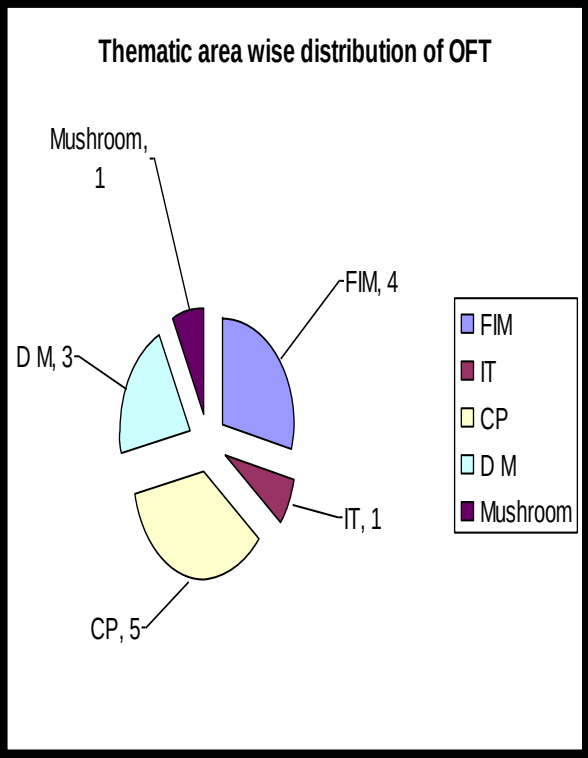
ACTION PLAN OF KVK, JANJGIR –CHAMPA
Year 2010-11

PROPOSED ON FARM TESTING

Proposed ON FARM TESTING



Season	Thematic Area	No. of OFT
Around the year	IT	1
Kharif-2010	FIM	3
Kharif-2010	Diseases management	3
Kharif-2010	Mushroom	1
Kharif-2010	CP	3
Rabi 2010	FIM	1
Rabi 2010	FIM	1

No. of OFT - 14

OFT-1

Title of on-farm trials	Assessment of information technology through "Kisan Mobile Sandesh." (KMS
Season & Year	Around the year
Number of trials	1000
Farmers Practices	Mostly through Ag .Dep Or Contact farmers
Problem diagnose	Low efficiency of existing rural information delivery system
Thematic area	IT
Name of Technology	IT based alternate rural information delivery system through KMS
Details of technology selected	
Source of technology (Year)	JNKVV, 2007
Characteristic of technology/ variety/ product	Information technology
Farming situation	All block of the district
Performance indicator/parameter	1. Understanding of the message 2. Need & time based information 3. Applicability of the messages 4. Impact of Technology

OFT-2

Title of on-farm trials	Assessment of Improved Implements for line sowing.
Season & Year	Rabi 2010-11
Number of trials	04
Farmers Practices	Broad cast method for sowing
Problem diagnose	Lack of improved farm implements for sowing at proper depth
Thematic area	FIM
Name of Technology	Improved Implements for line sowing.
Details of technology selected	Seed Cum Ferti. Drill
Source of technology (Year)	IGKVV, 2001
Characteristic of technology/ variety/ product	Sowing depth and plant population are the major factor
Farming situation	Mid / Low land
Performance indicator/parameter	Yield BC ratio Farmers reaction Feed Back

OFT-3

Title of on-farm trials	Assessment of yield of Safflower/Gram under rain fed condition.
Season & Year	Rabi 2010-11
Number of trials	04
Farmers Practices	Relay crop or kept land fallow
Problem diagnose	Most of the farmers kept their field fallow after harvest of paddy. (Area 80,000)
Thematic area	CP
Name of Technology	Safflower variety JSF-1/Gram-Vaibav
Details of technology selected	Rice will harvest at the physiological maturity stage than after residual soil moisture will be utilized for second crop establishment.
Source of technology (Year)	IGKVV, NATP, RRPS-3 (2000&2004)
Characteristic of technology/ variety/ product	Verities are suitable for rainfed condition
Farming situation	Mid / low land
Performance indicator/parameter	No. of grains/ plan Yield B C Ratio Farmers reaction Feed back

