

ANNUAL ACTION PLAN

2010-11



**JAWAHAR LAL NEHRU KRISHI VISHWA VIDHYALAYA
KRISHI VIGYAN KENDRA, TIKAMGARH (M.P.)**

ACTION PLAN PERIOD – Rabi 2009-10, Kharif 2010 and Rabi 2010-11

Details of Adopted village (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)
Tikamgarh	Pahari-Tilwaran	2009-10	Tikamgarh	10	7001	821
Tikamgarh	Dhajarai	2010-11	Tikamgarh	15	521	210
Tikamgarh	Hanumansagar	2009-10	Tikamgarh	09	520	169
Tikamgarh	Basgoi	2010-11	Tikamgarh	15	654	154
Tikamgarh	Bhopalpura	2009-10	Prathivipur	65	1230	254
Tikamgarh	Sagoni	2010-11	Tikamgarh	20	1001	233
Tikamgarh	Devpur	2009-10	Tikamgarh	15	560	156
Tikamgarh	Jamdar	2009-10	Tikamgarh	10	850	210

THRUST AREA IDENTIFIED BY KVKs (Approved by competent Authority in meetings/workshop)

KVK Name	THRUST AREA
Tikamgarh	Paddy (i) Replacement of old varieties, (ii) Integrated Nutrient management (iii) Integrated Weed management
Tikamgarh	Jowar: (i) Introduction of Hybrid/ High yielding varieties
Tikamgarh	Soybean: (i) Imbalance dose of fertilizers (ii) Insect Pest incidence (iii) Weed infestation
Tikamgarh	Sesame: (i) Replacement of old varieties and enhancement of seed replacement rate
Tikamgarh	Black gram: High yielding yellow vein mosaic resistant varieties
Tikamgarh	Wheat: (i) Balance dose of fertilizers (ii) Weed Management
Tikamgarh	Gram: (i) Management of <i>Helicoverpa armigera</i> , Wilt

Tikamgarh	Mustard: (i) Fertilizer Management (ii) Aphid Management (iii) High yielding variety
Tikamgarh	Potato: (i) Adequate fertilizer (ii) Plant Protection (iii) Value addition and processing
Tikamgarh	Chilli: (i) Disease management (ii) Introduction of hybrid/ High yielding variety (iii) Integrated nutrient management
Tikamgarh	Ginger: (i) Seed replacement (ii) Integrated Disease management
Tikamgarh	Ber: (i) Rejuvenations of old plant Local varieties and value addition
Tikamgarh	Papaya, Mango and Guava: Varietals performance and Value addition
Tikamgarh	Live Stock: (i) Disease management (ii) Green Fodder (iii) Breed improvement (iv) Stall feeding, Fodder production

PROBLEM IDENTIFIED BY KVKs (Approved by competent Authority in meetings/workshop)

KVK Name	Problems identified
Tikamgarh	Low yield of crops
Tikamgarh	Unavailability of quality seeds/varieties
Tikamgarh	Indiscriminate use of pesticides
Tikamgarh	Imbalance use of fertilizers
Tikamgarh	Low yield of vegetables
Tikamgarh	Low yield of fruits crops
Tikamgarh	Low yield of spices
Tikamgarh	Degradation of resources
Tikamgarh	Nutritional insecurity ,Low income and high drudgery of farm women
Tikamgarh	Low income due to lack of value addition
Tikamgarh	Low efficiency of farm machinery
Tikamgarh	Low soil fertility
Tikamgarh	Low milk production due to non-descriptive animals
Tikamgarh	Low efficiency in information delivery of information technology

REPORTING PERIOD – KHARIF 2008 and RABI 2008-09

1. Summery of TECHNICAL ACHIEVEMENTS

Table 1.1: Details of target of mandatory activities by KVK 2009-10 (Season based activity like OFT, FLD, Seed – Reporting period is Rabi 2009-10; Kharif 10 and Rabi 2010-11; for training and others – Reporting Period from October, 2009 to September, 2010)

KVK Name	Activity	Target	
		Number of activity taken	Number of farmers/ beneficiaries
Tikamgarh	OFTs	20	115
Tikamgarh	OFT converted to FLDs	20	115
Tikamgarh	FLDs – Oilseeds (activity in ha)	10	24
Tikamgarh	FLDs – Pulses(activity in ha)	10	24
Tikamgarh	FLDs - Cotton(activity in ha)	-	-
Tikamgarh	FLDs – Other than Oilseed and pulse (activity in ha/ unit if taken in Enterprise)	14	150
Tikamgarh	1. Training-Farmers and farm women	82	1640
Tikamgarh	2. Training-Rural youths	06	120
Tikamgarh	3. Training- Extension functionaries	10	200
Tikamgarh	Extension Activities	147	11980
Tikamgarh	Seed Production (Number of activity is as seeds in quintal)	540	-
Tikamgarh	Planting material ((Number of activity is as number of planting material)	9000	400

Table 1.2: Abstract of interventions to be taken during October, 2009 to March, 2011

