March , 2014, Sagar	Yadav, K. S. (2014)	Mass
agar	Research paper presented in seminar/symposia	Organic Agriculture: An Environment friendly Ecological Production System. In: Proceedings National Seminar on Role of Green Technology in Agriculture, Horticulture and Forestry, Feb. 26-27, Sagar. pp. 35	Singh, A. K., Jai Singh, Tripathi, A.K. and Shrivastava,,M.K. (2014)	Mass
agar	Research paper presented in seminar/symposia	Impact of integrated nutrient management on lowland rice production in Kymore plateau and Satpura hills zone of Madhya Pradesh. <i>In:</i> <i>Proceedings National Seminar on Role of Green Technology in</i> <i>Agriculture, Horticulture and Forestry</i> , Feb. 26-27, <i>Sagar.</i> pp. 40-41	Singh, A. K., Gautam, U.S, and Jai Singh (2014)	Mass
bagar (Research paper presented in seminar/symposia	Bio control and IPM practices for pulse crops in Bundelkhand Region. In: Proceedings National Seminar on Role of Green Technology in Agriculture, Horticulture and Forestry, Feb. 26-27, Sagar. pp. 13	Tripathi, A.K., Singh, A. K and Yadav, K. S (2014)	Mass
agar	Research paper presented in seminar/symposia	Increasing pulses production for food, nutritional and livelihood security of rural people through frontier technology. In I st U.P. Agricultural science congress 17 to 19 Aug 2013, NDUAT, Faizabad.	Singh Mamta, Yadav K.S., Dwivedi A.P. and Mishra P.K.	Mass

Sagar	Research paper presented in seminar/symposia	Gaps in pulse production in Sagar district of Vindhya pleatue Agro climatic zone of M.P.: An assessment through frontier technology. In International conference on Ext. Edu. Strategies for sustainable agricultural development- A Global Perspective, Dec 5-8 -2013, Bangalore.	Singh Mamta, Yadav K.S., Dwivedi A.P, Singh Vinita and Tripathi A.K. (2013)	Mass
Sagar	Research paper presented in seminar/symposia	Role of improved varieties of pulses for attaining nutritional security in household. In International conference on Energy Environment and Life science for sustainable future and national science day celebration Feb 28-1 March , 2014, Sagar	Singh Mamta and Pachauri Vivekin (2014)	Mass
Sagar	Research paper presented in seminar/symposia	Effect of complete feed sani on Milk Production in bufflaoes. <i>In:</i> <i>Proceedings</i> In International conference on Energy Environment and Life science for sustainable future and national science day celebration Feb 28-1 March , 2014, Sagar	Pachauri Vivekin (2014)	Mass
Sagar	Research paper presented in seminar/symposia	Moringa oleifera- A potential food for micro nutrient security. <i>In:</i> <i>Proceedings</i> In International conference on Energy Environment and Life science for sustainable future and national science day celebration Feb 28-1 March , 2014, Sagar	Singh Vinita (2014)	Mass
Sagar	Popular article	Kharif Me Khra Soybean . Krishak Jagat , 22-28 July 2013, pp. 7	Yadav,. K S., and Tripathi, A.K., (2014)	Mass
Sagar	Popular article	Improved cultivation of Soyabean . KHETI, ICAR. Feb 2014. pp. 24-28.	Tripathi, A.K., Yadav, K.S., Singh, Vineeta (2014)	Mass
Sagar	Popular article	Rainfed sesame. Krishak Jagat, 22-28 July 2013, pp. 14	Tripathi , A.K. (2013)	Mass
Sagar	Popular article	Insect and disease control in vegetables. Krishak Jagat, 17-23 March, 2014, pp. 7	Tripathi , A.K. (2014)	Mass
Sagar	Popular article	Insect of Soybean and thin control Krishak Jagat, 19-25 August 2013, pp. 10	Tripathi , A.K. (2013)	Mass
Sagar	Popular article	Plant Diseases of National importance. Krishak Jagat, 26 Aug- 1 Sept 2013. pp. 5	Tripathi , A.K. (2013)	Mass
Sagar	Popular article	Lentil cultivation in Rainted area. Krishak Jagat (Rabi Visheshank) 14-20 Oct. 2013, pp. 20	Tripathi , A.K. (2013)	Mass
Sagar	Popular article	Saheje ghar ki bagia. Krishak Jagat, 24 Feb-02March, 2014, pp. 06	Singh, Vinita (2014)	Mass
Sagar	Popular article	Kharif me urd ki Kheti. Krishak Jagat, 22-28 July 2013, pp. 17	Singh, Vinita (2014)	Mass

Sagar	Popular article	jch Qlyksa es chtksipkjA d`"kd psruk] flrEcj &vDVwcj 2013] i`-% 5&6	t; flag] ,-ds-flag ,oa /kUakt; flag 1⁄₄20131⁄₂	Mass
Sagar	Popular article	xsagwW dh mUur mRiknu rduhdA d`"kd psruk] flrEcj &vDVwcj	t; flag] ,-ds-flag ,oa /kUakt; flag	Mass
Sagar	Popular article	nygu cpk;sa &ykHk dek;saA d`"kd psruk] uoEcj &fnIEcj 2013] i`-	t; flag] ,-ds-flag ,oa /kUakt; flag	Mass
Sagar	Popular article	xsgwqa esa dhV ,oa jksx mUur izcU/ku rduhdhA d`"kd psruk] tuojh &Qjojh 2014] i`- 7&9	t; flag] ,-ds-flag ,oa vf[kys'k dqekj pkScs ¼2014½	Mass
Sagar	Popular article	xksHkh oxhZ; lfCt;ks esa jksx izczU/kuA d`"kd psruk] tuojh &Qjojh 2014] i`- 40 ,oa 43	t; flag] ,-ds-flag ,oa vf[kys'k dqekj pkScs ¼2014½	Mass
Sagar	Popular article		eerk flg]W- ds-,l-;kno] ,-ds-f=ikBh ¼2013½	Mass
Sagar	Popular article	de ykxr esa ewax d`"kd txr Qjojh 2014 i`-5	eerk flg] ,oa fouhrk flag 1/420141/2	Mass
Sagar	Popular article	fryguh Qlyksa dh chtksRiknu rduhd] fodkl lanHkZ lkfgR; ekpZ 2014	fnus'k flag] eerk flag ,oa LdU/k dgekj flag ¼2014½	Mass
Sagar	Popular article	i'kqvksa dh fofHkUu ladzked chekfj;ka ,oa muds mipkj 30 tqykbZ & 5 vxLr] 2013 d`"kd nwr	foosfdu ipkSjh ¼2013½	Mass
Sagar	Bulletin	Seed Production	Tripathi, A.K., Singh, Mamta Ed- K.S. Yadav (2013)	500
Sagar	Folder	Kitchen gardning	K.S.yadav, Vinita Singh and A.K.Tripathi	1000
Sagar	Folder	Soyabean	Tripathi, A.K. and Yadav, K.S. (2013)	1000
Sagar	Folder	Fruit cultivation	Yadav, K.S. and Tripathi, A.K. (2013)	1000
Sagar	Folder	Wilt of Pulses and its management	Tripathi, A.K. and Yadav, K.S. (2014)	1000
Sagar	Pampllets	Onion Cultivation	Yadav, K.S. and Mamta Singh (2014)	1000
Sagar	Pampllets	Garlic Cultivation	Yadav, K.S. and A.K. Singh (2014)	1000

7.3 Details of Electronic Media Produced

KVK Name	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
Sagar	C.D.	Onion cultivation	01

8. Production and supply of Technological products

8.1 SEED production

KVK Name	Major group/class	Сгор	Variety	Quantity (qt.)	Value (Rs.)	Provided to No. of Farmers	Expected area coverage (ha.)
Sagar	Oilseed	Soybean	JS 335	7.30	51100		
Sagar	Cereals	Wheat	JW 3211	Awaited			
Sagar	Pulses	Gram	JG 63	Awaited			

8.2 Planting Material production

KVK Name	Major group/class	Сгор	Variety	iety Nos.		Provided to No. of Farmers	Expected area coverage (ha.)
Sagar	Vegetables	Tomato	Laxmi	17700	4425	52	3.0
Sagar		Brinjal	Gaueav	13500	3375	38	1.5
Sagar		Chilli	VNR 109	12600	3150	32	1.5
Sagar		Cauliflower	P. snowal	P. snowal 4250		17	0.5
Sagar		Cabbage	BC 79	4250	1062	17	0.5
Sagar	Fruit Plants	Papaya	Kurg Honeydew	777	7770	52	2.0
Sagar		Lime	Kagji	108	2160	22	0.5
Sagar		Guava	A. Safeda	78	1560	24	0.5
Sagar		Mango	Amrapali	Amrapali 68		22	0.5
Sagar		Aonla	N-7	150	3750	18	1.0

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

KVK Name	Major Group Bio agent/Bio fertilizers/Bio Pesticides	Name of the Product	Qty (In Kg)	Qty (In No)	Value (Rs.)	Provided to No. of Farmers	Expected area coverage (ha.)
Sagar	Bio Agents		Nil				
Sagar	Bio Agents		Nil				
Sagar	Bio Fertilizer	PSB	25			50	
Sagar	Bio Fertilizer	Rhizobium	25			25	

8.4 Livestock and fisheries production

KVK Name	Name of the animal / bird / aquatics	Breed	Type of Produce	Qty. (kg/qt./litre)	Value (Rs.)	No. of Beneficiaries
Sagar			Nil			
Sagar			Nil			

9. Activities of Soil and Water Testing Laboratory

9.1 Details of soil samples analyzed so far:

KVK Name	Status of establishment of Lab	Year of establishment	Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized	Soil report distributed to the farmers (Nos)	
Sagar	Working	`2005	pH, EC, OC, N	55	43	06	-	-	

• Laboratory started in 2nd fortnight of January 2014, analysis done in limited resources i.e. chemicals, light etc.

