

ACTION PLAN OF KRISHI VIGYAN KENDRA JANJGIR – CHAMPA FOR THE YEAR 2009-10



**KVK JANJGIR- CHAMPA CHHATTISGARH
495668**

PROPOSED ACTION PLAN

From 01-10-2009 to 30-09-2010



KRISHI VIGYAN KENDRA

Janjgir- Champa (C. G.) – 494 334

INDIRA GANDHI KRISHI VISHWA VIDYALAYA, RAIPUR

ACTION PLAN OF KRISHI VIGYAN KENDRA FOR THE YEAR 2008-09

Name of KVK : Janjgir – Champa (C. G.)

1. Details of Operational area / Villages (2009)

Sl.No.	Taluk	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Janjgir	Janjgir	Mehada & Banahil	Rice	Delayed sowing/transplanting of paddy. Severe infestation of Stem borer & BPH in rice & white fly in vegetable .Further , rat become a major problem in rabi .More over in case of Disease - Blast& Sheath rot were reported in several parts of the village.	1. Replacement of sawarna variety with early medium to early duration varieties 2. Introduction and popularization of Hybrid rice. 3 .Crop diversification is urgently required . 4 .IPM for insect & rat for different crops grown in this area. 5 Lot of scope for farm mechanization@. 6.Increase in cropping intensity. 7.Balance fertilizer .

2. Priority thrust areas

Thrust area
<ul style="list-style-type: none"> • Thrust areas identified though PRA, Survey and other methods. <ul style="list-style-type: none"> ○ Delayed sowing/transplanting of paddy. ○ Replacement of Sawarna variety with early medium to early duration varieties ○ Introduction and popularization of Hybrid rice. • Scope of sericulture • Scope of bee keeping. • Crop intensification is urgently required. • Seed replacement rate is poor. • Imbalance application of major nutrient N:P:K. • Lack of credit facilities at time. • Major weeds like Sawma, Jungle rice & Nut sedge etc. <p>Lack of support price to the farmers.</p>

3. Technical Programmes

3.1 Abstract of interventions undertaken

S.	Thrust area	Crop/	Identified	Interventions
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No		Enterprise	Problem	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.
1.	Cropping system	Rice /Variety	Replacement of Swarna Variety of Paddy	3	20	20	6	12	
2.	Crop diversification		Imbalance Nutrient application	2		10	5	5	
3.	Mushroom	Variety	At present lack of awareness about suitable spawn.	1					
4.	Honey production					5	1	1	
5.	Bio- fertilizer and Bio-insecticide					5	4	1	
6.	FIM	Farm implement	Lack of primary ,Secondary tillage & harvesting implements.	2		20	2	4	
7.	Plant protection	Fungicides, Insecticides & Wilt resistance varieties.	Blast, Blight (paddy)& Wilt in solanaceous crops . Steam borer ,Gall midge & BPH are major insects of paddy.	5		20	2	2	

3.2.On-farm

Proposed On-farm Trials- 1 Rabi (2008-09)

1. Title of on-farm trials : Assessment of HYV of Wheat.
2. Problem diagnosed : Low yield of Wheat due to use of local varieties.
(Area 800... Productivity 11...q/a)
3. Thematic area: Crop Production
4. Details of technology selected for assessment : Recently released varieties of wheat GW 273 and GW 366 (Maturity 115 days).

Source of technology	Characteristic of technology/ variety/ product	Farming situation	No. of trials	Performance Indicator/parameter
IGAU (2000 & 2005)	GW 273 and GW 366 are the recently released Varieties of wheat (Maturity 115 days) , yielding ability 30-35 q/ha in the climatic condition of Chhattisgarh plains.	Midland Irrigated	04	1.No of ears/plant 2.Yield 3.BC ratio 4.Farmers reaction 5.Feedback

INDIRA G ANDHI KRISHI VISHWA VIDYALAYA, RAIPUR (CG).