KVK name	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
Tikamgarh	Integrated disease management	Gram	Low yield (12%) due to heavy incidence of wilt	Assessment of Integrated Management of wilt in gram	-	-	-	Meeting/Discussion	Seed/ fungicides
Tikamgarh	Crop management practices	Gram	Low yield (12%) due to heavy incidence of wilt, Imbalance use of fertilizers, Old varieties, Heavy infestation of pod borer	-	Demonstration of gram production technology	IPM in gram	Production technology of gram	Meeting/Discussion	Seeds/fertilizers
Tikamgarh	Integrated disease management	Okra	Low (26%) yield due to heavy incidence of YMV(affected area 300 ha)	Assessment of okra variety VRO-6	-	YMV management	-	Meeting/Discussion	Seeds/fertilizers
Tikamgarh	Crop management practices	Onion	High planting density resulting small size of bulb	Assessment of Planting geometry in Rabi onion	-	Production technology of onion	-	Meeting/Discussion	Seeds
Tikamgarh	Malnutrition	Farm women	Mal-nutrition among children and farm women due to unavailability of functional fruits and vegetables at household level	Assessment of food and nutritional insecurity of farm women	-	Preparation and development of backyard nutritional kitchen garden	-	Meeting/Discussion	Seeds/saplings
Tikamgarh	Crop management practices	Sesame	Low economic return from summer moong due to heavy incidence of YVM	Assessment of Sesame in summer season	-	Production technology of sesame	-	Meeting/Discussion	Seeds/fertilizers
Tikamgarh	Variety replacement	Soybean	Yield reduction (35%) due to moisture stress at flowering and grain formation stage and early withdrawal of rainfall	Assessment of soybean variety JS 95-60	-	Production technology of soybean	-	Meeting/Discussion	Seeds

Tikamgarh	Resources conservation	Soybean	Yield reduction (21%) due to broadcasting method of sowing and erratic rainfall pattern in medium black soils	-	Demonstration of ridge and furrow method of sowing in soybean	Production technology of soybean	Production technology of soybean	Meeting/Discussion	Seeds
Tikamgarh	Crop management practices	Soybean	Low Yield (55%) due to improper sowing method, imbalance use of fertilizer and indiscriminate use insecticides.	-	Demonstration of production technology	Demonstration of production technology	-	Meeting/Discussion	Seeds/fertilizers
Tikamgarh	Integrated pest management	Soybean	Yield reduction (35%) due to infestation of girdle beetle, semiloopers, sporodeptera and stem fly	Assessment of Integrated Pest Management in soybean	-	Integrated pest management in soybean	-	Meeting/Discussion	Seeds/insecticides
Tikamgarh	Varietal replacement	Maize	Low (416 kg/ha) yield of maize due to adoption of long duration degenerated maize varieties)	Assessment of maize variety JM-12	-	Production technology of maize	-	Meeting/Discussion	Seeds
Tikamgarh	Integrated diseases management	Ginger	Yield reduction (37%) due to incidence of soft rot in ginger	Assessment of Integrated Management of soft rot in ginger	-	Integrated diseases management in ginger	-	Meeting/Discussion	Seeds/fungicides
Tikamgarh	Integrated nutrient management	Ginger	Low yield (4 t/ha) due to no use of balance fertilizers (NPK)	-	Demonstration on integrated nutrient management	Integrated nutrient management in ginger	-	Meeting/Discussion	Rhizome/fertilizers
Tikamgarh	Crop management practices	Bottle guard	Low (25%) yield due to more male flower	Assessment of growth regulator NAA in bottle guard	-	-	-	Meeting/Discussion	NAA/seeds
Tikamgarh	Integrated pest management	Mustard	Yield reduction (30%) due to aphid infestation in mustard	Assessment of Integrated Management of aphid in mustard	-	-	-	Meeting/Discussion	Insecticides/seeds
Tikamgarh	Crop management practices	Mustard	Low Yield (50%) due to imbalance dose of fertilizer and indiscriminate use of insecticide	-	Demonstration of production technology of mustard	Production technology of mustard	-	Meeting/Discussion	Fertilizers/seeds

Tikamgarh	Varietal replacement	Wheat	Low yield (13 q/ha) due to old variety under limited irrigation condition	Assessment of wheat variety JW 3173	-	Production technology of wheat	-	Meeting/Discussion	seeds
Tikamgarh	Value addition	Ber	Low income of farm women due to no value addition of Ber	Assessment of value addition in Ber for income generation	-	Value addition in Ber	-	Meeting/Discussion	Preservative/packaging materials
Tikamgarh	Drudgery reduction	Farm women	High drudgery and low efficiency of farm women involved in maize shelling manually	Assessment of Maize Sheller for drudgery reduction and efficiency enhancement of farm women involved in maize shelling.	-	Training on drudgery reduction in farm women	-	Meeting/Discussion	Maize sheller
Tikamgarh	Malnutrition	Farm women	Food & nutritional insecurity of farm women due to unavailability of functional fruit & vegetables at household level	Assessment performance of backyard nutritional kitchen garden.	-	Training on nutritional kitchen gardening	-	Meeting/Discussion	Hybrid seeds/saplings/plants
Tikamgarh	Disease management	Live stock	Low milk production due to endo and ecto parasite infestation	Assessment of composite dewormer for endo and ecto-parasite in the milch animal	-	-	-	Meeting/Discussion	HITEK Bolus
Tikamgarh	Nutritional management	Live stock	Do not use green fodder+ concentrate(balance ration) to pregnant cows and buffaloes which resulting dystokia ROP/poor calves body weight post parturient problem and ultimate low milk production	Assessment of feeding balance ration in pregnant cows and buffaloes	-	Training on health management of animals	-	Meeting/Discussion/motivation and persuasion	Mineral mixture