9.2 Details of water samples analyzed so far :

KVK Name	Status of establishment of Lab	Year of establishment	Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized	Water report distributed to the farmers (Nos)
Sagar	Working	`2005	-	-	-	-	-	-

10. Rainwater Harvesting-Under contruction

pro	gi annies ce	muutiti	i by using Rainwater fiarve	sung D	vinonsu	anon	Unit						
Name of KVK	Date	e	Title of the training course		Clie	ent	No. of	No. of Participants		ants	No. of SC/ST Participa		ipants
					(PF/RY	Y/EF)	Courses	including SC/ST		/ST			
						Male	Female	Total	Male	Female	Total		
Sagar	-		-		-		-	-	-	-		-	-
11. Utiliza	11. Utilization of Farmers Hostel facilities												
KVK Name	Months	Year	Title of the training course	Durat trainii		No. of stayed	o. of trainees ayed		ee days stayed)	Reasor fall (if	ı for short any)	Accommo available beds)	
Sagar			Under construction										

Training programmes conducted by using Rainwater Harvesting Demonstration Unit

12. Utilization of Staff Quarters facilities

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

13. Details of SAC Meeting

KVK Name	Date of SAC meeting	No. of SAC members attended	Major recommendations
Sagar	9/7/2013	26	 Award should be given to innovative farmer of KVK. Training to farmers on climate change be organized.
Sagar	27/12/2013	27	 Long duration trainings on stitching, embroidery making etc. should be organized. Disease control in chilli through soil application of <i>Trichoderma viride</i> and intercropping with marigold. Improved veterinary technologies should be introduced through OFTs/FLDs

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

KVK Name	No. of messages	No. of	beneficiary	Sponsoring agency (NIC, Farmers Portal, etc.)	Major recommendations
Ivame	sent	Farmers	Ext. Pers.	rarmers rortal, etc.)	
Sagar	32	5047	15	C-DAC	Scientific advisory of agriculture, horticulture, livestock management, woman in agriculture etc.
Sagar	08	25856	-	Farmer Portal	Scientific advisory of agriculture, horticulture, livestock management, woman in agriculture etc.

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
Sagar	ATMA	-	-	Farmer Trainings, Interface, Field visits	Sagar	

16. Status of Revolving Funds (Rs.)

KVK Name	Account No.	Opening balance (Rs.)	Closing balance (Rs.)	Current status (Rs.)
Sagar	30213918437	103075	134900	134900

17. Awards & Recognitions

KVK Name	e		Name of a	award /awardee	Type of award (Ind./Group/Inst./Farmer)	Awarding Organizations	Amount received
Sagar				r presentation Institutional Zonal Workshop		ZPD, Zone-7, ICAR, Jblpur	Only Certificate
18. Deta	ails of	KVK Agro-	technol	ogical Park .			
a) Have	you	prepared lay	out plar	n, where sent?			
S .No.		ne of KVK		ogy park propos	sal developed(yes/no)	If yes, where sent ? (ZPD/DES	/any other, pl. sp.)
	Saga		No			Yes	
,		out Technolo	01				
Name of k	KVK	Name of Comj Park	ponent of	Detail Informati	on (If established)		
Sagar		Crop Cafeteria		Kharif (2013)			
				Greengram- PDI	M-139,JM-721, Pusa Vishal, HU	JM-1, Samrat, TJM-3, K-851, TM- 99-	3
				Black gram- JU	J-3, Azad, JU-86, IPU-94-1, PU-	-35,PU-30, PU-31, T-9	
				Soyabean- JS-	95-60, JS-97-52, JS-335, JS-93-	05, VS-10, NRC- 37, NRC-12, NRC-7	, MAUS-47.
				Rabi (2013-14)			
				Wheat- Sujata, J	WS-17, HI-1600, HW-2004, C-3	306, JW-3173, JW-3020, JW-3211, GV	W 322, HI-1544, HI-1531
				Barley- JB-58,	JW-1		
				Linseed - T-397,	JLS-9, JLS-27, Padmani, JLS-6	57, JLS-66	
				Lentil - JL-1, JL-	3, DPL-62, PL-5		
				Chickpea - JG-14	, JG-16, JG-63, JG-130, JG-6, J	GG-1, JAKI-9218, JG-11, JG-12, Vija	y, JKG-1, RG-807
				Mustard - NDR-	8501, NDYS- 2018		
		Vegetable Crop)	Pea- AP-1, GS-1	0, AP-3, PB-89, Pua Prgti, PSM	-3	
		Cafetaria		Spinch- Pus hrit,	All green, Pusa bhrti,, Benergy	gentle	
				Raddish- Pusa hi	mni, Jpanese white, Pusa chetki		

		Carrot- Pusa ruchira, Erly nentus
		Brinjal- Pusa uttam, Pusa bindas, BE 706, KS 33, Pusa sadabahar, JB 64
		Fenugreek- Pusa early bunchy, RMT-1, Pusa kasoori
K	Kitchen Garden	Corinder- Simpo, Fenugreek- PEB, Spinach- All green, Rdish- Pusa chetki, Carrot- Early nentus, Turnip- local,
		Tomato- Lxmi, Brinjl- Utkal, Beet root- Ruby queen, Chilli-Pus jwala, Cauliflower- Pusa snowall, Cabbage- BC 79
Те	echnology Exhibition	Off season vegetable cultivation in poly house

c). Crop Cafeteria-

Sr. No.	Theme of Crop Cafeteria	No. of Crop Cafeteria
1	Varietal performance of Kharif and Rabi crops	02
2	Varietal performance of Horticultural crops in Rabi Season	01
3	Kitchen garden for round the year availability of Vegetables	02

19. Farm Innovators- list of 10 Farm Innovators from the District

Sr. No.	Name of KVK	Name of Farm Innovator	Name of the Innovation	Address of the farmer with Mobile No.
1	Sagar	Saligram	Various Horticulture Crops	Semrabag Block- Sagar Mob- 9300277994
2	Sagar	Shobharam/ Babulal patel	Tamato, Chilli, Onion, Capsicum	Mankyai Block- Jaisinagar Mob- 9993306612
3	Sagar	Smt. Nirmal Sharma/ Yogesh Sharma	Vegetable Cultivation in polihouse	Vill- BErkhedi toda mob- 9425464102
4	Sagar	Tejram	Tamato, Chilli, Onion, Capsicum	Vill- Chitora Block Sagar Mob- 7869589621
5	Sagar	Makhan singh	Soyabean, Wheat/Gram	Vill- Chitora Block Sagar Mob-9179402907
6	Sagar	Tulsiram	Integrated Farming	Vill- Guarjhamar Block Surkhi Mob- 9993164533
7	Sagar	Indraj Kurmi	Soyabean, Wheat/Gram	Vill- Sema dhana sagar mob- 8435447409
8	Sagar	Ganesh Singh	Soyabean, Wheat/Gram	Vill- chainpura Block Jaisinagar -9009641265
9	Sagar	Mahesh Parasher	Integrated farming	Vill- Pithoriya Block Malthon 9755817885
10	Sagar	Mangal singh Thakur	Soyabean, Wheat/Gram	Vill - Sagoniguru Jaisinagar 9754325575

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.	25.04.2013	75

21. Outreach of KVK

Name of KVK	Number	Number of Villages		
Name of KVK	Intensive	Extensive	Intensive	Extensive
Sagar	3	8	7	82

Intensive- OFTS, FLDS etc

Extensive- Literatures, Publications, Awareness programmes etc.

22. Technology Demonstration under Tribal Sub Plan on Pulses/ Programme on Harnessing Pulses/ Quality Protein Maize- Not applicable.