OFT-4

Title of on-farm trials	Yield assessment of different hybrids on the basis of soil test based targeted yield approach
Season & Year	2010
Number of trials	04
Farmers Practices	Imbalance ratio of Nutrients
Problem diagnose	Hybrid rice area started horizontal spread but till date there is no specific recommendation at micro level.
Thematic area	CP & NM
Name of Technology	Soil test based targeted yield approach
Details of technology selected	Soil test based targeted yield approach 7t/ha along with hybrid variety
Source of technology (Year)	IGKVV 2007
Characteristic of technology/ variety/ product	The average productivity of hybrid rice is low while potential is more then double. Hence to harvest full potential soil test based approach should be fallowed.
Farming situation	Mid land
Performance indicator/parameter	1. Yield 2. B C Ratio 3. Farmers reaction 4. Feed back

OFT-5

Title of on-farm trials	Assessment of chemical control of Blast disease of rice.
Season & Year	Kharif 2010
Number of trials	04
Farmers Practices	Poor knowledge and adoption of control measures of Blast disease
Problem diagnose	Blast disease causes heavy losses in rice crop.
Thematic area	Disease Management
Name of Technology	Assessment of fungicide
Details of technology selected	Seed Treatment by Tricyclazole @ 1 gm per kg of seed + Spraying of Tricyclazole @ 0.01% at PI stage.
Source of technology (Year)	IGKV, Raipur (2005)
Characteristic of technology/ variety/ product	Use of Tricyclazole is one of the chemical can effectively be used to control Blast in Rice.
Farming situation	Irrigated and Rainfed
Performance indicator/parameter	Yield, Disease Severity% &Intensity, BC Ratio, Farmers reaction, Feed Back

OFT-6

Title of on-farm trials	Assessment of Tilt (Propiconazole) for Blast disease in rice.
Season & Year	Kharif 2010
Number of trials	04
Farmers Practices	Plant protection measures are rarely used.
Problem diagnose	Low yield due to incidence of blast in rice.
Thematic area	Disease Management
Name of Technology	Assessment of Chemical control
Details of technology selected	Use of Tilt @ 0.1% can be used to reduce blast incidence in rice.
Source of technology (Year)	IGKV, Raipur (2005)
Characteristic of technology/ variety/ product	Use of Tilt @ 0.1% can be used to reduce blast incidence in rice.
Farming situation	Irrigated
Performance indicator/parameter	Yield, Disease Severity%, BC ratio, Farmers reaction, Feed back.

OFT-7

Title of on-farm trials	**Assessment of *Pseudomonas fluorescens* for sheath blight management in rice.**
Season & Year	**Kharif 2010**
Number of trials	**04**
Farmers Practices	**Plant protection measures are rarely used.**
Problem diagnose	**Low yield due to incidence of Sheath blight disease in rice.**
Thematic area	**Disease Management**
Name of Technology	**Assessment of *Pseudomonas fluorescens* for sheath blight management.**
Details of technology selected	**Bio-fungicide to manage the disease.**
Source of technology (Year)	**IGKV, Raipur (2005)**
Characteristic of technology/ variety/ product	**(1) Seed treatment by PF @ 10 gm per kg of seed + Spraying of PF @ 1 kg/hac.**
Farming situation	**Mid land, Irrigated**
Performance indicator/parameter	**Yield, Disease Severity%, BC ratio, Farmers reaction, Feed back.**

OFT-8

Title of on-farm trials	**Assessment of Improved Bullock drawn Biasi Implement for Biasi**
Season & Year	**Kharif -2010**
Number of trials	**04**
Farmers Practices	**Deshi Plough**
Problem diagnose	**In kharif nearly 60-80% covered under direct seeded or lehi method. Maintaining proper plant population and conservation of water are major constraint.**
Thematic area	**FIM**
Name of Technology	**Improved Biasi Implement for Biasi.**
Details of technology selected	**Economical cocept, save energy and cost. During Biasi condition the plant mortality is higher then the improved practice.**
Source of technology (Year)	**RRPS-NATP-21,IGKVV-2003**
Characteristic of technology/ variety/ product	**Economical concept, save energy and cost.**
Farming situation	**Mid/Low land**
Performance indicator/parameter	**Yield, BC Ratio, Farmers reaction & Feed back**