Tikamgarh	Technology dissemination through BIGs/FIGs	Farmers	Low house hold income due to unorganized agriculture based entrepreneurship by the farmers.	Assessment of the effect of group approaches through farmers (BIGs / FIGs)	-	Training to farmers	-	Meeting/Discussion/motivation and persuasion	Seedlings/Literature
Tikamgarh	Varietal replacement	Chilli	Low yield (50 q/ha) of chilli due to local old variety (affected area 300 ha)	-	Demonstration of hybrid chilli	Production technology of hybrid chilli	-	Meeting/Discussion/motivation and persuasion	Seedlings/insecticides
Tikamgarh	Integrated disease management	Chilli	Reduction (40%) in yield due to heavy incidence of viral disease	-	Demonstration on integrated management of viral disease of chilli	Training on integrated management of viral disease of chilli	-	Meeting/Discussion/motivation and persuasion	Seedlings/insecticides
Tikamgarh	Varietal replacement	Tomato	Low yield (35%) due to local variety	-	Demonstration on production technology of tomato variety Kashi Amrit	Training on production technology of tomato	-	Meeting/Discussion/motivation and persuasion	Seedlings
Tikamgarh	Value addition	Tomato	Less return/ unit area due to lodging of plant, fruits come directly contact with the soil resulting rotting (35%) in fruits	-	Demonstration of stacking practices in tomato	Training on stacking of tomato	-	Meeting/Discussion/motivation and persuasion	Seedlings/bamboo Stick/rops/wires
Tikamgarh	Integrated pest management	Brinjal	Reduction(37%) in yield due to heavy infestation of fruit and shoot borer in brinjal,	-	Demonstration on integrated pest management in brinjal	Training on integrated pest management in brinjal	-	Meeting/Discussion/motivation and persuasion	Seedlings/ insecticides
Tikamgarh	Varietal replacement	Brinjal	Low yield due to old varieties- Bhatoi	-	Demonstration on Kashi Sandesh variety of brinjal	Training on production technology of brinjal	-	Meeting/Discussion/motivation and persuasion	Seedlings/ insecticides
Tikamgarh	Varietal replacement	Marigold	Low income of farm women due to use of local marigold variety - Tarru	-	Demonstration of improved variety of marigold	Training on production technology of marigold	-	Meeting/Discussion/motivation and persuasion	Seedlings/ fertilizers

Tikamgarh	Crop management practices	Black gram	Low yield (62%) due to imbalance use of fertilizer, local variety, no weeding	-	Demonstration production technology of black gram	Production technology of black gram	-	Meeting/Discussion/motivation and persuasion	Seeds/fertilizers
Tikamgarh	Resources management	Paddy	Low yield (900 Kg/ha) in traditional transplanting method due to less water availability under erratic rainfall pattern	-	Demonstration of SRI method of transplanting method of paddy	Training on production technology of paddy	-	Meeting/Discussion/motivation and persuasion	Seeds/seedlings
Tikamgarh	Farm machinery	Wheel hoe	Low efficiency and high time consuming during weeding of wheat	-	Demonstration of Efficiency of hand wheel hoe in wheat	Training on weeding	-	Meeting/Discussion/motivation and persuasion	Wheel hoe
Tikamgarh	Information technology	Need based Agricultural message	Low efficiency of existing rural information technology delivery system	-	Information technology i.e. Kisan Mobile Sandesh	Training to respondent on KMS	-	Meeting/Discussion/motivation and persuasion	Sandesh

2. OFT(to be conducted during Rabi 2009-10; Kharif 2010 and; Rabi 2010-11)

2..1 Basic information of the Technology taken by the KVK

KVK name	Year	Season	Category of technology (Assessment/Refinement)	Thematic area code	Title of OFT	OFT ID No* (to be create by the KVK)	Crop/Enterprise	No of trails (target)	Area in ha (target)
Tikamgarh	0909	02	Assessment	21	Assessment of Integrated Management of wilt in gram	090901	Gram	05	02
Tikamgarh	0909	02	Assessment	10	Assessment of okra variety VRO-6	090902	Okra	05	02
Tikamgarh	0909	02	Assessment	13	Assessment of Planting geometry in Rabi onion	090903	Onion	05	02
Tikamgarh	0909	02	Assessment	23	Assessment of food and nutritional insecurity of farm women	090904	Farm women	05	-
Tikamgarh	0910	03	Assessment	13	Assessment of Sesame in summer season	091005	Sesame	05	02
Tikamgarh	0910	01	Assessment	13	Assessment of soybean variety JS 95-60	091006	Soybean	05	02
Tikamgarh	0910	01	Assessment	20	Assessment of Integrated Pest Management in soybean	091007	Soybean	05	02
Tikamgarh	0910	01	Assessment	10	Assessment of maize variety JM-12	091008	Maize	05	02
Tikamgarh	0910	01	Assessment	21	Assessment of Integrated Management of soft rot in ginger	091009	Ginger	05	0.25
Tikamgarh	0910	01	Assessment	13	Assessment of growth regulator NAA in bottle guard	091010	Bottle guard	05	0.25