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

23. KVK Ring

Sr. No.	Name of Ring Partner	Sharing Activity	Lessons learnt/ Experiences gained.
1.	Damoh, Raisen, Tikamgarh	Seed, Training etc.	-

24. Important visitors to KVK

Name of KVK	Name of Visitor	Date of Visit	ICAR	SAUs	Others	Remarks
Sagar	Dr. V.S.Tomar, Hon.Vice.Chancellor, JNKVV, Jabalpur	18.5.2013		\checkmark		
Sagar	Dr.N.K.Seth, Jt. Director Extension, JNKVV, Jabalpur	9.7.2013		✓		
Sagar	Japanese Team, JICA Project	10.8.2013			✓	
Sagar	Dr.Mathura Rai, Chairman, Horticulture Board	22.8.2013			✓	
Sagar	Dr.Dinkar Sharma Jt.Director Ext., JNKVV, Jabalpur	27.12.2013		✓		
Sagar	Dr.Norika Eshahasi, Japanese scientist, JICA Project	17.1.2014			✓	
Sagar	Dr.T.R.Athare Scientist, ZPD, Zone-VII, Jabalpur	23.1.2014	✓			
Sagar	Dr.V.S.Tomar, Hon.Vice Chancellor Dr.P.K.Mishra, DES,	5.2.2014		✓		
-	Dr.N.N. Pathak, Director Farm, JNKVV, Jabalpur					

25. Status of KVK Website:

Sr. No.	Name of KVK	Date of start of website	No. of updates since inception	No. of visitors
1.	Sagar	Under preparation		

26. E-CONNECTIVITY

Name of KVK				No. of lectors	Brief achievements	Remarks	
	Date	No. of Staff attended	No. of call received from Hub	No. of Call mate to Hub by KVK	organized by KVK		
Sagar	-	-	-	-	-	-	Not started

27. Status of RTI

Sr. No.	Name of KVK	No. of RTI applications received	No. of RTI appeals	Remarks
1	Sagar	01	Nil	-

28. Status of Citizen Charter

Sr. No.	Name of KVK	Query received (Nos)	Query Disposed (Nos)	Remarks
1.	Sagar	72	72	Related to technical information

29. Attended HRD Programmes organized by ZPD

Name of KVK	Name of Staff	Post held	Programme attended (Nos)	Remarks
Sagar	Dr. Vivekin Pachauri	SMS-LPM	02	25-27 July, 2013 & 22-23 Sept. 2013
	Total		02	

Name of KVK	Total Number of staff Attended HRD Programme organized by ZPD (nos)	Total Number of Programme attended (Nos)
Sagar	01	02

30. Attended HRD Programmes organized by DES

Name of KVK	Name of Staff	Post held	Programme attended (Nos)	Remarks
Sagar	Dr. K.S. Yadav	PC	02	

Name of KVK	Total Number of staff Attended HRD Programmes organized by DES (nos)	Total Number of Programmes attended (Nos)
Sagar	01	02

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
Sagar	Dr. Mamta Singh	SMS-Plant Breeding	02	25-27 April, 2013 & 10 Jan, 2014
Sagar	Dr. Vineeta Singh	SMS- Home Science	01	25-27 April 2013
Sagar	Dr. A.K. Tripathi	SMS- Plant Protection	01	02-11 Feb. 2014

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

33. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

Name of KVK	Types of Activities	No. of	Number of	Related crop/livestock technology
		Activities	Participants	
Sagar	Field day,	01	34	Kharif crops
Sagar	Exposure visit	02	61	Kharif crops
Sagar	Farmers Training	01	22	Kharif crops
Sagar	Inservice Training	01	19	Kharif crops

34. INTERVENTIONS ON DROUGHT MITIGATION

Introduction of alternate crops/varieties

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

Major area coverage under alternate crops/varieties

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

Farmers-scientists interaction on livestock management

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

Animal health camps organized

Name of KVK	Number of camps	No.of animals	No.of farmers
Sagar	02	156	62

Seed distribution in drought hit states

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

Seedlings and Saplings distributed

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

Bio-control Agents

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

Bio-Fertilizer

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

Verms Produced

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

Large scale adoption of resource conservation technologies

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

Awareness campaign

Name of KVK	Meetings		Gosthies		Field da	ys	Farmers fa	ir	Exhibition		Film show	
	No.	No. of	No.	No. of	No.	No. of	No.	No. of	No.	No. of farmers	No.	No. of
		farmers		farmers		farmers		farmers				farmers
Sagar	-	-	-	-	-	-	-	-	-	-	-	-

35. Proposal of NICRA - Not applicable

1. Technologies to be Demonstrated

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

2. Proposed Extension Activities in NICRA Village

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

3. Proposed Training Activities in NICRA Village

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

4. Proposed Activities for Fodder Bank

Established (Years)	Capacity	Current Status
-	-	-

5. Proposed Activities for Seed Bank

Established (Years)	Capacity	Current Status
-	-	-

6. Public Representative/District Administration Visited in NICRA Village

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

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

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

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

Sr. no.	Name of KVK	No. of success stories	No. of case studies
1	Sagar	01	01

Name of Farmer	: Shri Akash Chaurasia S/o Shri Komal Chaurasia
Address	: Village - Tili, Sagar
Age	: 23 Years
Education	: Higher secondary
land holding	: 1.25 ha
Livestock	: 2 Buffalo, 02 Cow
Crops grown : Toma	ato, Brinjal, Ginger, Onion, Cucurbites, Betelvine
Thematic area : Orga	nic farming

Description of Innovation: Shri Chaurasia earlier grew Tomato, Brinjal, Ginger, Onion, Cucurbites, Betelvine by traditional methods and indiscriminate use of chemical fertilizers. By the intervention of KVK, he starts vermicomposting and vermiwash collection through vermi pits.

Practical utility of Innovation : Shri Chaurasia apply vermiwash in the vegetable cultivation directly from vermiwash container through drip irrigation and vermicompost is applied in soil. Through this system he is gaining Rs 9.0 lakhs per year as net income however the cost of the cultivation and vermicomposting in 2.0 lakh only.





Name of Farmer	: Shri Ramdeen Kushwaha S/o Shri Gappu Kushwaha
Address	: Village -Mahua Kheda-Paigwar, Sagar
Age	: 45 Years
Education	: 8th
land holding	: 1.25 ha
Livestock	: 6 Buffalo, 03 Cow
Crops grown	: Tomato
Thematic area	: Hi-tech Horticulture

Description of Technology : Shri Kushwaha earlier grew Tomato by traditional methods of cultivation on flate bed system. By the intervention of KVK, he started stacking in tomato with drip irrigation system and IPM practices.

Practical utility of Technology: By stacking of tomoto Shri Kushwaha is harvesting 212 q/acre tomato in comparision to old practice (132q/acre) and gaining Rs 2.0 lakhs per crop as net income however the cost of the cultivation is 0.4 lakh only.



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



















Annexure-I

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GLIMPSE OF PUBLICATIONS

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Soil quality monitoring of the barren sodic farmer's fields after reclamation in the alluvial plains of eastern Uttar Pradesh, India

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Introduction

Limit is the reast precises: bertage and physical fuse for transa projective, which things by append the whole life system of human being, and cale and plant kingdom. A close took at the present health of the and and water resources. pertrays that about 63.85 million ins, which account for about 20 per cent of the total gaugesphical area are threatuned by various types of degradation like alkolicity, sellicity, water logging, revisus and galied lends, shifting nativation and desertification in India (Powell and Tripsthy, 2006; Tripathi et of , 2004). The problem of land degradation has brought up face to face with the ever increasing deplotion of the productivity and the basic land stock through partient deficiencies an one band and the ever lacetaring domand for

fand, fodder, fibre, foel, agro-based industrial may cattoriale and many non-farm land uses, on the office. The existing total food grains production of India is around 200 relifices towards. which is herely softkient to faul 1827 million population of the country (as in 2001), however, the pratected paparities of the country on the upper side, expected to be 1333 million by the year 2015 and the feed grain denoted will be 220 million transmit (Anonymout, 1999). Therefore, the only option eventiable to brought more area under coldination by reclaiming the salt effected, degraded and barres outstable waterlands.

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Revised States and Arg. A.S. (1998) 113 and Invariant, (2019). Subjects around annual spin-terand had unsupposed. These takes and an entry in the line, Kill 1992 (1997)

Introduction |

Applochung production and have productionly are influenced in a accorderable among he the manys agained by make of the band and allocity the unit and providers adopted. by the Bousse's Limited and Initially of additional land for every rentation, slong with declaring yield growth for most final 11266, have beginnered concerns about approximents attitute in feed a world population expension to account 7.5 billion to Bill you 2020. Deseteling sold for Day has also second concerns. where the combinability of agree-thread production or converse levels. Notice strategies for increasing agreements productivity' will have in form no integrated bits marries. himsen mor efficiently affaitively per maximum than in the part, het prived warragements of the stationers resulted

for project place garwill, together with effective cross maters ick, and had management, will be armed for mentionly applications over the key terms

The approximately substantial water and a second se and transferrations dispersing on the context (Carlos, 1968). In fadin, or its many commiss facing the task of feeders as repeating population from a near-stabilized are suffrated. and, the concept put field by TAC (1989) is applicable, in intercepts. The DAE report stores that "the goad of supported by April alters shalled by to mainter a precision at highly installeds to need the transmission operations of an expanding world posthetics without dependent the environment." Further, "summarity approximation about landers the account.d memogeneet of resolution for agriculture to satisfy sharinging formal saids while protected by an addressing the quality of

and solution is a statistic to prove the last

Review Actide Current status of web blight of mung bean ALSINCH, K.K. MISHRA 4ND A.K. SINUH Instanting or RESEARCH FOREN - Key words - Web Edgis, Many Inne Corresponding authority Here to site data article a Doph 3d. Misbox K.K. and Hopk A.K. (2011). Carton mous of sold High of ALI SENDI, Knole Yogyan Kinshi. purp inter Anise J. Sol' Rol. \$521 (81.00) last als pit priting on Councillants | K.S. WHIRA, England Agricultural Remark Strain, HORAGERIA REPORTED AND INCOME. AM, SPHER, NORN Vignal Kondrik, AND CAPTER ON FAILURE Introduction Polses in India have been considered in the poor man's only source of protein. Palses are proven in 12-23. million hockness of along with an annual production of 12-15. million tennes (ant), balls accounts for 33 per cost of the world area and 22 per cent of the warfit production of pathen. Pakitai. Among the pulses manghean [Figure review (L.) Wilcook] also known as green gran at priden yran is one of the must emportant short duration putte prope of index and Grown in Abovil, spring and sampler seasons. It is endirested as 3.77 million bectaves produced 1.52 million means of

graini (Accountry, 2000). Maschete minds grown in Rejuthan, Maharashtra, Karmiraka, Andhra Pradosh, Orista Silker, Tarud Nada, Mudhon Fundesh and Ulter Pradeab.