OFT-9

Title of on-farm trials	Assessment of Tillage Practices by improved farm implement.
Season & Year	Kharif-2010
Number of trials	04
Farmers Practices	Deshi plough
Problem diagnose	In kharif nearly 60-80% covered under direct seeded or lehi method. Maintaining proper plant population and conservation of water are major constraint.
Thematic area	FIM
Name of Technology	Tendua Iron Plough
Details of technology selected	Improved farm Implements for seed bed preparation
Source of technology (Year)	IGKVV, Raipur-2003
Characteristic of technology/ variety/ product	Better pulverized the soil for seed bed preparation. Economical concept, save energy and cost.
Farming situation	Mid l/ Low land
Performance indicator/parameter	Yield,BC Ratio,Farmers reaction & Feed back

OFT-10

Title of on-farm trials	Assessment of Improved farm Implements for intercultural operations
Season & Year	Kharif & 2010
Number of trials	4
Farmers Practices	Manual
Problem diagnose	Due to increase in cost of cultivation with special reference to labour an time.
Thematic area	FIM
Name of Technology	Improved Implement for intercultural operations
Details of technology selected	Paddy Weeder or Ambika Towachi
Source of technology (Year)	IGKVV, Raipur 2000
Characteristic of technology/ variety/ product	The low input farm implements are economically cheaper, time saving and reduce labour cost.
Farming situation	Mid/low land
Performance indicator/parameter	1. Yield 2. B C Ratio 3. Farmers reaction 4. Feed back

OFT-11

Title of on-farm trials	**Assessment of herbicides in direct seeded rice.**
Season & Year	**Kharif & 2010**
Number of trials	**04**
Farmers Practices	**Manual**
Problem diagnose	**Heavy loss due to Weed. (Area under paddy 2.49 lakh ha with productivity 20.73q/ha Weed affects the crop severely and losses more than 30%)**
Thematic area	**Weed Management & CP**
Name of Technology	**Ethoysulfuraon (Sunrice 40gm/ac)**
Details of technology selected	**Post emergence herbicide**
Source of technology (Year)	**IGKVV 2008**
Characteristic of technology/ variety/ product	**Use as post emergence**
Farming situation	**Mid/low land**
Performance indicator/parameter	**Weed density/Sq meter after 45 days B. C. Ratio farmers reaction Feed back**

OFT-12

Title of on-farm trials	**Assessment of green manure performance in Rice cultivation.**
Season & Year	**Kharif & 2010**
Number of trials	**04**
Farmers Practices	**Chemical fertilizer**
Problem diagnose	**Low organic matter content in soil**
Thematic area	**NM&CP**
Name of Technology	**Incorporation of green manure crop in the field after 30-35 days of sowing.**
Details of technology selected	**Daicha**
Source of technology (Year)	**IGKVV 2000**
Characteristic of technology/ variety/ product	**Increase soil organic matter content and reduce chemical fertilizer consumption.**
Farming situation	**Mil land**
Performance indicator/parameter	**1. Yield** **2. B C Ratio** **3. Farmers reaction** **4. Feed back**