Proposed On -farm trials -2 Rabi (2008 -09)

- 1.Title of on - farm trials : Assessment of improved implement for wheat sowing .
- 2.Problem diagnosed : Low yield of Wheat due to poor plant population and delay sowing
- 3.Thematic area : FIM
- 4.Details of technology selected for assessment : IGAU, Raipur

Source of technology	Characteristic of technology/ Variety / product	Farming situation	No. of trials	Performance indicator/ parameter
IGAU, Raipur (2004)	Sowing depth and plant population the major factor for good crop Zero Tillage fulfill the above requisites	Mid land / Low land Irrigated (Farmers generally used traditional farm implements)	04	1. Yield 2.B C ratio 3.Farmers reaction 4.Feedback

INDIRA GANDHI KRISHI VISHWA VIDYALAYA, RAIPUR (C.G.)

Proposed On -farm trials -3 (2008 -09)

1. Title : Assessment of eco friendly and effective product for control of bruchids on gram
2. Number of trail : 10
3. Problem identified : Gram seed stored for consumption as well as seed heavily damaged by bruchid .
4. Thematic area : PP
5. Details of technology selected for assessment : Will basil, Black Peppar, Sulphar ,

Source of technology	Characteristic of technology/variety/product	Farming situation	Performance indicator/parameter
IGKV (2007)	Wild basil @ 1 kg/ 100 kg seed Black Peppar @ 22g/100kg seed Sulphar (80WP) 22g/100kg seed	10 (storage places)	Reduction in damaged seed Cost benefit ratio Farmer reaction

Proposed On -farm Trials -4 (Kharif 2009)

- 1. Title of on -I Assessment of different insecticide for the control of stem borer & gall midge in Rice
- 2. Problem diagnose: Infestation of stem borer & gall midge in rice nursery stage. (Area under Paddy 2.49 lakh ... ha with productivity 20.73 ... q/h . Stem borer & gall midge affects the yield upto 26%.
- 3. Thematic area: P P
- 4. Details of technology selected for assessment: 1- farmers practices – without root dipping
2. R P- Seedling treatment by Chlorpyrifos 1 ml/Lt water.

Source of technology	Characteristic of technology/variety/product	Farming situation	No of trials	Performance indicator/parameter
IGKV (2003)	1. Success control of stem borer & gall midge by the application of Carbofuran 3G@ 2Kg/0.1 ha at nursery 10 days before transplanting. 2. Chorpyrifos 1ml/Lt water effectively controls the Stem borer and Gall midge.	Nursery area	5	No of affected seedling/15 sq cm
				Infestation per sq m 30 & 60 days after transplanting
				Yield
				BC Ratio
				Farmers Reaction
				Feed Back

Proposed On -farm Trials - 5 (Kharif 2009)

1. Title of On -farm Trials : Assessment of different herbicides in direct seeded rice
2. Problem Diagnose : Heavy yield loss due to Weed. (Area under Paddy.2.49 lakh.ha with productivity 20.73 ... q/a. Weed affects the crop severely and losses upto 30%)
3. Thematic Area: Weed Management
4. Details of Technology Selected for Assessment: 1.FP (HW) 2.Chemical Weed control.

Source of technology	Characteristic of technology/ variety/ product	Farming situation	No. of trials	Performance indicator/parameter
IGKV, Raipur (2004)	1.Butachlor / Pendimethaline @ 1 -1.5 a.i /ha. 2.Almix 20 g/ha.	Lowland	04	1. Weed density /Sq. Meter after 45 days 2. BC ratio 3. Farmers Reaction 4. Feedback

INDIRA GANDHI KRISHI VISHWAVIDYALAYA, RAIPUR (CG).

Proposed On-farm Trials -6 (Kharif 2009)

- 1. Title of on-farm trial: Performance of Paddy straw mushroom variety.
- 2. Problem diagnose: No awareness about nutrition value of mushroom
- 3. Thematic area: Introduction of Paddy straw Mushroom strain .
- 4. Details of technology selected for assessment/refinement: *Volveriella* spp. variety of Paddy straw mushroom.