Even with the best efforts, munchess production and productivity has been stagment dwy to marighean is affected. by more than one distance and past at a form. These are responsible for heavy yield reduction and contribute substantially in instability of production of the cropi-Manghous suffers seriously free several visit and fargal itseases. Anong these Manghean Vellow Monaic Virus (MYMV), Cenospora leaf spot (CLS), Web blight and Anthronese are the important diseases.

Geographical distribution :

An Asian Journal of Soil Science laberta # (Inner 2) December, 2013 (495-504

> Web blight is use of the surjor constraint in the production of more pulses in worm hand mania mores of the world. On manabana Rismortunia blacht was reported for the first free from Philippines (Navies, 1933) in 1934. Alam et al. 1983) reported occurrence of web blight of marghesis in

In India dest report of its occurrence on raingbeau was siria by Detroid and Salesan (1974) from Kagna Uttor Pradeall subsequently; this disease has also been reported Itwo Assatu (Salida, 1976), Pargick (Bairs and , 1988), Madleys Prodeck (Tiwari and Khare, 2990), Didur, Rajethur, Huryana, Heranchal Pradesk and Jacomy & Kashing (Anceymous). 20045

The disease has been known to occur in balls on other legismicrost groups like black gates (Savena, 1973 and Electron and Trignthi, 2001); pigeorpea (Dwived, and Sokacas, 1972). Coupta (Dwived, 1977 and Lokshente et al., 1979) hephean (Verns and That-Ival, 1976); Groundact (Dwived) and Duber, 1996) and ricabatas (Listal), 1990).

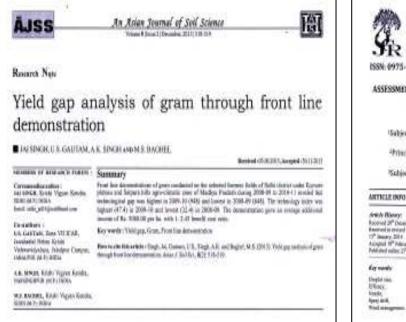
Kononic importance :

In 1976 Saikia give as account of the excidence and etiology of hight of Photenka auror (Figur Addes) tranking into about 30 per cast plair martality. However,

International Additional Additional Contracting Systems

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Introduction

Inclusion the largest predictor and comparest of publics in the world. However, pakes production has been singularit at between 11 and 14 entities inspes over the law recoderates. For capitate pulse consumption over the years has cause down Tran 61 g/day' parents in 1951 to 31 gypersonylay in 2008 Ibidian Council of Medical Research recommended 63 pilass' perrori). The major Palace grown in India are chickped. pigroopea, lientil, recompletes, unthrus and field yes. About 65% of the pietral chickpen area fails in India, companding to 68% of the global production (FWOSTINT, 2009).

In Solls, District chickness is a graviate pulse crop in-Bab's access and are generally cultivated on marginal and cubmarginal lands which are characterized by poor soil firthline and motorians stress with the result in low yield. Chackpea is an integral part of Soldi agriculture in term of higher printele, mittigen fixing ability, diversified cars and indispersability as alternative grop for diversification.

The size of front line documentation in general is to

the abave, the present study was designed to slamify the bundle souther for the front line deventuation for spreading of improved chickase productors technology in-Softs district of Madrove Pradesh. The Cross sectional data an output of chickpen and lopic used per hectave have here. collectail from the FLDs. The tatal 39 dresonstration mereconducted on formers field in Sidia district of Kymore phone. and Salpara hills ages climatic sums of Malkya Pealishduring 2004.09 to 2010-11. The seconderended pathage and practices was followed. Chickput was sown between 25% Outabor to 10th Newtonian every your keeping seed rate of 80. kg/ha m 30+10cm plant geometry. The parmination of sead was 85 % and was treated with Tru-bodymer with, Abinohium and P58 calture (8.5 pl kg seed. The recommended door of fortilizer 10.30 # kg/ to N: P.O. 36.0 two upplied in each demonstration. Haut weeding after 33 DAS was applied and one series of trimplics-40 EC (§ 1.8.) ha at 3-2 largas / motor you largely was advargant.

miss production through transfer of technology, officence

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International Journal of Current Reviewsk And A. Person Million All Physics in Long. 19814.

VARIOUS NOZZLE SYSTEMS IN WHEAT (TRITICUM AESTIVUM L.)

"Singh, A.K., "Gautam, U.S., "Shrivastava, P., "Jai Singh and 'Tomar, A.K.

(Subject Matter Specialist, Jawaharlal Nahra Krista Vishwa Vishalaya, Krista Vigyan Kaadra, Katoi, Madiria Pradesh 483 442, India Principal Scientist, Zonal Project Directarate, Zone-Vil, ICAR, DRIVF campus, Adhamal, Jaholper, Moditys Pradesh 482 004, India Subject Matter Specialist, (nvaharla) Nebru Krishi Vishwa Vidyalaye, Krishi Vigyan Sandra, Sidhi, Malline Pratinh 433 661 Judia

ADSTRACT.

HALFELS INFO	Anstals, I
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Depth size, EVEX, Veryet, Aprec and, Maid integration.	werd devotes (w) werd Norman, plant height joal, sommer of effective effectively interplant, patientidat, where grint yield and when andoor indevel for the Norma director of Nachon Traduit arising 2007 of and 2019. Substatial andoors indevel for the Occurs type had ingeliation of these are gointy effective of the Nachon and Source (Nachon and Nachon and Nachon and Nachon and Nachon and Nachon and Nachon and Art hemework (Nachon and source) was observed that the week (Nachon and Nachon an
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INTRODUCTION

Wend management is an exceptionant diallature to came praduction. Words have the potential to usure resources, that weald adaptive provide courobecret to growing coops or interfers with plasting at hisvesting spectroms. Second of these potential sugarive impacts, must research has been throad to developing management tanargies streed at refering weld populations, assally through everyonical insurfaces or chamical applications (Zisodald, 5054). Weeds are above associated with format and service and once burn infactions in crop yields, increase cost of autivation, esthere input effecteury, trierfore with agricultural aparations, import quality, and an alternote beers for sciental insect peaks, discount and naturation. Wends comparing with error plants for various input like water, university seedingly. The importance of their management utilizes requires any mouther represently under the

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pressent day high upper forming systems. Watch also interface in the management of all the terrestrial and aganty recorders. overte publicate in the maintenance and importion of vectors softenet, electrical, callway and alignet availations benates being a potential For based in formits and main body baseds like shist allergy, small discuss, etc.

INTERNATIONAL IDURAL.

OF CORRENT RESEARCH

The impact of weer's on the Indian economy antinanal about two databay ago maged from En. 38 to 28 hillion (Sathan 1989, Saluer and Sergeway 1988). A recent shidy suggests that propart wood monagement incluse/orders, if adapted, each result in at additional income of Ra 1,09,056 press per manu-(NECWS, 2007). This figure would be greene if the deact and indirect impact of weeds on aquatic systems, formity and industrial alter are also included. At a consumptive assimption are amount of Ro. 180 billion is sport on wood storagement annually in holes, in arthly appendury alone. The potential yield losses due to words use be as high as about 65 per cent. deparalize on the step, degree of weed infestation, would

Name of Concerns, Methodows and Assarbable Consequent Will BCD Will Instary Inc. 2013.

Adoption Level and Constraints of Sovbean Production Technology in Sagar District of Madhya Pradesh

Manta Single', A.P. Durred?, A. Misteri', R.P. Single', D. Single', S.R.E. Single' and Press Chand! THE KING Yorks Kinds, SARE, Sain, Maller Parity, Wood Project Discounts, Johnbury, M.P. Weills Vignie Konika, Pert Graduas Callop, Charger, IV

ABETRACT.