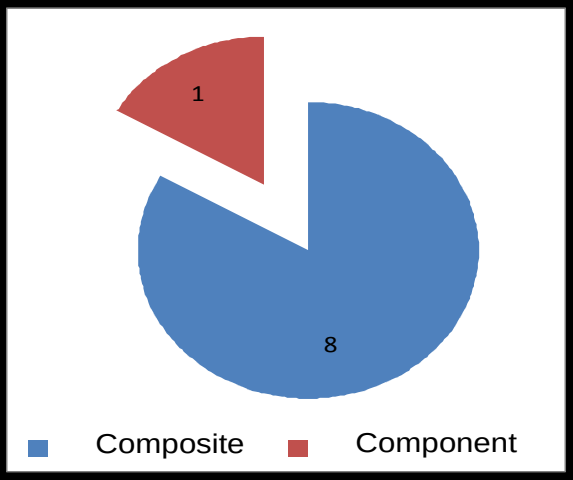
OFT-13

Title of on-farm trials	Yield assessment of different hybrids on the basis of soil test based targeted yield approach
Season & Year	Kharif & 2010
Number of trials	4
Farmers Practices	**Imbalance ratio of Nutrients**
Problem diagnose	Hybrid rice area started horizontal spread but till date there is no specific recommendation at micro level.
Thematic area	CP & NM
Name of Technology	Soil test based targeted yield approach
Details of technology selected	Soil test based targeted yield approach 7t/ha along with hybrid variety
Source of technology (Year)	IGKVV2007
Characteristic of technology/ variety/ product	The average productivity of hybrid rice is low while potential is more than double. Hence to harvest full potential soil test based approach should be fallowed.
Farming situation	Mid land
Performance indicator/parameter	1. Yield 2.B C Ratio 3.Farmers reaction 4.Feed back

OFT-14

Title of on-farm trials	**To assess different channels for mushroom marketing.**
Season & Year	**Rabi 2010**
Number of trials	**05**
Farmers Practices	
Problem diagnose	**After creating awareness in spite of farmers willingness to grow mushroom. The major constraint is with marketing.**
Thematic area	**Mushroom Production and Marketing**
Name of Technology	**Assessment of marketing channels of mushrooms.**
Details of technology selected	**Different marketing channels such as Kirana & Provision store, Daily need shop, Hotels and Personal contact.**
Source of technology (Year)	**Innovative approach**
Characteristic of technology/ variety/ product	**The produced mushrooms will be sell by different sources viz. Kirana & Provision store, Daily need shop, Hotels and Personal contact.**
Farming situation	**Farmers hut**
Performance indicator/parameter	**Yield, BC ratio, Feed back, Farmers reaction.**

PROPOSED FRONT LINE DEMONSTRATION Oilseed and Pulse crops



Season	Composite FLD (Nos)	Component FLD (Nos)	Total No. FLD
Rabi, 2009-10	3	0	3
Kharif 2010	2	0	2
Rabi 2010-11	3	1	4

No. of FLD - 9

Crop - Til

Village	01
Season & Year	Kharif 2010
Irrigation availability	Available
Soil Type	Matasi
Problem Identified	Balance fertilizer & Variety
Area affected (ha or %)	23 %
Farmers Practice	Farmers grow rice or oil seed / pulse with low productivity
Technology selected	Variety , line sowing & balance fertilizer
Detail of the technology	
Source & Year of Techno.	IGKVV, 2008
Variety Proposed	TKG 8
Characteristics of the variety	High yielding ,Medium duration & suitable for both kharif & rabi.
Source & Year of release of the variety	JNKVV, 2001

Area Proposed (ha)	5
No. of Demos	15
Critical Inputs by the Farmers	Fertilizer
Critical Inputs by the KVK	Variety & Plant protection
Cost of These Inputs (Rs/ha)	2000
Proposed Extension Activities under FLD	Training & Field day
Fund required head wise	15000

Crop – Ground nut

Village	**2**
Season & Year	**Kharif 2010**
Irrigation availability	**Available**
Soil Type	**Matasi**
Problem Identified	**Balance fertilizer & Variety**
Area affected (ha or %)	**23 %**
Farmers Practice	**Farmers grow rice or oil seed / pulse with low productivity**
Technology selected	**Variety , line sowing & balance fertilizer**
Detail of the technology	**Variety**
Source & Year of Techno.	**IGKVV, 2008**
Variety Proposed	**TAG24**
Characteristics of the variety	**Duration 90-105 days,Non dormant,oil content 48%,shelling %70 seed white seeded**
Source & Year of release of	**[illegible]**

Area Proposed (ha)	**5**
No. of Demos	**15**
Critical Inputs by the Farmers	**Fertilizer**
Critical Inputs by the KVK	**Variety & Plant protection**
Cost of These Inputs (Rs/ha)	**2000**
Proposed Extension Activities under FLD	**Training & Field day**
Fund required head wise	**15000**

Crop - ……Mustard……..