Source of technology	Characteristic of technology/ variety/ product	Farming situation	No of trials	Performance indicator/parameter
IGKV (2007)	High yield & high nutrition quality of Paddy straw Mushroom (<i>Volveriella</i> spp).	Farmer s hut	4	Yield Farmers reaction Feedback

State level

Proposed on-farm Trials -7 (Kharif 2009)

1. Title of on-farm trial : Assessment of Oyster Mushroom Variety.
2. Problem diagnose : No awareness about nutrition value of mushroom.
3. Thematic area : Introduction of new Variety.
4. Details of technology selected for refinement : In year 2008 the OFT was conducted on Paddy Straw. In year 2009 the same OFT Should be replicated on Wheat straw & Paddy + Wheat straw.

Source of technology	Characteristic of technology / Variety/ Product	Farming Situation	Number of trials	Performance indicator/ Parameter
I G K V (2007)	High yield & high nutrition quality of Oyster Pleurotus Spp variety Indira Sweta .	Farmers hut	05	Yield
				Farmers Reaction
				Feed back

Proposed on – farm Trials – 8 (Kharif-2009)

1. **Title on- farm Trial : Assessment of Improved Farm Implements for rice sowing.**
2. **Problem diagnosed :** Due to increase in cost of cultivation with special reference to labour and time.
3. **Cropping system and thematic area : Rice / FIM**
4. Details of technology selected for assessment/ refinement
 1. **F P (Broad cast +Planking)**
 2. **I P (Indira Seed Drill +Paddy Weeder)**

Source of technology	Characteristic of technology / Variety/ Product	Farming Situation	Number of trials	Performance indicator/ Parameter
I G K V (2003)	The low input farm implements are economically cheaper and time saving	Mid land/ Low land Irrigated	04	Plant population
				Yield
				B : C ratio
				Farmers Reaction
				Feed back

Proposed on – farm Trials – 9 (Kharif-2009)

Title on- farm Trial : Assessment of Improved Bullock Drawn Biasi implements.

Problem diagnosed : In kharif nearly 60-80% area covered under direct seeded or lehi method.

Maintaining proper plant population and conservation of water are major constraint.

Cropping system and thematic area : FIM

Details of technology selected for assessment/ refinement

1. F P (Desahi plough)

2.

I P (Improved Bisai plough)

Source of technology	Characteristic of technology / Variety/ Product	Farming Situation	Number of trials	Performance indicator/ Parameter
N A T P (2003) (I G K V)	Economical concept, save energy and cost . During Biasi condition the plant mortality is higher then the improved practice.	Mid land/ Low land Irrigated	04	Field capacity , Energy consumption
				Plant population after and before biasi
				Yield , B : C ratio
				Farmers Reaction
				Feed back

Proposed on farm Trials 10 (kharif 2009)

1. **Title onfarm Trial :** Assessment of green manure practices on Paddy yield.

2. **Problem diagnosed :** Excess chemical nitrogenous fertilizer increase cost of cultivation as well as promote insect and disease incidence.

3. **Cropping system and thematic:area** Rice based & Nutrients management

4. **Details of technology selected for assessment/ refinement**

1. **F P :Imbalance fertilizer 2.75 %N through chemical fertilizer**

Source of technology	Characteristic of technology / Variety/ Product	Farming Situation	Number of trials	Performance indicator/ Parameter
IGKVV (2005)	For sustainable agriculture incorporation of organic matter essential . 75 % = Chemical Fertilizer and through green manure chop	Mid land/ Low land Irrigated	04	Initial NPK & O.M of soil.
				No of tillers.
				Yield.

3.3 Frontline Demonstrations

3.3.1 Follow-up for results of FLDs implemented during previous years

List of technologies demonstrated during previous year and popularized during 2008 and recommended for large scale adoption in the district

S. No	Thematic Area*	Technology demonstrated	Details of popularization methods suggested to the Extension system	Horizontal spread of technology		
				No. of villages	No. of farmers	Area in ha
Crop production	Line sowing, Improved varieties and balance fertilization	Improved varieties, date of sowing	The training should be organized in advance and the list of farmers interested to adopt the package & practices shall be finalized.	10	250	125

* Thematic areas as given in Table 3.1 (A1 and A2) of Annual Report Performa

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

FLD on Oilseed

Sl. No.	Season	Crop	Variety			Farming Situation
			Name	Year of release	Characteristic of the variety	
1.	Rabi 09-10	Sunflower	DRSH -1	DOR,Hy d ,2003	High yielding and black rot resistance	Upland / Mid land
2.	Rabi 09-10	Mustard	Chhatt isgarh sarso			
2.	Kharif 09	G.Nut				