Solivin is a more may grow during the blast or elements anoth [Ids Detailed cycle de hid stepof course and previouslass leafly. Manihour buckets is between an many embrance products of leafly, constraining 55 per core of the soull national stay of evolution colevation. Higher soublish production can be achieved by interface of all the accommodial production technologies by large number of ference. This result was conducted during 2004-00 in free velages of climbal Sugar of Yandisan Steame Agro-climate rook of Na its trainer. The occup adoption level of memoratory on exchant calibration was assumed and findings. centred that power of the propositions had madrices level of adoption OR-ID pay court followed in Lin-(\$7.00 per toot) and higher (30.00 per tood). The practice size data colorized for the matter of adoption of commenced of websers calculated practices repealed that sole 20 per som formers plaughed they field at recommended. To see more factores note adjointed data contains placehing, non-thereintive tradition notsingeed by 45 mm and of the futures. It will not all reproduces had adopted the communited seed. este in this enforcement, R2 par even hervers more stars their range is estamateded time, di par cost former i bid must be commanded exchart of evenes. If per our limits should introduce the exception, and measure with hergende was adopted by the 03 per care of the farming 25 per care farming had subpool and investation with PER, 92 per new femare were along techniquest data: of deplace, 2 pernext of the Gamers upplied the recommended much hand integration and purpor discussys. If per over harmonwas advected accomposited herbitide as a chorized word control measure while 15 per cost furture were applied manual mind excentioned, 20 year over factory different plant protocols or resources to element perceived is one care farming were adopted plant protection practice below that the recommendation and 7 pp one store where it is recomparated many UNI components. The maximum context provers were facing biochronics in the production endowing the to correlability and the new of scholar high yielding : tendior in time disposition). Hearly store interfactors landed as the record work responsed survicional In 70 per central responsions. Organizations of personal datasets were defended associate constraint constants? In (Siner case of the wavendown. The workest collectors reported the toward takk of the over year not taken of the to high cost of input materials and high cost of mages. Lash of every new post brandwing does recail to be object intervention user the many contrainty percent for fitting part of a specificalack of conversion in new industriation was also represent to 75 even are of the manufacture. Weak contracted activities anything level were reported by 62 per cost of the improduces and region ages chiracter. secondaries i.e. consist and full received during growth period preserved by ES per even of the ecoperations. which resolved in processed writing and low walk in the cross, in other many changin constraines. To marcont responsively prioritanel for diamar and part holdows due to high humility and pure and forday. was waited by 60 ter cent impendents.

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INTRODUCTION:

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Birrend, 24(2): 151-156, 2013

Integrated crop management for enhancing sustainable production potential in sovbean

Manuta Singh¹, A.P. Dwivedi² and K.S. Yashev¹

I. SMS-First Breeding and Unwrites, KVK Sogne, M.P., Jada

2. Agrounty, 2PD Unit Zone-Vil, Jabalpar, M.P., India.

Received May 3, 2013 and Accepted July 25, 2013

ABSTRACT : The on lines trial were anderaken by the Kriddi Vigan Kendra, Segar, Mathyn Pradeck on integrated stop management in Sovbern in the district Segar of Madhra Pradeck for two consecutive years viz., 2008-09 and 2009-10. The integrated exog management for Seybean area non comprised of molding over data of almoun, we of WYV to 35,07,52, line covery 45 to 18 ers, plant to plant 5 pp and 3-4 pp deep with need drill used meanmant with a minute of Thirture-Hawlatia (1:1)@ 2pkg of earl, and inocalatina with Rhitobian supportant for efficient biological fication of atmospheric nitrogen and Phespheres solubilising inggets (PSB) advance it 5-10 ging of seed for increase in phospherous availability, furtilizer dose @ 20.6920.21 - N.P.K.S. lepfon, weed management with insurchappe (§ 0.1 kg an the and acad based place particulate remsame. The highest grain yield (36.95 ofta) was seconded in the year 2008-10, it was 15.31% more over the farmers practice (14.70 oftai), however the lowest yield (15.85 ofta) was recorded in the year 2008-09 under on fame wial and 13.05 ofte in famors practice. Increased yield in integrated inter managiness maticus were recorded 22.22% and 15.37% more than the formers practice and principled net income of Rs 23485/lin and Rs 22895/hn during 2086-09 and 2009-10, suspectively, The cost benefit rolls was enactiman in integrated only management practices i.e. 1.25-3.79 as conpand to firmers practice 1/(2.92-3.35 during both the corp season of investigation. Finally results revealed that higher while was obtained in each your in stylense erop and higher B-C ratio appeared But deponstrated technologies is far better than the farmers practice to enhance suspansible production potential of the mon-

Key Words : Copy sumgement, sorbeau (Obeitsr max L.), suminable yield.

seed grop in the world. It is considered to be a cash other Alwylf pulses and oilseeds. Madhya Pradash every. It is an excellent source of protein and cil. It state contributes about 67% of sotal accesses and contains about 43 % of good quality protein, 21% 56% in production of soybean and hence is called as earbohydrates, 5% minerals, 8% moisture, 20 % fat, "Soya state". In India soybean is cultivated in 9.3 4% fiber and reasonable amounts of vitamins. Sov- million bectare area with the total production of been containing 43 % protein and 20 % oil has tre- 10.13 million tones and the average eroductivity is mendous potential to meet the protein-calorie mal- 1089 kg/ha. Soybean occupies the highest area and nutrition of the ever increasing indian population. production amongst the oilseeds in Madhya India ranka 5th in the area and production of any- Pradesh. The area, production and productivity of bean in the world after USA, Brazil, Argentina and soybean in Madiya Pradesh are 5.52 million best-China. The contribution of huffs in world soybean are: 6.10 million tones and 1105 katha respectively. area and production is about 7.8 and 4.2 %, respec- and in Sagar division, the area, production and protively. In recent years, novbean has assumed impor- ductivity are 4.587 kigh has, 4.882 lakh tanes and tast position in the country, as it is one of the most 1064 kg/ha, respectively. Sugar district of Madaya stable khort/ crops yielding cost effective produc- Pradesh occupies 3.151 lakh ha of land and 3.378

Sectors (Ghelor wer L, Merill) is a major oil- tion under varied agro-officatio conditions unlike

International Continential on Energy Environment & Life Science for Suplamative Patient & National Science Day Celebration 3914 20

PROTECTED VEGETABLES PRODUCTION IN SUBTROPICS

Dr.K.S. Yaday

Jawaharlai Nebra Krishi Vishwa Vidyalawa, Krishi Vigyan Kendra, Same (M.P.) - 670007 - INDIA

SUMMARY

in Green house or polyhouse or plantic house covered with polyhene short in which proves off-season vegetables as a protocted cultivation. This types of Polyhouse/group house is a framed structure having 750-100 micros (600-800 gaugues) UV stabilized transparent or translacent low density polyothylene or other cladding which crosses green brase effects making microclimate invocable for plant growth and its development. The solution of cross is more critical in case of ordinary law cost polyhouse in subtropics. Parhenocarpic Caramber, Capsicum, Tomato, Coriandez, Cabbage,Early,Cauliflower,raising of an offseason vegetables marsery gives quite romanerative 3 to 5 times yield during in low cost or "futural ventilated polyhouses and very suitable for small and medium land holding farmers. In European countries Tornato viold 63 - 145 tenes ha, the highest yield being in Dermacks In high conducted under subtropical climate in India, where winter temperature does not favour fruit set in Tomato polyhouse yields have been found even better. With the findings of various research, hybrids are arown in low cost polyhouse, a yield of \$8 - 157 tones per hectures has been obtained. Generally, more than 40 - 60% commitation percentage and healthy seedlings are to be found in polyhouses reported by various resumchers. In other hand and various queurbitaceons vanitables can be grown one month before normal season in poly bags and in plastic pro trays having 1.5" cell size in the month of December and kenancy and transplanted in normal field in the mid January to mid February.

0000000000000 National Sensory State February, 2014

animal species in an environment. The goals of organic families includes maintaining cheese cross, heading and Meaning rackward policitors, and adapting any of west for theorem and populations in again where a met processing a multiversaria frambliness. Organie: terraing cart privilities up to two or three times an much local as convertional terraing. At the been tourier that use of organic; testilizers and arganic methods of terring fields a lot in potting topy years. This being the developing countries because if the developing non-time like index swipt to organic being their productions can increase approaches blang factores from developing on white mode on afford the expension for taxes and preference. Fait the after tarners are to produce high yours producter particle area; Organic terring has happed and tarea By growing them an apportunity to ecompose with larger herits. Clears memories which are constructing that with put relo the solid by provide national and that learn favore to provide an ough retrigen to fairst organizate without the systemic: betters. Consentantel agrounding uses symbolicy tersizes bacades and reinfrantice longe (accepting in scaling) which is harmine to the environment. The division for sponse house a provide a least to cheef spreak which and the couples and a whore marine Me could not survive if also denotes the and to wear down, previously get ertitizen (release of state vapour, carbon doords, methanis, stryce caute, and cares), and tere of increasely. This Adeptrits and artisings to explain controls adged to and methods of organic forming. The potential of organic terrang on

81. Organic Agriculture: An Environment trianoly Ecological Production System A.K. Singh", Jul Singht, Astron Tripathi and M.K. Shrinellave2 MNWCK man Vigyan Kendra, Sagar (M.P.), 12NKVV, Knam Vigyan Kandra, Sido (M.F.), 2ankVV Regional Agriculturel Research Station, Sugar (M.P.).

The propert lawless of instrumentional opticities which is practiced the world over worked in the worker. remark as a product of their socio-economic environment which promoted an over raining queet for account dated of wheth, This wathout of terring adopted by other countries is interactly test positivative and unsustainable. Increasing are of agrochevicus expectally prescues resulted in the damage to environment and investment resultance of Fracts to Ren. Peralcities low-red world organisms in the solt. The applicance and read for all minimarial alternative barring spatient access it are than it effects of the chartered farming practices adopted accesses during the second half of the lead contary. The mediacity of lawning system and adapted by our fundament for centeries used lead injurious to the environment. People target to finds of various alternative farming systems based on the protoclase of environment eduction loss acceleration memory and any of the formation of the second an ecology environ conductor to the particular of all the two deep reproduing things, but alls of the non-remember every sources, et. Many systems of having came and of the efforts of many inparts and layment -roseway, organic farming to containing to be the beer among all of their because of its accessity approach and woter apoptative all over the work. The could for argamic farming is india assess the to unsubtanellis approxime production and the charactery counter in according to a up the conversion at larring practices.