Tikamgarh	0910	02	Assessment	20	Assessment of Integrated Management of aphid in mustard	091011	Mustard	05	02
Tikamgarh	0910	02	Assessment	10	Assessment of wheat variety JW 3173	091012	Wheat	05	02
Tikamgarh	0910	02	Assessment	19	Assessment of value addition in Ber for income generation	091013	Ber	05	-
Tikamgarh	0910	02	Assessment	17	Assessment of Maize Sheller for drudgery reduction and efficiency enhancement of farm women involved in maize shelling.	091014	Farm women	05	-
Tikamgarh	0910	02	Assessment	23	Assessment performance of backyard nutritional kitchen garden.	091015	Farm women	05	-
Tikamgarh	0910	01	Assessment	53	Assessment of composite dewormer for endo and ecto-parasite in the milch animal	091016	Live stock	10	-
Tikamgarh	0910	01	Assessment	52	Assessment of feeding balance ration in pregnant cows and buffaloes	091017	Live stock	10	-
Tikamgarh	0910	02	Assessment	23	Assessment of the effect of group approaches through farmers (BIGs / FIGs)	091018	Farmers	20	-
Tikamgarh	0910	02	Assessment	53	Assessment of composite dewormer for endo and ecto-parasite in the milch animal	091019	Live stock	10	-
Tikamgarh	0910	01	Assessment	52	Assessment of feeding balance ration in pregnant cows and buffaloes	091020	Live stock	10	-

2.2 Details of Problems taken as OFT by the KVK

KVK name	Problem diagnose/defined	OFT ID No	Crop	Farmers' practice	Farming situation				Total Area (in ha) where crop affected by the problem taken in the OFT	Name of the block(s) under KVK where the problem occurs
					Soil type	Irrigation	Type of Cultivation (Low land/ Mid land/ Up land)	Cropping system		
Tikamgarh	Low yield (12%) due to heavy incidence of wilt	090901	Gram	No seed treatment	Heavy	Irrigated	Mid	Gram-Soybean	10000	Tikamgarh
Tikamgarh	Low (26%) yield due to heavy incidence of YMV(affected area 300 ha)	090902	Okra	Local variety	Medium	Irrigated	Upland	Okara-Mustard	300	Tikamgarh
Tikamgarh	High planting density resulting small size of bulb	090903	Onion	Closer spacing 10X05 cm	Medium	Irrigated	Mid land	Onion-Potato		Tikamgarh
Tikamgarh	Mal-nutrition among children and farm women due to unavailability of functional fruits and vegetables at household level	090904	Farm women	Backyard space treated as waste land/using old and poor yielder seeds of vegetable and fruits)	-	Irrigated	Mid land	-	80%	Tikamgarh

Tikamgarh	Low economic return from summer moong due to heavy incidence of YVM	091005	Sesame	Summer moong	Light	Irrigated	Upland	Sesame-Mustard	200	Tikamgarh
Tikamgarh	Yield reduction (35%) due to moisture stress at flowering and grain formation stage and early withdrawal of rainfall	091006	Soybean	Old variety JS-335	Heavy	Rainfed	Upland	Soybean-Mustard	20000	Tikamgarh
Tikamgarh	Yield reduction (35%) due to infestation of girdle beetle, semiloopers, sporodeptera and stem fly	091007	Soybean	Indiscriminate use of insecticides	Medium	Rainfed	Mid land	Soybean-Wheat	65%	Tikamgarh
Tikamgarh	Low (416 kg/ha) yield of maize due to adoption of long duration degenerated maize varieties)	091008	Maize	Local variety (Long duration)	Medium	Rainfed	Mid land	Maize-okra	1200	Tikamgarh
Tikamgarh	Yield reduction (37%) due to incidence of soft rot in ginger	091009	Ginger	No seed treatment, use of old variety	Light	Irrigated	Mid land	Ginger-cucurbits	52%	Prathivipur
Tikamgarh	Low (25%) yield due to more male flower	091010	Bottle guard	No use of growth regulator	Medium	Irrigated	Mid land	Vegetables-fellow	60%	Tikamgarh
Tikamgarh	Yield reduction (30%) due to aphid infestation in mustard	091011	Mustard	Indiscriminate use of insecticides	Medium	Irrigated	Upland	Soybean-mustard	75%	Tikamgarh
Tikamgarh	Low yield (13 q/ha) due to old variety under limited irrigation condition	091012	Wheat	Old variety (Loke-1)	Heavy	Irrigated	Mid land	Wheat-soybean	40000	Tikamgarh
Tikamgarh	Low income of farm women due to no value addition of Ber	091013	Ber	No value addition in Ber	-	-	-	Wheat-soybean	100%	Tikamgarh
Tikamgarh	High drudgery and low efficiency of farm women involved in maize shelling manually	091014	Farm women	Maize shelling manually (using deshi sickle)	-	-	-	Wheat-soybean	85%	Tikamgarh
Tikamgarh	Food & nutritional insecurity of farm women due to unavailability of functional fruit & vegetables at household level	091015	Farm women	Unplanned nutritional garden	-	-	-	-	80%	Tikamgarh