Season	Crop	Thematic area	Technology to be demonstrate	Proposed Area (ha)	No of beneficiaries
Rabi 08-09	sunflower	CRS &INM	Balance fertilizer & high yielding variety .	5	12
Rabi 08-09	Mustard			5	12
Kharif 09	Sesamum	CRS &INMdo.....	5	14
Kharif 09	G.Nut			5	12

3.3.3 Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1	Field days	2			
2	Farmers Training	6			
3	Media coverage	6			
4	Training for extension functionaries	2			

FLD on Pulse

Sl. No.	Season	Crop	Variety			Farming Situation
			Name	Year of release	Characteristic of the variety	
1.	Rabi 09-10	Gram			High yielding and black rot resistance	Upland / Mid land
2.	Kharif 10	Arhar				

Season	Crop	Thematic area	Technology to be demonstrate	Proposed Area (ha)	No of beneficiaries
Rabi 09-10	Gram	CRS &INM	Balance fertilizer & high yielding variety .	5	12
Kharif 10	Arhar	CRS &INMdo.....	5	12

3.3.4 Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1	Field days	2			
2	Farmers Training	6			
3	Media coverage	6			
4	Training for extension functionaries	2			

FLD on cereals

Sl. No.	Season	Crop	Variety			Farming Situation
			Name	Year of release	Characteristic of the variety	
1.	Rabi 09-10	Wheat			High yielding and black rot resistance	Upland / Mid land
2.	Kharif 10	Maize				

Season	Crop	Thematic area	Technology to be demonstrate	Proposed Area (ha)	No of beneficiaries
Rabi 09-10	Wheat	CRS &INM	Balance fertilizer & high yielding variety .	5	12
Kharif 10	Maize	CRS &INMdo.....	5	14

3.3.5 Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1	Field days	2			
2	Farmers Training	6			
3	Media coverage	6			
4	Training for extension functionaries	2			

3.3.5 Proposed Training Programmes (Including the sponsored and FLD training programmes):

A) ON Campus

(A) Extension Personnel					
Productivity enhancement in field crops	1	1	1	1	04
Integrated Pest Management	1	1	1	1	04
Integrated Disease Management	1	1	1	1	04
Integrated Nutrient management	1	1	1	1	04
Mushroom -cultivation	1	1	0	0	02
Any other (Pl. Specify) FIM	1	1	1	1	04
TOTAL	6	6	5	5	22

B) ON Campus

(A) Farmers & Farm Women					
Productivity enhancement in field crops	1	1	1	1	04
Integrated Pest Management	1	1	1	1	04
Integrated Disease Management	1	1	1	1	04
Integrated Nutrient management	1	1	1	1	04
FIM	1	1	1	1	04
Mushroom- cultivation	1	1	1	1	04
Any other (Pl. Specify)					
TOTAL	6	6	6	6	24

(C) OFF Campus

Thematic Area	No. of trainings to be conducted				Total Nos of Training
	I Quarter	II Quarter	III Quarter	IV Quarter	
(A) Farmers & Farm Women					
I Crop Production					
Weed Management	1	1	1	1	4
Resource Conservation Technologies	0	0	0	0	0
Cropping Systems	1	1	1	1	4
Crop Diversification	0	0	0	0	0
Integrated Farming	1	1	1	1	4
Water management	1	1	1	1	4
Seed production	0	0	0	0	0
Nursery management	2	1	0	0	3
Integrated Crop Management	1	1	1	1	4
Fodder production	0	1	0	0	1
Production of organic inputs					
II Horticulture					
a) Vegetable Crops					
Production of low value and high value crops	0	0	0	0	0
Off-season vegetables	0	0	0	0	0
Nursery raising	1	1	1	1	4
III Soil Health and Fertility Management					
Soil fertility management	0	0	1	1	2
VI Agril. Engineering					
Installation and maintenance of micro irrigation systems	1	1	1	1	4
Use of Plastics in farming practices					
VII Plant Protection					
Integrated Pest Management	1	1	1	1	4
Integrated Disease Management	1	1	1	1	4
VIII Fisheries					
Integrated fish farming					
Carp breeding and hatchery management					
XII Others (Pl. Specify)					
TOTAL					
(B) RURAL YOUTH					
Mushroom Production Techniques	3	3	3	3	12
Bee-keeping	0	0	0	0	00
Integrated farming					
Seed production					
Rural Crafts					
TOTAL	14	14	14	14	56