82. Phytochemical screening, extraction and TLC of Celastrus paniculata 1. Asha Verna 2. 6.D. Derved, 3. Anend Kumar

1,2 - Professor, department of Chernistry, Govt Bolence and Constructor college, Benacy, Broppi 2. Remearch Scholar, Department of chemistry, Govi Science & Commerce College, Benack, Broost

The present study shows the phytochemical accessing and presence of antisposity active compounds present In the entropy observed from the sample of Calegories parentiated wite. It is a solid of medicinal plant prevaie as polytomatic which gives here its in the west path, of medicine as well as programs, applied appropriate. The problem spatially not

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28. A review on Indian Agricultural Biotechnology Any Charactys Govt. Arts and Commerce Edilege Segar (M.P.) Ervail ajay charactive@privat.com, Contact +017810447680.

Bidestrookgy provided very high prant investment opportunities in the Seletiped Loardree during the lest decision. The applications of these inchroningles are estancied to a water area to distruct the senders, while taking advantage to expand the beamers sound inter to the invariants. These opportunities to be with the point opportunities to be advantaged opportunities to be advantaged opportunities to be advantaged opportunities and a second opportunities could not density benefit the developing countries in the series magnitude. Developer of patient rights and lack of influencelos a selend the banafits to the access. As most of the Advanced Investment each send out with frances support from private sources. The developed countries could not have direct eccess to the research feetings. Nevertupes, an and research projects an observation water sectors and the Ministry of Source and Technology in India. It is an encourage exception at and every limit to make any significant because in the fault. Even in the attention of any water breach reacy, bidentively can provide pool enque to acting up or all more business prespons. perfectionly in the opticultural sector.

29. Bio-control and IPM prectices for Pulse crops in Bundelkhand Region of Madhya Pradesh A.R. Trouth? A.K.Singh and K.S.Yadav Subject Mater Specialist (Plant Protection) Kente Vigyan Kendra LINKVy), Gagar, Masthya Predvah

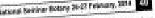
Economial reporters approximationage including output (Pipeurper and Grann) are attached to various peet resulting on tweny trap invests. Currently, the most weakly used something measures to suppressing the participant is the overof transponent-spectropic intervenue, produce exclusion with an environment of resolution to the pathogene to the funge data and investigation in the clocker, and insurrantees for insured application, added in the more large of the If written have great around a to alternative researces for control of fease and. Bio-control is an important component straco-freedly, cost affectes and sublainable prop in an apentary plantors.

Boll approximation of Transformationale (§ 2.5-with FM and approximate with the same (§ hybrid approximate) witablected area of Grant and Pigeorypea gave 62 per cent and 12 5 per cent execution of will dreame increases Application of DMM package 8 resplation of Ded perchans to No. Pharmeter trap 20 No. Spray of Nerver of 2000 relief 50 per cent followed by 50% 250 Life per hactane) reduced the per toper poweden by 1 11by0 50 lenvies per plant in Gran and 1.8 (n.0.9 landst per plant a Pageorper whole ultrasoly wronated the yout of Gran (18.8 per cert) and Figerarrays (34.0 per vent) with card benefit calls 4.12 and 4.35 m Gran and Physorenes.

30. Vermiculture Bio-Technology : An Effective Tool for Economic and Environmental Sustainability Or Archima Chautan, Valeedurinina, Shikahgi Serat and Deeps Bager Department of Zoology, Govt. Maturese P.G. College, Chivatarpur SM P.

Vermission good production and use it an invertigation friendly, prodective and subscripts of process as indexeds restortions analogiup in tendence and also look yoos encoders of greenhouse grees (UH43) due to very small alroaded energy used in its production process. Application of vertracement in farm well ests as all conditioner and hep-to-





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matters can eventually resultive accompliation of accord all tal increases of total angle Alls when ready to bagoe. Feedbacks mad dependence, annually, alt, officer general health is had improved the single of the Enclarating problems accurs. Harica, repetitional therapy has enclosed over the years into a scientific and your prehensive frequencies system.

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we have but which a finite us to cope with them. Psychology is shout harmen actuates, both scalable and seguent, about the environment and environmental organizations. Psychology & about human heads, and human heads is scentrally affected to the function of the network environment, Environmental through passe total closed and indexed with is) aut and being. Privals, psychology cancerne further relationships. Positive social relationships are often nurficient In reduced environments, that environmental threads Laborate score incontration interpretation an well. Create internation sharges will affect for resolvention, increased tompetations may mentate represented. Insite of economication reductors will to the fund that and percented inputes in the classification of environmental conterval lead to attended with terreture. For all these measure we need to recognize that service means conditions are backener fail to pay including phanomena, and and that anythological conditions are fundamental to environmental presionants. Psychological tar contribute by metal galling the human construct environmental processing. Appening the human consequences of anatomiental changes, and evicus raying hastly insponent in processing costoriges.

93. Impact of integrated nutrient management on lowland rice production in Kymore plateeu and Satpure Mile zone of Madhya Predesh A.K. Singh?, U.S. Gautant and Jac Smith UNION ROBENTSKI Kandra, Kans (M.P.). Zona Project Constantia, Zone MI, ICAR, JUNIV canpan, Achanan, Jababar (M.P.), Sokoly, Konthégyan Kendra, Sidn (M.P.)

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General commend for fixed its transplance and population growth, representing will arrow and changing determine rights. The UN-WAD forestalls that general face production wit need to accesse by over 12% by 2018 and 70% by 2000 (FMC) 2008). Hits is life for an out that (if the get saturage balance and reage ity April) of the index populates (who any and highly submersion to induce any pleasant take to high rise place. The barry and benchmed of majority of the inder far ming providents and dependents growing the Rice productor increased arrows had over the last two excelet and computer hardworely to the relational security of the soundy in tide. The arrow compared growth rate WASAP) of too production hald declared from (1.52 per set) during 1591-(52 pc; 1.74 per cent during 1591-2000, Attioungli an all travenings production of KLSI nation term of non-solid a productively of 2200 kg par heatan were activities during the year 2018-00, india rooms to private 120 million to a by 2510 to feed as one and a half allow plus population by their. An existing analysis of this suprove provides sufficient publication for exemptioning, memory requirements

and eccuber gradient edge summers and bechnology for incrugiving the productionly in india (Adhyo, 2011) Rice is the most important load ones at the country southbut ing nearly with to the total fixed press production

The conjugation field in the year of lensit () 44 M had and wedge resultations () \$20% engineers wedge), and include (38-40% effor story and 17 - 18% of protocone lineightine use photeopy a considerably tow. Row based corpored by terms we The project productions systems contributing to force parameters. Covering crop productions spatiants, and characterized by inadequate and in dustances use of testioers, started testioer residence started and rapp dustance with lager regard to The variability in soci factuary and varioustically. Fullying game to productivity and appet use officiality inquiry soil and uses management technologies that are alloced to specific characteristics of access a fairway or fairs. (Rat) 2911;

Gast, Auto, Girls PG College of Excellence, SAGAR (MP)



UP Agricultural Science Congress (17-19 August, 2013) Emerging Challenges and Resource Management for Food Security

K.P.11 Increasing Pulses Production for Food, Nutritional and Livelihood Security of **Rural People through Frontier Technology**

Mamta Singh', K. S. Yaday', A. P. Dwivedl' and P.K. Mishra'

'Plant Breeding & Genetics,KVK, Sagar, M.P., 'KVK, Sagar, M.P.;

Agronomy, ZPD, Jahahua, Zone-VIII:

'College of Agriculture, Gambasada, M.P.