Tikamgarh	Low milk production due to endo and ecto parasite infestation	091016	Live stock	No treatment	-	-	-	-	60%	Tikamgarh
Tikamgarh	Do not use green fodder+ concentrate(balance ration) to pregnant cows and buffaloes which resulting dystokia ROP/poor calves body weight post parturient problem and ultimate low milk production	091017	Live stock	No stall feeding	-	-	-	-	85%	Tikamgarh
Tikamgarh	Low house hold income due to unorganized agriculture based entrepreneurship by the farmers.	091018	Farmers	Farmers are producing and selling their product on individual basis	-	-	-	-	65%	Tikamgarh
Tikamgarh	Low milk production due to endo and ecto parasite infestation	091019	Live stock	No treatment	-	-	-	-	60%	Tikamgarh
Tikamgarh	Do not use green fodder+ concentrate(balance ration) to pregnant cows and buffaloes which resulting dystokia ROP/poor calves body weight post parturient problem and ultimate low milk production	091020	Live stock	No stall feeding	-	-	-	-	85%	Tikamgarh

2.3 Details of solution taken for technology assessment/refinement by the KVK

KVK Name	OFT ID No	Details of technology selected	Source of technology	If refinement in the technology, give details of refinement over recommended practices
Tikamgarh	090901	Summer deep ploughing+crop rotation+seed treatment with T. viride @ 4g/Kg seed +Vitavax @ 1 g/Kg seed	JNKVV 2002	-
Tikamgarh	090902	YMV resistant variety VRO-6	IVRI 2003	-
Tikamgarh	090903	Spacing 15X 10 cm	JNKVV 2002	-
Tikamgarh	090904	Improved varieties (vegetables, fruits)+ vermi-compost	IVRI 2000	-
Tikamgarh	091005	Sesame variety JTS-306, duration-85 days, yield- 6 to 8 q/ha, suitable for summer season	JNKVV 2006	-
Tikamgarh	091006	Early maturity varieties (90 days) JS 95-60	JNKVV 2007	-
Tikamgarh	091007	Deep summer ploughing+ light trap + Bird percher @ 50/ha + one spray of Trizophos at 45 days @ 1000 ml/ha	JNKVV 2000	-

Tikamgarh	091008	JM-12 , Early maturing (95-100 days) yield – 35 q/ha	JNKVV 2000	-
Tikamgarh	091009	Deep summer ploughing+ soil solarization(use of black polythene sheet)+ seed treatment with <i>T. viridae</i> @ 6 g/kg of seed	IISR, Calicut 2002	-
Tikamgarh	091010	Induction of female flowers spray of NAA at 2 & 4 leaf stage @ 20 PPM	IVRI 2003	-
Tikamgarh	091011	Removal of affected twings + Imidachloroprid @ 5 ml/ 15 lit of water.	JNKVV 2002	-
Tikamgarh	091012	JW 3173(High yielder under limited irrigation condition.)	JNKVV 2008	-
Tikamgarh	091013	Value addition in Ber through development of Ber sharvat and gatagat. (Pulp + Sugar + Citric acid + preservative + color)	JNKVV 2004	-
Tikamgarh	091014	Mild steel sheet octagonal in shape four tapered fins which helps in shelling, Capacity – 27 Kg/hr, Cost – Rs.60/-	CIAE Bhopal 1998	-
Tikamgarh	091015	VEGETABLES (Okra-VRO-6, Brinjal, Chilli, Tomato, Bitterguard, Bottleguard, Spinach, Cauliflower) FRUITS (Papaya, Drumstick, Lime, Aonla, Custard apple)	ICAR 2005	-
Tikamgarh	091016	Ivermectin (HITEK Bolus) @ 2 bolus / animal / year	IVRI 2003	-
Tikamgarh	091017	Feeding balance ration i.e. dry fodder 6 Kg +green fodder 10 Kg + Digestible crude protein (CP 20%, TDN 70%) @ 1Kg/day, Mineral mixture @ 50g/day for two month before parturition	NDRI/NDDB 2000	-
Tikamgarh	091018	Formation of group, Members in each group 10-20	MYRADA Bangalore 2006	-
Tikamgarh	091019	Ivermectin (HITEK Bolus) @ 2 bolus / animal / year	IVRI 2003	-