D) Consolidated table (On and Off Campus)

Thematic Area	No. of trainings to be conducted				No. of trainings to be conducted
	I Quarter	I Quarter	I Quarter	I Quarter	
(A) Farmers & Farm Women					
I Crop Production	7	7	7	7	28
II Horticulture					
a) Vegetable Crops	1	1	1	1	04
b) Fruits					
III Soil Health and Fertility Management	0	0	1	1	02
IV Livestock Production and Management					
V Home Science/Women empowerment					

Thematic Area	No. of trainings to be conducted				No. of trainings to be conducted
	I Quarter	I Quarter	I Quarter	I Quarter	
VI Agril. Engineering	4	4	4	4	16
VII. Integrated Pest Management	1	1	1	1	04
TOTAL					
(B) RURAL YOUTH					
Mushroom Production	3	3	3	3	12
Bee-keeping	1	1	1	1	04
Integrated farming					
TOTAL					
(C) Extension Personnel					
Productivity enhancement in field crops	1	1	1	1	04
Integrated Pest Management	1	1	1	1	04
Integrated Nutrient management	1	1	1	1	04
TOTAL	20	20	21	21	82

(E) Vocational training programmes for Rural Youth to be conducted during 2009-10

Crop / Enterprise	Identified Thrust Area	Training title	Month

* Training title should specify the major technology /skill transferred

(E) Sponsored Training Programmes to be conducted during 2009-10

Sl. No	Title	Thematic area	Month	Duration (days)	Client	No. of courses to be proposed
					PF/RV /EF	
1.	Farmers / Field officers - Need based technical empowerment through NABARD.	Training and diagnostic survey				
2.	Farmers / Field officers - Need based technical empowerment through IFFCO .	-----do -				
3.	Farmers / Field officers - Need based technical empowerment through KRIBCO.	-----do -				
4.	Farmers / Field officers - Need based technical empowerment through NGOs.	-----do -				
5.	Farmers / Field officers - Need based technical empowerment through AGRICULTURE DEPARTMENT.	-----do -				
6.	Farmers / Field officers – Need based technical empowerment through DISTRICT PANCHAYAT	-----do -				

7.	Farmers / Field officers – Need based technical empowerment through LINE DEPARMENTS.	-----do -				
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3.3.6. Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities				Total number of activities	Expected no of beneficiaries
	Q I	Q II	Q III	Q IV		
Field Day	3	3	0	0	6	700
Kisan Mela	1	1	0	0	2	500
Kisan Ghosthi	3	3	3	3	12	100
Exhibition	0	0	0	0	0	
Film Show including 44 film CD	5	5	5	5	20	300
Method Demonstrations	1	1	1	1	4	100
Farmers Seminar	1	1	1	1	4	200
Workshop	0	0	0	0	0	
Group meetings	1	1	1	1	4	
Lectures delivered as resource persons	3	3	3	3	12	300
Newspaper coverage	10	10	10	10	40	
Radio talks	4	4	4	4	16	
TV talks	1	1	1	1	04	
Popular articles	5	5	5	5	20	
Extension Literature	1	1	1	1	04	
Advisory Services	5	5	5	5	20	
Scientific visit to farmers field	10	10	10	10	40	
Farmers visit to KVK	300	300	300	300	1200	
Diagnostic visits	10	10	10	10	40	
Exposure visits	1	1	1	1	04	
Celebration of important days (specify)	1	1	1	1	04	
Any Other (Specify)						
Total	363	363	362	362	1450	1500