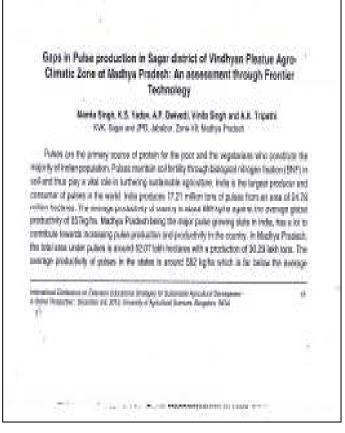
Pulset represent one of the most impurtant field categorian that have been autorsized y used as staple faeds to cover besize protain and energy needs of humanity. Polsca are rich in protein (20-25 per cont), carbobydratio, fiber and vitardas of the Bcomplex and it also provide iron, magnesisen, phosphorous, and other rescently, which play a variety of roles in emistaining goed health. Besides being a source of prowin and other minerals, pulses we also important for septainable agriculture as they require physical, elemental and biological properties of the soil and function as mini-minagen factories. India is the largest producer and containers of policy in the world, India produces 17.21 willion tops of policy from an area of 25.43 million/hostares (2011-12). The memory productivity of country is about \$29 kg/ter(2011-12) against the average global productinity of \$37 kp/ta. The major polices proving states are Machyn Pradeals (2) per centi. Unar Pradeah (18 per cent). Maharashtra (14 per cent), Rajallian (11 per cont), Andlew Panleih (5 per cent) and Kamataka (6 per cent), where pakes are predeminantly grown se rais fiel crops. In Modilys Profesh, the seal and under pales is assured \$2.07 lake hectares with a production of 50.29 labb tone. The revenue productivity of pulses in the states is around 502 boths which is far below the average productivity of free country as well as global productivity. The productivity of palses continues to be quite law and for the tree on an account of biotic and alliante minimas, besider unavailability of quality much of improved variation in time. poor unity management the to accever terms and non-adoption of version medical production and protection technologies. In-order to overscore these problems, the Ministry of Agriculture, Government of India taken the intervative interventions to increase. the productivity and profilability of palses viz. pigzon pea, shells pea, and, moong, least and field yea ein. To enhance production and productivity of pulse crops for interviewent of food, put it iceal and fixed head security. Krishi Vigyan Kendra, Sear are conducting from line demonstration (PLD) on pulse crops. From line demonstrations were randed in pignon pen-(2011-12 is 2012-13) and and (2010-17, 2012-13) during Mand vestors and in chickana (2008-09, 2012-13), and leads (2009-(0, 2011-12) o 2012-13) during vois susses in Super district of Wadhyes Pleases appr-climatic some of Madhye Predich. They was a wide yield gap between the potential and domension to eye his in all the palse every due to be bedry and extension gam. The reachs revealed that the average goals yield of aleron are (1). (1) what, ordini 69 a hat, chickpes (15.1) what) and leave (9.15 ghat sees recorded under demonstration plans and per case increase in yield was 22.53, 13.80, 12.56 and 13.34 per case. race our the fateau pastice, respectively. Due to freeder to be bujical intervention average net profit margin were recorded Ha. 26252.50, Ba. 12776.00, Ba.25024.00 and Ba.19919.90 per herbary in pigeon pen, ord, chickput and lower couprespectively when compared with existing practices. All the polices of freetien technologies showed a tigetfeast increase in yield of deposition over formers practice. The enhanced yield achieved through adoption of improved technological insurventions in palm creps and it maintained the and health, incremental matamathic development is production, exhausing: natritional securities and improved the livelihoods of saral resisters.

K.P.12 Antibiotic Resistance and Public Health: An Emerging Crisis in Developing Nations

Namita Joshi and R.K.Jeshi

College of Veterinary Sciences and Animal Hasbondry, Narradra Dava University of Agriculture and Technology, Kamarganj, Faimbad-224 229 (U.P.)

Since their discovery thering 30° Century, the antimicrobial agreen have saved the Dom and eared the sufferings of millions of the neurity. The development of antibiotics has canoficated a lattice bit expectancy by bringing many serious infections under control. In request uses a latter number of antibiotics have come up but due to needly developing antibiotic resistant bacterial scraps, their effectiveness is pready reduced. The astitute resistance develops due to accurate the afternais genetic charges. in bacterial series own a period of size that makes than resistant. The character, being planned mechanics is easily transferable treas and harapranty is another. The observations of petitivity minimum flux been apply and to various factors vir, particular



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ROLE OF IMPROVED VARIETIES OF PULSES FOR ATTAINING MUTRITIONAL SECURITY IN HOUSEHOLDS

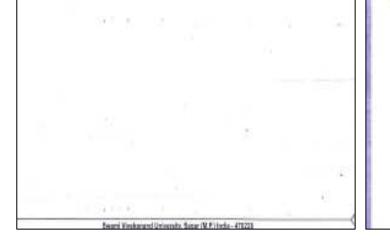
Mamta Singh¹, Vivekin Pachturi²

Subject Matter Specialist (Plant Breeding and Genetics), Subject Matter Specialist (Vereinary Sciences), Jawaharlal Nelwa Krishi Vishwavodyelaya, Krishi Vigyan Kendra, Sagar (M.P.) - 470002 INDIA

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ABSTRACT

Palses play an important role in Indian vegetarian diets as a source of protein. To ensure food and narritional security at household and individual level, the inclusion of at least 40–50 gm of palse in daily diet is essential. Palses are used for various purposes. The major portion is utilized for making dal, soup, sweets and sproats. These preparations are increasingly getting popularized in certain vegetarian diets. Though the production of pulses in recent docade has increased but it is not in pace with the increase in population. As a result , the per capita availability of pulses are decreasing day by day resulting in high magnitude of protein mainstruction in the country. Gram, lentil, pigeon pea, and bean and mang bean are important palse crops of India cultivated over a wide range of agro- climatic zones. To promote the production of pulses, major emphasis has been given on the development of short duration, photo thermo insensitive and disease resistant varieties for their cultivation as a sole or inter crop. In Madbya Prodesh, the incidence of wilk is quiet common in pulse crops. The development and extension of will resistant varieties in Gram such as JG-63, JAKI 92-18, JG-130 etc., for Lentil Varieties such as JL-1, JL-3, DPL- 62, PL-5 etc. are going to be burefield for the farmers.



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MODINGA OLEPERA - A POTENTIAL FOOD FOR MICROSUTRIENT SECURITY

Violta Nagh

Sobject Matter Specialist Olicese Sciences, Invatartial Natura Kristia Victora Valpalaya, Krista Vigyan Kendra, Sugar (M.P.) - 470992 - INTA To-raal ki - Mody unstralityod ghank core

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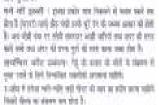
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भाषी सैन्दीनी सरीम अधीम पा तो है. यह भाषा अवस्थि में नम्द पर देन भाषि।

संवेशियक साम का आपरवेशिक पर विश्ववित केर प्रमुख है ते . ये कवे ये तेर का विषय पाने सरक है ये का से बड़ी रुपरा का रीम्बोली न जेवल दिवला बाग बसल पुण्याया की में प्रश्नीमा अंगी है। कुई गर में बाव प्रश्ना है। क्यी से पारी ताफ रीजपर निर्वाह हेया है। इस आर्थभाष – पंशेल्डेर संबद्धी थे सार्थ स्वत्य में सरदे प्रत्ये। जि वं खात दुन सा स्वतंत्री वा गयी दिन्स स्वतं हा दुनाल सेवा त्रमुख विश्वती है। इस तेन के सामग्री में कुछई के उत्ताना क्षेत्र का अनुरूप - तार त्यन है। पूर्व गण करत, ब्रहुरू में बच्च चुरिया संबंधुर या फिसन लेग एक अर्थायगं:- पूर्व्य में पूर्व येले की स्ट्रेफीयाविक की एक इन साथ बायपुर आ चुले में प्रकार विवालों पर देन प्रतय हे ना ने रिपाई देन - ते ही। दिना प्रेस भी पर ने प्रत्यांत काले पुध्धें काल महिन्द दिनां भी मध्य में भरतीय का केसर स्वीय का भुल्या ही जान के लिपनी तेला. योज का जिल्हाल रोग की रोगाका में साम्राट रीम के जन्म सेवेगु या भा साथ व भा परे व काल अमेर से साथ के प्राप्त 4. मुद्रनीविंगर आहित्या - यहालेज सा तेल ने सेवर्ड अ

शिवई को प्रायमी पीडीबेन हे 30 टिपी के लिने इस स्थल पढ़े थी रहा . या करती है 10 100 200 2 10

भा के अनुवारे २.५ धन मान से भी फिल मेन भी उत्पर्धात कर पुरत् ं अपनीत कर पुरत् अपन ताम्प्रल जना है। बन्ध सम्बद्ध प्राप्त है अबच द्वावीराश्च वार्तसीयम् अबच रहोगीयम् कोलिन से १९४० दन भव के हर ने दन केवा केने के उठवांत का उत्तेवत अच्छा तिवीचन थी २.२ जीवत लाग दियोंक से २.२२

वंशुल वे उत्तान केले को आई है पत की प्रमेश को बाता - ७, एकरनेशीविंशकम उद्याना-- इस सेन के जान करितन रोचे वे 2. min formen aber - ungenfer en fri & eure na en frief be en fei ar agu men h eine & legner niterie eine fi nite bi freis biefer bei & metare - ein fer & meter by an frei & met folgt be fi को पीत पासल लिए गई है पर पुल पानि शुल से पति है। जिसका रहें 💷 ना परिवार करियांग्रेम अपन न र प्रविधा लायेग्र (म. २९ वे पीत या रा बच्चे-चची शहर ता ये अक्सवल देवे स त्यारे है। 40

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अस सीमनों की गुरुत में अभी कार तान - स्वतंत्रांगर य कार्यन रह-११ से २२ प्रेंडिश से बेस म १८-१० विष ही भी है। चरेडू हम अस को चीपनी में अपने 👎 अंगचल पर विजयार सरफ अन्त्राह सेन्द्र है लाह समय भी करने से

रोचे में अने वही प्रेम्ट्रेजे में आदेशन, 3 आतंबर राहण होगा - मेंवनु मीम रह से 6 जान त्रभा विरागन, साला प्राइप, सुरावेशन स्वतित्व, सार्वव्यन प्रेय की संगत की अपना की अपना ही कीने पर