Village	**2**
Season & Year	**Rabi 2010-11**
Irrigation availability	**Available**
Soil Type	**Alfisol / Vertisol**
Problem Identified	**Variety + Balance fertilizer**
Area affected (ha or %)	**33.9 %+28.2%=62.1%**
Farmers Practice	**Utera or kept field fallow after harvest of paddy**
Technology selected	**Variety**
Detail of the technology	**Introduction of new variety , use of sulphur,balance fertilizer & Improved plant protections measures .**
Source & Year of Techno.	**IGKVV, Raipur\ pub\2008\59**
Variety Proposed	**Chhattisgarh sarson**
Characteristics of the variety	**Grain medium bold and brown in colour, less infestation of white rust, powdery mildew, Alternariablight Medium duration & High yielding**
Source & Year of release of the	**IGKVV, Raipur (CG) & Notification yet**

Area Proposed (ha)	**5**
No. of Demos	**15**
Critical Inputs by the Farmers	**Fertilizer & Plant protection**
Critical Inputs by the KVK	**Variety & Sulphur**
Cost of These Inputs (Rs/ha)	**1000**
Proposed Extension Activities under FLD	**Training & mustard day.**
Fund required head wise	**15000**

Crop - ……Arhar……..

Village	03
Season & Year	Kharif 2010
Irrigation availability	Available
Soil Type	Matasi
Problem Identified	Variety
Area affected (ha or %)	23 %
Farmers Practice	Asha
Technology selected	Sowing by Indira Seed drill , Variety & balance fertilizer.
Detail of the technology	
Source & Year of Techno.	IGKVV, Raipur 2006
Variety Proposed	Rajeev lochan
Characteristics of the variety	High yielding ,Medium duration, SMV & Fusarium wilt resistance.
Source & Year of release of the variety	IGKVV, Raipur (CG)2006 &Notification yet awaited

Area Proposed (ha)	5
No. of Demos	15
Critical Inputs by the Farmers	Fertilizer
Critical Inputs by the KVK	Variety & Plant protection
Cost of These Inputs (Rs/ha)	2500
Proposed Extension Activities under FLD	Training & Field day
Fund required head wise	20000

Crop - ……Urd……..

Village	**2**
Season & Year	**Kharif 2010**
Irrigation availability	**Available**
Soil Type	**Matasi**
Problem Identified	**Podery mildew**
Area affected (ha or %)	**18 %**
Farmers Practice	**Asha**
Technology selected	**Sowing by Indira Seed drill , Variety & balance fertilizer.**
Detail of the technology	
Source & Year of Techno.	**IGKVV, Raipur 2007**
Variety Proposed	**96-2**
Characteristics of the variety	**High yielding ,Medium duration & powdery mildew resistance.**
Source & Year of release of the variety	**IGKVV, Raipur (CG)2007**

Area Proposed (ha)	**5**
No. of Demos	**15**
Critical Inputs by the Farmers	**Fertilizer &PP**
Critical Inputs by the KVK	**Variety**
Cost of These Inputs (Rs/ha)	**2000**
Proposed Extension Activities under FLD	**Training & Field day**
Fund required head wise	**20000**

Crop - Gram

Village	2
Season & Year	Rabi 2010-11
Irrigation availability	Available
Soil Type	Alfisol / Vertisol
Problem Identified	Wilt problem
Area affected (ha or %)	33.9 %+28.2%=62.1%
Farmers Practice	Utera or kept field fallow after harvest of paddy
Technology selected	Variety
Detail of the technology	Introduction of new variety , use of balance fertilizer & Improved plant protection measures .
Source & Year of Techno.	IGKVV,2010
Variety Proposed	Indira Chana 1
Characteristics of the variety	High yielding ,Medium duration , Wilt resistance ,tolerant to high tem & drought.
Source & Year of release of the variety	IGKVV, Raipur 2010