3.3.7 Production and supply of Technological products

A. Seed to be produced in kvk instructional farm

Season	Category	Crop	Variety	Approx. Quantity (qtl.)
	CEREALS	Paddy	MTU1010,Mahamaya,samleswari & IR-64	500
	OILSEEDS	Arhar &	Laxmi	10
	PULSES	Mustard & safflower	JSF-i	50
	VEGETABLES			

Planting materials to be produced

Season	Category	Crop	Variety	Approx. Quantity (Nos.)
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BIO PRODUCTS TO BE PRODUCED DURING 2008-09

Sl. No.	Product Name	Species	Approximate. Quantity to be produced	
			No	(kg)
	BIOAGENTS			
1				
	BIOFERTILIZERS			
1				
	BIO PESTICIDES			

3.2.On-farm

ON Farm Trial No 1

1. Title : Assessment of information technology through “Kisan Mobile Sandesh.” (KMS)
2. Problem identified :Low efficiency of existing rural information delivery system.
3. Source of technology : JNKVV, 2007
4. Thematic area : Information Communication Technology

Source of technology	Characteristic of technology/ variety/product	Farming situation	Performance indicator/parameter
JNKVV, 2007	ICT based alternate rural information delivery system through KMS.	-	1. Understanding of the message 2. Need & time based information 3. Applicability of the messages 4. Impact of Technology (channel)

Proposed on-farm trials -2 Rabi (2009-10)

1. Title of on-farm trials : Assessment of Yield of Safflower under rainfed condition .
2. Problem diagnosed : Low yield of Wheat due to use of local varieties.
(Area 800. . . . productivity 11q/a)
3. Thematic area : Crop Production.
4. Details of technology selected for assessment : Recently released varieties of Wheat GW- 273 and GW- 366 (Maturity 115 days)

Source of technology	Characteristic of technology/ variety/product	Farming situation	No. of trials	Performance indicator/parameter
IGAU (2000 & 2005)	.	Medium & Irrigated	04	1. No. of ears/plan 2. Yield 3. B C Ratio 4. Farmers reaction 5. Feedback

INDIRA GANDHI KRISHI VISHWA VIDYALAYA RAIPUR (C.G.)

Proposed on-farm trials -2 Rabi (2009-10)

1. Title of on-farm trials : Assessment of improved implements for Wheat sowing.
2. Problem diagnosed : Low yield of Wheat due to poor plant population and delay sowing.
3. Thematic area : FIM
4. Details of technology selected for assessment : IGAU, Raipur.

Source of	Characteristic of	Farming	No. of	Performance
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technology	technology/ variety/product	situation	trials	indicator/parameter
IGAU, Raipur	Sowing depth and plant population are the major factor	Mid land/Low land Irrigated	04	1. Yield 2. B C Ratio 3. Farmers reaction 4. Feedback

INDIRA GANDHI KRISHI VISHWA VIDYALAYA RAIPUR (C.G.)

Proposed on-farm trials -5 (Kharif 2010)

1. Title of on-farm trials : Assessment of different herbicides in direct seeded rice.
2. Problem diagnosed : Heavy loss due to Weed. (Area under paddy 2.49 lakh ha with productivity 20.73 q/ha Weed affects the crop severely and losses upto 30%).
3. Thematic area : Weed management .
4. Details of technology selected for assessment : 1. FP (HW) 2. Chemical Weed control.

Source of technology	Characteristic of technology/ variety/product	Farming situation	No. of trials	Performance indicator/parameter
IGKV, Raipur (2004)	1. Butachlor/ Pendimethaline @1-1.5 a.i./ha. 2. Almix 20g/ha.	Lowland	04	Weed density/Sq meter after 45 days
				B. C. ratio
				Farmers reaction
				Feedback

INDIRA GANDHI KRISHI VISHWA VIDYALAYA RAIPUR (C.G.)

Proposed on-farm trials -6 (Kharif 2009)

1. Title of on-farm trials : Performance of Paddy straw mushroom variety.
2. Problem diagnosed : No awareness about nutrition value of mushroom
3. Thematic area : Introduction of Paddy straw strain.
4. Details of technology selected for assessment/refinement : Volveriella spp. variety of Paddy straw mushroom.