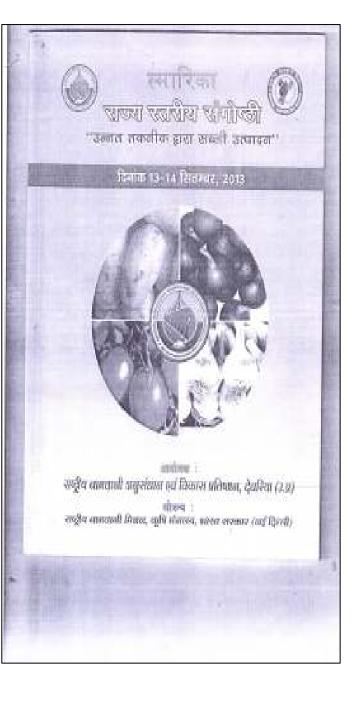
विषयों सेवल पर प्राने पर बोरे और देखें लोगत के कई दियाई जाते. प्रसंदान — इस तीर के soon हेट्र केले नवेंच कीई की गरीत और - के इस तीन का तबड़े बनुब नवार करने का कड़त के महेल गुर्वातन हुये ताची बहुई क्यू दे स्वर्थन से २० मेंने. जेने बच्चे या आगे से प्राणी का प्राण ताव है। ताचे ही पर सावसार ने सीवरों हर प्रारं ताने सबे बादी ठठ आने हे हाई संसर्घ को उन्ही स्टब पा की क्यों तक हर हवाँ स्तोरे प्रायंते कले स्वयंत्र की अधित के अधित लगा में मुख्यों को 🔍 दिस देखें प्रोतर थे जिसकी साल ११ एन्ड्रेंग की संवय जेला हुई देखे

प्रभावन:- रोगप्रेचे वार्थने के उपनित को साम बीचे की सेल्लीवाज र्तन्त्रेचे आधी के प्रवर्तन देखी को निर्हाणियन पर देशन थी। तम दीस थी पत्र के अनुवार थे २.५ प्रम नियन से और विद्यासक थी

रीने हे ज्यान निवाई की ही खान सामस्त्रियां की 4.2 uther & the or figure areas much the fi

वामरिकी तरह थी 1-10 दल गया भी जीत लोगा चयी में तेल बागर? - पुल, भर या भी के तरह भी-भी तल गया है। ये हवी में देख र के हिंद में लगान या निर्वह काम प्रतिक गांदी के स्वान प्रतिकों - रोपाल कर की गए हैं है तक मायनक अलंहा में की तक प्रयत बाजरी रहत बडीके हा आते से कोरी की बने पुराई की बाती पहिंदे. जात में इन को के फिल्म्स मान पर की सबार ही की तर से कारत

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प्याज की बीज उत्पादन लक्षमीक

याँ, मध्छा विद्वे, विषय बाह विशेषात-प्रदाध प्रजनन पूर्व आगुर्वांतव्वे, वर्त के एम खटन, ब्रावंडम स्वन्नपत्र एव की र में दियाही. विषय करनु विक्षेत्रज्ञ-पारंग सुराता, कृषि विज्ञान केन्द्र, मानग, म.प.

भाज एक जानी फत्तर है, इसमें विदालिन ही, पॉरफोरस तादि सुरू विशिरत पीटिक ताल प्रचर बाता में आये जाते हैं। प्यान कर अपनीम सामन, सब्दी, अमार भाग मगालें से रूप में किया जाता है। प्यार की सौग देश में ही नहीं अगित विदेशों में अधिक है। मागत आधा सिक के जमाव के प्रसंग विस्तान स्वाय का प्रत्यादन नहीं बड़ा या रहे हैं। जन्म हमारे सेज राज्यादक प्रदियों प्रताम बिस्स का बीज सेवार कर लें तो प्याज के जरवदन में कान्त्री जा जवली है। यहज दिदेशी मुद्रा अर्थित करने का एक उठवा कोन है। प्रयास की प्रभव गुलाइट पुरुष नेपर करने के दिये की नेपल क यो वर्ष बने आवश्यकाल होती है त्यहले वर्ष में कम्प्ट लेयान किया जाता है जोन दूसने वर्त में कम्प्ट में बीज Aure Serg segre # 1

बीज राष्ट्रादन की दिवियाँ- प्रांत के बीज राष्ट्राल से विधेयों से किया जाता है.

(1) बीज से बीज सेवार करना -प्रश गिंधे से तील ईयार करने के लिये ईपार पंथी भी। संपर्छ कन जरब ता सम्प को फ्रेंस में ही लगे रहने देते हैं तथा उन्हले वर्ग ने तैयम- पुष्पयुक्त के बीच प्राण करते है ।

(2) करन से बीज लैवार करना - इन लिये ने पहले वर्ष में मेंयन करन को चेट से निकास का 🌓 डॉट जन पर सेते है। अनले वर्ष फिर से ववाई पर बीज टेवन करते है। इस दियि से तेवल बीज भी ाणवता सब्दरि साली हे और बील भी अभिय मात्रा में मिलता है लोजम्बलील रहता है । बीज से बीज वेचार करने में डीज़ की मुख्यता अच्छी नहीं होता तथा मध्यरण क्षमल भी कम होती है। धूमि का बदम - देखे भूमि का भवन करना चाहिते जिनले विव्रते की पाल की प्रमास मही त्याई . हो । संत ने कासेंमेक प्रदार्थ की मात्रा अधिक हो तथा यसकी कल धारम क्षमता अच्छी हो । प्रथक्षकरण दूरी - प्याय एक प्रपत्रणित जनस है इसने 66 प्रतिवत्त तक पत्परमण डोल है। राज-भेत राज्यान के लिये म्याज को जन्म जिल्हों के घंत से हुई बनाये राजन बहुद शास्त्री है। आधा क्षेत्र जन्महन से लिये स्थवजनम दुरी १००० मीटर तथा प्रमाणित क्षेत्र से लिये २००४मी. की दुरी राजमा आकारण होता है। रामन किम्मे -

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धारीम की किस्में :



तिलहती फरालें। का क्षीजात्पादत तकतीक

बीठ दिनेश लिंग, वार्वजन समयवरण दूनि विद्याप सेन्ध्र पीट लेंग आलेस, पालीपुर समया सिंह, विवड वागू निर्माण मुनि विद्याप सेन्द्र माराइ, मेळ प्रवेश हराव्य सुन्दार सिंह, पार्व मेंगेस्टर सुनि दिवाल सेन्द्र सोसपुर अपन अनाल के दाने या लाग जन्म्या कामें से उदित्य तर मान निर्फ़र्म पुण आणिता हो, विदाली अनुरुष अपन्त के दाने या लाग जन्म्या कामें से उदित्य तर मान निर्फ़र्म पुण आणिता हो, विदाली अनुरुष अपन्त काम्यों को पात जो मीडिल एवं मानुशाणित राम सा निर्फ़र्म पुण आणिता हो, विदाली अनुरुष अपन्त काम्यों को पात जो मीडिल एवं मानुशाणित राम सा निर्फ़र्म पुण आणिता हो, विदाली अनुरुष अपन्त काम्यों को पितन जा मीडिला एवं मानुशाणित राम हो, बास्य है। काम्या हो से सेन्द्र अन्य रहमाने सेने व्यापन सित्यई आदि पा किया गया राम कार्य हो। सिंहा उपवास्य साराय्य यह है कि कृति शालानी लगे नामने जेस मेंन, रजेरक, जोटनायी, पानी, पिठुत उपवास्य तावनीयी जान्ववार्थ लाति अपने जाम में महत्वपूर्ण है जीन एक कुल्ले से युराल बी, पान्चु इन बीसी वा स्थल स्टोपिर पाना जात है।

प्रभ मुंगते संपर्भ पूराने तीय के सबल पर प्रभा गुणवलागुवल प्रमाणित क्षेत्रा की पूर्वत करता है तो जसे मांग प्रतिस्थापन कारते हैं। वीज के पाल की पुष्टितन रखता तुए एक आयसका है कि स्वयरागित मजाते जैसे-लेड्, चान, व्हे, मजा, मटा, मट्ट, मूंग, उर्द आहि कर तील प्रलेश सांग को क बदलकर बुघतों करनी चाहिए। ताव ही साथ करति प्रतान प्रतीन प्रेतन प्रकार, चुववमुंगी अखर, क्यांस, रही/सरवो/लेखित व्हावि मजाल का बीच प्रत्योग तीम वर्ष पा बदलका बुंधवें करनी भारिए। किस्टन्द द्वारा तावा गुम्प्राक्ष के तीम के तुपति करने पर प्रति इकाई प्रवर्त में बस्यादन में सामान्य बीज ने मुंगई करने पर प्राप्त करवात को संबंधा लगभन 20 प्रतिस्थ की द्वीद होती है। मोज निम्म प्रवर्तन के तीम है –

1.	प्रजन्मका बीधन
2	साधारीय सेथा
1.200	(व) आधारीय कींज प्रचन
	 (ii) आध्रारीय बीचा डितीप
12	प्रमणित बीच
4	संस्वापित बीज
1.70	भूषि क्षेत्र में इतित काणित के साथ ही सीती
1 to a	म्मलों और खेटी में अच्छे जेक की प्राय समय

कृषि क्षेत्र में हरित कार्नित के स्वथ ही कीतों से गुण निवालन की खावाववता तानुमव की गुवी है। प्रसालों भी खेटी में अपने मेंचा की पांच नामरता लाती है। में प्रसाले मुख्यता पुस्त कर उल्पन मेंचन की प्रवस्था तक पहुंचने के पूर्व है, रूपने में प्रताल कर सी जाती है। अपने विदालन के लिए अपने मुख्यत्वा का बीज तोने से 15-20 प्रतितल जीविक विवालन का सोने है। अपनि की स्वतन्त किसान जुलना में प्रथमित कींज तोने से 15-20 प्रतितल जीविक विवालन का सोने है। अपनि ही स्वतन्त किसान