Tikamgarh	091020	Feeding balance ration i.e. dry fodder 6 Kg +green fodder 10 Kg + Digestible crude protein (CP 20%, TDN 70%) @ 1Kg/day, Mineral mixture @ 50g/day for two month before parturition	NDRI/NDDB 2000	-
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2.4 Performance of the technology to be assesses/refined

KVK Name	OFT ID No	Parameter name	Unit of measurement for parameter
Tikamgarh	090901	Pod/plant	Nos.
Tikamgarh	090901	Disease incidence	%
Tikamgarh	090901	Yield	Kg/ha
Tikamgarh	090902	Fruits/plant	Nos.
Tikamgarh	090902	Disease incidence	%
Tikamgarh	090902	Yield	Kg/ha
Tikamgarh	090903	Size of bulb	Cm
Tikamgarh	090903	Bulb weight	gm
Tikamgarh	090903	Yield	Kg/ha
Tikamgarh	090904	Availability of vegetables& fruits	Month
Tikamgarh	090904	Body weight	Kg
Tikamgarh	090904	Yield	Kg/Plot
Tikamgarh	091005	Days to maturity	Days
Tikamgarh	091005	Capsules/plant	Nos.
Tikamgarh	091005	Yield	Kg/ha
Tikamgarh	091006	Days to maturity	Days
Tikamgarh	091006	Pods/plant	Nos.
Tikamgarh	091006	Yield	Kg/ha
Tikamgarh	091007	Infestation	%
Tikamgarh	091007	Pods/plant	Nos.
Tikamgarh	091007	Grain test weight	gm
Tikamgarh	091007	Yield	Kg/ha
Tikamgarh	091008	Days to maturity	Days
Tikamgarh	091008	Cobs/plant	Nos.
Tikamgarh	091008	Yield	Kg/ha
Tikamgarh	091009	Disease incidence	%
Tikamgarh	091009	Weight of rhizome/plant	gm
Tikamgarh	091009	Yield	Kg/ha
Tikamgarh	091010	Fruits/plant	Nos.
Tikamgarh	091010	Yield	Kg/ha
Tikamgarh	091011	Infestation	%
Tikamgarh	091011	Pods/plant	Nos.
Tikamgarh	091011	Grain test weight	gm

Tikamgarh	091011	Yield	Kg/ha
Tikamgarh	091012	Grain/ears	Nos.
Tikamgarh	091012	Test weight	gm
Tikamgarh	091012	Yield	Kg/ha
Tikamgarh	091013	Additional income	Rs./Kg
Tikamgarh	091014	Time required/100 cobs	Hr
Tikamgarh	091014	Physiological stress	Well/unwell
Tikamgarh	091014	Heart rate	Pulse/minute
Tikamgarh	091014	Energy expenditure	Calories
Tikamgarh	091015	Availability of vegetables& fruits	Month
Tikamgarh	091015	Body weight	Kg
Tikamgarh	091015	Yield	Kg/Plot
Tikamgarh	091015	Availability of vegetables& fruits	Month
Tikamgarh	091016	Helminthes(eggs)	%
Tikamgarh	091016	Body weight	Kg
Tikamgarh	091016	Milk yield	Liter/animal
Tikamgarh	091017	Lactation period	Days
Tikamgarh	091017	Calves body weight	Kg
Tikamgarh	091017	Milk yield	Litre/animal
Tikamgarh	091018	Formation group	Nos.
Tikamgarh	091018	Microfinance	Rs
Tikamgarh	091018	Livelihood Economic status	High/medium/low
Tikamgarh	091019	Helminthes(eggs)	
Tikamgarh	091019	Body weight	Kg
Tikamgarh	091019	Milk yield	Liter/animal
Tikamgarh	091020	Lactation period	Days
Tikamgarh	091020	Calves body weight	Kg
Tikamgarh	091020	Milk yield	Litre/animal

3. Frontline Demonstrations (to be conducted during Rabi 2009-10, Kharif 2010 and Rabi 2010-11)

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

List of technologies to be demonstrated during previous year and popularized during 2009-11 and recommended for large scale adoption in the district

KVK Name	Crop/ Enterprise	Year and season for conducted FLD	Thematic Area Code	Technology demonstrated	Details of popularization methods suggested to the Extension system	Horizontal spread of technology		
						Name of villages	No. of farmers	Area in ha
Tikamgarh	Soybean	Kharif 2008-09	13	JS-93-05 20 : 60 : 20 NPK kg/ha, + Rhizobium + PSB @ 20 g/kg of seed Tryzophos, 2-3 ml / lit of water	Training and demonstration	Judawan ,Patha Brijpura,Karmarai,Pahari-Tilwaran ,Surajpur ,Jamdar ,Devpur	2280	24000
Tikamgarh	Mustard	Rabi 2008-09	13	80:40:20 NPK kg/ha, + PSB @ 20 g/kg of seed Imidachloprid, 5 ml/ 15 lit of water	Training and demonstration	Judawan,Bamhori,Hanumansagar , Patha, Karmarai,Surajpur ,Kanti	650	1180
Tikamgarh	Blackgram	Kharif 2008-09	10	LBG-20	Training and demonstration	Judawan ,Bamhori , Brijpura,Rigora ,Karmarai ,Pahari Tilwaran ,Surajpur ,Charpuvan,Jamdar Devpur	600	8000
Tikamgarh	Gram	Rabi 2008-09	13	JG-11 Quinolphos 25 EC, 2-3 ml/lit of water + bird percher100/ha	Training and demonstration	Judawan ,Bamhori ,Hanumansagar ,Patha, Brijpura ,Rigora ,Heera Nagar ,Karmarai,Pahari Tilwaran,Surajpur ,Jamdar , Devpur	340	550