Source of technology	Characteristic of technology/ variety/product	Farming situation	No. of trials	Performance indicator/parameter
IGKV, Raipur	High yield % high nutrition quality of	Farmers hut	04	Yield

(2007)	Paddy straw Mushroom (Volvariella spp.)			Farmers reaction
				Feedback

State Level

Proposed on-farm trials -7 (Kharif 2009)

1. Title of on-farm trials : Assessment of Oyster Mushroom variety mushroom variety.
2. Problem diagnose : No awareness about nutrition value of mushroom.
3. Thematic area : Introduction of new straw.
4. Details of technology selected for assessment/refinement : Indira Swata variety of Oyster Mushroom. In Kharif 2008 such OFT conducted by Paddy straw. I will use Wheat straw and the mixture of Wheat and Paddy straw for better performance of Oyster Mushroom production.

Source of technology	Characteristic of technology/ variety/product	Farming situation	No. of trials	Performance indicator/parameter
IGKV, Raipur (2007)	High yield % high nutrition quality of Oyster Pleurotus Spp species variety Indira Swata.	Farmers hut	05	Yield
				Farmers reaction
				Feedback

State Level

Proposed on-farm trials -8 (Kharif 2009)

1. Title of on-farm trials : Assessment of Improved Bullock Drown Biasi implements.
2. Problem diagnosed: In Kharif nearly 60-80% area covered under direct seeded or lehi method. Maintaining proper plant population and conservation of water are major constraint.
3. Cropping system and thematic area : FIM.
4. Details of technology selected for assessment/refinement :
 1. F P (Desahi plough)
 2. I P (Improved Biasi plough)

Source of technology	Characteristic of technology/ variety/product	Farming situation	No. of trials	Performance indicator/parameter
NATP (2003) IGKV	Economical concept, save energy and cost. During Biasi condition the plant mortality is higher then the improved practice.	Mid land / Low land Irrigated	04	Field capacity Energy consumption
				Plant population after and before biasi
				Yield, B. C. ratio
				Farmers Reaction
				Feed back

Proposed on-farm trials -9 (Kharif 2009)

1. Title of on-farm trials : Assessment of Improved Farm Implements for rice sowing.
2. Problem diagnosed : Due to increase in cost of cultivation with special reference to labour an time.
3. Cropping system and thematic area : Rice/FIM.
4. Details of technology selected for assessment/refinement :
 1. F P
 2. I P (Indira Seed Drill+ Paddy Weeder)

Source of technology	Characteristic of technology/ variety/product	Farming situation	No. of trials	Performance indicator/parameter
I G K V (2003)	The low input farm implements are economically cheaper and time saving.	Mid land / Low land Irrigated	04	Plant population after and before biasi
				Yield
				B. C. ratio
				Farmers Reaction
				Feed back

Proposed on-farm trials -10 (Kharif 2009)

1. Title of on-farm trials : Assessment of green manure performance in Rice cultivation.
2. Problem diagnosed: Excess chemical nitrogenous fertilizer increase cost of cultivation as well as insect population.
3. Cropping system and thematic area : Rice based & Nutrients management.
4. Details of technology selected for assessment/refinement :
 1. F P : Imbalance fertilizer
 2. 75% N through chemical fertilizer.

Source of technology	Characteristic of technology/ variety/product	Farming situation	No. of trials	Performance indicator/parameter
IGKV (2005)	For sustainable agriculture incorporation of organic matter is essential. 75% = Chemical Fertilizer and rest through green manure crop dicha.	Mid land / Low land Irrigated	04	Performance indicator/Parameter
				Initial NPK& O. M of soil.
				No of tillers.
				Yield

Proposed on-farm trials -11 (Rabi 2008)

1. Title of on-farm trials : 6. Varietals assessment in Brinjal against Wilt.
2. Problem diagnosed: Wilt causes as high as 70 % yield reductions in brinjal. The crop is cultivated in an area of 800 ha in uplands and midlands. The plant mortality at flowering is a more than 80 %.
3. Cropping system and thematic area : Vegetable based varietal assessment.
4. Details of technology selected for assessment/refinement :
 1. Local variety
 2. Mukta Keshi.