Area Proposed (ha)	5
No. of Demos	15
Critical Inputs by the Farmers	Fertilizer & Plant protection
Critical Inputs by the KVK	Variety
Cost of These Inputs (Rs/ha)	3500
Proposed Extension Activities under FLD	Training & Field day
Fund required head wise	25000

Crop – Rice	
Village	03
Season & Year	Kharif 2010
Irrigation availability	Available
Soil Type	Alfisol/vertisol
Problem Identified	
Area affected (ha or %)	
Farmers Practice	
Technology selected	
Detail of the technology	
Source & year of Techo.	
Variety Proposed	
Characteristics of the variety	
Source & Year of release of the variety	IGVKK, Raipur

Crop – Hybrid Rice

Village	**2**
Season & Year	**Kharif 10**
Irrigation availability	**Available**
Soil Type	**Alfisol / Vertisol**
Problem Identified	
Area affected (ha or %)	**33.9 %+28.2%=62.1%**
Farmers Practice	**Farmers grow private sector seed having high price**
Technology selected	**Variety**
Detail of the technology	**Introduction of new variety , use of balance fertilizer & Improved plant protection measures .**
Source & Year of Techno.	**IGKVV,2007**
Variety Proposed	**Indira sona**
Characteristics of the variety	**High yielding ,Medium duration ,gal midge resistant &blast tolerant**
Source & Year of release of the variety	**IGKVV, Raipur 2007**

Area Proposed (ha)	5
No. of Demos	15
Critical Inputs by the Farmers	Fertilizer & Plant protection
Critical Inputs by the KVK	Variety
Cost of These Inputs (Rs/ha)	2000
Proposed Extension Activities under FLD	Training & Field day
Fund required head wise	25000

Crop – Wheat

Village	2
Season & Year	Rabi 2010-11
Irrigation availability	Available
Soil Type	Alfisol / Vertisol
Problem Identified	Low productivty of existing variritis
Area affected (ha or %)	33.9 %+28.2%=62.1%
Farmers Practice	Farmer grow old varisty Lok 1
Technology selected	Variety
Detail of the technology	Introduction of new variety , use of balance fertilizer & Improved plant protection measures .
Source & Year of Techno.	IGKVV,2007
Variety Proposed	Ratan(C.G 5016)
Characteristics of the variety	High yielding ,Medium duration ,suitable for rainfed condition also,brown &black rust resistant & everage productivity 19q/ha
Source & Year of release of the variety	IGKVV, Raipur 2007

Area Proposed (ha)	**5**
No. of Demos	**15**
Critical Inputs by the Farmers	**Fertilizer & Plant protection**
Critical Inputs by the KVK	**Variety**
Cost of These Inputs (Rs/ha)	**4000**
Proposed Extension Activities under FLD	**Training & Field day**
Fund required head wise	**25000**

PROPOSED TRAINING PROGRAMMES

Type	Target		
	No.	Duration in Days	Participants
Farmers & Farm Women	75	75	1800
Rural Youths	5	5	125
In-Service Personals	4	4	200
Sponsored	4	4	150
Collaborative	3	3	90
Total	91	91	2365

PROPOSED PRODUCTION AND SUPPLY OF TECHNOLOGICAL PRODUCTS.

Product from KVK		Target with Unit
Seeds (q)	Paddy seed	300 q
Seedlings/Saplings (No.)		
Bio- Products		-
Livestock Products/Strain		-
Fingerlings		
Others Items		-

Note : Please Specify the Crop & Variety

Extension Activities

Extension Activities	Target	
	No	Participants
Field Days	4	150
Kisan Mela	3	2000
Kisan Gosthi/ Farmers Meeting	2	200
Ex- trainees Meet	5	250
Diagnostic Visit to farmers Fields	40	400
Farmers Visits	500	500
Lecture Delivers by KVK Scientists	40	1000
Exhibitions	3	500
Film Shows	25	650
Radio Programmes	12	
TV Shows	4	
Animal Health Camp	0	0
SAC Meeting	1	25
News Letter	4	2000
Soil & Water Sample Tested	0	0
TOTAL	**639**	**5675**