3.2 Details of FLDs to be implemented during Rabi 2009-10; Kharif 2010 and; Rabi 2010-11 (Information is to be furnished in the following two tables for each category i.e. cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops.)

KVK Name	Crop	Season	Year	Thematic area code	Name of the technology to be demonstrate	Detail description of the technology	Area (ha) to be proposed	No. of farmers/ Demonstration to be targeted			
								SC	ST	Others	Total
Tikamgarh	Chilli	Rabi	2009-10	10	Hybrid variety	Hybrid variety(Disha)	02	02	01	07	10
Tikamgarh	Tomato	Rabi	2009-10	10	Kashi Amarit	Kashi Amarit(High yielding)	02	02	01	07	10
Tikamgarh	Brinjal	Rabi	2009-10	10	Kashi Sandesh	Kashi Sandesh(High yielding)	02	02	01	07	10
Tikamgarh	Marigold	Rabi	2009-10	10	Pusa Narangi	Pusa Narangi	02	02	01	07	10
Tikamgarh	Mustard	Rabi	2009-10	13	Pusa Agarni	Pusa Agrani 80:40:20:30 NPKS kg/ha + Azoto + PSB @ 20g/ kg seed 1 spray Imidachloroprid @ 5 ml/15 lit of water	05	02	01	09	12

Tikamgarh	Gram	Rabi	2009-10	13	JG-130	JG-130 Seed treatment by <i>Tricoderma viride</i> @ 5g/kg seed + Deep ploughing, Early planting + Quinolphos 25 EC, 2-3 ml/lit of water + Bird percher 50/ha.	05	02	01	09	12
Tikamgarh	Soybean	Kharif	2010-11	13	JS-93-05	JS-93-05 Line sowing 20:60:20:30 NPKS kg/ha+ <i>Rhizo</i> + PSB @ 20 g/Kg Seed Deep Summer ploughing + 1 Spray of Trizophos at 40-45 DAS @ 1000ml/ha+ Light trap + Bird percher @ 50/ha.	05	02	01	09	12
Tikamgarh	Black gram	Kharif	2010-11	13	Azad-1	Azad-1 20:60:20:25 NPKS kg/ha.+ <i>Rhizo</i> + PSB @ 10g/kg seed+1 hand weeding at 20-25 DAS	05	02	01	09	12
Tikamgarh	Mustard	Rabi	2010-11	13	Pusa Agarni	Pusa Agarani 80:40:20:30 NPKS kg/ha + Azoto + PSB @ 20g/ kg seed 1 spray Imidachloroprid @ 5 ml/15 lit of water	05	02	01	09	12
Tikamgarh	Gram	Rabi	2010-11	13	JG-130	JG-130 Seed treatment by <i>Tricoderma viride</i> @ 5g/kg seed + Deep ploughing, Early planting + Quinolphos 25 EC, 2-3 ml/lit of water + Bird percher 50/ha.	05	02	01	09	12
Tikamgarh	Soybean	Kharif	2010	22	JS 93-05	Ridge and furrow method of sowing	10	05	02	18	25
Tikamgarh	Paddy	Kharif	2010	22	JR-201	SRI method 10 to 12 days old seedlings, one seedling per hill, spacing 25x25 cm	05	02	01	07	10
Tikamgarh	Brinjal	Kharif	2010	20	JB-64	Nipping of infested twinges / fruits, spray of Endosulfan 525g a.i./ha in 1000 lit. of water at 15 days interval	02	02	01	07	10
Tikamgarh	Tomato	Kharif	2010	19	Narendra Tomato-7	Stacking with Bamboo	02	02	01	07	10
Tikamgarh	Ginger	Kharif	2010	14	Suprabha	FYM @ 20 t/ha + 75:75:50 NPK kg/ha	02	02	01	07	10
Tikamgarh	Gram	Rabi	2010-11	20	JG-130	Pheromone trap + Bird perchers at 20	05	02	01	07	10

						feet distance in all over the field + Neem oil @ 10ml/lit. water + quanalphos @ 1.5ml/lit. of water					
Tikamgarh	Chilli	Rabi	2010-11	21	Chaman	Seed treatment with <i>T. viride</i> @ 1 kg/ha + spray of Imadachlopid @ 125 ml /ha + 1% spray of Sulphex	02	02	01	07	10
Tikamgarh	Marigold	Rabi	2010-11	10	Pusa Narangi	Improved variety (Pusa Narangi)	01	02	01	07	10
Tikamgarh	Chilli	Rabi	2010-11	10	Hybrid Chilli	Introduction of hybrid chilli	02	02	01	07	10
Tikamgarh	Tomato	Rabi	2010-11	10	Kashi Amarit	Improved variety-Kashi Amarit	02	02	01	07	10