Source of technology	Characteristic of technology/ variety/product	Farming situation	No. of trials	Performance indicator/parameter
NARP (2000) Ambikapur (IGKV) (Century seeds) IGKV, Raipur	Plant strong branching long, purple black, early higher yields, small seeds, long self life.	Mid land Irrigated	05	Plant height
				No. of branches/plant
				Av. No. And wt. of fruits / plant
				Net return
				Farmers reaction
				Feed Back

Proposed on-farm trials -12 (2009)

1. Title of on-farm trials : Assessment of Neem oil performance for pod borer control in chickpea.
2. Problem diagnosed: Heavy infestation of pod borer hence, 22% yield is effected.
3. Cropping system and thematic area : Rice Based (Plant Protection).
4. Details of technology selected for assessment:

1. **F P** 2. **I P (Neem oil @5ml/lit.)**

Source of technology	Characteristic of technology/ variety/product	Farming situation	No. of trials	Performance indicator/parameter
NATP (2005) I G K V	Eco friendly, less expansive and easily availability.	Mid land/lowland Irrigated	04	No. of affected pod/plant
				No. of branches/plant
				Yield & B. C. Ratio
				Farmers reaction
				Feed Back

Proposed on-farm trials -13 (2009)

1. Title of on-farm trials : Assessment on the basis of soil test based targeted yield (6t/ha) approach.
2. Problem diagnosed: Imbalance chemical fertilizer application created several insects & diseases problem as well as yield stagnation.
4. Cropping system and thematic area : Rice Based & nutrients management.
4. Details of technology selected for assessment:

1. **F P : Imbalance fertilizer** 2. **75%N through chemical fertilizer**

Source of technology	Characteristic of technology/ variety/product	Farming situation	No. of trials	Performance indicator/parameter
I G K V 2005	The average productivity of rice is 24 q/ha of this district while potential is more than double, Hence, Soil test based 60q/ha target is fixed.	Mid land/lowland Irrigated	04	Initial NPK & O. M. or soll.
				No. of tillers & yield attributing characters.
				Yield

Proposed on-farm trials -14 (2008)

1. Title of on-farm trials : Varietal assessment tomato against Wilt.
 2. Problem diagnosed: Wilt causes as high as 80 % yield reduction in tomato which is major hindrance in tomato cultivation. The crop is cultivated in area of 1100 ha in uplands and midlands. The plant mortality at flowering more than 70 %.

1. Cropping system and thematic area : Vegetable based/ varietal assessment.

4. Details of technology selected for assessment:

1. Local variety 2. Lakshmi (NP-5005) hybrid 3. Nidhi hybrid

Source of technology	Characteristic of technology/ variety/product	Farming situation	No. of trials	Performance indicator/parameter
NARP(2000) CARS, Ambikapur (IGKV) (Nunhems India Ltd. and Shri minis seed company)	Laskhmi- Determinate, strang plant, desi type, fruit fhttish round, acidic, fruit wt 80-100 gm. Nidhi- Indeterminate, fruit oblong round, meaty, fruit wt. 90-100gm.	Mid land Irrigated	05	Plant height
				No. of branches/plant.
				Yield
				AV. No. and v. wt. of fruit/plant
				Net return
				B. C. ratio
				Farmers reaction
				Feedback

Proposed on-farm trials -15 (2008)

1. Title of on-farm trials : Varietal assessment brinjal against Wilt.
2. Problem diagnosed: Wilt causes as high as 70 % yield reductions in brinjal The crop is cultivated in area of 800 ha in uplands and midlands. The plant mortality at flowering more than 80 %.
3. Cropping system and thematic area : Vegetable based/ varietal assessment.
4. Details of technology selected for assessment:
 1. Local variety
 2. Mukta Keshi

Source of technology	Characteristic of technology/ variety/product	Farming situation	No. of trials	Performance indicator/parameter
NARP(2000) CARS, Ambikapur (IGKV) (Century seeds) IGKV, Raipur	Plant strong, branching long, purple black, early higher yields, small seeds, long self life.	Mid land Irrigated	05	Plant height
				No. of branches/plant.
				Yield
				AV. No. and v. wt. of fruit/plant
				Net return
				B. C. ratio
				Farmers reaction
				Feedback