Extension and Training activities under FLD

KVK Name	Crop*	Season	Year	Activity	No. of activities to be organized					
					Pre-sowing	Post-sowing	Mid season	Before harvest	After harvest	Total
Tikamgarh	Mustard	Rabi	2009-10	Field days	-	-	-	01	-	01
Tikamgarh	Mustard	Rabi	2009-10	Farmers Training	01	01	01	01	-	04
Tikamgarh	Mustard	Rabi	2009-10	Media coverage	-	-	01	-	01	02
Tikamgarh	Mustard	Rabi	2009-10	Training for extension functionaries	01	01	-	-	-	02
Tikamgarh	Gram	Rabi	2009-10	Field days	-	-	-	01	-	01
Tikamgarh	Gram	Rabi	2009-10	Farmers Training	01	01	01	01	-	04
Tikamgarh	Gram	Rabi	2009-10	Media coverage	-	-	01	-	01	02
Tikamgarh	Gram	Rabi	2009-10	Training for extension functionaries	01	01	-	-	-	02
Tikamgarh	Soybean	Kharif	2010	Field days	-	-	-	01	-	01
Tikamgarh	Soybean	Kharif	2010	Farmers Training	01	01	01	01	-	04
Tikamgarh	Soybean	Kharif	2010	Media coverage	-	-	01	-	01	02
Tikamgarh	Soybean	Kharif	2010	Training for extension functionaries	01	01	-	-	-	02
Tikamgarh	Black gram	Kharif	2010	Field days	-	-	-	01	-	01
Tikamgarh	Black gram	Kharif	2010	Farmers Training	01	01	01	01	-	04
Tikamgarh	Black gram	Kharif	2010	Media coverage	-	-	01	-	01	02
Tikamgarh	Black gram	Kharif	2010	Training for extension functionaries	01	01	-	-	-	02
Tikamgarh	Mustard	Rabi	2010-11	Field days	-	-	-	01	-	01
Tikamgarh	Mustard	Rabi	2010-11	Farmers Training	01	01	01	01	-	04
Tikamgarh	Mustard	Rabi	2010-11	Media coverage	-	-	01	-	01	02
Tikamgarh	Mustard	Rabi	2010-11	Training for extension functionaries	01	01	-	-	-	02
Tikamgarh	Gram	Rabi	2010-11	Field days	-	-	-	01	-	01
Tikamgarh	Gram	Rabi	2010-11	Farmers Training	01	01	01	01	-	04
Tikamgarh	Gram	Rabi	2010-11	Media coverage	-	-	01	-	01	02
Tikamgarh	Gram	Rabi	2010-11	Training for extension functionaries	01	01	-	-	-	02

*Activity (Column No 3) must be repeated for each crop

3.3 Details of FLD on Enterprises

(i) Farm Implements

KVK Name	Name of the implement	Crop	No. of farmers				Area (ha)	Name of Performance parameters/ indicators with unit of measurement (Performance indicator along with measurement unit should be separated by comma only and second performance indicator should be separated by semi-colon only)
			SC	ST	Others	Total		
Tikamgarh	Wheel hoe	Wheat	03	01	09	12	05	Labour required/ha,Nos;Weed biomass,Kg/ha

(ii) Livestock Enterprises

KVK Name	Name of Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Name of Performance parameters/ indicators with unit of measurement (Performance indicator along with measurement unit should be separated by comma only and second performance indicator should be separated by semi-colon only)
Tikamgarh	Cows	Cross bred	10	10	SNF,%;Fat,%;Lactation period,days;Milk yield,Litre/lactation
Tikamgarh	Buffaloes	Calves	15	15	Mortality,%;Body weight,%
Tikamgarh					
Tikamgarh					

(iii) Other Enterprises

KVK Name	Enterprise	Variety/ breed/ Species/others	No. of farmers to be targeted				Type of Units for demonstration (give details)	No. of Units to be Targeted	Name of Performance parameters/ indicators with unit of measurement (Performance indicator along with measurement unit should be separated by comma only and second performance indicator should be separated by semi-colon only)
			SC	ST	Others	Total			
Tikamgarh	Mushroom	-	-	-	-	-	-	-	
Tikamgarh	Apiary	-	-	-	-	-	-	-	
Tikamgarh	Sericulture	-	-	-	-	-	-	-	
Tikamgarh	Vermi compost	-	-	-	-	-	-	-	
Tikamgarh	KMS(Kishan Mobile Sandesh)	Need based messages of agricultural technologies	100	100	800	1000	-	1000	Effectiveness of source of IT,%;Understanding about messages,%;Requirement of sanded messages,%;Save the losses through applied messages,%